Fișa de îndeplinire a standardelor minimale CNATDCU

Conf. Univ. Dr. Ing. Vlad-Andrei ANTOHE

Nr. Crt.	Tipul de activitate / Criteriu	Indicator obținut de candidat	Standard minimal	Criteriu îndeplinit (DA/NU)	Depășire față de minimal (%)
1	A. Activitatea didactică și profesională	4.448	2	DA	122.379
2	B.1. Activitatea de cercetare: articole științifice originale în extenso ca autor **(I)**	8.114	4	DA	102.839
3	B.2. Activitatea de cercetare: articole științifice originale în extenso ca prim autor sau autor corespondent **(P)**	9.684	4	DA	142.100
4	C. Citări în reviste cu factor de impact	112.155	40	DA	180.387
5	Indicele Hirsch (h-index)	19	10	DA	90.000
Punctaj total CNATDCU (T)		**22.754**	**12**	**DA**	**89.618**

Punctaj total CNATDCU (T): A + I/2 + P/2 + C/20 + h/5 (minim 12 pentru Abilitare/CS-I/Prof. Univ.)	**22.754**

Ultima actualizare: **13/04/2023**

Semnătură candidat: **Conf. Univ. Dr. Ing. Vlad-Andrei ANTOHE**

A. Activitatea didactică și profesională

A.1. Cărți în edituri internaționale recunoscute Web of Science în calitate de autor

Nr. Crt.	Referință bibliografică (*Autor principal sau unic autor)	Nr. de autori (n_i)	Nr. efectiv de autori (n_i^{ef})	Punctaj ($4/n_i^{ef}$)
1	Ș. Antohe and **V. A. Antohe**, *"Electrostatics: Formalism of the electrostatic field in vacuum and matter"* , 300 pages, IOP Publishing Ltd., Bristol, UK, ISBN: 978-0-750-35857-6 (2023), **in press**	2	2.000	2.000
Punctaj total: $A_1 = \Sigma_i(4/n_i^{ef})$				**2.000**

A.2. Capitole de cărți în edituri internaționale recunoscute Web of Science în calitate de autor / Review-uri în reviste cotate ISI

Nr. Crt.	Referință bibliografică (*Autor principal sau unic autor)	Nr. de autori (n_i)	Nr. efectiv de autori (n_i^{ef})	Punctaj ($1/n_i^{ef}$)
1	Ș. Antohe, S. Iftimie, L. Hrostea, **V. A. Antohe** and M. Gîrtan, *"A critical review of photovoltaic cells based on organic monomeric and polymeric thin film heterojunctions"* , Thin Solid Films 642, 219-231 (2017), doi: 10.1016/j.tsf.2017.09.041, **REVIEW**	5	5.000	0.200
2	Ș. Antohe, I. Enculescu, C. Beșleaga, I. Arghir, **V. A. Antohe**, V. Covlea, A. Radu and L. Ion, *"Hybrid Nanostructured Organic/Inorganic Photovoltaic Cells"* , in Nanostructured Materials and Nanotechnology IV: Ceramic Engineering and Science Proceedings (Eds: S. Mathur, S. S. Ray and T. Ohiji), Vol. 31 (Iss. 7), Ch. 9, 71-82, John Wiley & Sons, Inc., Hoboken, NJ, USA, ISBN: 978-0-470-59472-8 (2010), **REVIEW**	8	6.500	0.154
Punctaj total: $A_2 = \Sigma_i(1/n_i^{ef})$				**0.354**

A.4. Cărţi, manuale, îndrumare de laborator în edituri naționale sau alte edituri internaționale ca autor, note interne, prezentări susținute pentru aprobarea analizelor de date în cadrul colaborărilor mari

Nr. Crt.	Referință bibliografică (*Autor principal sau unic autor)	Nr. de autori (n_i)	Nr. efectiv de autori (n_i^{ef})	Punctaj ($0.5/n_i^{ef}$)
1	Ș. Antohe, L. Ion, F. Stanculescu, S. Iftimie, A. Radu and **V. A. Antohe**, *"Fizica și tehnologia materialelor semiconductoare – Lucrări practice"* , Ars Docendi, Universitatea din București, 165 Pages, ISBN: 978-973-558-940-0 (2016)	6	5.500	0.091
2	**V. A. Antohe***, *"Capacitive Sensors Based on Localized Nanowire Arrays. Nanotechnology & Device Integration Routes"* , Lambert Academic Publishing (LAP), 244 Pages, ISBN: 978-3-659-38899-6 (2013)	1	1.000	0.500
Punctaj total: $A_4 = \Sigma_i(0.5/n_i^{ef})$				**0.591**

A.5. Capitole de cărți în edituri naționale sau alte edituri internaționale ca autor

Nr. Crt.	Referință bibliografică (*Autor principal sau unic autor)	Nr. de autori (n_i)	Nr. efectiv de autori (n_i^{ef})	Punctaj ($0.2/n_i^{ef}$)
1	**V. A. Antohe***, *"Advances in Nanomaterials for Photovoltaic Applications"* , in Advances in Nanomaterials for Photovoltaic Applications (Ed: V. A. Antohe), 1-3, MDPI, 4052 Basel, Switzerland, ISBN: 978-3-0365-7050-1 (2023), **EDITORIAL**	1	1.000	0.200
2	O. Toma, **V. A. Antohe***, A. M. Panaitescu, S. Iftimie, A. M. Răduță, A. Radu, L. Ion and Ș. Antohe, *"Effect of RF Power on the Physical Properties of Sputtered ZnSe Nanostructured Thin Films for Photovoltaic Applications"* , in Advances in Nanomaterials for Photovoltaic Applications (Ed: V. A. Antohe), 121-135, MDPI, 4052 Basel, Switzerland, ISBN: 978-3-0365-7050-1 (2023)	8	6.500	0.031
3	D. Manica, **V. A. Antohe**, A. Moldovan, R. Pascu, S. Iftimie, L. Ion, M. P. Suchea and S. Antohe, *"Thickness Effect on Some Physical Properties of RF Sputtered ZnTe Thin Films for Potential Photovoltaic Applications"* , in Novel Nanocomposites: Optical, Electrical, Mechanical and Surface Related Properties (Eds: M. Suchea, E. Koudoumas and P. Pascariu), 79-97, MDPI, 4052 Basel, Switzerland, ISBN: 978-3-0365-2247-0 (2021)	8	6.500	0.031
4	S. Iftimie, **V. A. Antohe**, A. Radu and Ș. Antohe, *"Study of the physical properties of chlorophyll-a and polymers thin films for photovoltaic applications – a brief review"* , in Proceedings of the International Workshop on Advances in Nanomaterials (Eds: V. Barsan and V. Kuncser), 27-39, Horia Hulubei Publishing House, Bucharest-Măgurele, ISBN: 978-606-94603-9-9 (2018), **REVIEW**	4	4.000	0.050
Punctaj total: $A_5 = \Sigma_i(0.2/n_i^{ef})$				**0.312**

A.6. Lucrări în extenso (cel puțin 3 pagini) publicate în Proceedings-uri indexate ISI:

Nr. Crt.	Referință bibliografică (*Autor principal sau unic autor)	Nr. de autori (n_i)	Nr. efectiv de autori (n_i^{ef})	Punctaj ($0.2/n_i^{ef}$)
1	S. Matéfi-Tempfli, M. Matéfi-Tempfli, A. Vlad, **V. A. Antohe** and L. Piraux, *"Nanowires and nanostructures fabrication using template methods: a step forward to real devices combining electrochemical synthesis with lithographic techniques"* , J. Mater. Sci – Mat. Electron. **20(1)**, 249-254 (2009), doi: 10.1007/s10854-008-9568-6, **PROCEEDINGS**	5	5.000	0.040
2	**V. A. Antohe***, A. Radu, S. Yunus, A. Attout, P. Bertrand, M. Matéfi-Tempfli, L. Piraux and S. Matéfi-Tempfli, *"A versatile method to grow localized arrays of nanowires for highly sensitive capacitive devices"* , J. Optoelectron. Adv. Mat. **10(11)**, 2936-2941 (2008), **PROCEEDINGS**	8	6.500	0.031
3	M. Ghenescu, L. Ion, I. Enculescu, C. Tăzlaoanu, **V. A. Antohe**, M. Sima, M. Enculescu, E. Matei, R. Neumann, O. Ghenescu, V. Covlea and Ș. Antohe, *"Electrical properties of electrodeposited CdS nanowires"* , Physica E: Low-Dimensional Systems & Nanostructures **40(7)**, 2485-2488 (2008), doi: 10.1016/j.physe.2007.09.188, **PROCEEDINGS**	12	8.500	0.024
4	Ș. Antohe, L. Ion, **V. A. Antohe**, M. Ghenescu and H. Alexandru, *"Defects induced by ionizing radiations in A^{II}-B^{VI} pollycristalline thin films used as solar cell materials"* , J. Optoelectron. Adv. Mat. **9(5)**, 1382-1394 (2007), **PROCEEDINGS**	5	5.000	0.040

5	L. Ion, **V. A. Antohe**, M. Ghenescu, O. Ghenescu, R. Băzăvan, M. Dănilă, M. M. Gugiu and Ș. Antohe, *"The effect of ionizing radiations on the structural, electrical and optical properties of A^{II}-B^{VI} polycrystalline thin films used as solar cell materials"* , Proc. Thin-Film Compound Semiconductor Photovoltaics **1012**, 343-348 (2007), doi: 10.1557/PROC-1012-Y12-01, **PROCEEDINGS**	8	6.500	0.031
6	L. Ion, **V. A. Antohe** and Ș. Antohe, *"Defects induced by electron irradiation in CdSe thin films"* , J. Optoelectron. Adv. Mat. **7(4)**, 1847-1858 (2005), **PROCEEDINGS**	3	3.000	0.067
7	Ș. Antohe, L. Ion and **V. A. Antohe**, *"The effect of the electron irradiation on the structural and electrical properties of A^{II}-B^{VI} thin polycrystalline films"* , J. Optoelectron. Adv. Mat. **5(4)**, 801-816 (2003), **PROCEEDINGS**	3	3.000	0.067
Punctaj total: $A_6 = \Sigma_i(0.2/n_i^{ef})$				**0.298**

A.10. Director/responsabil pentru proiecte de cercetare în valoare V_i euro câștigate prin competiție națională sau internațională. Sumele în lei sau în alte valute se convertesc în euro la cursul mediu din anul respectiv

Nr. Crt.	Proiect de cercetare (*Director de proiect)	Valoare (RON)	Valoare V_i (EUR)	Punctaj ($V_i/10^5$)
1	**V. A. Antohe***, TE 115/2020 (PN-III-P1-1.1-TE-2019-0868): NANODELL - *"Electrozi-de-spate nanostructuraţi pentru celule solare cu eficienţă ridicată"* (curs mediu BNR în 2020: 4.8371 RON/EUR)	431900	89289.037	0.893
Punctaj total: $A_{10} = \Sigma_i(V_i/10^5)$				**0.893**

Punctaj total (A): $A_1 + A_2 + A_4 + A_5 + A_6 + A_{10}$ **4.448**

B. Activitatea de cercetare

Nr. Crt.	Referință bibliografică (*Autor principal sau unic autor)	AIS_i ♣	Autor principal (Da/Nu)	Nr. de autori (n_i)	Nr. efectiv de autori (n_i^{ef})	Punctaj (AIS_i/n_i^{ef})
1	R. Ivan, C. Popescu, **V. A. Antohe**, S. Antohe, C. Negrilă, C. Logofătu, A. Pérez del Pino and E. György, *"Iron oxide/hydroxide – nitrogen doped graphene-like visible-light active photocatalytic layers for antibiotics removal from wastewater"* , Scientific Reports **13**, 2740 (2023), doi: 10.1038/s41598-023-29927-9, **IF: 4.997**, **AIS: 1.208**	1.208	NU	8	6.500	0.186
2	A. M. Panaitescu and **V. A. Antohe***, *"Study of optical and electrical properties of RF-sputtered ZnSe/ZnTe heterojunctions for sensing applications"* , Coatings **13(1)**, 208 (2023), doi: 10.3390/coatings13010208, **IF: 3.236**, **AIS: 0.410**	0.410	DA	2	2.000	0.205
3	C. Radu, O. Toma, Ș. Antohe, **V. A. Antohe*** and C. Miron, *"Physics Classes Enhanced by Smartphone Experiments"* , Romanian Reports in Physics 74, 908 (2022), **IF: 2.085**, **AIS: 0.202**	0.202	DA	5	5.000	0.040
4	A. I. Radu, **V. A. Antohe***, S. Iftimie, I. Antohe, M. Filipescu, A. Radu, D. C oman, M. L. Stîngescu, M. Dinescu and Ș. Antohe, *"Study of a new composite based on SnO2 nanoparticles - P3HT:PC71BM co-polymer blend, used as potential absorber in bulk heterojunction photovoltaic cells"* , Materials Today Communications **33**, 104757 (2022), doi: 10.1016/j.mtcomm.2022.104757, **IF: 3.662**, **AIS: 0.500**	0.500	DA	10	7.500	0.067
5	A. M. Panaitescu, I. Antohe, A. M. Răduță, S. Iftimie, Ș. Antohe, C. N. Mihăilescu and **V. A. Antohe***, *"Morphological, Optical and Electrical Properties of RF-Sputtered Zinc Telluride Thin Films for Electronic and Optoelectronic Applications"* , AIP Advances **12**, 115013 (2022), doi: 10.1063/5.0116999, **IF: 1.697**, **AIS: 0.336**	0.336	DA	7	6.000	0.056
6	A. M. Panaitescu, I. Antohe, C. Locovei, S. Iftimie, Ș. Antohe, L. Piraux, M. P. Suchea and **V. A. Antohe***, *"Effect of the Cadmium Telluride Deposition Method on the Covering Degree of Electrodes Based on Copper Nanowire Arrays"* , Applied Sciences **12(15)**, 7808 (2022), doi: 10.3390/app12157808, **IF: 2.838**, **AIS: 0.409**	0.409	DA	8	6.500	0.063
7	B. G. Șolomonea, L. I. Jinga, **V. A. Antohe**, G. Socol and I. Antohe, *"Cadmium Ions' Trace-Level Detection Using a Portable Fiber Optic – Surface Plasmon Resonance Sensor"* , Biosensors **12(8)**, 573 (2022), doi: 10.3390/bios12080573, **IF: 5.743**, **AIS: 0.877**	0.877	NU	5	5.000	0.175
8	M. E. Bărbînță-Pătrașcu, M. Bacalum, **V. A. Antohe**, S. Iftimie and Ș. Antohe, *"Bio-Nanoplatinum Phyto-Developed from Grape Berries and Nettle Leaves: Potential Adjuvants in Osteosarcoma Treatment"* , Romanian Reports in Physics **74**, 601 (2022), **IF: 2.085**, **AIS: 0.202**	0.202	NU	5	5.000	0.040
9	I. Antohe, L. I. Jinga, **V. A. Antohe** and G. Socol, *"Sensitive pH Monitoring Using a Polyaniline-Functionalized Fiber Optic – Surface Plasmon Resonance Detector"* , Sensors **21(12)**, 4218 (2021), doi: 10.3390/s21124218, **IF: 3.847**, **AIS: 0.586**	0.586	NU	4	4.000	0.147
10	I. Antohe, I. Iordache, **V. A. Antohe** and G. Socol, *"A Polyaniline/Platinum-Coated Fiber Optic – Surface Plasmon Resonance Sensor for Picomolar Detection of 4-Nitrophenol"* , Scientific Reports **11**, 10086 (2021), doi: 10.1038/s41598-021-89396-w, **IF: 4.997**, **AIS: 1.208**	1.208	NU	4	4.000	0.302
11	J. O. Omale, P. Van Velthem, **V. A. Antohe**, A. Vlad and L. Piraux, *"Effects of Electrolyte Additives and Nanowire Diameter on the Electrochemical Performance of Lithium-ion Battery Anodes Based on Interconnected Nickel-Tin Nanowire Networks"* , Energy Technology **9**, 2100062 (2021), doi: 10.1002/ente.202100062, **IF: 4.149**, **AIS: 0.663**	0.663	NU	5	5.000	0.133
12	E. Tanasa, F. I. Maxim, T. Erniyazov, M. T. Iacob, T. Skála, L. C. Tanase, C. Ianăși, C. Moisescu, C. Miron, I. Ardelean, **V. A. Antohe**, E. Fagadar-Cosma and S. N. Stamatin, *"Beyond Nitrogen in the Oxygen Reduction Reaction on Nitrogen-Doped Carbons: A NEXAFS Investigation"* , Nanomaterials **11(5)**, 1198 (2021), doi: 10.3390/nano11051198, **IF: 5.719**, **AIS: 0.738**	0.738	NU	13	9.000	0.082

13	C. Locovei, A. L. Chiriac, A. Miron, S. Iftimie, **V. A. Antohe**, A. Sârbu and A. Dumitru, *„Synthesis of titanium nitride via hybrid nanocomposites based on mesoporous TiO $_2$/acrylonitrile"* , Scientific Reports **11(1)**, 5055 (2021), doi: 10.1038/s41598-021-84484-3, **IF: 4.997**, **AIS: 1.208**	1.208	NU	7	6.000	0.201
14	L. Ion, S. Iftimie, A. Radu. **V. A. Antohe**, O. Toma, S. Antohe, *"Physical Properties of RF-Sputtered ZnSe Thin Films for Photovoltaic Applications: Influence of Film Thickness"* , Proceedings of the Romanian Academy, Series A **22(1)**, 27-36 (2021), **IF: 0.734**, **AIS: 0.140**	0.140	NU	6	5.500	0.025
15	C. Locovei, N. Filipoiu, A. Kuncser, A. E. Stanciu, Ș. Antohe, C. F. Florica, A. Costas, I. Enculescu, L. Piraux, V. Kuncser and **V. A. Antohe***, *"Unidirectional Magnetic Anisotropy in Dense Vertically-Standing Arrays of Passivated Nickel Nanotubes"* , Nanomaterials **10(12)**, 2444 (2020), doi: 10.3390/nano10122444, **IF: 5.076**, **AIS: 0.756**	0.756	DA	11	8.000	0.095
16	A. Radu, C. Locovei, **V. A. Antohe**, M. Socol, D. Coman, M. Manica, A. Dumitru, L. Dan, C. Radu, A. M. Răduță, L. Ion, S. Iftimie and Ș. Antohe, *"Effects of Annealing on the Physical Properties of ITO Thin Films Grown by Radio Frequency Magnetron Sputtering"* , Digest Journal of Nanomaterials and Biostructures **15(3)**, 679-687 (2020), **IF: 0.963**, **AIS: 0.131**	0.131	NU	13	9.000	0.015
17	A. I. Radu (Călugăr), **V. A. Antohe***, S. Iftimie, A. Radu, M. Filipescu, L. Ion, M. Dinescu and Ș. Antohe, *"On the physical and photo-electrical properties of organic photovoltaic cells based on 1,10-Phenanthroline and 5,10,15,20-Tetra(4-pyridyl)-21H,23H-porphine non-fullerene thin films"* , Appl. Surf. Sci. **531**, 147332 (2020), doi: 10.1016/j.apsusc.2020.147332, **IF: 6.707**, **AIS: 0.873**	0.873	DA	8	6.500	0.134
18	M. Colț, C. Radu, O. Toma, C. Miron and **V. A. Antohe***, *"Integrating Smartphone and Hands-on Activities to Real Experiments in Physics"* , Romanian Reports in Physics **72**, 905 (2020), **IF: 1.785**, **AIS: 0.268**	0.268	DA	5	5.000	0.054
19	R. Cai, **V. A. Antohe**, B. Nysten, L. Piraux and A. M. Jonas, *"Thermally-Induced Flexo-Type Effects in Nanopatterned Multiferroic Layers"* , Advanced Functional Materials **30**, 1910371 (2020), doi: 10.1002/adfm.201910371, **IF: 18.808**, **AIS: 3.829**	3.829	NU	5	5.000	0.766
20	N. Vasile, S. Iftimie, T. Acsente, C. Locovei, A. I. Călugăr, A. Radu, L. Ion, **V. A. Antohe***, D. Manica, O. Toma, G. Dinescu and Ș. Antohe, *"Physical properties of indium zinc oxide and aluminium zinc oxide thin films deposited by radio-frequency magnetron sputtering"* , Materials Research Express **6(12)**, 6447 (2019), doi: 10.1088/2053-1591/ab688d, **IF: 1.929**, **AIS: 0.228**	0.228	DA	12	8.500	0.027
21	C. Locovei, D. Coman, A. Radu, L. Ion, **V. A. Antohe**, N. Vasile, A. Dumitru, S. Iftimie and Ș. Antohe, *"Physical properties of Cu and Dy co-doped ZnO thin films prepared by radio frequency magnetron sputtering for hybrid organic/inorganic electronic devices"* , Thin Solid Films **685**, 379-384 (2019), doi: 10.1016/j.tsf.2019.06.027, **IF: 2.030**, **AIS: 0.329**	0.329	NU	9	7.000	0.047
22	J. O. Omale, R. Rupp, P. Van Velthem, V. Van Kerckhoven, **V. A. Antohe**, A. Vlad and L. Piraux, *"Three-dimensional microsupercapacitors based on interdigitated patterns of interconnected nanowire networks"* , Energy Storage Materials **21**, 77-84 (2019), doi: 10.1016/j.ensm.2019.05.025, **IF: 16.280**, **AIS: 3.409**	3.409	NU	7	6.000	0.568
23	D. P. Lozano, S. Couet, C. Petermann, G. Hamoir, J. K. Jochum, T. Picot, E. Menéndez, K. Houben, V. Joly, **V. A. Antohe**, M. Y. Hu, B. M. Leu, A. Alatas, A. H. Said, S. Roelants, B. Partoens, M. V. Milošević, F. M. Peeters, L. Piraux, J. Van de Vondel, A. Vantomme, K. Temst and M. J. Van Bael, *"Experimental observation of electron-phonon coupling enhancement in Sn nanowires caused by phonon confinement effects"* , Phys. Rev. B **99**, 064512 (2019), doi: 10.1103/PhysRevB.99.064512, **IF: 3.575**, **AIS: 1.018**	1.018	NU	23	12.667	0.080

24	B. Biță, S. Iftimie, A. Radu, **V. A. Antohe**, D. Coman, C. Miron, D. Staicu, L. Dan, L. Ion and Ș. Antohe, *"On the electrical and Photo-Electrical Behaviour of the Photovoltaic Cells Based on Polymeric and Chlorophyll-a Thin Films"* , Proceedings of the Romanian Academy, Series A **20(1)**, 51-57 (2019), **IF: 1.294**, **AIS: 0.181**	0.181	NU	10	7.500	0.024
25	O. Toma, L. Ion, S. Iftimie, **V. A. Antohe**, A. Radu, A. M. Răduță, D. Manica and Ș. Antohe, *"Physical properties of rf-sputtered ZnS and ZnSe thin films used for double-heterojunction ZnS/ZnSe/CdTe photovoltaic structures"* , Appl. Surf. Sci. **478**, 831-839 (2019), doi: 10.1016/j.apsusc.2019.02.032, **IF: 6.182**, **AIS: 0.772**	0.772	NU	8	6.500	0.119
26	S. Iftimie, F. F. Băiașu, A. Radu, **V. A. Antohe**, S. Antohe and L. Ion, *"On the Structural, Optical and Morphological Properties of ZnSe $_{1-x}O_x$ Thin Films Grown by RF-Magnetron Sputtering"* , Chalcogenide Letters **15(7)**, 389-394 (2018), **IF: 0.977**, **AIS: 0.136**	0.136	NU	6	5.500	0.025
27	S. Basov, C. Elissade, Q. Simon, M. Maglione, C. Castro-Chavarria, T. H. de Beauvoir, S. Payan, K. Temst, V. Lazenka, **V. A. Antohe**, P. M. Pereira de Sá, D. Sallagoity and L. Piraux, *"Simple synthesis and characterization of vertically aligned $Ba_{0.7}Sr_{0.3}TiO_3$-$CoFe_2O_4$ multiferroic nanocomposites from $CoFe_2$ nanopillar arrays"* , Nanotechnology **28(47)**, 5707 (2017), doi: 10.1088/1361-6528/aa9016, **IF: 3.404**, **AIS: 0.791**	0.791	NU	13	9.000	0.088
28	**V. A. Antohe***, E. Nysten, J. M. Martínez-Huerta, P. M. Pereira de Sá and L. Piraux, *"Annealing effects on the magnetic properties of highly-packed vertically-aligned nickel nanotubes"* , RSC Advances **7**, 18609-18616 (2017), doi: 10.1039/C7RA01276D, **IF: 2.936**, **AIS: 0.564**	0.564	DA	5	5.000	0.113
29	R. Cai, **V. A. Antohe**, Z. Hu, B. Nysten, L. Piraux and A. M. Jonas, *"Multiferroic Nanopatterned Hybrid Material with Room-Temperature Magnetic Switching of the Electric Polarization"* , Advanced Materials **29(6)**, 1604604 (2017), doi: 10.1002/adma.201604604, **IF: 21.950**, **AIS: 5.469**	5.469	NU	6	5.500	0.994
30	D. Sallagoity, C. Elissalde, J. Majimel, M. Maglione, **V. A. Antohe**, F. Abreu Araujo, P. M. Pereira de Sá, S. Basov and L. Piraux, *"Synthesis of dense arrays of multiferroic $CoFe_2O_4$–$PbZr_{0.52}Ti_{0.48}O_3$ core/shell nanocables"* , RSC Advances **6**, 106716-106722 (2016), doi: 10.1039/C6RA19548b, **IF: 3.108**, **AIS: 0.590**	0.590	NU	9	7.000	0.084
31	L. Piraux, **V. A. Antohe***, E. Ferain and D. Lahem, *"Self-supported three-dimensionally interconnected polypyrrole nanotubes and nanowires for highly sensitive chemiresistive gas sensing"* , RSC Advances **6**, 21808-21813 (2016), doi: 10.1039/C6RA03439J, **IF: 3.108**, **AIS: 0.590**	0.590	DA	4	4.000	0.148
32	A. Vlad, **V. A. Antohe**, J. M. Martínez-Huerta, E. Ferain, J. F. Gohy and L. Piraux, *"Three-Dimensional Interconnected Nicore-NiOshell Nanowire Networks for Lithium Microbattery Architectures"* , J. Mater. Chem. A **4**, 1603-1607 (2016), doi: 10.1039/c5ta10639g, **IF: 8.867**, **AIS: 1.781**	1.781	NU	6	5.500	0.324
33	D. Tamvakos, S. Lepadatu, **V. A. Antohe***, A. Tamvakos, P. M. Weaver, L. Piraux, M. G. Cain and D. Pullini, *"Piezoelectric Properties of Template-Free Electrochemically Grown ZnO Nanorod Arrays"* , Appl. Surf. Sci. **356**, 1214-1220 (2015), doi: 10.1016/j.apsusc.2015.08.187, **IF: 3.150**, **AIS: 0.574**	0.574	DA	8	6.500	0.088
34	D. Sallagoity, C. Elissalde, J. Majimel, R. Berthelot, U. Chan Chung, N. Penin, M. Maglione, **V. A. Antohe**, G. Hamoir, F. Abreu Araujo and L. Piraux, *"Synthesis and magnetic properties of Ni-$BaTiO_3$ nanocable arrays within ordered anodic alumina templates"* , J. Mater. Chem. C **3(1)**, 107-111 (2015), doi: 10.1039/c4tc02261k, **IF: 5.066**, **AIS: 1.119**	1.119	NU	11	8.000	0.140
35	T. Hauet, L. Piraux, S. K. Srivastava, **V. A. Antohe**, D. Lacour, M. Hehn, F. Montaigne, J. Schwenk, M. A. Marioni, H. J. Hug, O. Hovorka, A. Berger, S. Mangin and F. Abreu Araujo, *"Reversal mechanism, switching field distribution, and dipolar frustrations in Co/Pt bit pattern media based on auto-assembled anodic alumina hexagonal nanobump arrays"* , Phys. Rev. B **89**, 174421 (2014), doi: 10.1103/PhysRevB.89.174421, **IF: 3.736**, **AIS: 1.331**	1.331	NU	14	9.500	0.140

36	**V. A. Antohe***, M. Mickan, F. Henry, R. Delamare, L. Gence and L. Piraux, *"Self-seeded electrochemical growth of ZnO nanorods using textured glass/Al-doped ZnO substrates"* , Appl. Surf. Sci. **313**, 607-614 (2014), doi: 10.1016/j.apsusc.2014.06.031, **IF: 2.711**, **AIS: 0.549**	0.549	DA	6	5.500	0.100
37	F. Abreu Araujo, L. Piraux, **V. A. Antohe**, V. Cros and L. Gence, *"Single spin-torque vortex oscillator using combined bottom-up approach and e-beam lithography"* , Appl. Phys. Lett. **102**, 222402 (2013), doi: 10.1063/1.4808451, **IF: 3.515**, **AIS: 1.217**	1.217	NU	5	5.000	0.243
38	L. Piraux, **V. A. Antohe**, F. Abreu Araujo, S. K. Srivastava, M. Hehn, D. Lacour, S. Mangin and T. Hauet, *"Periodic arrays of magnetic nanostructures by depositing Co/Pt multilayers on the barrier layer of ordered anodic alumina templates"* , Appl. Phys. Lett. **101**, 013110 (2012), doi: 10.1063/1.4731640, **IF: 3.794**, **AIS: 1.355**	1.355	NU	8	6.500	0.208
39	**V. A. Antohe***, L. Gence, S. K. Srivastava and L. Piraux, *"Template-free electrodeposition of highly oriented and aspect-ratio controlled ZnO hexagonal columnar arrays"* , Nanotechnology **23(25)**, 5602 (2012), doi: 10.1088/0957-4484/23/25/255602, **IF: 3.842**, **AIS: 1.205**	1.205	DA	4	4.000	0.301
40	**V. A. Antohe***, A. Radu, S. Matéfi-Tempfli and L. Piraux, *"Circuit Modeling on Polyaniline Functionalized Nanowire-Templated Micro-Interdigital Capacitors for pH Sensing"* , IEEE Trans. Nano 10(6), 1314-1320 (2011), doi: 10.1109/TNANO.2011.2136384, **IF: 2.292**, **AIS: 0.872**	0.872	DA	4	4.000	0.218
41	C. Florica, I. Arghir, L. Ion, I. Enculescu, **V. A. Antohe**, A. Radu, M. Radu, G. Chisulescu, N. Dina and Ș. Antohe, *"Production and Characterization of CdTe Wire Arrays for Hybrid Inorganic/Organic Photovoltaic Cells"* , Digest Journal of Nanomaterials and Biostructures **6(1)**, 21-27 (2011), **IF: 1.200**, **AIS: 0.230**	0.230	NU	10	7.500	0.031
42	A. Radu, S. Iftimie, V. Ghenescu, C. Beșleagă, **V. A. Antohe**, G. Bratina, L. Ion, S. Craciun, M. Gîrtan and Ș. Antohe, *"The Influence of LiF Layer and ZnO Nanoparticles Addings on the Performances of Flexible Photovoltaic Cells Based on Polymer Blends"* , Digest Journal of Nanomaterials and Biostructures **6(3)**, 1141-1148 (2011), **IF: 1.200**, **AIS: 0.230**	0.230	NU	10	7.500	0.031
43	L. Ion, I. Enculescu, S. Iftimie, V. Ghenescu, C. Tazlaoanu, C. Beșleagă, T. L. Mitran, **V. A. Antohe**, M. M. Gugiu and Ș. Antohe, *"Effects of Proton Irradiation on the Spectral Performance of Photovoltaic Cells Based on CdS/CdTe Thin Films"* , Chalcogenide Letters **7(8)**, 521-530 (2010), **IF: 0.836**, **AIS: 0.174**	0.174	NU	10	7.500	0.023
44	S. Iftimie, A. Majkic, C. Beșleagă, **V. A. Antohe**, A. Radu, M. Radu, I. Arghir, C. Florica, L. Ion, G. Bratina and Ș. Antohe, *"Study of electrical and optical properties of ITO/PEDOT/P3HT:PCBM(1:1)/LiF/Al photovoltaic structures"* , J. Optoelectron. Adv. Mat. **12(10)**, 2171-2175 (2010), **IF: 0.412**, **AIS: 0.113**	0.113	NU	11	8.000	0.014
45	L. Ion, V. Ghenescu, S. Iftimie, **V. A. Antohe**, A. Radu, M. Gugiu, G. Velisa, O. Porumb and Ș. Antohe, *"Temperature dependent resistivity and Hall effect in proton irradiated CdS thin films"* , Optoelectron Adv. Mat. – Rapid Comm. **4(8)**, 1114-1117 (2010), **IF: 0.477**, **AIS: 0.078**	0.078	NU	9	7.000	0.011
46	**V. A. Antohe***, A. Radu, M. Matéfi-Tempfli, A. Attout, S. Yunus, P. Bertrand, C. A. Dutu, A. Vlad, S. Melinte, S. Matéfi-Tempfli and Luc Piraux, *"Nanowire-templated microelectrodes for high-sensitivity pH detection"* , Appl. Phys. Lett. **94(7)**, 3118 (2009), doi: 10.1063/1.3089227, **IF: 3.554**, **AIS: 1.348**	1.348	DA	11	8.000	0.169
47	A. Vlad, M. Matéfi-Tempfli, **V. A. Antohe**, S. Faniel, N. Reckinger, B. Olbrechts, A. Crahay, V. Bayot, L. Piraux, S. Melinte and S. Matéfi-Tempfli, *"Nanowire-Decorated Microscale Metallic Electrodes"* , Small **4(5)**, 557-560 (2008), doi: 10.1002/smll.200700724, **IF: 6.525**, **AIS: 2.580**	2.580	NU	11	8.000	0.323
48	L. Piraux, K. Renards, R. Guillemet, S. Matéfi-Tempfli, M. Matéfi-Tempfli, **V. A. Antohe**, S. Fusil, K. Bouzehouane and V. Cros, *"Template-grown NiFe/Cu/NiFe nanowires for spin transfer devices"* , Nano Letters **7(9)**, 2563-2567 (2007), doi: 10.1021/nl070263s, **IF: 9.627**, **AIS: 4.160**	4.160	NU	9	7.000	0.594

49	S. Antohe, L. Ion and **V. A. Antohe**, *"The Structural and Electrical Properties of Thin Polycristalline CdSe and CdS Layers Before and After Electron Irradiation"* , Rom. Journ. Phys. Supplement I **48**, 511-519 (2003), **IF: N/A**, **AIS: 0.100**	0.100	NU	3	3.000	0.033
50	L. Ion. R. Schiopu, **V. A. Antohe**, V. Ruxandra and S. Antohe, *"Electrical properties of non-irradiated and electron irradiated thin polycrystalline CdSe layers"* , Rom. Journ. Phys. **53(3-8)**, 451-459 (2001), **IF: N/A**, **AIS: 0.100**	0.100	NU	5	5.000	0.020
Punctaj total: $I = \Sigma_i(AIS_i/n_i^{ef})$						**8.114**
Punctaj total: $P = \Sigma_i(AIS_i)$		**9.684**				

*Scorul de influență (AIS) din anul publicării (sau din cel mai apropiat an disponibil) conform **Clarivate - Journal Citation Reports (JCR)**

C. Recunoașterea impactului activității (excluzând auto-citările)

Nr. Crt.	Referințe bibliografice (*Autor principal sau unic autor) / Articole care citează	Citări (c_i)	Nr. de autori (n_i)	Nr. efectiv de autori (n_i^{ef})	Punctaj (c_i/n_i^{ef})
1	R. Ivan, C. Popescu, **V. A. Antohe**, S. Antohe, C. Negrilă, C. Logofătu, A. Pérez del Pino and E. György, *"Iron oxide/hydroxide – nitrogen doped graphene-like visible-light active photocatalytic layers for antibiotics removal from wastewater"* , Scientific Reports **13**, 2740 (2023), doi: 10.1038/s41598-023-29927-9, **IF: 4.997**, **AIS: 1.208**	0	8	6.500	**0.000**
2	A. M. Panaitescu and **V. A. Antohe***, *"Study of optical and electrical properties of RF-sputtered ZnSe/ZnTe heterojunctions for sensing applications"* , Coatings **13(1)**, 208 (2023), doi: 10.3390/coatings13010208, **IF: 3.236**, **AIS: 0.410**	0	2	2.000	**0.000**
3	A. I. Radu, **V. A. Antohe***, S. Iftimie, I. Antohe, M. Filipescu, A. Radu, D. C oman, M. L. Stîngescu, M. Dinescu and Ș. Antohe, *"Study of a new composite based on SnO2 nanoparticles - P3HT:PC71BM co-polymer blend, used as potential absorber in bulk heterojunction photovoltaic cells"* , Materials Today Communications **33**, 104757 (2022), doi: 10.1016/j.mtcomm.2022.104757, **IF: 3.662**, **AIS: 0.500**	1	10	7.500	**0.133**
Abdullah, SJ; Lee, SJ; Park, JB; Kim, YS; Shin, HS; Kotta, A; Siddiqui, QT; Lee, YS; Seo, HK, Linear-Shaped Low-Bandgap Asymmetric Conjugated Donor Molecule for Fabrication of Bulk Heterojunction Small-Molecule Organic Solar Cells, MOLECULES 28(4), 1538 (2023), http://dx.doi.org/10.3390/molecules28041538					
4	A. M. Panaitescu, I. Antohe, A. M. Răduță, S. Iftimie, Ș. Antohe, C. N. Mihăilescu and **V. A. Antohe***, *"Morphological, Optical and Electrical Properties of RF-Sputtered Zinc Telluride Thin Films for Electronic and Optoelectronic Applications"* , AIP Advances **12**, 115013 (2022), doi: 10.1063/5.0116999, **IF: 1.697**, **AIS: 0.336**	0	7	6.000	**0.000**
5	**V. A. Antohe***, *"Advances in Nanomaterials for Photovoltaic Applications"* , Nanomaterials **12(20)**, 3702 (2022), doi: 10.3390/nano12203702, **IF: 5.719**, **AIS: 0.738**	1	1	1.000	**1.000**
Homa, M; Palac, A; Zoladek, M; Figaj, R, Small-Scale Hybrid and Polygeneration Renewable Energy Systems: Energy Generation and Storage Technologies, Applications, and Analysis Methodology, ENERGIES 15(23), 9152 (2022), http://dx.doi.org/10.3390/en15239152					
6	B. G. Șolomonea, L. I. Jinga, **V. A. Antohe**, G. Socol and I. Antohe, *"Cadmium Ions' Trace-Level Detection Using a Portable Fiber Optic – Surface Plasmon Resonance Sensor"* , Biosensors **12(8)**, 573 (2022), doi: 10.3390/bios12080573, **IF: 5.743**, **AIS: 0.877**	2	5	5.000	**0.400**
Toderascu, LI; Sima, LE; Orobeti, S; Florian, PE; Icriverzi, M; Maraloiu, VA; Comanescu, C; Iacob, N; Kuncser, V; Antohe, I; Popescu-Pelin, G; Stanciu, G; Ionita, P; Mihailescu, CN; Socol, G, Synthesis and Anti-Melanoma Activity of L-Cysteine-Coated Iron Oxide Nanoparticles Loaded with Doxorubicin, NANOMATERIALS 13(4), 621 (2023) http://dx.doi.org/10.3390/nano13040621					
Al-Qasmi, N; Al-Gethami, W; Alhashmialameer, D; Ismail, SH; Sadek, AH, Evaluation of Green-Synthesized Cuprospinel Nanoparticles as a Nanosensor for Detection of Low-Concentration Cd(II) Ion in the Aqueous Solutions by the Quartz Crystal Microbalance Method, MATERIALS 15, 6240 (2022) http://dx.doi.org/10.3390/ma15186240					
7	A. M. Panaitescu, I. Antohe, C. Locovei, S. Iftimie, Ș. Antohe, L. Piraux, M. P. Suchea and **V. A. Antohe***, *"Effect of the Cadmium Telluride Deposition Method on the Covering Degree of Electrodes Based on Copper Nanowire Arrays"* , Applied Sciences **12(15)**, 7808 (2022), doi: 10.3390/app12157808, **IF: 2.838**, **AIS: 0.409**	0	8	6.500	**0.000**
8	C. Radu, O. Toma, Ș. Antohe, **V. A. Antohe*** and C. Miron, *"Physics Classes Enhanced by Smartphone Experiments"* , Romanian Reports in Physics 74, 908 (2022), **IF: 2.085**, **AIS: 0.202**	0	5	5.000	**0.000**
9	M. E. Bărbînță-Pătrașcu, M. Bacalum, **V. A. Antohe**, S. Iftimie and Ș. Antohe, *"Bio-Nanoplatinum Phyto-Developed from Grape Berries and Nettle Leaves: Potential Adjuvants in Osteosarcoma Treatment"* , Romanian Reports in Physics **74**, 601 (2022), **IF: 2.085**, **AIS: 0.202**	1	5	5.000	**0.200**
Barbinta-Patrascu, ME; Chilom, C; Nichita, C; Zgura, I; Iftimie, S; Antohe, S, BIOPHYSICAL INSIGHTS ON JACK BEAN UREASE IN THE PRESENCE OF SILVER CHLORIDE PHYTONANOPARTICLES GENERATED FROM MENTHA PIPERITA L. LEAVES, ROMANIAN REPORTS IN PHYSICS 74(4), 605 (2022)					

10	O. Toma, **V. A. Antohe***, A. M. Panaitescu, S. Iftimie, A. M. Răduță, A. Radu, L. Ion and Ș. Antohe, *"Effect of RF Power on the Physical Properties of Sputtered ZnSe Nanostructured Thin Films for Photovoltaic Applications"* , Nanomaterials **11(11)**, 2841 (2021), doi: 10.3390/nano11112841, **IF: 5.719**, **AIS: 0.738**	6	8	6.500	**0.923**
Khalfi, R; Talantikite-Touati, D; Tounsi, A; Souici, A; Merzeg, FA; Azizi, A, Effect of manganese doping on the structural, morphological and optical properties of zinc selenide thin films prepared by chemical bath deposition method, APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING 129(3), 231 (2023) http://dx.doi.org/10.1007/s00339-023-06515-2					
Qasrawi, AF; Sulaiman, SK, Effects of SeO2 epilayer on the structural, morphological, optical and dielectric properties of nanocrystalline ZnSe thin films, PHYSICA B-CONDENSED MATTER 646, 414309 (2022) http://dx.doi.org/10.1016/j.physb.2022.414309					
Perisa, I; Tkalcevic, M; Isakovic, S; Basioli, L; Ivanda, M; Bernstorff, S; Micetic, M, Ge/Al and Ge/Si3N4/Al Core/Shell Quantum Dot Lattices in Alumina: Boosting the Spectral Response by Tensile Strain, MATERIALS 15, 6211 (2022) http://dx.doi.org/10.3390/ma15186211					
Sonklin, T; Munthala, D; Leuasoongnoen, P; Janphuang, P; Pojprapai, S, Effect of substrate-tilting angle-dependent grain growth and columnar growth in ZnO film deposited using radio frequency (RF) magnetron sputtering method, JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS 33, 16977 (2022) http://dx.doi.org/10.1007/s10854-022-08576-0					
Hussain, I; Sahoo, S; Lamiel, C; Nguyen, TT; Ahmed, M; Xi, C; Iqbal, S; Ali, A; Abbas, N; Javed, MS; Zhang, KL, Research progress and future aspects: Metal selenides as effective electrodes, ENERGY STORAGE MATERIALS 47, 13 (2022) http://dx.doi.org/10.1016/j.ensm.2022.01.055					
Setera, B; Su, CH; Arnold, B; Choa, FS; Kelly, L; Sood, R; Singh, NB, Comparative Study of Bulk and Nanoengineered Doped ZnSe, CRYSTALS 12, 71 (2022) http://dx.doi.org/10.3390/cryst12010071					
11	D. Manica, **V. A. Antohe**, A. Moldovan, R. Pascu, S. Iftimie, L. Ion, M. P. Suchea and S. Antohe, *"Thickness Effect on Some Physical Properties of RF Sputtered ZnTe Thin Films for Potential Photovoltaic Applications"* , Nanomaterials **11(9)**, 2286 (2021), doi: 10.3390/nano11092286, **IF: 5.719**, **AIS: 0.738**	3	8	6.500	**0.462**
Baltakesmez, A; Guzeldir, B, Undoped p-type ZnTe thin film and thin film transistor channel performance, APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING 129(2), 134 (2023) https://doi.org/10.1007/s00339-023-06430-6					
Suthar, D; Chuhadiya, S; Sharma, R; Himanshu; Dhaka, MS, An overview on the role of ZnTe as an efficient interface in CdTe thin film solar cells: a review, MATERIALS ADVANCES 3(22), 8081 (2022) https://doi.org/10.1039/D2MA00817C					
Setera, B; Su, CH; Arnold, B; Choa, FS; Kelly, L; Sood, R; Singh, NB, Comparative Study of Bulk and Nanoengineered Doped ZnSe, CRYSTALS 12, 71 (2022) http://dx.doi.org/10.3390/cryst12010071					
12	I. Antohe, L. I. Jinga, **V. A. Antohe** and G. Socol, *"Sensitive pH Monitoring Using a Polyaniline-Functionalized Fiber Optic – Surface Plasmon Resonance Detector"* , Sensors **21(12)**, 4218 (2021), doi: 10.3390/s21124218, **IF: 3.847**, **AIS: 0.586**	3	4	4.000	**0.750**
Toderascu, LI; Sima, LE; Orobeti, S; Florian, PE; Icriverzi, M; Maraloiu, VA; Comanescu, C; Iacob, N; Kuncser, V; Antohe, I; Popescu-Pelin, G; Stanciu, G; Ionita, P; Mihailescu, CN; Socol, G, Synthesis and Anti-Melanoma Activity of L-Cysteine-Coated Iron Oxide Nanoparticles Loaded with Doxorubicin, NANOMATERIALS 13(4), 621 (2023) http://dx.doi.org/10.3390/nano13040621					
Long, G; Wan, L; Xia, BN; Zhao, C; Niu, KP; Hou, JG; Lyu, DJ; Li, LT; Zhu, FD; Wang, N, Rapid-Response and Wide-Range pH Sensors Enabled by Self-Assembled Functional PAni/PAA Layer on No-Core Fiber, MATERIALS 15, 7449 (2022) http://dx.doi.org/10.3390/ma15217449					
Antohe, I, COBALT IONS DETECTION USING AN EVANESCENT WAVE OPTICAL FIBER SENSOR, ROMANIAN REPORTS IN PHYSICS 74, 505 (2022)					
13	J. O. Omale, P. Van Velthem, **V. A. Antohe**, A. Vlad and L. Piraux, *"Effects of Electrolyte Additives and Nanowire Diameter on the Electrochemical Performance of Lithium-ion Battery Anodes Based on Interconnected Nickel-Tin Nanowire Networks"* , Energy Technology **9**, 2100062 (2021), doi: 10.1002/ente.202100062, **IF: 4.149**, **AIS: 0.663**	1	5	5.000	**0.200**
Shinde, S; Bhushan, P; Ghosh, S, Al-induced electroless deposition and characterization of Ni-Sn film anode for Li-ion battery, JOURNAL OF SOLID STATE ELECTROCHEMISTRY 26(12), 2817-2828 (2022) http://dx.doi.org/10.1007/s10008-022-05286-9					
14	I. Antohe, I. Iordache, **V. A. Antohe** and G. Socol, *"A Polyaniline/Platinum-Coated Fiber Optic – Surface Plasmon Resonance Sensor for Picomolar Detection of 4-Nitrophenol"* , Scientific Reports **11**, 10086 (2021), doi: 10.1038/s41598-021-89396-w, **IF: 4.997**, **AIS: 1.208**	15	4	4.000	**3.750**
Melwin, G; Senthilnathan, K, Modelling a simple arc shaped gold coated PCF-based SPR sensor, JOURNAL OF OPTICS-INDIA (2023 http://dx.doi.org/10.1007/s12596-023-01110-3					
Toderascu, LI; Sima, LE; Orobeti, S; Florian, PE; Icriverzi, M; Maraloiu, VA; Comanescu, C; Iacob, N; Kuncser, V; Antohe, I; Popescu-Pelin, G; Stanciu, G; Ionita, P; Mihailescu, CN; Socol, G, Synthesis and Anti-Melanoma Activity of L-Cysteine-Coated Iron Oxide Nanoparticles Loaded with Doxorubicin, NANOMATERIALS 13(4), 621 (2023) http://dx.doi.org/10.3390/nano13040621					
De Sousa, JFD; Columbus, S; Hammouche, J; Ramachandran, K; Daoudi, K; Gaidi, M, Engineered micro-pyramids functionalized with silver nanoarrays as excellent cost-effective SERS chemosensors for multi-hazardous pollutants detection, Applied Surface Science 613, 156092 (2023), http://dx.doi.org/10.1016/j.apsusc.2022.156092					

Song, JL; Lin, XH; Ee, LY; Li, SFY; Huang, MH, A Review on Electrospinning as Versatile Supports for Diverse Nanofibers and Their Applications in Environmental Sensing, Advanced Fiber Materials (2022) http://dx.doi.org/10.1007/s42765-022-00237-5					
Faisal, M; Alam, MM; Ahmed, J; Asiri, AM; Jalalah, M; Alruwais, RS; Rahman, MM; Harraz, FA, Sensitive Electrochemical Detection of 4-Nitrophenol with PEDOT:PSS Modified Pt NPs-Embedded PPy-CB@ZnO Nanocomposites, Biosensors 12(11), 990 (2022) http://dx.doi.org/10.3390/bios12110990					
Nurdin, M; Arham, Z; Irna, WO; Maulidiyah, M; Kurniawan, K; Salim, LA; Irwan, I; Umar, AA, Enhanced-charge transfer over molecularly imprinted polyaniline modified graphene/TiO2 nanocomposite electrode for highly selective detection of fipronil insecticide, MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING 151, 106994 (2022) http://dx.doi.org/10.1016/j.mssp.2022.106994					
Wei, Y; Shi, C; Liu, CL; Liu, CB; Jiang, TC; Wang, R; Hu, L; Zhang, YH, Fiber SPR two-dimensional micro displacement sensor based on the coaxial double waveguide with a conical structure, OPTICS EXPRESS 30, 462141 (2022) http://dx.doi.org/10.1364/OE.462141					
Chen, CH; Chiang, CY, Determination of the Highly Sensitive Carboxyl-Graphene Oxide-Based Planar Optical Waveguide Localized Surface Plasmon Resonance Biosensor, NANOMATERIALS 12, 2146 (2022) http://dx.doi.org/10.3390/nano12132146					
Rajagopalan, M; Oh, IK; Palanivel, J; Sabarathinam, S; Cifuentes-Faura, J, Fabrication and characterizations of electro-mechanical actuators based on fullerene-reinforced biocompatible polymer, SENSORS AND ACTUATORS A-PHYSICAL 339, 113510 (2022) http://dx.doi.org/10.1016/j.sna.2022.113510					
Lim, SG; Jo, S; Lee, JH; Seok, O, Review Paper Review for Device Compositions of Localized Surface Plasmon Resonance Sensors, APPLIED SCIENCE AND CONVERGENCE TECHNOLOGY 31, 35 (2022) http://dx.doi.org/10.5757/ASCT.2022.31.2.35					
Eremina, OE; Kapitanova, OO; Ferree, MV; Lemesh, IA; Eremin, DB; Goodilin, EA; Veselova, IA, Ultrasensitive and multiplex SERS determination of anthropogenic phenols in oil fuel and environmental samples, ENVIRONMENTAL SCIENCE-NANO 9, 964 (2022) http://dx.doi.org/10.1039/d1en01017d					
Antohe, I, Cobalt Ions Detection Using an Evanescent Wave Optical Fiber Ssensor, Romanian Reports in Physics 74, 505 (2022)					
Sonawane, H; Singh, AP; Gupta, A; Tiwari, MK; Gaur, SS, Polymer based surface plasmon resonance sensors: Theoretical study of sensing characteristics, MATERIALS TODAY-PROCEEDINGS 67, 726 (2022) http://dx.doi.org/10.1016/j.matpr.2022.07.040					
Liu, XW; Liu, YY; Zhang, X; Miao, XD, 3D N-doped graphene/bismuth composite as an efficient catalyst for reduction of 4-nitrophenol, COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS 636, 128098 (2022) http://dx.doi.org/10.1016/j.colsurfa.2021.128098					
Ly, NH; Son, SJ; Kim, HH; Joo, SW, Recent Developments in Plasmonic Sensors of Phenol and Its Derivatives, APPLIED SCIENCES-BASEL 11, 10519 (2021) http://dx.doi.org/10.3390/app112210519					
15	E. Tanasa, F. I. Maxim, T. Erniyazov, M. T. Iacob, T. Skála, L. C. Tanase, C. Ianăși, C. Moisescu, C. Miron, I. Ardelean, **V. A. Antohe**, E. Fagadar-Cosma and S. N. Stamatin, *"Beyond Nitrogen in the Oxygen Reduction Reaction on Nitrogen-Doped Carbons: A NEXAFS Investigation"* , Nanomaterials **11(5)**, 1198 (2021), doi: 10.3390/nano11051198, **IF: 5.719**, **AIS: 0.738**	2	13	9.000	**0.222**
Shi, YR; Wang, KL; Lou, YH; Liu, GL; Chen, CH; Chen, J; Zhang, L; Wang, ZK, Light-Triggered Sustainable Defect-Passivation for Stable Perovskite Photovoltaics, ADVANCED MATERIALS (2022) 10.1002/adma.202205338					
Wang, SN; Ma, MH; Liang, QJ; Wu, XY; Abbas, K; Zhu, JF; Xu, Q; Tedesco, AC; Bi, H, Single-Atom Manganese Anchored on Carbon Dots for Promoting Mitochondrial Targeting and Photodynamic Effect in Cancer Treatment, ACS APPLIED NANO MATERIALS 5, 6679 (2022) http://dx.doi.org/10.1021/acsanm.2c00716					
16	C. Locovei, A. L. Chiriac, A. Miron, S. Iftimie, **V. A. Antohe**, A. Sârbu and A. Dumitru, *„Synthesis of titanium nitride via hybrid nanocomposites based on mesoporous TiO $_2$ /acrylonitrile"* , Scientific Reports **11(1)**, 5055 (2021), doi: 10.1038/s41598-021-84484-3, **IF: 4.997**, **AIS: 1.208**	0	13	9.000	**0.000**
17	L. Ion, S. Iftimie, A. Radu, **V. A. Antohe**, O. Toma, S. Antohe, *"Physical Properties of RF-Sputtered ZnSe Thin Films for Photovoltaic Applications: Influence of Film Thickness"* , Proceedings of the Romanian Academy, Series A **22(1)**, 27-36 (2021), **IF: 0.734**, **AIS: 0.140**	3	6	5.500	**0.545**
Nesheva, D; Grujic-Brojcin, M; Scepanovic, MJ; Levi, Z; Dzhurkov, V; Hristova-Vasileva, T; Vasic, B, The effects of deposition manner and rate on structure and morphology of porous ZnSe nanolayers: Modification of Phonon Confinement Model for resonant Raman conditions, JOURNAL OF ALLOYS AND COMPOUNDS 927, 166942 (2022) http://dx.doi.org/10.1016/j.jallcom.2022.166942					
Qasrawi, AF; Sulaiman, SK, Effects of SeO2 epilayer on the structural, morphological, optical and dielectric properties of nanocrystalline ZnSe thin films, PHYSICA B-CONDENSED MATTER 646, 414309 (2022) http://dx.doi.org/10.1016/j.physb.2022.414309					
Gheorghiu, CC; Ionescu, A; Zai, MI; Iancu, D; Burducea, I; Velisa, G; Vasile, BS; Ianculescu, AC; Bobeica, M; Popa, D; Leca, V, Nanoscale Control of Structure and Composition for Nanocrystalline Fe Thin Films Grown by Oblique Angle RF Sputtering, MATERIALS 15, 6134 (2022) http://dx.doi.org/10.3390/ma15176134					
18	C. Locovei, N. Filipoiu, A. Kuncser, A. E. Stanciu, Ș. Antohe, C. F. Florica, A. Costas, I. Enculescu, L. Piraux, V. Kuncser and **V. A. Antohe***, *"Unidirectional Magnetic Anisotropy in Dense Vertically-Standing Arrays of Passivated Nickel Nanotubes"* , Nanomaterials **10(12)**, 2444 (2020), doi: 10.3390/nano10122444, **IF: 5.076**, **AIS: 0.756**	1	13	9.000	**0.111**
Kuncser, V, Multifunctional Magnetic Nanocomposites: Innovative Processing and Applications, Nanomaterials 13(1), 206 (2023) http://dx.doi.org/10.3390/nano13010206					

19	A. I. Radu (Călugăr), **V. A. Antohe***, S. Iftimie, A. Radu, M. Filipescu, L. Ion, M. Dinescu and Ş. Antohe, *"On the physical and photo-electrical properties of organic photovoltaic cells based on 1,10-Phenanthroline and 5,10,15,20-Tetra(4-pyridyl)-21H,23H-porphine non-fullerene thin films"* , Appl. Surf. Sci. **531**, 147332 (2020), doi: 10.1016/j.apsusc.2020.147332, **IF: 6.707**, **AIS: 0.873**	8	8	6.500	**1.231**
Abdullah, SJ; Lee, SJ; Park, JB; Kim, YS; Shin, HS; Kotta, A; Siddiqui, QT; Lee, YS; Seo, HK, Linear-Shaped Low-Bandgap Asymmetric Conjugated Donor Molecule for Fabrication of Bulk Heterojunction Small-Molecule Organic Solar Cells, MOLECULES 28(4), 1538 (2023), http://dx.doi.org/10.3390/molecules28041538					
Socol, M; Preda, N; Breazu, C; Petre, G; Stanculescu, A; Stavarache, I; Popescu-Pelin, G; Stochioiu, A; Socol, G; Iftimie, S; Thanner, C; Rasoga, O, Effects of Solvent Additive and Micro-Patterned Substrate on the Properties of Thin Films Based on P3HT:PC70BM Blends Deposited by MAPLE, Materials 16(1), 144 (2023) http://dx.doi.org/10.3390/ma16010144					
Sampaio, PGV; Gonzalez, MOA, A review on organic photovoltaic cell, INTERNATIONAL JOURNAL OF ENERGY RESEARCH 46, 17813 (2022) http://dx.doi.org/10.1002/er.8456					
Biswas, S; Lee, YJ; You, YJ; Chung, JJ; Shim, JW; Kim, H, Polystyrene-sulfonate-doped polypyrrole: Low-cost hole transport material for developing highly efficient organic solar cells, INTERNATIONAL JOURNAL OF ENERGY RESEARCH 46, 15396 (2022) http://dx.doi.org/10.1002/er.8241					
Liu, GH; Li, M; Li, LL; Bian, RN; Dong, WK, Sequential multiple-target chemosensor: Co2+, Cu2+, PPi, and HS- discrimination by a bis(half-salamo)-type probe, PHOSPHORUS SULFUR AND SILICON AND THE RELATED ELEMENTS 197, 124 (2022) http://dx.doi.org/10.1080/10426507.2021.2012674					
Socol, M; Preda, N; Socol, G, Organic Thin Films Deposited by Matrix-Assisted Pulsed Laser Evaporation (MAPLE) for Photovoltaic Cell Applications: A Review, COATINGS 11, 1368 (2021) http://dx.doi.org/10.3390/coatings11111368					
Zheng, Z; He, EF; Lu, Y; Yin, YL; Pang, XC; Guo, FY; Gao, SY; Zhao, LC; Zhang, Y, Benzo[1,2-b:4,5-b']difuran Polymer-Based Non-Fullerene Organic Solar Cells: The Roles of Non-Fullerene Acceptors and Molybdenum Oxide on Their Ambient Stabilities and Processabilities, ACS APPLIED MATERIALS & INTERFACES 13, 15448 (2021) http://dx.doi.org/10.1021/acsami.1c00327					
Singh, SK; Tripathi, P; Sulania, I; Kumar, VVS; Kumar, P, Tuning the optical and electrical properties of magnetron-sputtered Cu-ZnO thin films using low energy Ar ion irradiation, OPTICAL MATERIALS 114, 110985 (2021) http://dx.doi.org/10.1016/j.optmat.2021.110985					
20	A. Radu, C. Locovei, **V. A. Antohe**, M. Socol, D. Coman, M. Manica, A. Dumitru, L. Dan, C. Radu, A. M. Răduță, L. Ion, S. Iftimie and Ș. Antohe, *"Effects of Annealing on the Physical Properties of ITO Thin Films Grown by Radio Frequency Magnetron Sputtering"* , Digest Journal of Nanomaterials and Biostructures **15(3)**, 679-687 (2020), **IF: 0.963**, **AIS: 0.131**	0	13	9.000	**0.000**
21	R. Cai, **V. A. Antohe**, B. Nysten, L. Piraux and A. M. Jonas, *"Thermally-Induced Flexo-Type Effects in Nanopatterned Multiferroic Layers"* , Advanced Functional Materials **30**, 1910371 (2020), doi: 10.1002/adfm.201910371, **IF: 18.808**, **AIS: 3.829**	9	5	5.000	**1.800**
Makushko, P; Kosub, T; Pylypovskyi, OV; Hedrich, N; Li, J; Pashkin, A; Avdoshenko, S; Hubner, R; Ganss, F; Wolf, D; Lubk, A; Liedke, MO; Butterling, M; Wagner, A; Wagner, K; Shields, BJ; Lehmann, P; Veremchuk, I; Fassbender, J; Maletinsky, P; Makarov, D, Flexomagnetism and vertically graded Neel temperature of antiferromagnetic Cr2O3 thin films, Nature Communications 13(1), 6745 (2022) http://dx.doi.org/10.1038/s41467-022-34233-5					
Casillas-Popova, SN; Arenas-Alatorre, JA; Thangarasu, P; Tavizon, G; Bernad-Bernad, MJ; Gracia-Mora, J, Influence of core-shell CoFe2O4-BaTiO3 and CoFe2O4-Bi4Ti3O12 on the magnetic properties, COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS 654, 130113 (2022) http://dx.doi.org/10.1016/j.colsurfa.2022.130113					
Momeni-Khabisi, H; Tahani, M, Coupled thermal stability analysis of piezomagnetic nano-sensors and nano-actuators considering the flexomagnetic effect, EUROPEAN JOURNAL OF MECHANICS A-SOLIDS 97, 104773 (2023) http://dx.doi.org/10.1016/j.euromechsol.2022.104773					
Handrea-Dragan, IM; Botiz, I; Tatar, AS; Boca, S, Patterning at the micro/nano-scale: Polymeric scaffolds for medical diagnostic and cell-surface interaction applications, COLLOIDS AND SURFACES B-BIOINTERFACES 218, 112730 (2022) http://dx.doi.org/10.1016/j.colsurfb.2022.112730					
Yin, QX; Chen, GQ; Ma, YR; Cao, J; Huang, YX; Dong, ZB; Zhang, BG; Leng, XS, Microstructure evolution and magnetic shielding effect of permalloy deposition on molybdenum substrate by electron beam freeform fabrication, ADDITIVE MANUFACTURING 56, 102936 (2022) http://dx.doi.org/10.1016/j.addma.2022.102936					
Momeni-Khabisi, H; Tahani, M, A size-dependent study on buckling and post-buckling behavior of imperfect piezo-flexomagnetic nano-plate strips, ADVANCES IN NANO RESEARCH 12, 427 (2022) http://dx.doi.org/10.12989/anr.2022.12.4.427					
Nicolenco, A; de h-Ora, M; Yun, C; MacManus-Driscoll, J; Sort, J, Strain-gradient effects in nanoscale-engineered magnetoelectric materials, APL MATERIALS 9, 20903 (2021) http://dx.doi.org/10.1063/5.0037421					
Handrea-Dragan, M; Botiz, I, Multifunctional Structured Platforms: From Patterning of Polymer-Based Films to Their Subsequent Filling with Various Nanomaterials, POLYMERS 13, 445 (2021) http://dx.doi.org/10.3390/polym13030445					
Gao, RL; Xue, YZ; Wang, ZH; Chen, G; Fu, CL; Deng, XL; Lei, X; Cai, W, Effect of particle size on magnetodielectric and magnetoelectric coupling effect of CoFe2O4@BaTiO3 composite fluids, JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS 31, 9026 (2020) http://dx.doi.org/10.1007/s10854-020-03436-1					
22	M. Colț, C. Radu, O. Toma, C. Miron and **V. A. Antohe***, *"Integrating Smartphone and Hands-on Activities to Real Experiments in Physics"* , Romanian Reports in Physics **72**, 905 (2020), **IF: 1.785**, **AIS: 0.268**	1	5	5.000	**0.200**
Colt, M; Dragomir, F; Barna, V, STUDY OF ELECTROCARDIOGRAM AND PERIPHERAL OXYGEN SATURATION VALUES - AN INTERDISCIPLINARY APPROACH AT HIGH SCHOOL LEVEL, ROMANIAN REPORTS IN PHYSICS 74, 905 (2022)					

23	N. Vasile, S. Iftimie, T. Acsente, C. Locovei, A. I. Călugăr, A. Radu, L. Ion, **V. A. Antohe***, D. Manica, O. Toma, G. Dinescu and Ș. Antohe, *"Physical properties of indium zinc oxide and aluminium zinc oxide thin films deposited by radio-frequency magnetron sputtering"* , Materials Research Express **6(12)**, 6447 (2019), doi: 10.1088/2053-1591/ab688d, **IF: 1.929**, **AIS: 0.228**	7	12	8.500	**0.824**
Mian, MS; Nakano, T; Okimura, K, Improvement of the uniformity of structural and electrical properties of transparent conductive Al-doped ZnO thin films by inductively coupled plasma-assisted radio frequency magnetron sputtering, THIN SOLID FILMS 769, 139752 (2023 http://dx.doi.org/10.1016/j.tsf.2023.139752					
Zhang, JF; Lu, LF; Zhang, J; Li, S; Hua, XM; Zhu, XR; Ding, YA; Lin, YY; Zhang, ST; Li, DD, Monolithic perovskite/silicon tandem solar cells with optimized front zinc doped indium oxides and industrial textured silicon heterojunction solar cells, J. Alloys Compounds 932, 167640 (2023) http://dx.doi.org/10.1016/j.jallcom.2022.167640					
Singh, P; Singh, S; Kaur, J; Yogi, S; Vidhani, B, Preparation and Investigation of Transparent Conducting Aluminium-doped Zinc Oxide Films Prepared by Sol-gel Method for Sensor Application, INDIAN JOURNAL OF PURE & APPLIED PHYSICS 60, 529 (2022)					
Santos, EJC; Queiroz, JCA; Queiroz, MGO; Liborio, MS; Almeida, EO; Bessa, KL; Souza, RRM; Feitor, MC; Costa, THC, Analysis Structural Modification and Optical-Electrical Properties of Al-Doped ZnO Oxide Films Deposited by Magnetron Sputtering, BRAZILIAN JOURNAL OF PHYSICS 51, 1677 (2021) http://dx.doi.org/10.1007/s13538-021-00997-2					
Singh, SK; Tripathi, P; Sulania, I; Kumar, VVS; Kumar, P, Tuning the optical and electrical properties of magnetron-sputtered Cu-ZnO thin films using low energy Ar ion irradiation, OPTICAL MATERIALS 114, 110985 (2021) http://dx.doi.org/10.1016/j.optmat.2021.110985					
Ullah, S; Branquinho, R; Mateus, T; Martins, R; Fortunato, E; Rasheed, T; Sher, F, Solution Combustion Synthesis of Transparent Conducting Thin Films for Sustainable Photovoltaic Applications, SUSTAINABILITY 12, 10423 (2020) http://dx.doi.org/10.3390/su122410423					
Kamareddine, F; Al Boukhari, J; Awad, R, Optoelectronic investigations of needle-shaped Zn1-xSnxO nanoparticles synthesized by coprecipitation method, PHYSICA SCRIPTA 95, 105804 (2020) http://dx.doi.org/10.1088/1402-4896/abb4f7					
24	J. O. Omale, R. Rupp, P. Van Velthem, V. Van Kerckhoven, **V. A. Antohe**, A. Vlad and L. Piraux, *"Three-dimensional microsupercapacitors based on interdigitated patterns of interconnected nanowire networks"* , Energy Storage Materials **21**, 77-84 (2019), doi: 10.1016/j.ensm.2019.05.025, **IF: 16.280**, **AIS: 3.409**	16	7	6.000	**2.667**
Behboudikhiavi, S; Omale, JO; Babu, B; Piraux, L; Vlad, A, Electrodeposition of Li-Ion Cathode Materials: The Fascinating Alternative for Li-Ion Micro-Batteries Fabrication, JOURNAL OF THE ELECTROCHEMICAL SOCIETY 170(2) 020509 (2023) http://dx.doi.org/10.1149/1945-7111/acb6b9					
Pastre, A; Boe, A; Rolland, N; Bernard, R, All-Solid-State Interdigitated Micro-Supercapacitors Based on Porous Gold Electrodes, Sensors 23(2), 619 (2023) http://dx.doi.org/10.3390/s23020619					
Chu, X; Yang, WQ; Li, H, Recent advances in polyaniline-based micro-supercapacitors, Materials Horizons (2022) http://dx.doi.org/10.1039/d2mh01345b					
Yeo, KR; Eo, J; Kim, MJ; Kim, SK, Shape Control of Metal Nanostructures by Electrodeposition and their Applications in Electrocatalysis, J. Electrochem. Soc. 169(11), 112502 (2022) http://dx.doi.org/10.1149/1945-7111/ac9e21					
Zhao, YL; Liu, HZ; Yan, Y; Chen, TW; Yu, HH; Ejeta, LO; Zhang, GH; Duan, HG, Flexible Transparent Electrochemical Energy Conversion and Storage: From Electrode Structures to Integrated Applications, ENERGY & ENVIRONMENTAL MATERIALS 45, 741 (2022) http://dx.doi.org/10.1002/eem2.12303					
Li, YQ; Xiao, SS; Qiu, TY; Lang, XY; Tan, HQ; Wang, YH; Li, YG, Recent advances on energy storage microdevices: From materials to configurations, ENERGY STORAGE MATERIALS 45, 741 (2022) http://dx.doi.org/10.1016/j.ensm.2021.12.026					
Xu, JX; Ma, YJ; Xuan, CJ; Ma, CL; Wang, J, Three-Dimensional Electrodes for Oxygen Electrocatalysis, CHEMELECTROCHEM 9, e202101522 (2022) http://dx.doi.org/10.1002/celc.202101522					
Sha, M; Zhao, HP; Lei, Y, Updated Insights into 3D Architecture Electrodes for Micropower Sources, ADVANCED MATERIALS 33, 2103304 (2021) http://dx.doi.org/10.1002/adma.202103304					
Cardenas, JP; Encinas, A; Villegas, RR; Medina, JD, Control of the asymmetric growth of nanowire arrays with gradient profiles, RSC ADVANCES 11, 25892 (2021) http://dx.doi.org/10.1039/d1ra04198c					
Kiymaz, D; Kiymaz, A; Dincalp, H; Zafer, C, Enhanced performance of ultra-thin polyaniline supercapacitor via aniline blue-WS SAMs with rich nucleation site, JOURNAL OF PHYSICS D-APPLIED PHYSICS 54, 315501 (2021) http://dx.doi.org/10.1088/1361-6463/abff7c					
Zhang, XF; Xiao, ZY; Liu, XF; Mei, P; Yang, YK, Redox-active polymers as organic electrode materials for sustainable supercapacitors, RENEWABLE & SUSTAINABLE ENERGY REVIEWS 147, 111247 (2021) http://dx.doi.org/10.1016/j.rser.2021.111247					
Marchal, N; Gomes, TDS; Araujo, FA; Piraux, L, Giant Magnetoresistance and Magneto-Thermopower in 3D Interconnected NixFe1-x/Cu Multilayered Nanowire Networks, NANOMATERIALS 11, 1133 (2021) http://dx.doi.org/10.3390/nano11051133					
Varasteanu, P; Romanitan, C; Bratosin, I; Djourelov, N; Gavrila, R; Radoi, A; Kusko, M, Exploring the impact of MoS2 on the performance of the planar solid micro-supercapacitor, MATERIALS CHEMISTRY AND PHYSICS 265, 124490 (2021) http://dx.doi.org/10.1016/j.matchemphys.2021.124490					
Gomes, TDSC; Marchal, N; Araujo, FA; Galvan, YV; Medina, JD; Piraux, L, Magneto-Transport in Flexible 3D Networks Made of Interconnected Magnetic Nanowires and Nanotubes, NANOMATERIALS 11, 221 (2021) http://dx.doi.org/10.3390/nano11010221					
Yang, W; Zhu, YX; Jia, ZF; He, L; Xu, L; Meng, JS; Tahir, M; Zhou, ZX; Wang, XW; Mai, LQ, Interwoven Nanowire Based On-Chip Asymmetric Microsupercapacitor with High Integrability, Areal Energy, and Power Density, ADVANCED ENERGY MATERIALS 10, 2001873 (2020) http://dx.doi.org/10.1002/aenm.202001873					
Li, K; Wang, XH; Wang, XF; Liang, MY; Nicolosi, V; Xu, YX; Gogotsi, Y, All-pseudocapacitive asymmetric MXene-carbon-conducting polymer supercapacitors, NANO ENERGY 75, 104971 (2020) http://dx.doi.org/10.1016/j.nanoen.2020.104971					

25	C. Locovei, D. Coman, A. Radu, L. Ion, **V. A. Antohe**, N. Vasile, A. Dumitru, S. Iftimie and Ș. Antohe, *"Physical properties of Cu and Dy co-doped ZnO thin films prepared by radio frequency magnetron sputtering for hybrid organic/inorganic electronic devices"* , Thin Solid Films **685**, 379-384 (2019), doi: 10.1016/j.tsf.2019.06.027, **IF: 2.030**, **AIS: 0.329**	10	9	7.000	**1.429**
Zhao, YF; Ding, W; Xiao, YB; Yang, P, Manipulating the optoelectronic characteristic of AZO films by magnetron sputtering power, VACUUM 210, 111849 (2023) http://dx.doi.org/10.1016/j.vacuum.2023.111849					
Qi, L; Wang, K; Qi, YJ; Yu, H; Jin, XS; Li, X; Qi, Y, Facile synthesis of ZnO films with anisotropic preferred orientations: An effective strategy for controllable surface and optical property, J. Alloys and Compounds 935(2), 168125 (2023) http://dx.doi.org/10.1016/j.jallcom.2022.168125					
Li, MH; Liang, KT; Wu, ZH; Lin, SH; Chiu, YS; Lee, CH; Kuo, MY; Lin, CF; Chen, H; Wuu, DS; Han, J, Synergetic Effects of ZnS Core Shell and Bisindolo Quinoxaline-Tips (BIQ-TIPs) Spreading on ZnO Nanorod-Based Light/Gas Dual Sensors, IEEE SENSORS JOURNAL 22(24), 23821 (2022) http://dx.doi.org/10.1109/JSEN.2022.3216827					
Dubey, KC; Zaidi, A; Awasthi, RR, Environmentally Benign Structural, Topographic, and Sensing Properties of Pure and Al-Doped ZnO Thin Films, ACS OMEGA 7, 28946 (2022) http://dx.doi.org/10.1021/acsomega.2c02440					
Kumar, R; Mishra, SK, Enhancement in the luminescence of green-emission from emissive surface defects of Dy3+ doped ZnO nanoluminophores: A simple, mass-scale productive approach for optoelectronic devices, APPLIED SURFACE SCIENCE ADVANCES 9, 100256 (2022) http://dx.doi.org/10.1016/j.apsadv.2022.100256					
Locovei, C; Radu, C; Kuncser, A; Iacob, N; Schinteie, G; Stanciu, A; Iftimie, S; Kuncser, V, Relationship between the Formation of Magnetic Clusters and Hexagonal Phase of Gold Matrix in AuxFe1-x Nanophase Thin Films, NANOMATERIALS 12, 1176 (2022) http://dx.doi.org/10.3390/nano12071176					
Cuate-Gomez, DH; Garzon-Roman, A; Sosa-Sanchez, JL; Zuniga-Islas, C; Dominguez, MA, Polycrystalline Erbium Phthalocyanine Thin Films Deposited on Silicon and Porous Silicon by Ultrasonic Spray Pyrolysis: Optical, Morphological, and Electrical Characterizations, JOURNAL OF ELECTRONIC MATERIALS 50, 6951 (2021) http://dx.doi.org/10.1007/s11664-021-09264-1					
Rasmidi, R; Duinong, M; Chee, FP, Radiation damage effects on zinc oxide (ZnO) based semiconductor devices- a review, RADIATION PHYSICS AND CHEMISTRY 184, 109455 (2021) http://dx.doi.org/10.1016/j.radphyschem.2021.109455					
Singh, SK; Tripathi, P; Sulania, I; Kumar, VVS; Kumar, P, Tuning the optical and electrical properties of magnetron-sputtered Cu-ZnO thin films using low energy Ar ion irradiation, OPTICAL MATERIALS 114, 110985 (2021) http://dx.doi.org/10.1016/j.optmat.2021.110985					
Srinatha, N; Raghu, P; Mahesh, HM; Madhu, A; Hussain, S; Dam, S; Kumar, MRS; Angadi, B, Study on the effect of Ni co-doping on structural, micro-structural and optical properties of transparent AZO thin films, OPTICAL MATERIALS 113, 110872 (2021) http://dx.doi.org/10.1016/j.optmat.2021.110872					
26	O. Toma, L. Ion, S. Iftimie, **V. A. Antohe**, A. Radu, A. M. Răduță, D. Manica and Ș. Antohe, *"Physical properties of rf-sputtered ZnS and ZnSe thin films used for double-heterojunction ZnS/ZnSe/CdTe photovoltaic structures"* , Appl. Surf. Sci. **478**, 831-839 (2019), doi: 10.1016/j.apsusc.2019.02.032, **IF: 6.182**, **AIS: 0.772**	34	8	6.500	**5.231**
Priya, K; Rao, GK; Sanjeev, G, The fabrication and characterization of thermal evaporated n-ZnS/p-Si heterojunction and ZnS-Au Schottky photodiodes, OPTICS AND LASER TECHNOLOGY 157, 108657 (2023) http://dx.doi.org/10.1016/j.optlastec.2022.108657					
Khan, AUR; Ramzan, M; Iqbal, MF; Hafeez, M; Fadhali, MM; Somaily, HH; Javid, M; Mukhtar, MW; Saleem, MF, Effect of the Source-to-Substrate Distance on Structural, Optoelectronic, and Thermoelectric Properties of Zinc Sulfide Thin Films, Materials 15(22), 8047 (2022) http://dx.doi.org/10.3390/ma15228047					
Qasrawi, AF; Sulaiman, SK, Effects of SeO2 epilayer on the structural, morphological, optical and dielectric properties of nanocrystalline ZnSe thin films, PHYSICA B-CONDENSED MATTER 646, 414309 (2022) http://dx.doi.org/10.1016/j.physb.2022.414309					
Nesheva, D; Grujic-Brojcin, M; Scepanovic, MJ; Levi, Z; Dzhurkov, V; Hristova-Vasileva, T; Vasic, B, The effects of deposition manner and rate on structure and morphology of porous ZnSe nanolayers: Modification of Phonon Confinement Model for resonant Raman conditions, JOURNAL OF ALLOYS AND COMPOUNDS 927, 166942 (2022) http://dx.doi.org/10.1016/j.jallcom.2022.166942					
Gheorghiu, CC; Ionescu, A; Zai, MI; Iancu, D; Burducea, I; Velisa, G; Vasile, BS; Ianculescu, AC; Bobeica, M; Popa, D; Leca, V, Nanoscale Control of Structure and Composition for Nanocrystalline Fe Thin Films Grown by Oblique Angle RF Sputtering, MATERIALS 15, 6134 (2022) http://dx.doi.org/10.3390/ma15176134					
Nayak, RR; Gupta, T; Chauhan, RP, Plant metabolites assisted green synthesis of ZnSe: structural, optical and transport properties, CHEMICAL PAPERS 76, 6607 (2022) http://dx.doi.org/10.1007/s11696-022-02350-6					
Moger, SN; Sathe, V; Mahesha, MG, Characterization of ZnSxSe1-x films grown by thermal co-evaporation technique for photodetector applications, SURFACES AND INTERFACES 30, 101852 (2022) http://dx.doi.org/10.1016/j.surfin.2022.101852					
Locovei, C; Radu, C; Kuncser, A; Iacob, N; Schinteie, G; Stanciu, A; Iftimie, S; Kuncser, V, Relationship between the Formation of Magnetic Clusters and Hexagonal Phase of Gold Matrix in AuxFe1-x Nanophase Thin Films, NANOMATERIALS 12, 1176 (2022) http://dx.doi.org/10.3390/nano12071176					
Krishna, VSG; Mahesha, MG, Influence of the substrate temperature on the structural, optical, and morphological properties of (101) oriented ZnSe thin films for window applications in solar cells, MATERIALS TODAY-PROCEEDINGS 58, 623 (2022) http://dx.doi.org/10.1016/j.matpr.2021.12.407					
Setera, B; Su, CH; Arnold, B; Choa, FS; Kelly, L; Sood, R; Singh, NB, Comparative Study of Bulk and Nanoengineered Doped ZnSe, CRYSTALS 12, 71 (2022) http://dx.doi.org/10.3390/cryst12010071					

Chasta, G; Himanshu; Patel, SL; Chander, S; Kannan, MD; Dhaka, MS, Analysis of different vacuum annealing levels for ZnSe thin films as potential buffer layer for solar cells, JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS 33, 139 (2022) http://dx.doi.org/10.1007/s10854-021-07280-9
Simandan, ID; Sava, F; Buruiana, AT; Burducea, I; Becherescu, N; Mihai, C; Velea, A; Galca, AC, The Effect of the Deposition Method on the Structural and Optical Properties of ZnS Thin Films, COATINGS 11, 1064 (2021) http://dx.doi.org/10.3390/coatings11091064
Kumar, D; Krishnan, NS; Ramasesha, SK, Spectral Response Enhancement of the CdS/CdTe Solar Nano-Structured Cell Using ZnO Window Layer, IEEE TRANSACTIONS ON ELECTRON DEVICES 68, 4504 (2021) http://dx.doi.org/10.1109/TED.2021.3097014
Halati, MS; Benchenane, H; Bouslama, M; Mokadem, A; Ouerdane, A; Bedjaoui, A; Bouhemadou, A; Guezzoul, M; Kharoubi, B; Abdelkrim, M; Bensassi, KB; Baizid, A, Electronic and optical properties of ZnSe by theoretical simulation TB-mBJ (Tran-Blaha modified Becke Johnson) associated to analysis techniques XPS (X-Ray Photoelectron Spectroscopy); REELS (Reflective Electron Energy Loss Spectroscopy) and PLS (Photoluminescence Spectroscopy), APPLIED SURFACE SCIENCE 566, 150690 (2021) http://dx.doi.org/10.1016/j.apsusc.2021.150690
Xin, M; Liao, LM; Han, F, Optical properties of ZnS: Ce nanocrystals prepared by hydrothermal method, JOURNAL OF LUMINESCENCE 238, 118074 (2021) http://dx.doi.org/10.1016/j.jlumin.2021.118074
Yadav, BK; Singh, P; Yadav, CP; Pandey, DK, Synthesis and characterization of ZnSe1-xTex thin films, PHASE TRANSITIONS 94, 326 (2021) http://dx.doi.org/10.1080/01411594.2021.1932884
Doroody, C; Rahman, KS; Rosly, HN; Harif, MN; Isah, M; Kar, YB; Tiong, SK; Amin, N, A comparative study of CdS thin films grown on ultra-thin glass substrates by RF magnetron sputtering and chemical bath deposition, MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING 133, 105935 (2021) http://dx.doi.org/10.1016/j.mssp.2021.105935
Benyahia, K; Djeffal, F; Ferhati, H; Bendjerad, A; Benhaya, A; Saidi, A, Self-powered photodetector with improved and broadband multispectral photoresponsivity based on ZnO-ZnS composite, JOURNAL OF ALLOYS AND COMPOUNDS 859, 158242 (2021) http://dx.doi.org/10.1016/j.jallcom.2020.158242
Yuan, YF; Liu, CM; Li, YP; Li, J, Influence of Annealing Temperature Modulation on the Structural and Optical Properties of ZnSe Thin Films, CRYSTAL RESEARCH AND TECHNOLOGY 56, 2000177 (2021) http://dx.doi.org/10.1002/crat.202000177
Benyahia, K; Djeffal, F; Ferhati, H; Benhaya, A; Bendjerad, A; Djaballah, Y; Martin, N, Microstructured ZnO-ZnS composite for earth-abundant photovoltaics: Elaboration, surface analysis and enhanced optical performances, SOLAR ENERGY 218, 312 (2021) http://dx.doi.org/10.1016/j.solener.2021.02.057
Singh, SK; Tripathi, P; Sulania, I; Kumar, VVS; Kumar, P, Tuning the optical and electrical properties of magnetron-sputtered Cu-ZnO thin films using low energy Ar ion irradiation, OPTICAL MATERIALS 114, 110985 (2021) http://dx.doi.org/10.1016/j.optmat.2021.110985
Bashar, MS; Matin, R; Sultana, M; Siddika, A; Gafur, MA; Farid, A, Growth Optimization and Study on Structural, Morphological, Optical and Electrical Properties of As-Deposited Zinc Sulfide Thin Films Fabricated by Radio-Frequency Magnetron Sputtering Technique at Room Temperature, JOURNAL OF NANO RESEARCH 70, 27 (2021) http://dx.doi.org/10.4028/www.scientific.net/JNanoR.70.27
Laiadi, W; Meftah, A; Meftah, A; Sengouga, N, Numerical simulation of the electron traps effect created by neutron irradiation on p(+) - n - n(+) GaAs solar cell performance, INDIAN JOURNAL OF PHYSICS 95, 1871 (2021) http://dx.doi.org/10.1007/s12648-020-01864-7
Ke, JL; Chen, SZ; Song, LG; Zhang, P; Cao, XZ; Wang, BY; Zhang, RG, Effect of film thickness on structural and optical properties of Zns: Cu films prepared by vulcanization, SUPERLATTICES AND MICROSTRUCTURES 146, 106671 (2020) http://dx.doi.org/10.1016/j.spmi.2020.106671
Ou, K; Bai, LY; Huang, ML; Yi, LX; Duan, XX; Wang, SW, Effect of Preparation Parameters on Deep-Blue Light-Emitting Diodes Based on Nanostructured ZnSe/ZnS Multilayer Films, ACS OMEGA 5, 24567 (2020) http://dx.doi.org/10.1021/acsomega.0c03071
Gullu, HH; Isik, M; Gasanly, NM; Parlak, M, Influence of temperature on optical properties of electron-beam-evaporated ZnSe thin film, PHYSICA SCRIPTA 95, 75804 (2020) http://dx.doi.org/10.1088/1402-4896/ab8eef
Shakoury, R; Arman, A; Talu, S; Ghosh, K; Rezaee, S; Luna, C; Mwema, F; Sherafat, K; Salehi, M; Mardani, M, Optical properties, microstructure, and multifractal analyses of ZnS thin films obtained by RF magnetron sputtering, JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS 31, 5262 (2020) http://dx.doi.org/10.1007/s10854-020-03086-3
Sakthivel, P; Devadoss, I; Vijayasundaram, SV, INCORPORATION OF LITHIUM ION ON Zn:CdS QUANTUM DOTS: STRUCTURAL AND OPTICAL INVESTIGATIONS, ROMANIAN JOURNAL OF PHYSICS 65, 607 (2020)
Hasaneen, MF; Alrowaili, ZA; Mohamed, WS, Structure and optical properties of polycrystalline ZnSe thin films: validity of Swanepol's approach for calculating the optical parameters, MATERIALS RESEARCH EXPRESS 7, 16422 (2020) http://dx.doi.org/10.1088/2053-1591/ab6779
Chen, SZ; Yu, RS; Song, LG; Zhang, RG; Cao, XZ; Wang, BY; Zhang, P, Effect of low temperature vulcanization time on the structure and optical properties of ZnS thin films, APPLIED SURFACE SCIENCE 498, 143876 (2019) http://dx.doi.org/10.1016/j.apsusc.2019.143876
Yadav, BK; Singh, P; Pandey, DK, Synthesis and Non-Destructive Characterization of Zinc Selenide Thin Films, ZEITSCHRIFT FUR NATURFORSCHUNG SECTION A-A JOURNAL OF PHYSICAL SCIENCES 74, 993 (2019) http://dx.doi.org/10.1515/zna-2019-0112
Geng, JG; Ma, JL; Ma, SQ; Li, F; Zhang, L; Ning, XF; Lohar, GM, Energy band investigation and role of Fe content in Zn1-xFexSe based nanomaterials for photoelectrochemical cell application, CERAMICS INTERNATIONAL 45, 14457 (2019) http://dx.doi.org/10.1016/j.ceramint.2019.04.167
Wojtyla, S; Baran, T, Photocatalytic H-2 production over RuO2@ZnS and RuO2@CuS nanostructures, INTERNATIONAL JOURNAL OF HYDROGEN ENERGY 44, 14624 (2019) http://dx.doi.org/10.1016/j.ijhydene.2019.04.132
Li, YJ; Muhammad, S; Zhu, X; Wu, C, Transparent Nanostructured ZnS films by Low Temperature Sputtering for Flexbile Optoelectronic Devices, OPTOELECTRONIC DEVICES AND INTEGRATION VIII 11184, UNSP 1118417 (2019) http://dx.doi.org/10.1117/12.2538632

27	D. P. Lozano, S. Couet, C. Petermann, G. Hamoir, J. K. Jochum, T. Picot, E. Menéndez, K. Houben, V. Joly, **V. A. Antohe**, M. Y. Hu, B. M. Leu, A. Alatas, A. H. Said, S. Roelants, B. Partoens, M. V. Milošević, F. M. Peeters, L. Piraux, J. Van de Vondel, A. Vantomme, K. Temst and M. J. Van Bael, *"Experimental observation of electron-phonon coupling enhancement in Sn nanowires caused by phonon confinement effects"* , Phys. Rev. B **99**, 064512 (2019), doi: 10.1103/PhysRevB.99.064512, **IF: 3.575**, **AIS: 1.018**	8	23	12.667	**0.632**
Ding, YF; Li, BX; Yao, JS; Song, HH; Wei, L; Lu, Y; Huang, JW; Yuan, HT; Lu, H; Chen, YF, Multiple superconducting transitions in alpha-Sn/beta-Sn mixed films grown by molecular beam epitaxy, JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A 41(2), 023406 (2023) http://dx.doi.org/10.1116/6.0002273					
Rambadey, OV; Kumar, A; Kumar, K; Mishra, V; Sagdeo, PR, Methodology to Probe Disorder Contribution in Raman Linewidth via Optical Absorption Spectroscopy in Orthoferrite EuFeO3, JOURNAL OF PHYSICAL CHEMISTRY C 126, 13946 (2022) http://dx.doi.org/10.1021/acs.jpcc.2c03347					
Stankov, S; Merkel, DG; Kalt, J; Gottlicher, J; Lazewski, J; Sternik, M; Jochym, PT; Piekarz, P; Baumbach, T; Chumakov, AI; Ruffer, R, Phonon confinement and interface lattice dynamics of ultrathin high-k rare earth sesquioxide films: the case of Eu2O3 on YSZ(001), NANOSCALE ADVANCES 4, 19 (2021) http://dx.doi.org/10.1039/d1na00728a					
Bo, T; Wang, YA; Liang, YZ; Liu, XB; Ren, J; Weng, HM; Liu, M; Meng, S, High-Throughput Screening of Element-Doped Carbon Nanotubes Toward an Optimal One-Dimensional Superconductor, JOURNAL OF PHYSICAL CHEMISTRY LETTERS 12, 6667 (2021) http://dx.doi.org/10.1021/acs.jpclett.1c02000					
Tanwar, M; Pathak, DK; Rani, C; Kandpal, S; Ghosh, T; Mondal, P; Chaudhary, A; Kumar, R, Inverse Size Dependent Fano Parameter in Silicon Porous Wires: Consequence of Quasi-Continuum Flattening, JOURNAL OF PHYSICAL CHEMISTRY C 125, 12767 (2021) http://dx.doi.org/10.1021/acs.jpcc.1c02236					
Thedford, RP; Beaucage, PA; Susca, EM; Chao, CA; Nowack, KC; Van Dover, RB; Gruner, SM; Wiesner, U, Superconducting Quantum Metamaterials from High Pressure Melt Infiltration of Metals into Block Copolymer Double Gyroid Derived Ceramic Templates, ADVANCED FUNCTIONAL MATERIALS 31, 2100469 (2021) http://dx.doi.org/10.1002/adfm.202100469					
Kalt, J; Sternik, M; Krause, B; Sergueev, I; Mikolasek, M; Merkel, D; Bessas, D; Sikora, O; Vitova, T; Gottlicher, J; Steininger, R; Jochym, PT; Ptok, A; Leupold, O; Wille, HC; Chumakov, AI; Piekarz, P; Parlinski, K; Baumbach, T; Stankov, S, Lattice dynamics of endotaxial silicide nanowires, PHYSICAL REVIEW B 102, 195414 (2020) http://dx.doi.org/10.1103/PhysRevB.102.195414					
Houben, K; Jochum, JK; Couet, S; Menendez, E; Picot, T; Hu, MY; Zhao, JY; Alp, EE; Vantomme, A; Temst, K; Van Bael, MJ, The influence of phonon softening on the superconducting critical temperature of Sn nanostructures, SCIENTIFIC REPORTS 10, 5729 (2020) http://dx.doi.org/10.1038/s41598-020-62617-4					
28	B. Biță, S. Iftimie, A. Radu, **V. A. Antohe**, D. Coman, C. Miron, D. Staicu, L. Dan, L. Ion and Ș. Antohe, *"On the electrical and Photo-Electrical Behaviour of the Photovoltaic Cells Based on Polymeric and Chlorophyll-a Thin Films"* , Proceedings of the Romanian Academy, Series A **20(1)**, 51-57 (2019), **IF: 1.294**, **AIS: 0.181**	3	10	7.500	**0.400**
Alanazi, AK; Abo-Dief, HM; Alothman, ZA; Mohamed, AT; Pramanik, T; Alotaibi, SH, Effect of Plant Nanocellulose Electrolyte, Zinc Oxide Nanoparticles, and Nano-Chlorophyll Sensitiser on the Dye-Sensitised Solar Cell Performance, Crystals 12(12), 1771 (2022) http://dx.doi.org/10.3390/cryst12121771					
Koifman, OI; Stuzhin, PA; Travkin, VV; Pakhomov, GL, Chlorophylls in thin-film photovoltaic cells, a critical review, RSC ADVANCES 11, 15131 (2021) http://dx.doi.org/10.1039/d1ra01508g					
Restrepo, CV; Benavides, E; Zambrano, JC; Moncayo, V; Castro, E, Hand made solar cells from chlorophyll for teaching in high school energy education, INTERNATIONAL JOURNAL OF AMBIENT ENERGY , () http://dx.doi.org/10.1080/01430750.2020.1712243					
29	S. Iftimie, F. F. Băiașu, A. Radu, **V. A. Antohe**, S. Antohe and L. Ion, *"On the Structural, Optical and Morphological Properties of ZnSe $_{1-x}O_x$ Thin Films Grown by RF-Magnetron Sputtering"* , Chalcogenide Letters **15(7)**, 389-394 (2018), **IF: 0.977**, **AIS: 0.136**	2	6	5.500	**0.364**
Setera, B; Su, CH; Arnold, B; Choa, FS; Kelly, L; Sood, R; Singh, NB, Comparative Study of Bulk and Nanoengineered Doped ZnSe, CRYSTALS 12, 71 (2022) http://dx.doi.org/10.3390/cryst12010071					
Yadav, BK; Singh, P; Yadav, CP; Pandey, DK, Synthesis and characterization of ZnSe1-xTex thin films, PHASE TRANSITIONS 94, 326 (2021) http://dx.doi.org/10.1080/01411594.2021.1932884					
30	Ș. Antohe, S. Iftimie, L. Hrostea, **V. A. Antohe** and Mihaela Gîrtan, *"A critical review of photovoltaic cells based on organic monomeric and polymeric thin film heterojunctions"* , Thin Solid Films **642**, 219-231 (2017), doi: 10.1016/j.tsf.2017.09.041, **IF: 1.939**, **AIS: 0.356**	34	5	5.000	**6.800**
Abdullah, SJ; Lee, SJ; Park, JB; Kim, YS; Shin, HS; Kotta, A; Siddiqui, QT; Lee, YS; Seo, HK, Linear-Shaped Low-Bandgap Asymmetric Conjugated Donor Molecule for Fabrication of Bulk Heterojunction Small-Molecule Organic Solar Cells, MOLECULES 28(4), 1538 (2023), http://dx.doi.org/10.3390/molecules28041538					
Hrostea, L; Dobromir, M, An extensive XPS analysis on sensitized PBDB-T-SF thin films for photovoltaic applications, MATERIALS TODAY COMMUNICATIONS 33, 104619 (2022) http://dx.doi.org/10.1016/j.mtcomm.2022.104619					

Chen, LC, Organic and Polymeric Thin-Film Materials for Solar Cells: A New Open Special Issue in Materials, MATERIALS 15, 6664 (2022) http://dx.doi.org/10.3390/ma15196664
Huang, LY; Ai, QX; Risko, C, The role of crystal packing on the optical response of trialkyltetrelethynyl acenes, J. Chemical Physics 157(8), 084703 (2022) http://dx.doi.org/10.1063/5.0097421
Sampaio, PGV; Gonzalez, MOA, A review on organic photovoltaic cell, INTERNATIONAL JOURNAL OF ENERGY RESEARCH 46, 17813 (2022) http://dx.doi.org/10.1002/er.8456
Anrango-Camacho, C; Pavon-Ipiales, K; Frontana-Uribe, BA; Palma-Cando, A, Recent Advances in Hole-Transporting Layers for Organic Solar Cells, NANOMATERIALS 12, 443 (2022) http://dx.doi.org/10.3390/nano12030443
Sen, S; Manik, NB, Effects of two different solvents on Schottky barrier of organic device, JOURNAL OF PHYSICS COMMUNICATIONS 5, 95010 (2021) http://dx.doi.org/10.1088/2399-6528/ac26e0
Ram, KS; Setsoafia, DDY; Mehdizadeh-Rad, H; Ompong, D; Elumalai, NK; Singh, J, Operating Temperature of Nonfullerene Acceptor-Based Bulk Heterojunction Organic Solar Cells, PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE 218, 2100255 (2021) http://dx.doi.org/10.1002/pssa.202100255
Lewinska, G; Sanetra, J; Marszalek, KW, Application of quinoline derivatives in third-generation photovoltaics, JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS 32, 18451 (2021) http://dx.doi.org/10.1007/s10854-021-06225-6
Hrostea, L; Lisnic, P; Mallet, R; Leontie, L; Girtan, M, Studies on the Physical Properties of TiO2:Nb/Ag/TiO2:Nb and NiO/Ag/NiO Three-Layer Structures on Glass and Plastic Substrates as Transparent Conductive Electrodes for Solar Cells, NANOMATERIALS 11, 1416 (2021) http://dx.doi.org/10.3390/nano11061416
Socol, M; Preda, N, Hybrid Nanocomposite Thin Films for Photovoltaic Applications: A Review, NANOMATERIALS 11, 1117 (2021) http://dx.doi.org/10.3390/nano11051117
Sen, S; Das, PK; Manik, NB, Study on the effect of singlewalled carbon nanotubes on junction properties of Safranin -T dye-based organic device, JOURNAL OF PHYSICS COMMUNICATIONS 5, 45004 (2021) http://dx.doi.org/10.1088/2399-6528/abf2cf
Ozturk, T, Effect of various PCBM doping on the interfacial layer of Al/PCBM:ZnO/p-Si photodiodes, JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS 32, 10180 (2021) http://dx.doi.org/10.1007/s10854-021-05674-3
Yildiz, DE; Kocyigit, A; Erdal, MO; Yildirim, M, Dielectric characterization of Al/PCBM:ZnO/p-Si structures for wide-range frequency, BULLETIN OF MATERIALS SCIENCE 44, 25 (2021) http://dx.doi.org/10.1007/s12034-020-02297-y
Sen, S; Manik, NB, Modification of barrier height and depletion layer width of methyl red (MR) dye-based organic device in the presence of single-walled carbon nanotubes (SWCNT), INDIAN JOURNAL OF PHYSICS 96, 385 (2022) http://dx.doi.org/10.1007/s12648-020-01972-4
Solis, C; Durantini, JE; Macor, L; Heredia, DA; Lopez, EJG; Durantini, EN; Mangione, MI; Rappich, J; Dittrich, T; Otero, L; Gervaldo, M, Electrochemical formation of photoactive organic heterojunctions. Porphyrin-C-60 polymeric photoelectrochemical cells, ELECTROCHIMICA ACTA 365, 137333 (2021) http://dx.doi.org/10.1016/j.electacta.2020.137333
Altalhi, T; Gobouri, AA; Refat, MS; El-Nahass, MM; Hassanien, AM; Atta, AA; Saad, HA; Alhazaa, AN, Structural, electrochemical and optical properties of 1,2,4-triazine derivative, APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING 126, 815 (2020) http://dx.doi.org/10.1007/s00339-020-03995-4
Cho, NG; Shome, S; Yu, ES; Shin, HJ; Lee, BR; Kim, IT; Choi, H, Impact of Chalcogenophenes on Donor-Acceptor Copolymers for Bulk Heterojunction Solar Cells, MACROMOLECULAR RESEARCH 28, 1111 (2020) http://dx.doi.org/10.1007/s13233-020-8145-6
Lawton, SS; Warr, D; Perdigao, LMA; Chang, YJ; Pron, A; Costantini, G; Haddleton, DM, Determining the sequence and backbone structure of semi-statistical copolymers as donor-acceptor polymers in organic solar cells, SUSTAINABLE ENERGY & FUELS 4, 2026 (2020) http://dx.doi.org/10.1039/c9se01261c
McBride, M; Liu, A; Reichmanis, E; Grover, MA, Toward data-enabled process optimization of deformable electronic polymer-based devices, CURRENT OPINION IN CHEMICAL ENGINEERING 27, 72 (2020) http://dx.doi.org/10.1016/j.coche.2019.11.009
Girtan, M; Mallet, R; Socol, M; Stanculescu, A, On the Physical Properties PEDOT:PSS Thin Films, MATERIALS TODAY COMMUNICATIONS 22, 100735 (2020) http://dx.doi.org/10.1016/j.mtcomm.2019.100735
Hrostea, L; Leontie, L; Girtan, M, CHARACTERIZATION OF PBDB-T-SF: FULLERENE BLEND THIN FILMS FOR SOLAR CELL APPLICATIONS, ROMANIAN REPORTS IN PHYSICS 72, 504 (2020)
Batista, AD; Renzi, W; Fernandes, RV; Laureto, E; Duarte, JL; de Santana, H, Effects of Au/PEDOT:PSS/P3HT Interface Morphology on the Electrical and Optical Properties of Poly (3-Hexylthiophene), JOURNAL OF ELECTRONIC MATERIALS 48, 6008 (2019) http://dx.doi.org/10.1007/s11664-019-07268-6
Ledesma-Juarez, A; Rodriguez, M; Guizado-Rodriguez, M; Romero-Borja, D; Garcias-Morales, C; Maldonado, JL; Barba, V, Synthesis by direct arylation reaction of photovoltaic D-pi-A polymers based on fluorene-thiophene- fragment and fluorinated benzothiadiazole derivatives, JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS 30, 13974 (2019) http://dx.doi.org/10.1007/s10854-019-01744-9
Alaaeddin, MH; Sapuan, SM; Zuhri, MYM; Zainudin, ES; Al-Oqla, FM, Photovoltaic applications: Status and manufacturing prospects, RENEWABLE & SUSTAINABLE ENERGY REVIEWS 102, 318 (2019) http://dx.doi.org/10.1016/j.rser.2018.12.026
Padula, D; Simpson, JD; Troisi, A, Combining electronic and structural features in machine learning models to predict organic solar cells properties, MATERIALS HORIZONS 6, 343 (2019) http://dx.doi.org/10.1039/c8mh01135d
Coffey, T; Seredinski, A; Poler, JN; Patteson, C; Watts, WH; Baptiste, K; Zheng, CY; Cody, J; Collison, CJ, Nanoscale characterization of squaraine-fullerene-based photovoltaic active layers by atomic force microscopy mechanical and electrical property mapping, THIN SOLID FILMS 669, 120 (2019) http://dx.doi.org/10.1016/j.tsf.2018.10.046
Batista, AD; Renzi, W; Duarte, JL; de Santana, H, Structural Stability and Optical Studies of Poly(3-hexylthiophene) in an ITO/PEDOT:PSS/P3HT Interface, JOURNAL OF ELECTRONIC MATERIALS 47, 6403 (2018) http://dx.doi.org/10.1007/s11664-018-6550-9

Lewinska, G; Danel, KS; Lukaszewska, I; Lewinski, G; Niemiec, W; Sanetra, J, Ternary organic solar cells doped methoxyphenyl indenopyrazoloquinoline derivatives, JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS 29, 17809 (2018) http://dx.doi.org/10.1007/s10854-018-9890-6					
Socol, M; Preda, N; Breazu, C; Stanculescu, A; Costas, A; Stanculescu, F; Girtan, M; Gherendi, F; Popescu-Pelin, G; Socol, G, Flexible organic heterostructures obtained by MAPLE, APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING 124, 602 (2018) http://dx.doi.org/10.1007/s00339-018-1960-3					
Socol, M; Preda, N; Breazu, C; Florica, C; Costas, A; Istrate, CM; Stanculescu, A; Girtan, M; Gherendi, F, Organic heterostructures obtained on ZnO/Ag/ZnO electrode, VACUUM 154, 366 (2018) http://dx.doi.org/10.1016/j.vacuum.2018.05.039					
Kantor-Uriel, N; Roy, P; Lerman, K; Sukenik, CN; Cohen, H, Dark and photo-induced charge transport across molecular spacers, JOURNAL OF VACUUM SCIENCE & TECHNOLOGY B 36, 04H104 (2018) http://dx.doi.org/10.1116/1.5037219					
Mihalache, D; Baran, V; Nicolin, AI, PROCEEDINGS OF THE ROMANIAN ACADEMY - SERIES A: AN ACCOUNT OF THE PHYSICS SECTION, ROMANIAN REPORTS IN PHYSICS 70, 113 (2018)					
Hrostea, L; Girtan, M; Mallet, R; Leontie, L, Optical and Morphological Properties of P3HT and P3HT: PCBM Thin Films Used in Photovoltaic Applications, EUROINVENT ICIR 2018 374, 12015 (2018) http://dx.doi.org/10.1088/1757-899X/374/1/012015					
31	S. Basov, C. Elissade, Q. Simon, M. Maglione, C. Castro-Chavarria, T. H. de Beauvoir, S. Payan, K. Temst, V. Lazenka, **V. A. Antohe**, P. M. Pereira de Sá, D. Sallagoity and L. Piraux, *"Simple synthesis and characterization of vertically aligned $Ba_{0.7}Sr_{0.3}TiO_3$-$CoFe_2O_4$ multiferroic nanocomposites from $CoFe_2$ nanopillar arrays"* , Nanotechnology **28(47)**, 5707 (2017), doi: 10.1088/1361-6528/aa9016, **IF: 3.404**, **AIS: 0.791**	8	13	9.000	**0.889**
Channagoudra, G; Dayal, V, Magnetoelectric coupling in ferromagnetic/ferroelectric heterostructures: A survey and perspective, JOURNAL OF ALLOYS AND COMPOUNDS 928, 167181 (2022) http://dx.doi.org/10.1016/j.jallcom.2022.167181					
Dong, GH; Wang, T; Liu, HX; Zhang, YJ; Zhao, YA; Hu, ZQ; Ren, W; Ye, ZG; Shi, KQ; Zhou, ZY; Liu, M; Pan, JY, Strain-Induced Magnetoelectric Coupling in Fe3O4/BaTiO3 Nanopillar Composites, ACS APPLIED MATERIALS & INTERFACES 14, 13925 (2022) http://dx.doi.org/10.1021/acsami.2c00058					
Noh, BI; Yang, SC, Ferromagnetic, ferroelectric, and magnetoelectric properties in individual nanotube-based magnetoelectric films of CoFe2O4/BaTiO3 using electrically resistive core-shell magnetostrictive nanoparticles, JOURNAL OF ALLOYS AND COMPOUNDS 891, 161861 (2022) http://dx.doi.org/10.1016/j.jallcom.2021.161861					
Lee, OJ; Misra, S; Wang, HY; MacManus-Driscoll, JL, Ferroelectric/multiferroic self-assembled vertically aligned nanocomposites: Current and future status, APL MATERIALS 9, 30904 (2021) http://dx.doi.org/10.1063/5.0035366					
Kobune, M; Yoshii, M; Takasaki, H; Ito, R; Migita, T; Kanda, K; Maenaka, K; Hayashi, Y, Fabrication and physical properties of microrod-type multiferroic composite thin films by metal organic decomposition, JAPANESE JOURNAL OF APPLIED PHYSICS 59, SPPB06 (2020) http://dx.doi.org/10.35848/1347-4065/aba553					
Piraux, L, Magnetic Nanowires, APPLIED SCIENCES-BASEL 10, 1832 (2020) http://dx.doi.org/10.3390/app10051832					
Ito, R; Kobune, M; Yoshii, M; Ito, R; Haruna, Y; Obayashi, T; Migita, T; Kikuchi, T; Kanda, K; Maenaka, K, Fabrication and characterization of micropillar-type multiferroic composite thin films by non-aqueous sol-gel method using ferroelectric pillars, JAPANESE JOURNAL OF APPLIED PHYSICS 59, SCCB08 (2020) http://dx.doi.org/10.7567/1347-4065/ab4aa1					
Huang, JJ; Gao, XY; MacManus-Driscoll, JL; Wang, HY, Ferroelectric thin films and nanostructures: current and future, NANOSTRUCTURES IN FERROELECTRIC FILMS FOR ENERGY APPLICATIONS: DOMAINS, GRAINS, INTERFACES AND ENGINEERING METHODS , 19 (2019) http://dx.doi.org/10.1016/B978-0-12-813856-4.00002-8					
32	R. Cai, **V. A. Antohe**, Z. Hu, B. Nysten, L. Piraux and A. M. Jonas, *"Multiferroic Nanopatterned Hybrid Material with Room-Temperature Magnetic Switching of the Electric Polarization"* , Advanced Materials **29(6)**, 1604604 (2017), doi: 10.1002/adma.201604604, **IF: 21.950**, **AIS: 5.469**	16	6	5.500	**2.909**
Ghaffar, A; Fatima, M; Mustafa, GM; Hafeez, SA; Mahmood, A; Atiq, S, Tunability of magnetoelectric coupling in perovskite/spinel-based triphasic multiferroic composites for multistate devices, CERAMICS INTERNATIONAL 49(7), 10298 (2023) http://dx.doi.org/10.1016/j.ceramint.2022.11.210					
Inzani, K; Pokhrel, N; Leclerc, N; Clemens, Z; Ramkumar, SP; Griffin, SM; Nowadnick, EA, Manipulation of spin orientation via ferroelectric switching in Fe-doped Bi2WO6 from first principles, PHYSICAL REVIEW B 105, 54434 (2022) http://dx.doi.org/10.1103/PhysRevB.105.054434					
Afzal, F; Ansar, MT; Haidyrah, AS; Khan, MA; Mustsfa, GM; Saleem, M; Atiq, S, A neoteric tri-phase composite with efficient magneto-electric and multifunctional response, JOURNAL OF ALLOYS AND COMPOUNDS 888, 161516 (2021) http://dx.doi.org/10.1016/j.jallcom.2021.161516					
Mehak, M; Khan, MA; Ali, U; Quader, A; Saleem, M; Mustafa, GM; Haidyrah, AS; Atiq, S, Multiferroic triphase BFO-PZT-PVDF composite with significant magnetoelectric response for multistate device applications, CERAMICS INTERNATIONAL 47, 21688 (2021) http://dx.doi.org/10.1016/j.ceramint.2021.04.182					
Shimada, T; Masuda, K; Hagiwara, Y; Ozaki, N; Xu, T; Wang, J; Kitamura, T, Ferroic dislocations in paraelectric SrTiO3, PHYSICAL REVIEW B 103, L060101 (2021) http://dx.doi.org/10.1103/PhysRevB.103.L060101					
Nicolenco, A; de h-Ora, M; Yun, C; MacManus-Driscoll, J; Sort, J, Strain-gradient effects in nanoscale-engineered magnetoelectric materials, APL MATERIALS 9, 20903 (2021) http://dx.doi.org/10.1063/5.0037421					
Li, QQ; Zhao, JH; He, BS; Hu, ZJ, Solution processable poly(vinylidene fluoride)-based ferroelectric polymers for flexible electronics, APL MATERIALS 9, 10902 (2021) http://dx.doi.org/10.1063/5.0035539					

Sadat, T; Faurie, D; Godard, P; Thiaudiere, D; Renault, PO; Zighem, F, 90 degrees ferroelectric domain switching effect on interfacial strain mediated magnetoelectric coupling, JOURNAL OF PHYSICS D-APPLIED PHYSICS 53, 145001 (2020) http://dx.doi.org/10.1088/1361-6463/ab6431					
Piraux, L, Magnetic Nanowires, APPLIED SCIENCES-BASEL 10, 1832 (2020) http://dx.doi.org/10.3390/app10051832					
Kallitsis, K; Thuau, D; Soulestin, T; Brochon, C; Cloutet, E; Dos Santos, FD; Hadziioannou, G, Photopatternable High-k Fluoropolymer Dielectrics Bearing Pendent Azido Groups, MACROMOLECULES 52, 5769 (2019) http://dx.doi.org/10.1021/acs.macromol.9b00508					
Spaldin, NA; Ramesh, R, Advances in magnetoelectric multiferroics, NATURE MATERIALS 18, 203 (2019) http://dx.doi.org/10.1038/s41563-018-0275-2					
Zhao, HY; Wang, H; Cheng, ZX; Fu, QM; Tao, H; Ma, ZB; Jia, TT; Kimura, H; Li, HD, Electric and magnetic properties of Aurivillius-phase compounds: Bi5Ti3XO15 (X = Cu, Mn, Ni, V), CERAMICS INTERNATIONAL 44, 13226 (2018) http://dx.doi.org/10.1016/j.ceramint.2018.04.148					
Tong, YB; Tian, ZF; Duan, HB; Zhu, ZP; He, W; Hong, TY; Yu, G; He, YJ; Yang, JK, [(18-Crown-6)K][Fe(1)Cl(1)(4)](0.5)[Fe(2)Cl(2)(4)](0.5): A Multifunctional Molecular Switch of Dielectric, Conductivity and Magnetic Properties, CHEMISTRY-AN ASIAN JOURNAL 13, 656 (2018) http://dx.doi.org/10.1002/asia.201701794					
Poddar, S; de Sa, P; Cai, RG; Delannay, L; Nysten, B; Piraux, L; Jonas, AM, Room-Temperature Magnetic Switching of the Electric Polarization in Ferroelectric Nanopillars, ACS NANO 12, 576 (2018) http://dx.doi.org/10.1021/acsnano.7b07389					
Gorige, V; Swain, A; Komatsu, K; Itoh, M; Taniyama, T, Magnetization Reversal in Fe/BaTiO3(110) Heterostructured Multiferroics, PHYSICA STATUS SOLIDI-RAPID RESEARCH LETTERS 11, 1700294 (2017) http://dx.doi.org/10.1002/pssr.201700294					
Cai, RG; Nysten, B; Hu, ZJ; Jonas, AM, Local polarization switching in stressed ferroelectric polymers, APPLIED PHYSICS LETTERS 110, 202901 (2017) http://dx.doi.org/10.1063/1.4983609					
33	**V. A. Antohe***, E. Nysten, J. M. Martínez-Huerta, P. M. Pereira de Sá and L. Piraux, *"Annealing effects on the magnetic properties of highly-packed vertically-aligned nickel nanotubes"* , RSC Advances **7**, 18609-18616 (2017), doi: 10.1039/C7RA01276D, **IF: 2.936**, **AIS: 0.564**	4	5	5.000	**0.800**
Gomes, TDSC; Marchal, N; Araujo, FA; Galvan, YV; Medina, JD; Piraux, L, Magneto-Transport in Flexible 3D Networks Made of Interconnected Magnetic Nanowires and Nanotubes, NANOMATERIALS 11, 221 (2021) http://dx.doi.org/10.3390/nano11010221					
Piraux, L, Magnetic Nanowires, APPLIED SCIENCES-BASEL 10, 1832 (2020) http://dx.doi.org/10.3390/app10051832					
Medina, JD; Gomes, TDSC; Galvan, YGV; Piraux, L, Large-scale 3-D interconnected Ni nanotube networks with controlled structural and magnetic properties, SCIENTIFIC REPORTS 8, 14555 (2018) http://dx.doi.org/10.1038/s41598-018-32437-8					
Wang, J; Pan, SL, Electrodeposition of vertically standing Ag nanoplates and nanowires on transparent conductive electrode using porous anodic aluminum oxide template, NANOTECHNOLOGY 28, 425601 (2017) http://dx.doi.org/10.1088/1361-6528/aa8614					
34	D. Sallagoity, C. Elissalde, J. Majimel, M. Maglione, **V. A. Antohe**, F. Abreu Araujo, P. M. Pereira de Sá, S. Basov and L. Piraux, *"Synthesis of dense arrays of multiferroic $CoFe_2O_4$–$PbZr_{0.52}Ti_{0.48}O_3$ core/shell nanocables"* , RSC Advances **6**, 106716-106722 (2016), doi: 10.1039/C6RA19548b, **IF: 3.108**, **AIS: 0.590**	6	9	7.000	**0.857**
Plyushch, A; Lewin, D; Sokal, A; Grigalaitis, R; Shvartsman, VV; Macutkevic, J; Salamon, S; Wende, H; Lapko, KN; Kuzhir, PP; Lupascu, DC; Banys, J, Magnetoelectric coupling in nonsintered bulk BaTiO3 - xCoFe(2)O(4) multiferroic composites, JOURNAL OF ALLOYS AND COMPOUNDS 917, 165519 (2022) http://dx.doi.org/10.1016/j.jallcom.2022.165519					
Nguyen, T; Fleming, Y; Bender, P; Grysan, P; Valle, N; El Adib, B; Adjeroud, N; Arl, D; Emo, M; Ghanbaja, J; Michels, A; Polesel-Maris, J, Low-Temperature Growth of AlN Films on Magnetostrictive Foils for High-Magnetoelectric-Response Thin-Film Composites, ACS APPLIED MATERIALS & INTERFACES 13, 30874 (2021) http://dx.doi.org/10.1021/acsami.1c08399					
Piraux, L, Magnetic Nanowires, APPLIED SCIENCES-BASEL 10, 1832 (2020) http://dx.doi.org/10.3390/app10051832					
Li, XY; Ma, Q; Huang, ZX; Zhang, LM; Guo, DY; Ju, Y, Poly(vinyl pyrrolidone)-assisted hydrothermal synthesis of Pb(Zr0.52Ti0.48)O-3 nanocrystals, JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS 30, 17164 (2019) http://dx.doi.org/10.1007/s10854-019-02063-9					
Elissalde, C; Chung, UC; Roulland, F; Berthelot, R; Artemenko, A; Majimel, J; Basov, S; Piraux, L; Nysten, B; Mornet, S; Aymonier, C; Estournes, C; Maglione, M, Specific core-shell approaches and related properties in nanostructured ferroelectric ceramics, FERROELECTRICS 532, 138 (2018) http://dx.doi.org/10.1080/00150193.2018.1499408					
Shao, H; Ma, QL; Yu, WS; Wang, XL; Dong, XT; Liu, ZL; Wang, JX; Liu, GX; Chang, LM, Novel flexible coaxial nanoribbons arrays to help achieve tuned and enhanced simultaneous multicolor luminescence-electricity-magnetism trifunctionality, JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS 28, 16762 (2017) http://dx.doi.org/10.1007/s10854-017-7591-1					
35	L. Piraux, **V. A. Antohe***, E. Ferain and D. Lahem, *"Self-supported three-dimensionally interconnected polypyrrole nanotubes and nanowires for highly sensitive chemiresistive gas sensing"* , RSC Advances **6**, 21808-21813 (2016), doi: 10.1039/C6RA03439J, **IF: 3.108**, **AIS: 0.590**	17	4	4.000	**4.250**
Kyokunzire, P; Jeong, G; Shin, SY; Cheon, HJ; Wi, E; Woo, M; Vu, TT; Chang, M, Enhanced Nitric Oxide Sensing Performance of Conjugated Polymer Films through Incorporation of Graphitic Carbon Nitride, INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES 24(2), 1158 (2023) http://dx.doi.org/10.3390/ijms24021158					

de la Torre, AJC; Avila-Nino, JA; Antano-Lopez, R; Araujo, E, Vertically Aligned Conductive Polymeric Nanotubes Grown on Percolated Multiwalled Carbon Nanotube Films for Supercapacitor Electrodes, ACS APPLIED NANO MATERIALS 5(10), 15700 (2022) http://dx.doi.org/10.1021/acsanm.2c03771					
Shin, SY; Jang, MG; Cheon, HJ; Go, S; Yoon, H; Chang, M, Nanostructure-assisted solvent vapor annealing of conjugated polymer thin films for enhanced performance in volatile organic compound sensing, SENSORS AND ACTUATORS B-CHEMICAL 351, 130951 (2022) http://dx.doi.org/10.1016/j.snb.2021.130951					
Reddy, BKS; Borse, PH, Review-Recent Material Advances and Their Mechanistic Approaches for Room Temperature Chemiresistive Gas Sensors, JOURNAL OF THE ELECTROCHEMICAL SOCIETY 168, 57521 (2021) http://dx.doi.org/10.1149/1945-7111/abf4ea					
Zhang, SW; Xia, F; Demoustier-Champagne, S; Jonas, AM, Layer-by-layer assembly in nanochannels: assembly mechanism and applications, NANOSCALE 13, 7471 (2021) http://dx.doi.org/10.1039/d1nr01113h					
Tang, XH; Debliquy, M; Lahem, D; Yan, YY; Raskin, JP, A Review on Functionalized Graphene Sensors for Detection of Ammonia, SENSORS 21, 1443 (2021) http://dx.doi.org/10.3390/s21041443					
Gomes, TDSC; Marchal, N; Araujo, FA; Galvan, YV; Medina, JD; Piraux, L, Magneto-Transport in Flexible 3D Networks Made of Interconnected Magnetic Nanowires and Nanotubes, NANOMATERIALS 11, 221 (2021) http://dx.doi.org/10.3390/nano11010221					
Ly, A; Luo, YF; Cavailles, G; Olivier, MG; Debliquy, M; Lahem, D, Ammonia Sensor Based on Vapor Phase Polymerized Polypyrrole, CHEMOSENSORS 8, 38 (2020) http://dx.doi.org/10.3390/chemosensors8020038					
Galvan, YGV; Gomes, TDSC; Piraux, L; Medina, JD, Scale ratio modulated magnetic anisotropy of 3D Ni1-xCox crossed nanowire networks, JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 503, 166615 (2020) http://dx.doi.org/10.1016/j.jmmm.2020.166615					
Muench, F, Metal Nanotube/Nanowire-Based Unsupported Network Electrocatalysts, CATALYSTS 8, 597 (2018) http://dx.doi.org/10.3390/catal8120597					
Tang, XH; Lahem, D; Raskin, JP; Gerard, P; Geng, X; Andre, N; Debliquy, M, A Fast and Room-Temperature Operation Ammonia Sensor Based on Compound of Graphene With Polypyrrole, IEEE SENSORS JOURNAL 18, 9088 (2018) http://dx.doi.org/10.1109/JSEN.2018.2869203					
Medina, JD; Gomes, TDSC; Galvan, YGV; Piraux, L, Large-scale 3-D interconnected Ni nanotube networks with controlled structural and magnetic properties, SCIENTIFIC REPORTS 8, 14555 (2018) http://dx.doi.org/10.1038/s41598-018-32437-8					
Stejskal, J; Trchova, M, Conducting polypyrrole nanotubes: a review, CHEMICAL PAPERS 72, 1563 (2018) http://dx.doi.org/10.1007/s11696-018-0394-x					
Debiemme-Chouvy, C; Fakhry, A; Pillier, F, Electrosynthesis of polypyrrole nano/micro structures using an electrogenerated oriented polypyrrole nanowire array as framework, ELECTROCHIMICA ACTA 268, 66 (2018) http://dx.doi.org/10.1016/j.electacta.2018.02.092					
Lefevre, D; Louvegny, J; Naudin, M; Ferain, E; Dupont-Gillain, C; Demoustier-Champagne, S, Biofunctionalized and self-supported polypyrrole frameworks as nanostructured ECM-like biointerfaces, RSC ADVANCES 8, 22932 (2018) http://dx.doi.org/10.1039/c8ra00325d					
Gomes, TDSC; Medina, JD; Lemaitre, M; Piraux, L, Magnetic and Magnetoresistive Properties of 3D Interconnected NiCo Nanowire Networks, NANOSCALE RESEARCH LETTERS 11, 466 (2016) http://dx.doi.org/10.1186/s11671-016-1679-z					
Gomes, TDSC; Medina, JD; Velazquez-Galvan, YG; Martinez-Huerta, JM; Encinas, A; Piraux, L, Interplay between the magnetic and magneto-transport properties of 3D interconnected nanowire networks, JOURNAL OF APPLIED PHYSICS 120, 43904 (2016) http://dx.doi.org/10.1063/1.4959249					
36	A. Vlad, **V. A. Antohe**, J. M. Martínez-Huerta, E. Ferain, J. F. Gohy and L. Piraux, *"Three-Dimensional Interconnected Nicore-NiOshell Nanowire Networks for Lithium Microbattery Architectures"* , J. Mater. Chem. A **4**, 1603-1607 (2016), doi: 10.1039/c5ta10639g, **IF: 8.867**, **AIS: 1.781**	20	6	5.500	**3.636**
Zhao, YL; Liu, HZ; Yan, Y; Chen, TW; Yu, HH; Ejeta, LO; Zhang, GH; Duan, HG, Flexible Transparent Electrochemical Energy Conversion and Storage: From Electrode Structures to Integrated Applications, ENERGY & ENVIRONMENTAL MATERIALS (2022) http://dx.doi.org/10.1002/eem2.12303					
Hossain, UH; Jantsen, G; Muench, F; Kunz, U; Ensinger, W, Increasing the structural and compositional diversity of ion-track templated 1D nanostructures through multistep etching, plastic deformation, and deposition, NANOTECHNOLOGY 33, 245603 (2022) http://dx.doi.org/10.1088/1361-6528/ac59e5					
Marchal, N; Gomes, TDS; Araujo, FA; Piraux, L, Giant Magnetoresistance and Magneto-Thermopower in 3D Interconnected NixFe1-x/Cu Multilayered Nanowire Networks, NANOMATERIALS 11, 1133 (2021) http://dx.doi.org/10.3390/nano11051133					
Zhang, SW; Xia, F; Demoustier-Champagne, S; Jonas, AM, Layer-by-layer assembly in nanochannels: assembly mechanism and applications, NANOSCALE 13, 7471 (2021) http://dx.doi.org/10.1039/d1nr01113h					
Amin, KM; Muench, F; Kunz, U; Ensinger, W, 3D NiCo-Layered double Hydroxide@Ni nanotube networks as integrated free-standing electrodes for nonenzymatic glucose sensing, JOURNAL OF COLLOID AND INTERFACE SCIENCE 591, 384 (2021) http://dx.doi.org/10.1016/j.jcis.2021.02.023					
Gomes, TDSC; Marchal, N; Araujo, FA; Galvan, YV; Medina, JD; Piraux, L, Magneto-Transport in Flexible 3D Networks Made of Interconnected Magnetic Nanowires and Nanotubes, NANOMATERIALS 11, 221 (2021) http://dx.doi.org/10.3390/nano11010221					
Galvan, YGV; Gomes, TDSC; Piraux, L; Medina, JD, Scale ratio modulated magnetic anisotropy of 3D Ni1-xCox crossed nanowire networks, JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 503, 166615 (2020) http://dx.doi.org/10.1016/j.jmmm.2020.166615					
Velazquez-Galvan, Y; Medina, JD; Piraux, L; Encinas, A, Robustness of the enhanced magnetic anisotropy in Ni nanowires regardless of the deposition potential, JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 497, 165992 (2020) http://dx.doi.org/10.1016/j.jmmm.2019.165992					
Wang, S; Fan, XY; Cui, Y; Guo, L; Wang, XG; Li, DL, Three-dimensional Porous Current Collector for Lithium Storage Enhancement of NiO Electrode, ACTA CHIMICA SINICA 77, 551 (2019) http://dx.doi.org/10.6023/A19020057					

Muench, F, Metal Nanotube/Nanowire-Based Unsupported Network Electrocatalysts, CATALYSTS 8, 597 (2018) http://dx.doi.org/10.3390/catal8120597					
Guo, XT; Zhang, GX; Li, Q; Xue, HG; Pang, H, Non-noble metal-transition metal oxide materials for electrochemical energy storage, ENERGY STORAGE MATERIALS 15, 171 (2018) http://dx.doi.org/10.1016/j.ensm.2018.04.002					
Yue, Y; Liang, H, 3D Current Collectors for Lithium-Ion Batteries: A Topical Review, SMALL METHODS 2, 1800056 (2018) http://dx.doi.org/10.1002/smtd.201800056					
Dou, NG; Jagt, RA; Portela, CM; Greer, JR; Minnich, AJ, Ultralow Thermal Conductivity and Mechanical Resilience of Architected Nanolattices, NANO LETTERS 18, 4755 (2018) http://dx.doi.org/10.1021/acs.nanolett.8b01191					
Tamburri, E; Angjellari, M; Carcione, R; Barbini, P; Terranova, ML, Flexible electrodes for supercapacitors assembled with NiOx(OH)y nanoflakes on H-plasma nanosculptured carbon fiber patches, MATERIALS TODAY ENERGY 5, 79 (2017) http://dx.doi.org/10.1016/j.mtener.2017.05.004					
Noyan, AA; Leontiev, AP; Yakovlev, MV; Roslyakov, IV; Tsirlina, GA; Napolskii, KS, Electrochemical growth of nanowires in anodic alumina templates: the role of pore branching, ELECTROCHIMICA ACTA 226, 60 (2017) http://dx.doi.org/10.1016/j.electacta.2016.12.142					
Xiong, QQ; Chi, HZ; Zhang, J; Tu, JP, Nitrogen-doped carbon shell on metal oxides core arrays as enhanced anode for lithium ion batteries, JOURNAL OF ALLOYS AND COMPOUNDS 688, 729 (2016) http://dx.doi.org/10.1016/j.jallcom.2016.07.265					
Gomes, TDSC; Medina, JD; Lemaitre, M; Piraux, L, Magnetic and Magnetoresistive Properties of 3D Interconnected NiCo Nanowire Networks, NANOSCALE RESEARCH LETTERS 11, 466 (2016) http://dx.doi.org/10.1186/s11671-016-1679-z					
Gomes, TDSC; Medina, JD; Velazquez-Galvan, YG; Martinez-Huerta, JM; Encinas, A; Piraux, L, Interplay between the magnetic and magneto-transport properties of 3D interconnected nanowire networks, JOURNAL OF APPLIED PHYSICS 120, 43904 (2016) http://dx.doi.org/10.1063/1.4959249					
Zhu, Q; Li, YH; Gao, Y; Wang, X; Song, SY, Reduced Graphene-Wrapped MnO2 Nanowires Self-Inserted with Co3O4 Nanocages: Remarkable Enhanced Performances for Lithium-Ion Anode Applications, CHEMISTRY-A EUROPEAN JOURNAL 22, 6876 (2016) http://dx.doi.org/10.1002/chem.201600456					
Wu, J; Yin, WJ; Liu, WW; Guo, P; Liu, GB; Liu, XC; Geng, DS; Lau, WM; Liu, H; Liu, LM, High performance NiO nanosheets anchored on three-dimensional nitrogen-doped carbon nanotubes as a binder-free anode for lithium ion batteries, JOURNAL OF MATERIALS CHEMISTRY A 4, 10940 (2016) http://dx.doi.org/10.1039/c6ta03137d					
37	D. Tamvakos, S. Lepadatu, **V. A. Antohe***, A. Tamvakos, P. M. Weaver, L. Piraux, M. G. Cain and D. Pullini, *"Piezoelectric Properties of Template-Free Electrochemically Grown ZnO Nanorod Arrays"* , Appl. Surf. Sci. **356**, 1214-1220 (2015), doi: 10.1016/j.apsusc.2015.08.187, **IF: 3.150**, **AIS: 0.574**	42	8	6.500	**6.462**
Zhao, YF; Ding, W; Xiao, YB; Yang, P, Manipulating the optoelectronic characteristic of AZO films by magnetron sputtering power, VACUUM 210, 111849 (2023) http://dx.doi.org/10.1016/j.vacuum.2023.111849					
Mustaffa, MA; Arith, F; Noorasid, NS; Zin, MSIM; Leong, KS; Ali, FA; Mustafa, ANM; Ismail, MM, Towards a Highly Efficient ZnO Based Nanogenerator, Micromachines 13(12), 2200 (2022) http://dx.doi.org/10.3390/mi13122200					
Garcia, AJL; Mouis, M; Cresti, A; Tao, R; Ardila, G, Influence of slow or fast surface traps on the amplitude and symmetry of the piezoelectric response of semiconducting-nanowire-based transducers, JOURNAL OF PHYSICS D-APPLIED PHYSICS 55, 405502 (2022) http://dx.doi.org/10.1088/1361-6463/ac8251					
Wang, YC; Guo, XY; Li, LH; Zhang, J; Li, GK; Zavabeti, A; Li, YX, Enhanced Piezoelectric Properties Enabled by Engineered Low- Dimensional Nanomaterials, ACS APPLIED NANO MATERIALS 5, 12126 (2022) http://dx.doi.org/10.1021/acsanm.2c01871					
Alluri, NR; Raj, NPMJ; Khandelwal, G; Panda, PK; Banerjee, A; Mishra, YK; Ahuja, R; Kim, SJ, Crystallinity modulation originates ferroelectricity like nature in piezoelectric selenium, NANO ENERGY 95, 107008 (2022) http://dx.doi.org/10.1016/j.nanoen.2022.107008					
Manchi, P; Graham, SA; Patnam, H; Paranjape, MV; Yu, JS, ZnO Nanoflakes Embedded Polymer Matrix for High-Performance Mechanical Energy Harvesting, ADVANCED MATERIALS TECHNOLOGIES 7, 2100858 (2022) http://dx.doi.org/10.1002/admt.202100858					
Jose, FP; Achari, SR; Jayaraj, MK; Sukumaran, AA, Charge transfer mechanism of AZO-ZnO photoanode based on impedance study for solar cell application, JOURNAL OF ELECTROANALYTICAL CHEMISTRY 901, 115769 (2021) http://dx.doi.org/10.1016/j.jelechem.2021.115769					
Das Mahapatra, S; Mohapatra, PC; Aria, AI; Christie, G; Mishra, YK; Hofmann, S; Thakur, VK, Piezoelectric Materials for Energy Harvesting and Sensing Applications: Roadmap for Future Smart Materials, ADVANCED SCIENCE 8, 2100864 (2021) http://dx.doi.org/10.1002/advs.202100864					
Alluri, NR; Raj, NPMJ; Khandelwal, G; Kim, SJ, Shape-dependent in-plane piezoelectric response of SnSe nanowall/ microspheres, NANO ENERGY 88, 106231 (2021) http://dx.doi.org/10.1016/j.nanoen.2021.106231					
Batra, K; Sinha, N; Kumar, B, Ba-doped ZnO nanorods: Efficient piezoelectric filler material for PDMS based flexible nanogenerator, VACUUM 191, 110385 (2021) http://dx.doi.org/10.1016/j.vacuum.2021.110385					
Garcia, AJL; Sico, G; Montanino, M; Defoor, V; Pusty, M; Mescot, X; Loffredo, F; Villani, F; Nenna, G; Ardila, G, Low-Temperature Growth of ZnO Nanowires from Gravure-Printed ZnO Nanoparticle Seed Layers for Flexible Piezoelectric Devices, NANOMATERIALS 11, 1430 (2021) http://dx.doi.org/10.3390/nano11061430					
Jiang, L; Yang, PY; Fan, YJ; Zeng, S; Wang, Z; Pan, ZH; He, YH; Xiong, J; Zhang, XH; Hu, YM; Gu, HS; Wang, XL; Wang, J, Ultrahigh piezoelectric coefficients of Li-doped (K,Na)NbO3 nanorod arrays with manipulated O-T phase boundary: Towards energy harvesting and self-powered human movement monitoring, NANO ENERGY 86, 106072 (2021) http://dx.doi.org/10.1016/j.nanoen.2021.106072					
Chen, JL; Zhang, Y; Qiu, W; Chen, S; Liu, C; Peng, ZY; Chen, J, Mechanism and Optimized Process Conditions of Forming One-Dimensional ZnO Nanorods with Al-Doping by Electrodeposition Method, INTERNATIONAL JOURNAL OF PHOTOENERGY 2021, 8827911 (2021) http://dx.doi.org/10.1155/2021/8827911					

Singh, SK; Tripathi, P; Sulania, I; Kumar, VVS; Kumar, P, Tuning the optical and electrical properties of magnetron-sputtered Cu-ZnO thin films using low energy Ar ion irradiation, OPTICAL MATERIALS 114, 110985 (2021) http://dx.doi.org/10.1016/j.optmat.2021.110985
Shi, ZM; Cao, SY; Araujo, AJM; Zhang, P; Lou, ZH; Qin, MJ; Xu, J; Gao, F, Plate-like Ca3Co4O9: A novel lead-free piezoelectric material, APPLIED SURFACE SCIENCE 536, 147928 (2021) http://dx.doi.org/10.1016/j.apsusc.2020.147928
Lozano, H; Catalan, G; Esteve, J; Domingo, N; Murillo, G, Non-linear nanoscale piezoresponse of single ZnO nanowires affected by piezotronic effect, NANOTECHNOLOGY 32, 25202 (2021) http://dx.doi.org/10.1088/1361-6528/abb972
Garcia, AJL; Tao, R; Mouis, M; Ardila, G, A NEW APPROACH TO CALCULATE THE PIEZOELECTRIC COEFFICIENT OF PIEZO-SEMICONDUCTOR NANOWIRES INTEGRATED IN NANOCOMPOSITES: EXPERIMENT AND SIMULATION, 2021 21ST INTERNATIONAL CONFERENCE ON SOLID-STATE SENSORS, ACTUATORS AND MICROSYSTEMS (TRANSDUCERS) , 1056 (2021) http://dx.doi.org/10.1109/TRANSDUCERS50396.2021.9495621
Batra, K; Sinha, N; Kumar, B, Tb-doped ZnO:PDMS based flexible nanogenerator with enhanced piezoelectric output performance by optimizing nanofiller concentration, CERAMICS INTERNATIONAL 46, 24120 (2020) http://dx.doi.org/10.1016/j.ceramint.2020.06.191
Choi, HJ; Jung, YS; Han, J; Cho, YS, In-situ stretching strain-driven high piezoelectricity and enhanced electromechanical energy-harvesting performance of a ZnO nanorod-array structure, NANO ENERGY 72, 104735 (2020) http://dx.doi.org/10.1016/j.nanoen.2020.104735
Goel, S; Kumar, B, A review on piezo-/ferro-electric properties of morphologically diverse ZnO nanostructures, JOURNAL OF ALLOYS AND COMPOUNDS 816, 152491 (2020) http://dx.doi.org/10.1016/j.jallcom.2019.152491
Van, CHN; Nguyen, HK; Huynh, HQ; Pham, HA; Dinh, TM; Luong, HN; Phan, BT; Tran, CK; Dang, VQ, Multi-modification of ZnO nanorods to enhance the visible absorption, ADVANCES IN NATURAL SCIENCES-NANOSCIENCE AND NANOTECHNOLOGY 11, 15002 (2020) http://dx.doi.org/10.1088/2043-6254/ab6290
Vasiliev, AS, Penetration of a spherical conductive punch into a piezoelectric half-space with a functionally graded coating, INTERNATIONAL JOURNAL OF ENGINEERING SCIENCE 142, 230 (2019) http://dx.doi.org/10.1016/j.ijengsci.2019.06.006
Chen, H; Wageh, S; Al-Ghamdi, AA; Wang, HY; Yu, JG; Jiang, CJ, Hierarchical C/NiO-ZnO nanocomposite fibers with enhanced adsorption capacity for Congo red, JOURNAL OF COLLOID AND INTERFACE SCIENCE 537, 736 (2019) http://dx.doi.org/10.1016/j.jcis.2018.11.045
Dehkordi, HA; Mokhtari, A; Dastafkan, K; Soleimanian, V, Sol-Gel Spin-Coating Followed by Solvothermal Synthesis of Nanorods-Based ZnO Thin Films: Microstructural, Optical, and Gas Sensing Properties, JOURNAL OF ELECTRONIC MATERIALS 48, 1258 (2019) http://dx.doi.org/10.1007/s11664-018-06858-0
Kucuk, M; Ovecoglu, ML, Surface modification and characterization of polyester fabric by coating with low temperature synthesized ZnO nanorods, JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY 88, 345 (2018) http://dx.doi.org/10.1007/s10971-018-4817-5
Wang, RJ; Wang, CY; Feng, YT; Tang, C, Mechanisms underlying the shape effect on nano-piezoelectricity, NANO ENERGY 53, 906 (2018) http://dx.doi.org/10.1016/j.nanoen.2018.09.031
Calestani, D; Culiolo, M; Villani, M; Delmonte, D; Solzi, M; Kim, TY; Kim, SW; Marchini, L; Zappettini, A, Functionalization of carbon fiber tows with ZnO nanorods for stress sensor integration in smart composite materials, NANOTECHNOLOGY 29, 335501 (2018) http://dx.doi.org/10.1088/1361-6528/aac850
Fortunato, M; Chandraiahgari, CR; De Bellis, G; Ballirano, P; Soltani, P; Kaciulis, S; Caneve, L; Sarto, F; Sarto, MS, Piezoelectric Thin Films of ZnO-Nanorods/Nanowalls Grown by Chemical Bath Deposition, IEEE TRANSACTIONS ON NANOTECHNOLOGY 17, 311 (2018) http://dx.doi.org/10.1109/TNANO.2018.2800406
Xu, XL; Jia, YM; Xiao, LB; Wu, Z, Strong vibration-catalysis of ZnO nanorods for dye wastewater decolorization via piezo-electro-chemical coupling, CHEMOSPHERE 193, 1143 (2018) http://dx.doi.org/10.1016/j.chemosphere.2017.11.116
Calahorra, Y; Ou, CL; Boughey, C; Kar-Narayan, S, Piezoelectric Semiconducting Nanowires, NANOWIRES FOR ENERGY APPLICATIONS 98, 445 (2018) http://dx.doi.org/10.1016/bs.semsem.2018.02.002
Datta, A; Mukherjee, D; Kar-Narayan, S, Ferroelectric and piezoelectric oxide nanostructured films for energy harvesting applications, METAL OXIDE-BASED THIN FILM STRUCTURES: FORMATION, CHARACTERIZATION, AND APPLICATION OF INTERFACE-BASED PHENOMENA , 465 (2018) http://dx.doi.org/10.1016/B978-0-12-811166-6.00019-4
Lin, BC; Ku, CS; Lee, HY; Chakroborty, S; Wu, AT, Analysis of arrayed nanocapacitor formed on nanorods by flow-rate interruption atomic layer deposition, APPLIED SURFACE SCIENCE 426, 224 (2017) http://dx.doi.org/10.1016/j.apsusc.2017.07.151
Quintana, A; Gomez, A; Baro, MD; Surinach, S; Pellicer, E; Sort, J, Self-templating faceted and spongy single-crystal ZnO nanorods: Resistive switching and enhanced piezoresponse, MATERIALS & DESIGN 133, 54 (2017) http://dx.doi.org/10.1016/j.matdes.2017.07.039
Lin, BC; Ku, CS; Lee, HY; Wu, AT, Epitaxial growth of ZnO nanorod arrays via a self-assembled microspheres lithography, APPLIED SURFACE SCIENCE 414, 212 (2017) http://dx.doi.org/10.1016/j.apsusc.2017.04.042
Stojadinovic, S; Tadic, N; Radic, N; Grbic, B; Vasilic, R, MgO/ZnO coatings formed on magnesium alloy AZ31 by plasma electrolytic oxidation: Structural, photoluminescence and photocatalytic investigation, SURFACE & COATINGS TECHNOLOGY 310, 98 (2017) http://dx.doi.org/10.1016/j.surfcoat.2016.12.073
Sun, X; Shen, YW; Lin, P; Kang, Z; Zhang, Y, Property Characterisation and Optimisation, ZNO NANOSTRUCTURES: FABRICATION AND APPLICATIONS , 60 (2017)
Wang, Y; Peng, ZJ; Wang, Q; Fu, XL, Tunable electrical resistivity of oxygen-deficient zinc oxide thin films, SURFACE ENGINEERING 33, 217 (2017) http://dx.doi.org/10.1080/02670844.2016.1212519
Bera, S; Khan, H; Biswas, I; Jana, S, Polyaniline hybridized surface defective ZnO nanorods with long-term stable photoelectrochemical activity, APPLIED SURFACE SCIENCE 383, 165 (2016) http://dx.doi.org/10.1016/j.apsusc.2016.05.009
Zhao, M; Huang, D; Zhuo, Y; Chai, YQ; Yuan, R, Novel tri-layer self-enhanced Ru(II) complex-based nanoparicles for signal-on electrochemiluminescent aptasensor construction, ELECTROCHIMICA ACTA 212, 734 (2016) http://dx.doi.org/10.1016/j.electacta.2016.07.048

Zhang, YZ; Xu, JP; Shi, SB; Gao, YY; Wang, C; Zhang, XS; Yin, SG; Li, L, Development of Solution-Processed ZnO Nanorod Arrays Based Photodetectors and the Improvement of UV Photoresponse via AZO Seed Layers, ACS APPLIED MATERIALS & INTERFACES 8, 22647 (2016) http://dx.doi.org/10.1021/acsami.6b06700					
Rani, M; Tripathi, SK, Electron transfer properties of organic dye sensitized ZnO and ZnO/TiO2 photoanode for dye sensitized solar cells, RENEWABLE & SUSTAINABLE ENERGY REVIEWS 61, 97 (2016) http://dx.doi.org/10.1016/j.rser.2016.03.012					
Boughey, FL; Davies, T; Datta, A; Whiter, RA; Sahonta, SL; Kar-Narayan, S, Vertically aligned zinc oxide nanowires electrodeposited within porous polycarbonate templates for vibrational energy harvesting, NANOTECHNOLOGY 27, 28LT02 (2016) http://dx.doi.org/10.1088/0957-4484/27/28/28LT02					
38	J. Schwenk, H. J. Hug, M. A. Marioni, T. Hauet, M. Hehn, F. Abreu Araujo, **V. A. Antohe**, S. K. Srivastava and L. Piraux, *"Capacitive distance control for measuring particulate magnetic media with magnetic force microscopy"* , in IEEE International Magnetics Conference (INTERMAG 2015) Proceedings, Beijing, China (May 2015), doi: 10.1109/INTMAG.2015.7156676, **IF: N/A**, **AIS: N/A**	0	9	7.000	**0.000**
39	D. Sallagoity, C. Elissalde, J. Majimel, R. Berthelot, U. Chan Chung, N. Penin, M. Maglione, **V. A. Antohe**, G. Hamoir, F. Abreu Araujo and L. Piraux, *"Synthesis and magnetic properties of Ni-BaTiO $_3$ nanocable arrays within ordered anodic alumina templates"* , J. Mater. Chem. C **3(1)**, 107-111 (2015), doi: 10.1039/c4tc02261k, **IF: 5.066**, **AIS: 1.119**	6	11	8.000	**0.750**
Revathy, R; Thankachan, RM; Kalarikkal, N; Varma, MR; Surendran, KP, Sea urchin-like Ni encapsulated with BaTiO3 to form multiferroic core-shell structures for room temperature magnetoelectric sensors, JOURNAL OF ALLOYS AND COMPOUNDS 881, 160579 (2021) http://dx.doi.org/10.1016/j.jallcom.2021.160579					
Revathy, R; Kaipamangalath, A; Varma, MR; Surendran, KP, BaTiO3 nanoparticle-decorated hierarchical Ni nanowire assemblies for magnetoelectric applications, NEW JOURNAL OF CHEMISTRY 44, 3690 (2020) http://dx.doi.org/10.1039/c9nj05532k					
Revathy, R; Kaipamangalath, A; Surendran, KP; Varma, MR, Synthesis and characterization of Ni-BaTiO3-PDMS composite for flexible magnetoelectric applications, 3RD INTERNATIONAL CONFERENCE ON CONDENSED MATTER & APPLIED PHYSICS (ICC-2019) 2220, 110036 (2020) http://dx.doi.org/10.1063/5.0001765					
Elissalde, C; Chung, UC; Roulland, F; Berthelot, R; Artemenko, A; Majimel, J; Basov, S; Piraux, L; Nysten, B; Mornet, S; Aymonier, C; Estournes, C; Maglione, M, Specific core-shell approaches and related properties in nanostructured ferroelectric ceramics, FERROELECTRICS 532, 138 (2018) http://dx.doi.org/10.1080/00150193.2018.1499408					
Rasly, M; Afifi, M; Shalan, AE; Rashad, MM, A quantitative model based on an experimental study for the magnetoelectric coupling at the interface of cobalt ferrite-barium titanate nanocomposites, APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING 123, 331 (2017) http://dx.doi.org/10.1007/s00339-017-0954-x					
Wang, L; Li, ZY; Jiang, J; An, TY; Qin, HW; Hu, JF, Sample-size resonance, ferromagnetic resonance and magneto-permittivity resonance in multiferroic nano-BiFeO3/paraffin composites at room temperature, JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 421, 71 (2017) http://dx.doi.org/10.1016/j.jmmm.2016.07.073					
40	**V. A. Antohe***, M. Mickan, F. Henry, R. Delamare, L. Gence and L. Piraux, *"Self-seeded electrochemical growth of ZnO nanorods using textured glass/Al-doped ZnO substrates"* , Appl. Surf. Sci. **313**, 607-614 (2014), doi: 10.1016/j.apsusc.2014.06.031, **IF: 2.711**, **AIS: 0.549**	15	6	5.500	**2.727**
Zhao, YF; Ding, W; Xiao, YB; Yang, P, Manipulating the optoelectronic characteristic of AZO films by magnetron sputtering power, VACUUM 210, 111849 (2023) http://dx.doi.org/10.1016/j.vacuum.2023.111849					
Aida, MS; Hjiri, M; Alonizan, NH; Zarrad, B; Hammad, AH; Al Zahrani, MK, ZnO and Simonkolleite Nanocomposite Synthesis via Green Chemistry Using Hibiscus Flower Extract, ECS JOURNAL OF SOLID STATE SCIENCE AND TECHNOLOGY 10, 123016 (2021) http://dx.doi.org/10.1149/2162-8777/ac44f2					
Jose, FP; Achari, SR; Jayaraj, MK; Sukumaran, AA, Charge transfer mechanism of AZO-ZnO photoanode based on impedance study for solar cell application, JOURNAL OF ELECTROANALYTICAL CHEMISTRY 901, 115769 (2021) http://dx.doi.org/10.1016/j.jelechem.2021.115769					
Singh, SK; Tripathi, P; Sulania, I; Kumar, VVS; Kumar, P, Tuning the optical and electrical properties of magnetron-sputtered Cu-ZnO thin films using low energy Ar ion irradiation, OPTICAL MATERIALS 114, 110985 (2021) http://dx.doi.org/10.1016/j.optmat.2021.110985					
Wang, C; Xu, JP; Shi, SB; Zhang, YZ; Gao, YY; Liu, ZM; Zhang, XG; Li, L, Optimizing performance of Cu2O/ZnO nanorods heterojunction based self-powered photodetector with ZnO seed layer, JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS 103, 218 (2017) http://dx.doi.org/10.1016/j.jpcs.2016.12.026					
Chen, ZC; Tan, RQ; Yang, Y; Xu, H; Lu, YH; Zhu, CT; Song, WJ, Facile bottom-up growth of pyramidally textured ZnO:Al films by combined chemical bathing and DC sputtering deposition, JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS 27, 10764 (2016) http://dx.doi.org/10.1007/s10854-016-5180-3					
Zhang, YZ; Xu, JP; Shi, SB; Gao, YY; Wang, C; Zhang, XS; Yin, SG; Li, L, Development of Solution-Processed ZnO Nanorod Arrays Based Photodetectors and the Improvement of UV Photoresponse via AZO Seed Layers, ACS APPLIED MATERIALS & INTERFACES 8, 22647 (2016) http://dx.doi.org/10.1021/acsami.6b06700					
Raj, CC; Prasanth, R, A critical review of recent developments in nanomaterials for photoelectrodes in dye sensitized solar cells, JOURNAL OF POWER SOURCES 317, 120 (2016) http://dx.doi.org/10.1016/j.jpowsour.2016.03.016					

Campo, L; Navarrete-Astorga, E; Pereyra, CJ; Cuevas, A; Romero, R; Ariosa, D; Henriquez, R; Munoz, E; Marotti, RE; Martin, F; Ramos-Barrado, JR; Dalchiele, EA, The Effect of a Sputtered Al-Doped ZnO Seed Layer on the Morphological, Structural and Optical Properties of Electrochemically Grown ZnO Nanorod Arrays, JOURNAL OF THE ELECTROCHEMICAL SOCIETY 163, D392 (2016) http://dx.doi.org/10.1149/2.0611608jes					
Jing, JP; Chen, ZY; Bu, YY, Visible Light Induced Photoelectrochemical Cathodic Protection for 304 SS by In2S3-sensitized ZnO Nanorod Array, INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE 10, 8783 (2015)					
Zhao, JW; Xie, CS; Yang, L; Zhang, SP; Zhang, GZ; CaiState, ZM, Enhanced gas sensing performance of Li-doped ZnO nanoparticle film by the synergistic effect of oxygen interstitials and oxygen vacancies, APPLIED SURFACE SCIENCE 330, 126 (2015) http://dx.doi.org/10.1016/j.apsusc.2014.12.194					
Xu, H; Zhang, DD; Xu, AR; Wu, FM; Cao, RQ, Quantum Sized Zinc Oxide Immobilized on Bentonite Clay and Degradation of CI Acid Red 35 in Aqueous under Ultraviolet Light, INTERNATIONAL JOURNAL OF PHOTOENERGY 2015, 750869 (2015) http://dx.doi.org/10.1155/2015/750869					
Iftimie, S; Mallet, R; Merigeon, J; Ion, L; Girtan, M; Antohe, S, ON THE STRUCTURAL, MORPHOLOGICAL AND OPTICAL PROPERTIES OF ITO, ZnO, ZnO: Al AND NiO THIN FILMS OBTAINED BY THERMAL OXIDATION, DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES 10, 221 (2015)					
Noor, N; Chew, CKT; Bhachu, DS; Waugh, MR; Carmalt, CJ; Parkin, IP, Influencing FTO thin film growth with thin seeding layers: a route to microstructural modification, JOURNAL OF MATERIALS CHEMISTRY C 3, 9359 (2015) http://dx.doi.org/10.1039/c5tc02144h					
Yin, B; Qiu, Y; Zhang, HQ; Lei, JX; Chang, Y; Ji, JY; Luo, YM; Zhao, Y; Hu, LZ, Piezoelectric effect of 3-D ZnO nanotetrapods, RSC ADVANCES 5, 11469 (2015) http://dx.doi.org/10.1039/c4ra15432k					
41	T. Hauet, L. Piraux, S. K. Srivastava, **V. A. Antohe**, D. Lacour, M. Hehn, F. Montaigne, J. Schwenk, M. A. Marioni, H. J. Hug, O. Hovorka, A. Berger, S. Mangin and F. Abreu Araujo, *"Reversal mechanism, switching field distribution, and dipolar frustrations in Co/Pt bit pattern media based on auto-assembled anodic alumina hexagonal nanobump arrays"* , Phys. Rev. B **89**, 174421 (2014), doi: 10.1103/PhysRevB.89.174421, **IF: 3.736**, **AIS: 1.331**	26	14	9.500	**2.737**
Novakovic, M; Popovic, M; Rajic, V, Study on the structural and magnetic properties of e-beam evaporated Co thin films annealed in vacuum, J. Alloys and Compounds 937, 168411 (2023) http://dx.doi.org/10.1016/j.jallcom.2022.168411					
Vanstone, A; Gartside, JC; Stenning, KD; Dion, T; Arroo, DM; Branford, WR, Spectral fingerprinting: microstate readout via remanence ferromagnetic resonance in artificial spin ice, NEW JOURNAL OF PHYSICS 24, 43017 (2022) http://dx.doi.org/10.1088/1367-2630/ac608b					
Kang, PH; Zhou, GW; Ji, HH; Li, ZQ; Li, ZL; Xu, XH, Emergence of room-temperature perpendicular magnetic anisotropy in metallic NiCo2O4 thin film, JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 553, 169293 (2022) http://dx.doi.org/10.1016/j.jmmm.2022.169293					
Ateia, EE; Meleka, KK; Ghobrial, FZ, Interplay between cation distribution and magnetic properties for CoAlxFe2-xO4 0.0 <= x <= 0.7 nanoparticles, APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING 127, 831 (2021) http://dx.doi.org/10.1007/s00339-021-04974-z					
Ateia, EE; Ateia, MA; Arman, MM, Assessing of channel structure and magnetic properties on heavy metal ions removal from water, JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS 33, 8958 (2022) http://dx.doi.org/10.1007/s10854-021-07008-9					
Brahma, B; Behera, P; Ravi, S; Brahma, R; Srivastava, SK, Influence of Cu insertion layer on magnetic property of [Co(0.3 nm)/Ni(0.6 nm)](10)/Cu/[Co(0.3 nm)/Ni(0.6 nm)](10) spin valve thin films, APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING 127, 680 (2021) http://dx.doi.org/10.1007/s00339-021-04850-w					
Brahma, B; Hussain, R; Aakansha; Behera, P; Ravi, S; Brahma, R; Srivastava, SK, Tuning the perpendicular magnetic anisotropy of [Co(0.3nm)/Ni (0.6nm)]20 multilayer thin films, THIN SOLID FILMS 728, 138689 (2021) http://dx.doi.org/10.1016/j.tsf.2021.138689					
Talapatra, A; Adeyeye, AO, Coupled magnetic nanostructures: Engineering lattice configurations, APPLIED PHYSICS LETTERS 118, 172404 (2021) http://dx.doi.org/10.1063/5.0045235					
Talapatra, A; Chelvane, JA; Mohanty, J, Engineering perpendicular magnetic anisotropy in Tb-Fe-Co thin films using ion-beam irradiation, JOURNAL OF ALLOYS AND COMPOUNDS 861, 157953 (2021) http://dx.doi.org/10.1016/j.jallcom.2020.157953					
Hussain, R; Aakansha,; Ravi, S; Srivastava, SK, Magnetic properties of ordered array of nanobumps of [Co/Ni](4, 10, 20) multilayers, SOLID STATE COMMUNICATIONS 324, 114144 (2021) http://dx.doi.org/10.1016/j.ssc.2020.114144					
Tejo, F; Toneto, D; Oyarzun, S; Hermosilla, J; Danna, CS; Palma, JL; da Silva, RB; Dorneles, LS; Denardin, JC, Stabilization of Magnetic Skyrmions on Arrays of Self-Assembled Hexagonal Nanodomes for Magnetic Recording Applications, ACS APPLIED MATERIALS & INTERFACES 12, 53454 (2020) http://dx.doi.org/10.1021/acsami.0c14350					
Hussain, R; Aakansha; Brahma, B; Basumatary, R; Brahma, R; Ravi, S; Srivastava, SK, Magnetic Property of Thin Film of Co-Tb Alloys Deposited on the Barrier Layer of Ordered Anodic Alumina Templates, JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM 33, 1759 (2020) http://dx.doi.org/10.1007/s10948-020-05432-2					
Halder, M; Meikap, AK, Effect of surface modification on Tb doped bismuth ferrite nanofiller in polyvinyl alcohol based composite films, JOURNAL OF APPLIED PHYSICS 127, (2020) http://dx.doi.org/10.1063/5.0002481					
Kazakova, O; Puttock, R; Barton, C; Corte-Leon, H; Jaafar, M; Neu, V; Asenjo, A, Frontiers of magnetic force microscopy, JOURNAL OF APPLIED PHYSICS 125, 60901 (2019) http://dx.doi.org/10.1063/1.5050712					
Srivastava, SK; Hussain, R; Hauet, T; Piraux, L, Magnetization Reversal and Switching Field Distribution in Co-Tb based Bit Patterned Media, DAE SOLID STATE PHYSICS SYMPOSIUM 2018 2115, 30482 (2019) http://dx.doi.org/10.1063/1.5113321					
Saldanha, DR; Dugato, DA; Mori, TJA; Daudt, NF; Dorneles, LS; Denardin, JC, Tailoring the magnetic and magneto-transport properties of Pd/Co multilayers and pseudo-spin valve antidots, JOURNAL OF PHYSICS D-APPLIED PHYSICS 51, 395001 (2018) http://dx.doi.org/10.1088/1361-6463/aad7ad					
Ren, Y; Wang, Y; He, XD; Adeyeye, AO, Switching fields and their distributions in rounded-rectangle [Co/Pd](8) nanodots and nanorings with identical configuration, JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 452, 141 (2018) http://dx.doi.org/10.1016/j.jmmm.2017.12.027					

Talapatra, A; Mohanty, J, Anisotropy Induced Switching Field Distribution in High-Density Patterned Media, SPIN 7, 1750005 (2017) http://dx.doi.org/10.1142/S2010324717500059					
Michea, S; Oyarzun, S; Vidal, S; Denardin, JC, Enhanced Hall effect in Co/Pd multilayered nanodomes with perpendicular anisotropy, AIP ADVANCES 7, 56310 (2017) http://dx.doi.org/10.1063/1.4975489					
Ruta, S; Hovorka, O; Huang, PW; Wang, KK; Ju, GP; Chantrell, R, First order reversal curves and intrinsic parameter determination for magnetic materials; limitations of hysteron-based approaches in correlated systems, SCIENTIFIC REPORTS 7, 45218 (2017) http://dx.doi.org/10.1038/srep45218					
Zhao, XT; Liu, W; Dai, ZM; Li, D; Zhao, XG; Wang, ZH; Kim, D; Choi, CJ; Zhang, ZD, Weak dipolar interaction between CoPd multilayer nanodots for bit-patterned media application, MATERIALS LETTERS 182, 185 (2016) http://dx.doi.org/10.1016/j.matlet.2016.06.121					
Alikhani, M; Ramazani, A; Kashi, MA; Samanifar, S; Montazer, AH, Irreversible evolution of angular-dependent coercivity in Fe80Ni20 nanowire arrays: Detection of a single vortex state, JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 414, 158 (2016) http://dx.doi.org/10.1016/j.jmmm.2016.04.035					
Talapatra, A; Mohanty, J, Role of patterning induced defect on the switching field in magnetic nanostructure, APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING 122, (2016) http://dx.doi.org/10.1007/s00339-016-0341-z					
Hierro-Rodriguez, A; Rocha-Rodrigues, P; Valdes-Bango, F; Alameda, JM; Jorge, PAS; Santos, JL; Araujo, JP; Teixeira, JM; Guerreiro, A, On the anodic aluminium oxide refractive index of nanoporous templates, JOURNAL OF PHYSICS D-APPLIED PHYSICS 48, 455105 (2015) http://dx.doi.org/10.1088/0022-3727/48/45/455105					
Schwenk, J; Zhao, X; Bacani, M; Marioni, MA; Romer, S; Hug, HJ, Bimodal magnetic force microscopy with capacitive tip-sample distance control, APPLIED PHYSICS LETTERS 107, 132407 (2015) http://dx.doi.org/10.1063/1.4932174					
Pfau, B; Gunther, CM; Guehrs, E; Hauet, T; Hennen, T; Eisebitt, S; Hellwig, O, Influence of stray fields on the switching-field distribution for bit-patterned media based on pre-patterned substrates, APPLIED PHYSICS LETTERS 105, 132407 (2014) http://dx.doi.org/10.1063/1.4896982					
42	F. Abreu Araujo, L. Piraux, **V. A. Antohe**, V. Cros and L. Gence, *"Single spin-torque vortex oscillator using combined bottom-up approach and e-beam lithography"* , Appl. Phys. Lett. **102**, 222402 (2013), doi: 10.1063/1.4808451, **IF: 3.515**, **AIS: 1.217**	15	5	5.000	**3.000**
Fernandez-Roldan, JA; del Real, RP; Bran, C; Vazquez, M; Chubykalo-Fesenko, O, Electric current and field control of vortex structures in cylindrical magnetic nanowires, PHYSICAL REVIEW B 102, 24421 (2020) http://dx.doi.org/10.1103/PhysRevB.102.024421					
Piraux, L, Magnetic Nanowires, APPLIED SCIENCES-BASEL 10, 1832 (2020) http://dx.doi.org/10.3390/app10051832					
Cabria, I; Prida, VM, Magnetostatic dipolar anisotropy energy and anisotropy constants in arrays of ferromagnetic nanowires as a function of their radius and interwall distance, JOURNAL OF PHYSICS COMMUNICATIONS 4, 35015 (2020) http://dx.doi.org/10.1088/2399-6528/ab8179					
Roussigne, Y; Stashkevich, A; Cherif, SM; Vidal, F; Zheng, YL; Starkov, A, Bragg-type Brillouin spectroscopy of spin waves on ultrathin nickel nanowires, PHYSICAL REVIEW B 100, 134406 (2019) http://dx.doi.org/10.1103/PhysRevB.100.134406					
Wang, J; Pan, SL, Electrodeposition of vertically standing Ag nanoplates and nanowires on transparent conductive electrode using porous anodic aluminum oxide template, NANOTECHNOLOGY 28, 425601 (2017) http://dx.doi.org/10.1088/1361-6528/aa8614					
Zheng, Y; Chen, WJ, Characteristics and controllability of vortices in ferromagnetics, ferroelectrics, and multiferroics, REPORTS ON PROGRESS IN PHYSICS 80, 86501 (2017) http://dx.doi.org/10.1088/1361-6633/aa5e03					
Huang, HB; Zhao, CP; Ma, XQ, Simulation of stress-modulated magnetization precession frequency in Heusler-based spin torque oscillator, JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 426, 415 (2017) http://dx.doi.org/10.1016/j.jmmm.2016.11.114					
Araujo, FA; Piraux, L, Spin-Transfer-Torque Driven Vortex Dynamics in Electrodeposited Nanowire Spin-Valves, SPIN 7, 1740007 (2017) http://dx.doi.org/10.1142/S2010324717400070					
Chen, TS; Dumas, RK; Eklund, A; Muduli, PK; Houshang, A; Awad, AA; Durrenfeld, P; Malm, BG; Rusu, A; Akerman, J, Spin-Torque and Spin-Hall Nano-Oscillators, PROCEEDINGS OF THE IEEE 104, 1919 (2016) http://dx.doi.org/10.1109/JPROC.2016.2554518					
Arai, H; Matsumoto, R; Yuasa, S; Imamura, H, Spin-Torque Induced Oscillation of a Magnetoresistive Nanopillar with a Conically Magnetized Free Layer and an In-Plane Magnetized Reference Layer, JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN 85, 63802 (2016) http://dx.doi.org/10.7566/JPSJ.85.063802					
Medina, JD; Hamoir, G; Velazquez-Galvan, Y; Pouget, S; Okuno, H; Vila, L; Encinas, A; Piraux, L, Large magnetic anisotropy enhancement in size controlled Ni nanowires electrodeposited into nanoporous alumina templates, NANOTECHNOLOGY 27, 145702 (2016) http://dx.doi.org/10.1088/0957-4484/27/14/145702					
Locatelli, N; Hamadeh, A; Araujo, FA; Belanovsky, AD; Skirdkov, PN; Lebrun, R; Naletov, VV; Zvezdin, KA; Munoz, M; Grollier, J; Klein, O; Cros, V; de Loubens, G, Efficient Synchronization of Dipolarly Coupled Vortex-Based Spin Transfer Nano-Oscillators, SCIENTIFIC REPORTS 5, 17039 (2015) http://dx.doi.org/10.1038/srep17039					
Hierro-Rodriguez, A; Rocha-Rodrigues, P; Valdes-Bango, F; Alameda, JM; Jorge, PAS; Santos, JL; Araujo, JP; Teixeira, JM; Guerreiro, A, On the anodic aluminium oxide refractive index of nanoporous templates, JOURNAL OF PHYSICS D-APPLIED PHYSICS 48, 455105 (2015) http://dx.doi.org/10.1088/0022-3727/48/45/455105					
Ren, Y; Qu, L; Fan, JX; Dai, B; Wang, JB, A Way of Tailoring Magnetic Anisotropy of Co Nanowire Arrays: Magnetic Field Annealing, JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY 15, 4500 (2015) http://dx.doi.org/10.1166/jnn.2015.9715					
Ivanov, YP; Chubykalo-Fesenko, O, Micromagnetic simulations of cylindrical magnetic nanowires, MAGNETIC NANO- AND MICROWIRES: DESIGN, SYNTHESIS, PROPERTIES AND APPLICATIONS , 423 (2015) http://dx.doi.org/10.1016/B978-0-08-100164-6.00014-X					

43	L. Piraux, **V. A. Antohe**, F. Abreu Araujo, S. K. Srivastava, M. Hehn, D. Lacour, S. Mangin and T. Hauet, *"Periodic arrays of magnetic nanostructures by depositing Co/Pt multilayers on the barrier layer of ordered anodic alumina templates"* , Appl. Phys. Lett. **101**, 013110 (2012), doi: 10.1063/1.4731640, **IF: 3.794**, **AIS: 1.355**	17	8	6.500	**2.615**
Kang, PH; Zhou, GW; Ji, HH; Li, ZQ; Li, ZL; Xu, XH, Emergence of room-temperature perpendicular magnetic anisotropy in metallic NiCo2O4 thin film, JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 553, 169293 (2022) http://dx.doi.org/10.1016/j.jmmm.2022.169293					
Brahma, B; Behera, P; Ravi, S; Brahma, R; Srivastava, SK, Influence of Cu insertion layer on magnetic property of [Co(0.3 nm)/Ni(0.6 nm)](10)/Cu/[Co(0.3 nm)/Ni(0.6 nm)](10) spin valve thin films, APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING 127, 680 (2021) http://dx.doi.org/10.1007/s00339-021-04850-w					
Brahma, B; Hussain, R; Aakansha; Behera, P; Ravi, S; Brahma, R; Srivastava, SK, Tuning the perpendicular magnetic anisotropy of [Co(0.3nm)/Ni (0.6nm)]20 multilayer thin films, THIN SOLID FILMS 728, 138689 (2021) http://dx.doi.org/10.1016/j.tsf.2021.138689					
Hussain, R; Aakansha,; Ravi, S; Srivastava, SK, Magnetic properties of ordered array of nanobumps of [Co/Ni](4, 10, 20) multilayers, SOLID STATE COMMUNICATIONS 324, 114144 (2021) http://dx.doi.org/10.1016/j.ssc.2020.114144					
Tejo, F; Toneto, D; Oyarzun, S; Hermosilla, J; Danna, CS; Palma, JL; da Silva, RB; Dorneles, LS; Denardin, JC, Stabilization of Magnetic Skyrmions on Arrays of Self-Assembled Hexagonal Nanodomes for Magnetic Recording Applications, ACS APPLIED MATERIALS & INTERFACES 12, 53454 (2020) http://dx.doi.org/10.1021/acsami.0c14350					
Hussain, R; Aakansha; Brahma, B; Basumatary, R; Brahma, R; Ravi, S; Srivastava, SK, Magnetic Property of Thin Film of Co-Tb Alloys Deposited on the Barrier Layer of Ordered Anodic Alumina Templates, JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM 33, 1759 (2020) http://dx.doi.org/10.1007/s10948-020-05432-2					
Srivastava, SK; Hussain, R; Hauet, T; Piraux, L, Magnetization Reversal and Switching Field Distribution in Co-Tb based Bit Patterned Media, DAE SOLID STATE PHYSICS SYMPOSIUM 2018 2115, 30482 (2019) http://dx.doi.org/10.1063/1.5113321					
Saldanha, DR; Dugato, DA; Mori, TJA; Daudt, NF; Dorneles, LS; Denardin, JC, Tailoring the magnetic and magneto-transport properties of Pd/Co multilayers and pseudo-spin valve antidots, JOURNAL OF PHYSICS D-APPLIED PHYSICS 51, 395001 (2018) http://dx.doi.org/10.1088/1361-6463/aad7ad					
Nguyen, TNA; Fedotova, J; Kasiuk, J; Bayev, V; Kupreeva, O; Lazarouk, S; Manh, DH; Vu, DL; Chung, S; Kerman, J; Altynov, V; Maximenko, A, Effect of flattened surface morphology of anodized aluminum oxide templates on the magnetic properties of nanoporous Co/Pt and Co/Pd thin multilayered films, APPLIED SURFACE SCIENCE 427, 649 (2018) http://dx.doi.org/10.1016/j.apsusc.2017.08.238					
Michea, S; Oyarzun, S; Vidal, S; Denardin, JC, Enhanced Hall effect in Co/Pd multilayered nanodomes with perpendicular anisotropy, AIP ADVANCES 7, 56310 (2017) http://dx.doi.org/10.1063/1.4975489					
Zhao, XT; Liu, W; Dai, ZM; Li, D; Zhao, XG; Wang, ZH; Kim, D; Choi, CJ; Zhang, ZD, Weak dipolar interaction between CoPd multilayer nanodots for bit-patterned media application, MATERIALS LETTERS 182, 185 (2016) http://dx.doi.org/10.1016/j.matlet.2016.06.121					
Charilaou, M; Bordel, C; Berche, PE; Maranville, BB; Fischer, P; Hellman, F, Magnetic properties of ultrathin discontinuous Co/Pt multilayers: Comparison with short-range ordered and isotropic CoPt3 films, PHYSICAL REVIEW B 93, 224408 (2016) http://dx.doi.org/10.1103/PhysRevB.93.224408					
Makarov, D; Krone, P; Albrecht, M, Bit-Patterned Magnetic Recording, ULTRA-HIGH-DENSITY MAGNETIC RECORDING: STORAGE MATERIALS AND MEDIA DESIGNS , 327 (2016)					
Schwenk, J; Zhao, X; Bacani, M; Marioni, MA; Romer, S; Hug, HJ, Bimodal magnetic force microscopy with capacitive tip-sample distance control, APPLIED PHYSICS LETTERS 107, 132407 (2015) http://dx.doi.org/10.1063/1.4932174					
Ren, Y; Qu, L; Fan, JX; Dai, B; Wang, JB, A Way of Tailoring Magnetic Anisotropy of Co Nanowire Arrays: Magnetic Field Annealing, JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY 15, 4500 (2015) http://dx.doi.org/10.1166/jnn.2015.9715					
Li, WJ; Zhang, QT; Javed, K; Wei, HX; Chen, AT; Zhao, YG; Han, XF, Perpendicular Exchange Bias of [Pt/Co](5)/IrMn Multilayers on Self-Organized Hexagonally Patterned Nanodots, IEEE MAGNETICS LETTERS 6, 6700304 (2015) http://dx.doi.org/10.1109/LMAG.2015.2474535					
Briones, J; Toro, P; Encinas, A; Caballero, L; Denardin, JC; Melo, F; Cerda, E; Robert, S; Lacour, D; Montaigne, F, Large area patterned magnetic films by depositing cobalt layers on nano-wrinkled polydimethylsiloxane templates, APPLIED PHYSICS LETTERS 103, 72404 (2013) http://dx.doi.org/10.1063/1.4818677					
44	**V. A. Antohe***, L. Gence, S. K. Srivastava and L. Piraux, *"Template-free electrodeposition of highly oriented and aspect-ratio controlled ZnO hexagonal columnar arrays"* , Nanotechnology **23(25)**, 5602 (2012), doi: 10.1088/0957-4484/23/25/255602, **IF: 3.842**, **AIS: 1.205**	14	4	4.000	**3.500**
Zhao, YF; Ding, W; Xiao, YB; Yang, P, Manipulating the optoelectronic characteristic of AZO films by magnetron sputtering power, VACUUM 210, 111849 (2023) http://dx.doi.org/10.1016/j.vacuum.2023.111849					
Jose, FP; Achari, SR; Jayaraj, MK; Sukumaran, AA, Charge transfer mechanism of AZO-ZnO photoanode based on impedance study for solar cell application, JOURNAL OF ELECTROANALYTICAL CHEMISTRY 901, 115769 (2021) http://dx.doi.org/10.1016/j.jelechem.2021.115769					
Manzano, CV; Philippe, L; Serra, A, Recent progress in the electrochemical deposition of ZnO nanowires: synthesis approaches and applications, CRITICAL REVIEWS IN SOLID STATE AND MATERIALS SCIENCES 47, 772 (2022) http://dx.doi.org/10.1080/10408436.2021.1989663					
Singh, SK; Tripathi, P; Sulania, I; Kumar, VVS; Kumar, P, Tuning the optical and electrical properties of magnetron-sputtered Cu-ZnO thin films using low energy Ar ion irradiation, OPTICAL MATERIALS 114, 110985 (2021) http://dx.doi.org/10.1016/j.optmat.2021.110985					

Zhu, SJ; Tang, XW; Wei, RH; Hu, L; Zuo, XZ; Song, WH; Dai, JM; Zhu, XB; Sun, YP, Columnar CoFe2O4 thin films with improved magnetic properties via high magnetic field, JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 484, 95 (2019) http://dx.doi.org/10.1016/j.jmmm.2019.04.009					
Zhang, YZ; Xu, JP; Shi, SB; Gao, YY; Wang, C; Zhang, XS; Yin, SG; Li, L, Development of Solution-Processed ZnO Nanorod Arrays Based Photodetectors and the Improvement of UV Photoresponse via AZO Seed Layers, ACS APPLIED MATERIALS & INTERFACES 8, 22647 (2016) http://dx.doi.org/10.1021/acsami.6b06700					
Oliveira, FF; Proenca, MP; Araujo, JP; Ventura, J, Electrodeposition of ZnO thin films on conducting flexible substrates, JOURNAL OF MATERIALS SCIENCE 51, 5589 (2016) http://dx.doi.org/10.1007/s10853-016-9850-6					
Yilmaz, C; Unal, U, Effect of Zn(NO3)(2) concentration in hydrothermal-electrochemical deposition on morphology and photoelectrochemical properties of ZnO nanorods, APPLIED SURFACE SCIENCE 368, 456 (2016) http://dx.doi.org/10.1016/j.apsusc.2016.01.253					
Iftimie, S; Mallet, R; Merigeon, J; Ion, L; Girtan, M; Antohe, S, ON THE STRUCTURAL, MORPHOLOGICAL AND OPTICAL PROPERTIES OF ITO, ZnO, ZnO: Al AND NiO THIN FILMS OBTAINED BY THERMAL OXIDATION, DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES 10, 221 (2015)					
Chen, Z; Li, SJ; Zhang, WF, Pulse electrodeposition of ZnO/SnO2 composite films: Growth mechanism, structural and optical studies, JOURNAL OF ALLOYS AND COMPOUNDS 557, 274 (2013) http://dx.doi.org/10.1016/j.jallcom.2012.11.177					
Sima, M; Vasile, E; Sima, M, ZnO films and nanorod/shell arrays electrodeposited on PET-ITO electrodes, MATERIALS RESEARCH BULLETIN 48, 1581 (2013) http://dx.doi.org/10.1016/j.materresbull.2012.12.045					
Dai, SX; Li, YY; Du, ZL; Carter, KR, Electrochemical Deposition of ZnO Hierarchical Nanostructures from Hydrogel Coated Electrodes, JOURNAL OF THE ELECTROCHEMICAL SOCIETY 160, D156 (2013) http://dx.doi.org/10.1149/2.064304jes					
Rusli, NI; Tanikawa, M; Mahmood, MR; Yasui, K; Hashim, AM, Growth of High-Density Zinc Oxide Nanorods on Porous Silicon by Thermal Evaporation, MATERIALS 5, 2817 (2012) http://dx.doi.org/10.3390/ma5122817					
Galstyan, V; Comini, E; Baratto, C; Ponzoni, A; Faglia, G; Sberveglieri, G; Bontempi, E; Brisotto, M, Growth and Gas Sensing Properties of Self-Assembled Chain-Like ZnO Nanostructures, 2012 SIXTH INTERNATIONAL CONFERENCE ON SENSING TECHNOLOGY (ICST) , 827 (2012)					
45	**V. A. Antohe***, A. Radu, S. Matéfi-Tempfli and L. Piraux, *"Circuit Modeling on Polyaniline Functionalized Nanowire-Templated Micro-Interdigital Capacitors for pH Sensing"* , IEEE Trans. Nano 10(6), 1314-1320 (2011), doi: 10.1109/TNANO.2011.2136384, **IF: 2.292**, **AIS: 0.872**	8	4	4.000	**2.000**
Manjakkal, L; Szwagierczak, D; Dahiya, R, Metal oxides based electrochemical pH sensors: Current progress and future perspectives, PROGRESS IN MATERIALS SCIENCE 109, 100635 (2020) http://dx.doi.org/10.1016/j.pmatsci.2019.100635					
Abasi, S; Aggas, JR; Guiseppi-Elie, A, Physiochemical and morphological dependent growth of NIH/3T3 and PC-12 on polyaniline-chloride/chitosan bionanocomposites, MATERIALS SCIENCE AND ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS 99, 1304 (2019) http://dx.doi.org/10.1016/j.msec.2019.02.018					
Pilarczyk, K; Wlazlak, E; Przyczyna, D; Blachecki, A; Podborska, A; Anathasiou, V; Konkoli, Z; Szacilowski, K, Molecules, semiconductors, light and information: Towards future sensing and computing paradigms, COORDINATION CHEMISTRY REVIEWS 365, 23 (2018) http://dx.doi.org/10.1016/j.ccr.2018.03.018					
Weng, KY; Chang, YJ; Ho, CY; Liou, D; Huang, YT; Chung, WY; Chin, TY, Measurement of Impedimetric Ratio of Blood Cells Using Microfluidic Chip with ZnO Nanowires, JOURNAL OF MEDICAL AND BIOLOGICAL ENGINEERING 38, 150 (2018) http://dx.doi.org/10.1007/s40846-017-0333-2					
Chang, YJ; Zhou, XM; Yen, HR; Yeh, CL, Microfluidic Blood Typing Chip with Voltammetry Measurement, 2017 INTERNATIONAL CONFERENCE ON MECHANICAL, AERONAUTICAL AND AUTOMOTIVE ENGINEERING (ICMAA 2017) 108, 13008 (2017) http://dx.doi.org/10.1051/matecconf/201710813008					
Manjakkal, L; Cvejin, K; Kulawik, J; Zaraska, K; Socha, RP; Szwagierczak, D, X-ray photoelectron spectroscopic and electrochemical impedance spectroscopic analysis of RuO2-Ta2O5 thick film pH sensors, ANALYTICA CHIMICA ACTA 931, 47 (2016) http://dx.doi.org/10.1016/j.aca.2016.05.012					
Hong, Y; Cho, W; Kim, J; Hwng, S; Lee, E; Heo, D; Ku, M; Suh, JS; Yang, J; Kim, JH, Photothermal ablation of cancer cells using self-doped polyaniline nanoparticles, NANOTECHNOLOGY 27, 185104 (2016) http://dx.doi.org/10.1088/0957-4484/27/18/185104					
Manjakkal, L; Djurdjic, E; Cvejin, K; Kulawik, J; Zaraska, K; Szwagierczak, D, Electrochemical Impedance Spectroscopic Analysis of RuO2 Based Thick Film pH Sensors, ELECTROCHIMICA ACTA 168, 246 (2015) http://dx.doi.org/10.1016/j.electacta.2015.04.048					
46	A. Radu, S. Iftimie, V. Ghenescu, C. Beșleagă, **V. A. Antohe**, G. Bratina, L. Ion, S. Craciun, M. Gîrtan and Ș. Antohe, *"The Influence of LiF Layer and ZnO Nanoparticles Addings on the Performances of Flexible Photovoltaic Cells Based on Polymer Blends"* , Digest Journal of Nanomaterials and Biostructures **6(3)**, 1141-1148 (2011), **IF: 1.200**, **AIS: 0.230**	25	10	7.500	**3.333**
Abdullah, SJ; Lee, SJ; Park, JB; Kim, YS; Shin, HS; Kotta, A; Siddiqui, QT; Lee, YS; Seo, HK, Linear-Shaped Low-Bandgap Asymmetric Conjugated Donor Molecule for Fabrication of Bulk Heterojunction Small-Molecule Organic Solar Cells, MOLECULES 28(4), 1538 (2023), http://dx.doi.org/10.3390/molecules28041538					
Girtan, M, Carbon-based materials for future photonics devices. A parallel between electronics and photonics, OPTICAL MATERIALS 125, 112068 (2022) http://dx.doi.org/10.1016/j.optmat.2022.112068					
Petre, G; Stanculescu, A; Girtan, M; Socol, M; Breazu, C; Vacareanu, L; Preda, N; Rasoga, O; Stanculescu, F; Doroshkevich, AS, Organic Heterostructures with Indium-Free Transparent Conductor Electrode for Optoelectronic Applications, PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE 219, 2100521 (2022) http://dx.doi.org/10.1002/pssa.202100521					

Shelar, SG; Mahajan, VK; Patil, SP; Sonawane, GH, Effect of doping parameters on photocatalytic degradation of methylene blue using Ag doped ZnO nanocatalyst, SN APPLIED SCIENCES 2, 820 (2020) http://dx.doi.org/10.1007/s42452-020-2634-2					
Girtan, M; Mallet, R; Socol, M; Stanculescu, A, On the Physical Properties PEDOT:PSS Thin Films, MATERIALS TODAY COMMUNICATIONS 22, 100735 (2020) http://dx.doi.org/10.1016/j.mtcomm.2019.100735					
Al-Zanganawee, J; Iftimie, S; Pantazi, A; Mesterca, R; Jderu, A; Antohe, S; Enachescu, M, ON THE PHYSICAL PROPERTIES OF INVERTED PHOTOVOLTAIC STRUCTURES BASED ON P3OT:F-SWCNTs ACTIVE LAYER, JOURNAL OF OVONIC RESEARCH 14, 287 (2018)					
Pagare, PK; Torane, AP, Effect of deposition potential on efficiency of TiO2/Cu2O photoelectrochemical cells, JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS 29, 8473 (2018) http://dx.doi.org/10.1007/s10854-018-8860-3					
Dewasi, A; Mitra, A, Effect of variation of thickness of TiO2 on the photovoltaic performance of n-TiO2/p-Si heterostructure, JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS 28, 18075 (2017) http://dx.doi.org/10.1007/s10854-017-7751-3					
Stanculescu, A; Rasoga, O; Socol, M; Vacareanu, L; Grigoras, M; Socol, G; Stanculescu, F; Breazu, C; Matei, E; Preda, N; Girtan, M, MAPLE prepared heterostructures with oligoazomethine: Fullerene derivative mixed layer for photovoltaic applications, APPLIED SURFACE SCIENCE 417, 183 (2017) http://dx.doi.org/10.1016/j.apsusc.2017.03.053					
Al-Zanganawee, J; Iftimie, S; Pantazi, A; Brincoveanu, O; Mesterca, R; Radu, A; Antohe, S; Enachescu, M, ON THE MORPHOLOGICAL, ELECTRICAL AND PHOTOELECTRICAL PROPERTIES OF P3HT:F-SWCNTs BASED PHOTOVOLTAIC CELLS, JOURNAL OF OVONIC RESEARCH 13, 63 (2017)					
Girtan, M, Study of charge carriers' transport in organic solar cells by illumination area shifting, SOLAR ENERGY MATERIALS AND SOLAR CELLS 160, 430 (2017) http://dx.doi.org/10.1016/j.solmat.2016.11.011					
Maalej, O; Merigeon, J; Boulard, B; Girtan, M, Visible to near-infrared down-shifting in Tm3+ doped fluoride glasses for solar cells efficiency enhancement, OPTICAL MATERIALS 60, 235 (2016) http://dx.doi.org/10.1016/j.optmat.2016.07.047					
Al-Zanganawee, J; Al-Timimi, M; Pantazi, A; Brincoveanu, O; Moise, C; Mesterca, R; Balan, D; Iftimie, S; Enachescu, M, MORPHOLOGICAL AND OPTICAL PROPERTIES OF FUNCTIONALIZED SWCNTs: P3OT NANOCOMPOSITE THIN FILMS, PREPARED BY SPIN-COATING, JOURNAL OF OVONIC RESEARCH 12, 201 (2016)					
Stanculescu, A; Socol, G; Vacareanu, L; Socol, M; Rasoga, O; Breazu, C; Girtan, M; Stanculescu, F, MAPLE preparation and characterization of mixed arylenevinylene based oligomers:C-60 layers, APPLIED SURFACE SCIENCE 374, 278 (2016) http://dx.doi.org/10.1016/j.apsusc.2015.11.250					
Merigeon, J; Maalej, O; Boulard, B; Stanculescu, A; Leontie, L; Mardare, D; Girtan, M, Studies on Pr3+-Yb3+ codoped ZBLA as rare earth down convertor glasses for solar cells encapsulation, OPTICAL MATERIALS 48, 243 (2015) http://dx.doi.org/10.1016/j.optmat.2015.08.008					
Nurosyid, F; Suryana, R; Variani, VI; Triyana, K; Yusuf, Y; Abraha, K, Effect of composition ratio and illumination intensity on the internal parameters of ITO/PEDOT:PSS/MEH-PPV:PCBM/Al polymer photovoltaics, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS 16, 951 (2014)					
Girtan, M; Mallet, R, ON THE ELECTRICAL PROPERTIES OF TRANSPARENT ELECTRODES, PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE 15, 146 (2014)					
Baschir, L; Antohe, S; Radu, A; Constantineanu, R; Iftimie, S; Simandan, ID; Popescu, M, EFFECT OF CNTS AND METAL-PHTHALOCYANINES ADDING ON THE PHOTO-ELECTRICAL BEHAVIOR OF THE PHOTOVOLTAIC STRUCTURES BASED ON POLYMERIC BLENDS, DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES 8, 1645 (2013)					
Voicu, G; Oprea, O; Vasile, BS; Andronescu, E, ANTIBACTERIAL ACTIVITY OF ZINC OXIDE - GENTAMICIN HYBRID MATERIAL, DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES 8, 1191 (2013)					
Voicu, G; Oprea, O; Vasile, BS; Andronescu, E, PHOTOLUMINESCENCE AND PHOTOCATALYTIC ACTIVITY OF Mn-DOPED ZnO NANOPARTICLES, DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES 8, 667 (2013)					
Oprea, O; Vasile, OR; Voicu, G; Andronescu, E, THE INFLUENCE OF THE THERMAL TREATMENT ON LUMINESCENCE PROPERTIES OF ZnO, DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES 8, 747 (2013)					
Oprea, O; Vasile, OR; Voicu, G; Craciun, L; Andronescu, E, PHOTOLUMINESCENCE, MAGNETIC PROPERTIES AND PHOTOCATALYTIC ACTIVITY OF Gd3+ DOPED ZnO NANOPARTICLES, DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES 7, 1757 (2012)					
Vaiciulis, I; Girtan, M; Stanculescu, A; Leontie, L; Habelhames, F; Antohe, S, ON TITANIUM OXIDE SPRAY DEPOSITED THIN FILMS FOR SOLAR CELLS APPLICATIONS, PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE 13, 335 (2012)					
Iftimie, S; Radu, A; Radu, M; Besleaga, C; Pana, I; Craciun, S; Girtan, M; Ion, L; Antohe, S, INFLUENCE OF PEDOT:PSS LAYER ON THE PERFORMANCES OF BULK-HETEROJUNCTION PHOTOVOLTAIC CELLS BASED ON MEH-PPV:PCBM(1:4) POLYMERIC BLENDS, DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES 6, 1631 (2011)					
Oprea, O; Andronescu, E; Vasile, BS; Voicu, G; Covaliu, C, SYNTHESIS AND CHARACTERIZATION OF ZnO NANOPOWDER BY NON-BASIC ROUTE, DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES 6, 1393 (2011)					
47	C. Florica, I. Arghir, L. Ion, I. Enculescu, **V. A. Antohe**, A. Radu, M. Radu, G. Chisulescu, N. Dina and Ş. Antohe, *"Production and Characterization of CdTe Wire Arrays for Hybrid Inorganic/Organic Photovoltaic Cells"* , Digest Journal of Nanomaterials and Biostructures **6(1)**, 21-27 (2011), **IF: 1.200**, **AIS: 0.230**	7	10	7.500	**0.933**
Suchikova, Y; Lazarenko, A; Kovachov, S; Bardus, I; Bohdanov, I, Formation of CdO/CdS/textured-ZnO/ZnO heterostructures by chemical deposition, PHYSICS AND CHEMISTRY OF SOLID STATE 23, 361 (2022) http://dx.doi.org/10.15330/pcss.23.2.361-367					
Makhlouf, MM; Shehata, MM, Improvement of photoresponse in an isatin hydrazone/CdTe hybrid heterostructure device via ZnO chelation for photovoltaic applications, SOLAR ENERGY 211, 1128 (2020) http://dx.doi.org/10.1016/j.solener.2020.10.031					
Bindra, HS; Kumar, ABVK; Roy, SC; Kumeria, T; Nayak, R, An improved strategy for transferring and adhering thin nanoporous alumina membranes onto conducting transparent electrodes for template assisted electrodeposition of high aspect ratio semiconductor nanowires with increased optical absorption, NANOTECHNOLOGY 30, 95301 (2019) http://dx.doi.org/10.1088/1361-6528/aae6e4					
Vengrenovich, RD; Ivanskii, BV; Panko, II; Moskaliuk, AV; Yarema, SV; Kryvetskyi, VI; Stasyk, MO, TO THE COARSENING MECHANISM OF Pt NANOPARTICLES DURING SINTERING, ROMANIAN JOURNAL OF PHYSICS 61, 553 (2016)					

Kozlik, M; Paulke, S; Gruenewald, M; Forker, R; Fritz, T, Determination of the optical constants of alpha- and beta-zinc (II)-phthalocyanine films, ORGANIC ELECTRONICS 13, 3291 (2012) http://dx.doi.org/10.1016/j.orgel.2012.09.030					
Ben Dkhil, S; Bourguiga, R; Davenas, J; Cornu, D, Influence of the polymer matrix on the efficiency of hybrid solar cells based on silicon nanowires, MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS 177, 173 (2012) http://dx.doi.org/10.1016/j.mseb.2011.10.004					
Dina, N; Craciun, S; Bulgariu, M; Antohe, S, TEACHING OF ALTERNATIVE ENERGY SOURCES IN ROMANIAN SCHOOL, ROMANIAN REPORTS IN PHYSICS 64, 868 (2012)					
48	S. Iftimie, A. Majkic, C. Beșleagă, **V. A. Antohe**, A. Radu, M. Radu, I. Arghir, C. Florica, L. Ion, G. Bratina and Ș. Antohe, *"Study of electrical and optical properties of ITO/PEDOT/P3HT:PCBM(1:1)/LiF/Al photovoltaic structures"* , J. Optoelectron. Adv. Mat. **12(10)**, 2171-2175 (2010), **IF: 0.412**, **AIS: 0.113**	3	11	8.000	**0.375**
Dewasi, A; Mitra, A, Effect of variation of thickness of TiO2 on the photovoltaic performance of n-TiO2/p-Si heterostructure, JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS 28, 18075 (2017) http://dx.doi.org/10.1007/s10854-017-7751-3					
Suzuki, A; Ohtsuki, T; Oku, T; Akiyama, T, Fabrication and characterization of tetracyanoquinodimethane/phthalocyanine solar cells, MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS 177, 877 (2012) http://dx.doi.org/10.1016/j.mseb.2012.03.052					
Iftimie, S; Radu, A; Radu, M; Besleaga, C; Pana, I; Craciun, S; Girtan, M; Ion, L; Antohe, S, INFLUENCE OF PEDOT:PSS LAYER ON THE PERFORMANCES OF BULK-HETEROJUNCTION PHOTOVOLTAIC CELLS BASED ON MEH-PPV:PCBM(1:4) POLYMERIC BLENDS, DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES 6, 1631 (2011)					
49	L. Ion, I. Enculescu, S. Iftimie, V. Ghenescu, C. Tazlaoanu, C. Beșleagă, T. L. Mitran, **V. A. Antohe**, M. M. Gugiu and Ș. Antohe, *"Effects of Proton Irradiation on the Spectral Performance of Photovoltaic Cells Based on CdS/CdTe Thin Films"* , Chalcogenide Letters **7(8)**, 521-530 (2010), **IF: 0.836**, **AIS: 0.174**	19	10	7.500	**2.533**
Abdullah, SJ; Lee, SJ; Park, JB; Kim, YS; Shin, HS; Kotta, A; Siddiqui, QT; Lee, YS; Seo, HK, Linear-Shaped Low-Bandgap Asymmetric Conjugated Donor Molecule for Fabrication of Bulk Heterojunction Small-Molecule Organic Solar Cells, MOLECULES 28(4), 1538 (2023), http://dx.doi.org/10.3390/molecules28041538					
Mohamed, HA; Taya, YA, Theoretical analysis of the effect of doping and minority charge carrier life time in CIGS solar cells, OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS 15, 157 (2021)					
Lorinczi, A; Badica, P; Botila, T; Ciurea, M; Velea, A; Popescu, A; Socol, G; Antohe, S; Nedelcu, N; Sobetkii, A, Chalcogenide Science in Romania, PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS 257, 2000284 (2020) http://dx.doi.org/10.1002/pssb.202000284					
Wang, K; Wu, CC; Hou, YC; Yang, D; Priya, S, Monocrystalline perovskite wafers/thin films for photovoltaic and transistor applications, JOURNAL OF MATERIALS CHEMISTRY A 7, 24661 (2019) http://dx.doi.org/10.1039/c9ta08823g					
Dewasi, A; Mitra, A, UV-visible light detection with TiO2 thin film deposited on chemically textured p-Si substrate, JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS 29, 9209 (2018) http://dx.doi.org/10.1007/s10854-018-8949-8					
Pagare, PK; Torane, AP, Effect of deposition potential on efficiency of TiO2/Cu2O photoelectrochemical cells, JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS 29, 8473 (2018) http://dx.doi.org/10.1007/s10854-018-8860-3					
Dewasi, A; Mitra, A, Effect of variation of thickness of TiO2 on the photovoltaic performance of n-TiO2/p-Si heterostructure, JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS 28, 18075 (2017) http://dx.doi.org/10.1007/s10854-017-7751-3					
Zhang, XW; Mao, J; Shao, ZB; Diao, SL; Hu, D; Tang, ZJ; Wu, HH; Jie, JS, Efficient photovoltaic devices based on p-ZnSe/n-CdS core-shell heterojunctions with high open-circuit voltage, JOURNAL OF MATERIALS CHEMISTRY C 5, 2107 (2017) http://dx.doi.org/10.1039/c6tc04960e					
Ion, L; Ghenescu, V; Ghenescu, M; Gugiu, MM; Iftimie, S; Radu, A; Vasile, N; Toma, O; Antohe, S, NEW STUDIES OF THE IONIZING IRRADIATION EFFECTS ON CdS/CdTe HETEROJUNCTION, ROMANIAN REPORTS IN PHYSICS 67, 1570 (2015)					
Toma, O; Antohe, S, OPTICAL AND MORPHOLOGICAL INVESTIGATIONS OF THERMALLY VACUUM EVAPORATED ZnTe THIN FILMS, CHALCOGENIDE LETTERS 11, 611 (2014)					
Toma, O; Ion, L; Girtan, M; Antohe, S, Optical, morphological and electrical studies of thermally vacuum evaporated CdTe thin films for photovoltaic applications, SOLAR ENERGY 108, 51 (2014) http://dx.doi.org/10.1016/j.solener.2014.06.031					
Rahman, MYA; Umar, AA; Saad, SKM; Salleh, MM; Ishaq, A, Effect of Dye on the Performance of Nitrogen Doped TiO2 Solar Cell Prepared via Ammonia Treated Liquid Phase Deposition Technique, JOURNAL OF NEW MATERIALS FOR ELECTROCHEMICAL SYSTEMS 17, 33 (2014) http://dx.doi.org/10.14447/jnmes.v17i1.441					
Iftimie, S; Tazlaoanu, C; Radu, A; Constantineanu, R; Vancea, C; Korganci, N; Ion, L; Antohe, S, THE SPECTRAL RESPONSE OF THE PHOTOVOLTAIC CELLS BASED ON CdS/CdTe HETEROJUNCTION WITH DIFFERENT TCO'S, DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES 9, 213 (2014)					
Zeng, GG; Zhang, JQ; He, XL; Li, B; Wu, LL; Feng, LH, The Effect of Irradiation on the Mechanism of Charge Transport of CdTe Solar Cell, 2013 IEEE 39TH PHOTOVOLTAIC SPECIALISTS CONFERENCE (PVSC) , 2801 (2013)					
Antohe, S; Ghenescu, V; Iftimie, S; Radu, A; Toma, O; Ion, L, EFFECTS OF ALPHA PARTICLES IRRADIATION ON THE PHOTO-ELECTRICAL PROPERTIES OF CdS/CdTe HETEROJUNCTIONS, DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES 7, 941 (2012)					
Antohe, S; Iftimie, S; Ghenescu, V; Constantineanu, R; Gugiu, MM; Ion, M; Stan, I; Radu, A; Ion, L, EFFECT OF PROTONS IRRADIATION ON THE PERFORMANCES OF CdS/CdTe PHOTOVOLTAIC CELLS FOR SPACE APPLICATIONS, ROMANIAN REPORTS IN PHYSICS 64, 1153 (2012)					

Toma, O; Iftimie, S; Besleaga, C; Mitran, TL; Ghenescu, V; Porumb, O; Toderas, A; Radu, M; Ion, L; Antohe, S, NEW INVESTIGATIONS APPLIED ON CADMIUM SULFIDE THIN FILMS FOR PHOTOVOLTAIC APPLICATIONS, CHALCOGENIDE LETTERS 8, 747 (2011)					
Toma, O; Pascu, R; Dinescu, M; Besleaga, C; Mitran, TL; Scarisoreanu, N; Antohe, S, GROWTH AND CHARACTERIZATION OF NANOCRYSTALLINE CdS THIN FILMS, CHALCOGENIDE LETTERS 8, 541 (2011)					
Radu, M; Ghenescu, V; Stan, I; Ion, L; Besleaga, C; Nicolaev, A; Mitran, TL; Tazlaoanu, C; Radu, A; Porumb, O; Ghenescu, M; Gugiu, MM; Antohe, S, PHOTOVOLTAIC PROPERTIES OF THE CdS/CdTe HETEROJUNCTION SOLAR CELLS BEFORE AND AFTER PROTON IRRADIATION, CHALCOGENIDE LETTERS 8, 477 (2011)					
50	L. Ion, V. Ghenescu, S. Iftimie, **V. A. Antohe**, A. Radu, M. Gugiu, G. Velisa, O. Porumb and Ș. Antohe, *"Temperature dependent resistivity and Hall effect in proton irradiated CdS thin films"* , Optoelectron Adv. Mat. – Rapid Comm. **4(8)**, 1114-1117 (2010), **IF: 0.477**, **AIS: 0.078**	6	9	7.000	**0.857**
Toma, O; Antohe, S, OPTICAL AND MORPHOLOGICAL INVESTIGATIONS OF THERMALLY VACUUM EVAPORATED ZnTe THIN FILMS, CHALCOGENIDE LETTERS 11, 611 (2014)					
Iftimie, S; Tazlaoanu, C; Radu, A; Constantineanu, R; Vancea, C; Korganci, N; Ion, L; Antohe, S, THE SPECTRAL RESPONSE OF THE PHOTOVOLTAIC CELLS BASED ON CdS/CdTe HETEROJUNCTION WITH DIFFERENT TCO'S, DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES 9, 213 (2014)					
Toma, O; Iftimie, S; Besleaga, C; Mitran, TL; Ghenescu, V; Porumb, O; Toderas, A; Radu, M; Ion, L; Antohe, S, NEW INVESTIGATIONS APPLIED ON CADMIUM SULFIDE THIN FILMS FOR PHOTOVOLTAIC APPLICATIONS, CHALCOGENIDE LETTERS 8, 747 (2011)					
Senthamilselvi, V; Saravanakumar, K; Anandhi, R; Ravichandran, AT; Ravichandran, K, Effect of annealing on the stoichiometry of CdS films deposited by SILAR technique, OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS 5, 1072 (2011)					
Toma, O; Pascu, R; Dinescu, M; Besleaga, C; Mitran, TL; Scarisoreanu, N; Antohe, S, GROWTH AND CHARACTERIZATION OF NANOCRYSTALLINE CdS THIN FILMS, CHALCOGENIDE LETTERS 8, 541 (2011)					
Radu, M; Ghenescu, V; Stan, I; Ion, L; Besleaga, C; Nicolaev, A; Mitran, TL; Tazlaoanu, C; Radu, A; Porumb, O; Ghenescu, M; Gugiu, MM; Antohe, S, PHOTOVOLTAIC PROPERTIES OF THE CdS/CdTe HETEROJUNCTION SOLAR CELLS BEFORE AND AFTER PROTON IRRADIATION, CHALCOGENIDE LETTERS 8, 477 (2011)					
51	**V. A. Antohe***, A. Radu, M. Matéfi-Tempfli, A. Attout, S. Yunus, P. Bertrand, C. A. Dutu, A. Vlad, S. Melinte, S. Matéfi-Tempfli and Luc Piraux, *"Nanowire-templated microelectrodes for high-sensitivity pH detection"* , Appl. Phys. Lett. **94(7)**, 3118 (2009), doi: 10.1063/1.3089227, **IF: 3.554**, **AIS: 1.348**	20	11	8.000	**2.500**
Kiymaz, D; Kiymaz, A; Dincalp, H; Zafer, C, Enhanced performance of ultra-thin polyaniline supercapacitor via aniline blue-WS SAMs with rich nucleation site, JOURNAL OF PHYSICS D-APPLIED PHYSICS 54, 315501 (2021) http://dx.doi.org/10.1088/1361-6463/abff7c					
Xie, BX; Lei, L; Xu, JH; Xu, SQ, Citric acid coated K2GdF7:Ce/Tb nanocrystals for broad and reversible photoluminescence pH sensing, JOURNAL OF ALLOYS AND COMPOUNDS 834, 155223 (2020) http://dx.doi.org/10.1016/j.jallcom.2020.155223					
Garcia, C; Rosa, WO; Garcia, J; Prida, VM; Hernando, B; Lopez, JA; Vargas, P; Ross, CA, Magnetization Reversal in Radially Distributed Nanowire Arrays, JOURNAL OF PHYSICAL CHEMISTRY C 122, 5124 (2018) http://dx.doi.org/10.1021/acs.jpcc.7b10799					
Wang, J; Pan, SL, Electrodeposition of vertically standing Ag nanoplates and nanowires on transparent conductive electrode using porous anodic aluminum oxide template, NANOTECHNOLOGY 28, 425601 (2017) http://dx.doi.org/10.1088/1361-6528/aa8614					
Radu, A; Iftimie, S; Ion, L; Antohe, S; Dragoman, D, Ni-BASED NANOWIRE ARRAYS AS CHEMICAL AND MAGNETIC FIELD SENSORS, PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE 18, 207 (2017)					
Hong, Y; Cho, W; Kim, J; Hwng, S; Lee, E; Heo, D; Ku, M; Suh, JS; Yang, J; Kim, JH, Photothermal ablation of cancer cells using self-doped polyaniline nanoparticles, NANOTECHNOLOGY 27, 185104 (2016) http://dx.doi.org/10.1088/0957-4484/27/18/185104					
Hierro-Rodriguez, A; Rocha-Rodrigues, P; Valdes-Bango, F; Alameda, JM; Jorge, PAS; Santos, JL; Araujo, JP; Teixeira, JM; Guerreiro, A, On the anodic aluminium oxide refractive index of nanoporous templates, JOURNAL OF PHYSICS D-APPLIED PHYSICS 48, 455105 (2015) http://dx.doi.org/10.1088/0022-3727/48/45/455105					
Vlad, A; Singh, N; Galande, C; Ajayan, PM, Design Considerations for Unconventional Electrochemical Energy Storage Architectures, ADVANCED ENERGY MATERIALS 5, 1402115 (2015) http://dx.doi.org/10.1002/aenm.201402115					
Hottes, M; Dassinger, F; Muench, F; Rauber, M; Stegmann, C; Schlaak, HF; Ensinger, W, Patterned arrays of capped platinum nanowires with quasi-elastic mechanical response to lateral force, APPLIED PHYSICS LETTERS 106, 53109 (2015) http://dx.doi.org/10.1063/1.4907550					
Roinila, T; Yu, X; Verho, J; Li, T; Kallio, P; Vilkko, M; Gao, AR; Wang, YL, Methods for rapid frequency-domain characterization of leakage currents in silicon nanowire-based field-effect transistors, BEILSTEIN JOURNAL OF NANOTECHNOLOGY 5, 964 (2014) http://dx.doi.org/10.3762/bjnano.5.110					
Walewyns, T; Reckinger, N; Ryelandt, S; Pardoen, T; Raskin, JP; Francis, LA, Polyimide as a versatile enabling material for microsystems fabrication: surface micromachining and electrodeposited nanowires integration, JOURNAL OF MICROMECHANICS AND MICROENGINEERING 23, 95021 (2013) http://dx.doi.org/10.1088/0960-1317/23/9/095021					
Zhao, Y; Cao, L; Ouyang, J; Wang, M; Wang, K; Xia, XH, Reversible Plasmonic Probe Sensitive for pH in Micro/Nanospaces Based on i-Motif-Modulated Morpholino-Gold Nanoparticle Assembly, ANALYTICAL CHEMISTRY 85, 1053 (2013) http://dx.doi.org/10.1021/ac302915a					

Bruggemann, D, Nanoporous Aluminium Oxide Membranes as Cell Interfaces, JOURNAL OF NANOMATERIALS 2013, 460870 (2013) http://dx.doi.org/10.1155/2013/460870					
Hong, CT; Chu, L; Lai, WC; Chiang, AS; Fang, WL, Implementation of a New Capacitive Touch Sensor Using the Nanoporous Anodic Aluminum Oxide (np-AAO) Structure, IEEE SENSORS JOURNAL 11, 3409 (2011) http://dx.doi.org/10.1109/JSEN.2011.2160255					
Long, YZ; Li, MM; Gu, CZ; Wan, MX; Duvail, JL; Liu, ZW; Fan, ZY, Recent advances in synthesis, physical properties and applications of conducting polymer nanotubes and nanofibers, PROGRESS IN POLYMER SCIENCE 36, 1415 (2011) http://dx.doi.org/10.1016/j.progpolymsci.2011.04.001					
Carreon-Gonzalez, CE; Medina, JD; Piraux, L; Encinas, A, Electrodeposition Growth of Nanowire Arrays with Height Gradient Profiles for Microwave Device Applications, NANO LETTERS 11, 2023 (2011) http://dx.doi.org/10.1021/nl2003939					
Walewyns, T; Scheen, G; Tooten, E; Francis, LA, Synthesis of patterned freestanding Nickel nanowires by using ion track-etched polyimide, BIOELECTRONICS, BIOMEDICAL, AND BIOINSPIRED SYSTEMS V AND NANOTECHNOLOGY V 8068, 806815 (2011) http://dx.doi.org/10.1117/12.886775					
Narakathu, BB; Atashbar, MZ; Bejcek, BE, Improved detection limits of toxic biochemical species based on impedance measurements in electrochemical biosensors, BIOSENSORS & BIOELECTRONICS 26, 923 (2010) http://dx.doi.org/10.1016/j.bios.2010.06.051					
Ren, Y; Dai, YY; Zhang, B; Liu, QF; Xue, DS; Wang, JB, Tunable Magnetic Properties of Heterogeneous Nanobrush: From Nanowire to Nanofilm, NANOSCALE RESEARCH LETTERS 5, 853 (2010) http://dx.doi.org/10.1007/s11671-010-9574-5					
Kartopu, G; Yalcin, O, Fabrication and Applications of Metal Nanowire Arrays Electrodeposited in Ordered Porous Templates, ELECTRODEPOSITED NANOWIRES AND THEIR APPLICATIONS , 113 (2010)					
52	S. Matéfi-Tempfli, M. Matéfi-Tempfli, A. Vlad, **V. A. Antohe** and L. Piraux, *"Nanowires and nanostructures fabrication using template methods: a step forward to real devices combining electrochemical synthesis with lithographic techniques"* , J. Mater. Sci – Mat. Electron. **20(1)**, 249-254 (2009), doi: 10.1007/s10854-008-9568-6, **IF: 1.020**, **AIS: 0.364**	24	5	5.000	**4.800**
Tishkevich, DI; Vorobjova, AI; Bondaruk, AA; Dashkevich, ES; Shimanovich, DL; Razanau, IU; Zubar, TI; Yakimchuk, DV; Dong, MG; Sayyed, MI; Somaily, HH; Vinnik, DA; Silibin, MV; Trukhanov, SV; Fedosyuk, VM; Trukhanov, AV, The Interrelation of Synthesis Conditions and Wettability Properties of the Porous Anodic Alumina Membranes, NANOMATERIALS 12, 2382 (2022) http://dx.doi.org/10.3390/nano12142382					
Tishkevich, D; Vorobjova, A; Shimanovich, D; Kaniukov, E; Kozlovskiy, A; Zdorovets, M; Vinnik, D; Turutin, A; Kubasov, I; Kislyuk, A; Dong, MG; Sayyed, MI; Zubar, T; Trukhanov, A, Magnetic Properties of the Densely Packed Ultra-Long Ni Nanowires Encapsulated in Alumina Membrane, NANOMATERIALS 11, 1775 (2021) http://dx.doi.org/10.3390/nano11071775					
Maximenko, A; Marszalek, M; Chojenka, J; Fedotova, J; Jany, BR; Krok, F; Morgiel, J; Zarzycki, A; Zabila, Y, Perforated alumina templates as a tool for engineering of CoPd film magnetic properties, JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 477, 182 (2019) http://dx.doi.org/10.1016/j.jmmm.2019.01.026					
Shimanovich, DL; Vorobjova, AI; Tishkevich, DI; Trukhanov, AV; Zdorovets, MV; Kozlovskiy, AL, Preparation and morphology-dependent wettability of porous alumina membranes, BEILSTEIN JOURNAL OF NANOTECHNOLOGY 9, 1423 (2018) http://dx.doi.org/10.3762/bjnano.9.135					
Hansen, RD; Matefi-Tempfli, M; Safonovs, R; Adam, J; Chemnitz, S; Reimer, T; Wagner, B; Benecke, W; Matefi-Tempfli, S, Magnetic films for electromagnetic actuation in MEMS switches, MICROSYSTEM TECHNOLOGIES-MICRO-AND NANOSYSTEMS-INFORMATION STORAGE AND PROCESSING SYSTEMS 24, 1987 (2018) http://dx.doi.org/10.1007/s00542-017-3595-2					
Wang, J; Pan, SL, Electrodeposition of vertically standing Ag nanoplates and nanowires on transparent conductive electrode using porous anodic aluminum oxide template, NANOTECHNOLOGY 28, 425601 (2017) http://dx.doi.org/10.1088/1361-6528/aa8614					
Batic, BS; Verbovsek, T; Setina, J, Decomposition of thin Au films on flat and structured Si substrate by annealing, VACUUM 138, 134 (2017) http://dx.doi.org/10.1016/j.vacuum.2016.12.006					
Araujo, FA; Piraux, L, Spin-Transfer-Torque Driven Vortex Dynamics in Electrodeposited Nanowire Spin-Valves, SPIN 7, 1740007 (2017) http://dx.doi.org/10.1142/S2010324717400070					
Bulter, H; Denuault, G; Matefi-Tempfli, S; Matefi-Tempfli, M; Dosche, C; Wittstock, G, Electrochemical analysis of nanostructured iron oxides using cyclic voltammetry and scanning electrochemical microscopy, ELECTROCHIMICA ACTA 222, 1326 (2016) http://dx.doi.org/10.1016/j.electacta.2016.11.108					
Hierro-Rodriguez, A; Rocha-Rodrigues, P; Valdes-Bango, F; Alameda, JM; Jorge, PAS; Santos, JL; Araujo, JP; Teixeira, JM; Guerreiro, A, On the anodic aluminium oxide refractive index of nanoporous templates, JOURNAL OF PHYSICS D-APPLIED PHYSICS 48, 455105 (2015) http://dx.doi.org/10.1088/0022-3727/48/45/455105					
Vlad, A; Singh, N; Galande, C; Ajayan, PM, Design Considerations for Unconventional Electrochemical Energy Storage Architectures, ADVANCED ENERGY MATERIALS 5, 1402115 (2015) http://dx.doi.org/10.1002/aenm.201402115					
Bruggemann, D; Wolfrum, B; de Silva, JP, Fabrication, Properties and Applications of Gold Nanopillars, HANDBOOK OF NANOMATERIALS PROPERTIES , 317 (2014) http://dx.doi.org/10.1007/978-3-642-31107-9_55					
Bruggemann, D, Nanoporous Aluminium Oxide Membranes as Cell Interfaces, JOURNAL OF NANOMATERIALS 2013, 460870 (2013) http://dx.doi.org/10.1155/2013/460870					
Vlad, A; Dutu, CA; Jedrasik, P; Sodervall, U; Gohy, JF; Melinte, S, Vertical single nanowire devices based on conducting polymers, NANOTECHNOLOGY 23, 25302 (2012) http://dx.doi.org/10.1088/0957-4484/23/2/025302					
ter Maat, J; Regeling, R; Ingham, CJ; Weijers, CAGM; Giesbers, M; de Vos, WM; Zuilhof, H, Organic Modification and Subsequent Biofunctionalization of Porous Anodic Alumina Using Terminal Alkynes, LANGMUIR 27, 13606 (2011) http://dx.doi.org/10.1021/la203738h					

Elawayeb, M; Peng, Y; Inkson, BJ, Nanostructure and Chemical Characterisation of Individual NiFe/Pt Multilayer Nanowires, JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY 11, 7777 (2011) http://dx.doi.org/10.1166/jnn.2011.4758					
Zhu, DF; He, QG; Chen, Q; Fu, YY; He, C; Shi, LQ; Meng, X; Deng, CM; Cao, HM; Cheng, JG, Sensitivity Gains in Chemosensing by Optical and Structural Modulation of Ordered Assembly Arrays of ZnO Nanorods, ACS NANO 5, 4293 (2011) http://dx.doi.org/10.1021/nn103211d					
Lefeuvre, E; Kim, KH; He, ZB; Maurice, JL; Chatelet, M; Pribat, D; Cojocaru, CS, Optimization of organized silicon nanowires growth inside porous anodic alumina template using hot wire chemical vapor deposition process, THIN SOLID FILMS 519, 4603 (2011) http://dx.doi.org/10.1016/j.tsf.2011.01.333					
Rajta, I; Gal, GAB; Szilasi, SZ; Juhasz, Z; Biri, S; Matefi-Tempfli, M; Matefi-Tempfli, S, Nanochannel alignment analysis by scanning transmission ion microscopy, NANOTECHNOLOGY 21, 295704 (2010) http://dx.doi.org/10.1088/0957-4484/21/29/295704					
Lefeuvre, E; Kim, KH; He, ZB; Maurice, JL; Chatelet, M; Pribat, D; Kim, BS; Cojocaru, CS, Well organized Si nanowires arrays synthesis for electronic devices., CARBON NANOTUBES, GRAPHENE, AND ASSOCIATED DEVICES III 7761, 776105 (2010) http://dx.doi.org/10.1117/12.863923					
Matefi-Tempfli, S; Matefi-Tempfli, M, Carpet of Nanowires on Flexible Silicone Substrate, INEC: 2010 3RD INTERNATIONAL NANOELECTRONICS CONFERENCE, VOLS 1 AND 2 , 102 (2010)					
Matefi-Tempfli, S; Matefi-Tempfli, M, Vertically Aligned Nanowires on Flexible Silicone using a Supported Alumina Template prepared by Pulsed Anodization, ADVANCED MATERIALS 21, 4005 (2009) http://dx.doi.org/10.1002/adma.200900344					
Ion, L; Enculescu, I; Antohe, S, Physical properties of CdTe nanowires electrodeposited by a template method, for photovoltaic applications, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS 10, 3241 (2008)					
Magnin, D; Callegari, V; Matefi-Tempfli, S; Matefi-Tempfli, M; Glinel, K; Jonas, AM; Demoustier-Champagne, S, Functionalization of magnetic nanowires by charged biopolymers, BIOMACROMOLECULES 9, 2517 (2008) http://dx.doi.org/10.1021/bm8005402					
53	**V. A. Antohe***, A. Radu, S. Yunus, A. Attout, P. Bertrand, M. Matéfi-Tempfli, L. Piraux and S. Matéfi-Tempfli, *"A versatile method to grow localized arrays of nanowires for highly sensitive capacitive devices"* , J. Optoelectron. Adv. Mat. **10(11)**, 2936-2941 (2008), **IF: 0.577**, **AIS: 0.113**	1	8	6.500	**0.154**
Lin, LW; Tang, YH; Chen, CS; Xu, HF, Self-assembled single crystal germanium nanowires arrays under supercritical hydrothermal conditions, CRYSTENGCOMM 12, 2975 (2010) http://dx.doi.org/10.1039/b927384k					
54	M. Ghenescu, L. Ion, I. Enculescu, C. Tăzlaoanu, **V. A. Antohe**, M. Sima, M. Enculescu, E. Matei, R. Neumann, O. Ghenescu, V. Covlea and Ș. Antohe, "Electrical properties of electrodeposited CdS nanowires", Physica E: Low-Dimensional Systems & Nanostructures 40(7), 2485-2488 (2008), doi: 10.1016/j.physe.2007.09.188, **IF: 1.230**, **AIS: 0.384**	30	12	8.500	**3.529**
Hossain, MF, Fabrication of Nanosticks-Like CdS Sensitizer for the Application of Solar Cells, JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY 20, 2992 (2020) http://dx.doi.org/10.1166/jnn.2020.17477					
Radu, A; Iftimie, S; Ion, L; Antohe, S; Dragoman, D, Ni-BASED NANOWIRE ARRAYS AS CHEMICAL AND MAGNETIC FIELD SENSORS, PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE 18, 207 (2017)					
Jayaramaiah, JR; Shamanth, R; Jayanth, V; Shamala, KS, Optical investigation on zinc doped cadmium sulphide nanocrystalline thin films, CURRENT APPLIED PHYSICS 16, 799 (2016) http://dx.doi.org/10.1016/j.cap.2016.04.011					
Toma, O; Ion, L; Iftimie, S; Radu, A; Antohe, S, Structural, morphological and optical properties of rf - Sputtered CdS thin films, MATERIALS & DESIGN 100, 198 (2016) http://dx.doi.org/10.1016/j.matdes.2016.03.117					
Vengrenovich, RD; Ivanskii, BV; Panko, II; Moskaliuk, AV; Yarema, SV; Kryvetskyi, VI; Stasyk, MO, TO THE COARSENING MECHANISM OF Pt NANOPARTICLES DURING SINTERING, ROMANIAN JOURNAL OF PHYSICS 61, 553 (2016)					
Bala, V; Rani, M; Tripathi, SK; Kumar, R, Electrical properties of pure and (Al, Ga and In) doped CdS/PVA nanocomposites, MATERIALS RESEARCH EXPRESS 2, 95016 (2015) http://dx.doi.org/10.1088/2053-1591/2/9/095016					
Huang, LB; Lu, JG, Synthesis, Characterizations and Applications of Cadmium Chalcogenide Nanowires: A Review, JOURNAL OF MATERIALS SCIENCE & TECHNOLOGY 31, 556 (2015) http://dx.doi.org/10.1016/j.jmst.2014.12.005					
Yucel, E; Kahraman, S, The effects of coumarin additive on the properties of CdS thin films grown by chemical bath deposition, CERAMICS INTERNATIONAL 41, 4726 (2015) http://dx.doi.org/10.1016/j.ceramint.2014.12.021					
Mukherjee, A; Satpati, B; Bhattacharyya, SR; Ghosh, R; Mitra, P, Synthesis of nanocrystalline CdS thin film by SILAR and their characterization, PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES 65, 51 (2015) http://dx.doi.org/10.1016/j.physe.2014.08.013					
Akhlaghi, MH; Mohammadi, MR, Dependence of photovoltaic performance of solvothermally prepared CdS/CdTe solar cells on morphology and thickness of window and absorber layers, JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS 24, 3564 (2013) http://dx.doi.org/10.1007/s10854-013-1286-z					
Antohe, S; Ion, L; Girtan, M; Toma, O, OPTICAL AND MORPHOLOGICAL STUDIES OF THERMALLY VACUUM EVAPORATED ZnSe THIN FILMS, ROMANIAN REPORTS IN PHYSICS 65, 805 (2013)					
Virk, HS, Synthesis and Characterization of Metal and Semiconductor Nanowires, FUNCTIONAL NANOMATERIALS AND THEIR APPLICATIONS 201, 21 (2013) http://dx.doi.org/10.4028/www.scientific.net/SSP.201.21					
Arunraja, L; Thirumoorthy, P; Dhatchinamurthy, L, Theoretical Survey on Cadmium Sulfide Thin Films for Solar Cell Applications, ASIAN JOURNAL OF CHEMISTRY 25, S270 (2013)					
Du, J; Yu, XP; Di, JW, Comparison of the direct electrochemistry of glucose oxidase immobilized on the surface of Au, CdS and ZnS nanostructures, BIOSENSORS & BIOELECTRONICS 37, 88 (2012) http://dx.doi.org/10.1016/j.bios.2012.04.044					

Zet, C; Fosalau, C, MAGNETIC NANOWIRE BASED SENSORS, DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES 7, 299 (2012)					
Kumar, S; Vohra, A; Chakarvarti, SK, Electrical Properties of Electrodeposited ZnCuTe Ternary Nanowires Embedded in Polycarbonate Membrane Regular Paper, NANOMATERIALS AND NANOTECHNOLOGY 2, 3 (2012) http://dx.doi.org/10.5772/50964					
Toma, O; Iftimie, S; Besleaga, C; Mitran, TL; Ghenescu, V; Porumb, O; Toderas, A; Radu, M; Ion, L; Antohe, S, NEW INVESTIGATIONS APPLIED ON CADMIUM SULFIDE THIN FILMS FOR PHOTOVOLTAIC APPLICATIONS, CHALCOGENIDE LETTERS 8, 747 (2011)					
Radu, M; Ghenescu, V; Stan, I; Ion, L; Besleaga, C; Nicolaev, A; Mitran, TL; Tazlaoanu, C; Radu, A; Porumb, O; Ghenescu, M; Gugiu, MM; Antohe, S, PHOTOVOLTAIC PROPERTIES OF THE CdS/CdTe HETEROJUNCTION SOLAR CELLS BEFORE AND AFTER PROTON IRRADIATION, CHALCOGENIDE LETTERS 8, 477 (2011)					
Dalvand, P; Mohammadi, MR, Controlling morphology and structure of nanocrystalline cadmium sulfide (CdS) by tailoring solvothermal processing parameters, JOURNAL OF NANOPARTICLE RESEARCH 13, 3011 (2011) http://dx.doi.org/10.1007/s11051-010-0198-6					
Dalvand, P; Mohammadi, MR; Fray, DJ, One-dimensional cadmium sulfide (CdS) nanostructures by the solvothermal process: Controlling crystal structure and morphology aided by different solvents, MATERIALS LETTERS 65, 1291 (2011) http://dx.doi.org/10.1016/j.matlet.2011.01.055					
Lei, M; Li, PG; Tang, WH, Cathodoluminescence variation of a single tapered CdS nanowire, JOURNAL OF ALLOYS AND COMPOUNDS 509, 5020 (2011) http://dx.doi.org/10.1016/j.jallcom.2010.12.213					
Nan, YX; Chen, F; Yang, LG; Chen, HZ, Electrochemical Synthesis and Charge Transport Properties of CdS Nanocrystalline Thin Films with a Conifer-like Structure, JOURNAL OF PHYSICAL CHEMISTRY C 114, 11911 (2010) http://dx.doi.org/10.1021/jp103085n					
Karami, H; Kaboli, A, Pulsed Current Electrochemical Synthesis of Cadmium Sulfide Nanofibers, INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE 5, 706 (2010)					
Nemnes, GA; Ion, L; Antohe, S, Thermo-electrical properties of nanostructured ballistic nanowires in the R-matrix formalism using the Implicitly Restarted Arnoldi Method, PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES 42, 1613 (2010) http://dx.doi.org/10.1016/j.physe.2010.01.007					
Guduru, S; Singh, VP; Rajaputra, S; Mishra, S; Mangu, R; Omer, IS, Characteristics of gold/cadmium sulfide nanowire Schottky diodes, THIN SOLID FILMS 518, 1809 (2010) http://dx.doi.org/10.1016/j.tsf.2009.09.038					
Chakarvarti, SK, Track-etch membranes enabled nano-/microtechnology: A review, RADIATION MEASUREMENTS 44, 1085 (2009) http://dx.doi.org/10.1016/j.radmeas.2009.10.028					
Dongre, JK; Nogriya, V; Ramrakhiani, M, Structural, optical and photoelectrochemical characterization of CdS nanowire synthesized by chemical bath deposition and wet chemical etching, APPLIED SURFACE SCIENCE 255, 6115 (2009) http://dx.doi.org/10.1016/j.apsusc.2009.01.064					
Dongre, JK; Nogriya, V; Aloney, R; Ramrakhiani, M, Nanostructures based photoelectrochemical cells for energy conversion, OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS 3, 338 (2009)					
Ion, L; Enculescu, I; Antohe, S, Physical properties of CdTe nanowires electrodeposited by a template method, for photovoltaic applications, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS 10, 3241 (2008)					
Enculescu, M, Potassium hydrogen phthalate (KAP) micro- and nano-rods prepared by a template approach, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS 10, 1501 (2008)					
55	A. Vlad, M. Matéfi-Tempfli, **V. A. Antohe**, S. Faniel, N. Reckinger, B. Olbrechts, A. Crahay, V. Bayot, L. Piraux, S. Melinte and S. Matéfi-Tempfli, *"Nanowire-Decorated Microscale Metallic Electrodes"* , Small **4(5)**, 557-560 (2008), doi: 10.1002/smll.200700724, **IF: 6.525**, **AIS: 2.580**	36	11	8.000	**4.500**
Cho, HH; Kim, BS, Heat and mass transfer in silicon-based nanostructures, SILICON NANOMATERIALS SOURCEBOOK, VOL II: HYBRID MATERIALS, ARRAYS, NETWORKS, AND DEVICES , 279 (2017)					
Jung, SW; Chae, SS; Park, JH; Oh, JY; Bhang, SH; Baik, HK; Lee, TI, Microscale Soft Patterning for Solution Processable Metal Oxide Thin Film Transistors, ACS APPLIED MATERIALS & INTERFACES 8, 7205 (2016) http://dx.doi.org/10.1021/acsami.5b10847					
Vlad, A; Singh, N; Galande, C; Ajayan, PM, Design Considerations for Unconventional Electrochemical Energy Storage Architectures, ADVANCED ENERGY MATERIALS 5, 1402115 (2015) http://dx.doi.org/10.1002/aenm.201402115					
Nick, C; Quednau, S; Sarwar, R; Schlaak, HF; Thielemann, C, High aspect ratio gold nanopillars on microelectrodes for neural interfaces, MICROSYSTEM TECHNOLOGIES-MICRO-AND NANOSYSTEMS-INFORMATION STORAGE AND PROCESSING SYSTEMS 20, 1849 (2014) http://dx.doi.org/10.1007/s00542-013-1958-x					
Sachser, R; Reith, H; Huzel, D; Winhold, M; Huth, M, Catalytic Purification of Directly Written Nanostructured Pt Microelectrodes, ACS APPLIED MATERIALS & INTERFACES 6, 15868 (2014) http://dx.doi.org/10.1021/am503407y					
Kamath, RR; Madou, MJ, Selective Detection of Dopamine against Ascorbic Acid Interference using 3D Carbon Interdigitated Electrode Arrays, CARBON ELECTRONICS: INTERFACES TO METALS, DIELECTRICS, AND ELECTROLYTES 61, 65 (2014) http://dx.doi.org/10.1149/06107.0065ecst					
Scheunert, G; Hoffmann, V; Kullock, R; Whyte, JR; Kirchner, R; Grafstrom, S; Fischer, WJ; Eng, LM, Utilizing Dog-Boning to Build up High-Aspect-Ratio Nanofences, JOURNAL OF THE ELECTROCHEMICAL SOCIETY 161, D26 (2014) http://dx.doi.org/10.1149/2.024401jes					
Bruggemann, D; Wolfrum, B; de Silva, JP, Fabrication, Properties and Applications of Gold Nanopillars, HANDBOOK OF NANOMATERIALS PROPERTIES , 317 (2014) http://dx.doi.org/10.1007/978-3-642-31107-9_55					
Walewyns, T; Reckinger, N; Ryelandt, S; Pardoen, T; Raskin, JP; Francis, LA, Polyimide as a versatile enabling material for microsystems fabrication: surface micromachining and electrodeposited nanowires integration, JOURNAL OF MICROMECHANICS AND MICROENGINEERING 23, 95021 (2013) http://dx.doi.org/10.1088/0960-1317/23/9/095021					
Einsle, JF; Scheunert, G; Murphy, A; McPhillips, J; Zayats, AV; Pollard, R; Bowman, RM, Directed self-assembly of nanorod networks: bringing the top down to the bottom up, NANOTECHNOLOGY 23, 505302 (2012) http://dx.doi.org/10.1088/0957-4484/23/50/505302					

Shin, S; Kim, BS; Choi, G; Lee, H; Cho, HH, Double-templated electrodeposition: Simple fabrication of micro-nano hybrid structure by electrodeposition for efficient boiling heat transfer, APPLIED PHYSICS LETTERS 101, 251909 (2012) http://dx.doi.org/10.1063/1.4772539
Vlad, A; Dutu, CA; Jedrasik, P; Sodervall, U; Gohy, JF; Melinte, S, Vertical single nanowire devices based on conducting polymers, NANOTECHNOLOGY 23, 25302 (2012) http://dx.doi.org/10.1088/0957-4484/23/2/025302
Menzel, A; Subannajui, K; Guder, F; Moser, D; Paul, O; Zacharias, M, Multifunctional ZnO-Nanowire-Based Sensor, ADVANCED FUNCTIONAL MATERIALS 21, 4342 (2011) http://dx.doi.org/10.1002/adfm.201101549
Jedrasik, P; Vlad, A; Sodervall, U, Technological and Material Related Challenges for Large Area, High Aspect-Ratio, Near Teradot/Inch(2) Areal Density and Three-Dimensional Structuring of Polyaniline, JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY 11, 8924 (2011) http://dx.doi.org/10.1166/jnn.2011.3475
Xu, J; Chen, L; Mathewson, A; Razeeb, KM, Ultra-long metal nanowire arrays on solid substrate with strong bonding, NANOSCALE RESEARCH LETTERS 6, 525 (2011) http://dx.doi.org/10.1186/1556-276X-6-525
Huske, M; Wolfrum, B, Fabrication of a nanoporous dual-electrode system for electrochemical redox cycling, PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE 208, 1265 (2011) http://dx.doi.org/10.1002/pssa.201001193
Kim, BS; Shin, S; Shin, SJ; Kim, KM; Cho, HH, Micro-nano hybrid structures with manipulated wettability using a two-step silicon etching on a large area, NANOSCALE RESEARCH LETTERS 6, 333 (2011) http://dx.doi.org/10.1186/1556-276X-6-333
Kuo, CY; Gau, C, Vapor-solid-solid growth of crystalline silicon nanowires using anodic aluminum oxide template, THIN SOLID FILMS 519, 3603 (2011) http://dx.doi.org/10.1016/j.tsf.2011.01.280
Bhattacharya, J; Kisner, A; Offenhausser, A; Wolfrum, B, Microfluidic anodization of aluminum films for the fabrication of nanoporous lipid bilayer support structures, BEILSTEIN JOURNAL OF NANOTECHNOLOGY 2, 104 (2011) http://dx.doi.org/10.3762/bjnano.2.12
Weber, D; Mourzina, Y; Bruggemann, D; Offenhausser, A, Large-Scale Patterning of Gold Nanopillars in a Porous Anodic Alumina Template by Replicating Gold Structures on a Titanium Barrier, JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY 11, 1293 (2011) http://dx.doi.org/10.1166/jnn.2011.3110
Walewyns, T; Scheen, G; Tooten, E; Francis, LA, Synthesis of patterned freestanding Nickel nanowires by using ion track-etched polyimide, BIOELECTRONICS, BIOMEDICAL, AND BIOINSPIRED SYSTEMS V AND NANOTECHNOLOGY V 8068, 806815 (2011) http://dx.doi.org/10.1117/12.886775
Hofmann, B; Katelhon, E; Schottdorf, M; Offenhausser, A; Wolfrum, B, Nanocavity electrode array for recording from electrogenic cells, LAB ON A CHIP 11, 1054 (2011) http://dx.doi.org/10.1039/c0lc00582g
Vlad, A; Melinte, S; Matefi-Tempfli, M; Piraux, L; Matefi-Tempfli, S, Vertical Nanowire Architectures: Statistical Processing of Porous Templates Towards Discrete Nanochannel Integration, SMALL 6, 1974 (2010) http://dx.doi.org/10.1002/smll.201000723
Ramgir, NS; Yang, Y; Zacharias, M, Nanowire-Based Sensors, SMALL 6, 1705 (2010) http://dx.doi.org/10.1002/smll.201000972
Youn, SK; Ramgir, N; Wang, CY; Subannajui, K; Cimalla, V; Zacharias, M, Catalyst-Free Growth of ZnO Nanowires Based on Topographical Confinement and Preferential Chemisorption and Their Use for Room Temperature CO Detection, JOURNAL OF PHYSICAL CHEMISTRY C 114, 10092 (2010) http://dx.doi.org/10.1021/jp100446r
Tao, F; Yu, XP; Wang, ZJ; Cai, WL; Yao, LZ, Hydrothermal Synthesis of MnS Flower-Like Spheres Sitting on MnS Nanowire Arrays, CHINESE JOURNAL OF INORGANIC CHEMISTRY 26, 603 (2010)
Pellicer, E; Varea, A; Pane, S; Nelson, BJ; Menendez, E; Estrader, M; Surinach, S; Baro, MD; Nogues, J; Sort, J, Nanocrystalline Electroplated Cu-Ni: Metallic Thin Films with Enhanced Mechanical Properties and Tunable Magnetic Behavior, ADVANCED FUNCTIONAL MATERIALS 20, 983 (2010) http://dx.doi.org/10.1002/adfm.200901732
Vlad, A; Yunus, S; Attout, A; Serban, DA; Gence, L; Faniel, S; Gohy, JF; Bertrand, P; Melinte, S, Femtogram-Controlled Synthesis and Self-Aligned Fabrication of Polyaniline Micro- and Nanostructures, SMALL 6, 627 (2010) http://dx.doi.org/10.1002/smll.200901771
Matefi-Tempfli, S; Matefi-Tempfli, M; Piraux, L; Melinte, S; Vlad, A, Statistical Processing of Nanoporous Templates with High-Yield Single-Pore Resolution, INEC: 2010 3RD INTERNATIONAL NANOELECTRONICS CONFERENCE, VOLS 1 AND 2 , 164 (2010)
Kim, MR; Lee, DK; Jang, DJ, Template-Based Electrochemically Controlled Growth of Segmented Multimetal Nanorods, JOURNAL OF NANOMATERIALS 2010, 203756 (2010) http://dx.doi.org/10.1155/2010/203756
Hallet, X; Matefi-Tempfli, M; Michotte, S; Piraux, L; Vanacken, J; Moshchalkov, VV; Matefi-Tempfli, S, Quasi-Hexagonal Vortex-Pinning Lattice Using Anodized Aluminum Oxide Nanotemplates, SMALL 5, 2413 (2009) http://dx.doi.org/10.1002/smll.200900400
Matefi-Tempfli, S; Matefi-Tempfli, M, Vertically Aligned Nanowires on Flexible Silicone using a Supported Alumina Template prepared by Pulsed Anodization, ADVANCED MATERIALS 21, 4005 (2009) http://dx.doi.org/10.1002/adma.200900344
Ren, X; Gershon, T; Iza, DC; Munoz-Rojas, D; Musselman, K; MacManus-Driscoll, JL, The selective fabrication of large-area highly ordered TiO2 nanorod and nanotube arrays on conductive transparent substrates via sol-gel electrophoresis, NANOTECHNOLOGY 20, 365604 (2009) http://dx.doi.org/10.1088/0957-4484/20/36/365604
Matefi-Tempfli, S; Matefi-Tempfli, M; Piraux, L, Fabrication of nanowires and nanostructures: combining template synthesis with patterning methods, APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING 96, 603 (2009) http://dx.doi.org/10.1007/s00339-009-5085-6
Ion, L; Enculescu, I; Antohe, S, Physical properties of CdTe nanowires electrodeposited by a template method, for photovoltaic applications, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS 10, 3241 (2008)
Elnathan, R; Kantaev, R; Patolsky, F, Synthesis of Hybrid Multicomponent Disklike Nanoparticles, NANO LETTERS 8, 3964 (2008) http://dx.doi.org/10.1021/nl802467d

56	L. Piraux, K. Renards, R. Guillemet, S. Matéfi-Tempfli, M. Matéfi-Tempfli, **V. A. Antohe**, S. Fusil, K. Bouzehouane and V. Cros, *"Template-grown NiFe/Cu/NiFe nanowires for spin transfer devices"* , Nano Letters **7(9)**, 2563-2567 (2007), doi: 10.1021/nl070263s, **IF: 9.627**, **AIS: 4.160**	79	9	7.000	**11.286**

Toyama, R; Kawachi, S; Yamaura, JI; Fujita, T; Murakami, Y; Hosono, H; Majima, Y, Nanostructure-induced L1(0)-ordering of twinned single-crystals in CoPt ferromagnetic nanowires, NANOSCALE ADVANCES , (2022) http://dx.doi.org/10.1039/d2na00626j

Meng, FF; Donnelly, C; Skoric, L; Hierro-Rodriguez, A; Liao, JW; Fernandez-Pacheco, A, Fabrication of a 3D Nanomagnetic Circuit with Multi-Layered Materials for Applications in Spintronics, MICROMACHINES 12, 859 (2021) http://dx.doi.org/10.3390/mi12080859

Kac, M; Mis, A; Dubiel, B; Kowalski, K; Zarzycki, A; Dobosz, I, Template-Assisted Iron Nanowire Formation at Different Electrolyte Temperatures, MATERIALS 14, 4080 (2021) http://dx.doi.org/10.3390/ma14154080

Bran, C; Saugar, E; Fernandez-Roldan, JA; Del Real, RP; Asenjo, A; Aballe, L; Foerster, M; Rodriguez, AF; Palmero, EM; Vazquez, M; Chubykalo-Fesenko, O, Stochastic vs. deterministic magnetic coding in designed cylindrical nanowires for 3D magnetic networks, NANOSCALE 13, 12587 (2021) http://dx.doi.org/10.1039/d1nr02337c

Ahmadzadeh, M; Kashi, MA; Noormohammadi, M; Ramazani, A, Small-diameter magnetic and metallic nanowire arrays grown in anodic porous alumina templates anodized in selenic acid, APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING 127, 450 (2021) http://dx.doi.org/10.1007/s00339-021-04571-0

Moreno, JA; Bran, C; Vazquez, M; Kosel, J, Cylindrical Magnetic Nanowires Applications, IEEE TRANSACTIONS ON MAGNETICS 57, 800317 (2021) http://dx.doi.org/10.1109/TMAG.2021.3055338

Rial, J; Proenca, MP, A Novel Design of a 3D Racetrack Memory Based on Functional Segments in Cylindrical Nanowire Arrays, NANOMATERIALS 10, 2403 (2020) http://dx.doi.org/10.3390/nano10122403

Alam, J; Bran, C; Chiriac, H; Lupu, N; Ovari, TA; Panina, LV; Rodionova, V; Varga, R; Vazquez, M; Zhukov, A, Cylindrical micro and nanowires: Fabrication, properties and applications, JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 513, 167074 (2020) http://dx.doi.org/10.1016/j.jmmm.2020.167074

Weng, XR; Hennes, M; Tran, T; Casaretto, N; Demaille, D; Vidal, F; Zheng, YL, Orientation and lattice matching of CoNi nanowires embedded in SrTiO3: unveiling novel strain relaxation mechanisms in vertically aligned nanocomposites, CRYSTENGCOMM 22, 4730 (2020) http://dx.doi.org/10.1039/d0ce00574f

Phatak, C; Miller, CS; Thompson, Z; Gulsoy, EB; Petford-Long, AK, Curved Three-Dimensional Cobalt Nanohelices for Use in Domain Wall Device Applications, ACS APPLIED NANO MATERIALS 3, 6009 (2020) http://dx.doi.org/10.1021/acsanm.0c01228

Weng, X; Hennes, M; Hrabovsky, D; Demaille, D; Vidal, F; Zheng, Y, Magnetoelastic effects and random magnetic anisotropy in highly strained ultrathin Ni nanowires epitaxied in a SrTiO3 matrix, JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 501, 166375 (2020) http://dx.doi.org/10.1016/j.jmmm.2019.166375

Khan, M; Rafique, MY; Razaq, A; Mir, A; Karim, S; Anwar, S; Sultana, I, Fabrication of Au/Ni/NiO heterostructure nanowires by electrochemical deposition and their temperature dependent magnetic properties, JOURNAL OF SOLID STATE CHEMISTRY 284, 121186 (2020) http://dx.doi.org/10.1016/j.jssc.2020.121186

Piraux, L, Magnetic Nanowires, APPLIED SCIENCES-BASEL 10, 1832 (2020) http://dx.doi.org/10.3390/app10051832

Eimerl, RG; Muster, KS; Heindl, R, Micromagnetic simulations of first-order reversal curves in nanowire arrays using MuMax3, AIP ADVANCES 9, (2019) http://dx.doi.org/10.1063/1.5129954

Kaniukov, E; Shumskaya, A; Kozlovskiy, A; Fadeev, M; Rusakov, V; Zdorovets, M, Structural and Magnetic Characteristics of Ferrum Nanotubes Obtained at Different Potentials of Electrodeposition, PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS 257, 1900319 (2020) http://dx.doi.org/10.1002/pssb.201900319

Patel, NS; Lago-Cachon, D; Mohammed, H; Moreno, JA; Kosel, J, Iron Nanowire Fabrication by Nano-Porous Anodized Aluminum and its Characterization, JOVE-JOURNAL OF VISUALIZED EXPERIMENTS , e60111 (2019) http://dx.doi.org/10.3791/60111

Tsoi, M, Spin Torque Effects in Magnetic Systems Experiment, SPINTRONICS HANDBOOK: SPIN TRANSPORT AND MAGNETISM, VOL 1: METALLIC SPINTRONICS, 2ND EDITION , 303 (2019)

Galdun, L; Vega, V; Vargova, Z; Barriga-Castro, ED; Luna, C; Varga, R; Prida, VM, Intermetallic Co(2)Feln Heusler Alloy Nanowires for Spintronics Applications, ACS APPLIED NANO MATERIALS 1, 7066 (2018) http://dx.doi.org/10.1021/acsanm.8b01836

Gong, MG; Zhang, JM; Ren, SQ, Magnetic field-directed hybrid anisotropic nanocomposites, NANOTECHNOLOGY 29, 345602 (2018) http://dx.doi.org/10.1088/1361-6528/aac9eb

Li, WJ; Wang, CJ; Zhang, XM; Irfan, M; Khan, U; Liu, YW; Han, XF, Experimental investigation and micromagnetic simulations of hybrid CoCr2O4/Ni coaxial nanostructures, NANOTECHNOLOGY 29, 245601 (2018) http://dx.doi.org/10.1088/1361-6528/aab9e4

Hennes, M; Schuler, V; Weng, X; Buchwald, J; Demaille, D; Zheng, Y; Vidal, F, Growth of vertically aligned nanowires in metal-oxide nanocomposites: kinetic Monte-Carlo modeling versus experiments, NANOSCALE 10, 7666 (2018) http://dx.doi.org/10.1039/c7nr08974k

Al Mamoori, MKI; Keller, L; Pieper, J; Barth, S; Winkler, R; Plank, H; Muller, J; Huth, M, Magnetic Characterization of Direct-Write Free-Form Building Blocks for Artificial Magnetic 3D Lattices, MATERIALS 11, 289 (2018) http://dx.doi.org/10.3390/ma11020289

Kaur, J; Kaur, H; Singh, RC, Synthesis and Transport Characterization of Electrochemically Deposited CdTe Nanowires, 62ND DAE SOLID STATE PHYSICS SYMPOSIUM 1942, 110005 (2018) http://dx.doi.org/10.1063/1.5028988

Ko, MJ; Kim, SH; Kim, YK, Crystallographic Orientation and Microstructure-Dependent Magnetic Behaviors in Arrays of Ni Nanowires, IEEE TRANSACTIONS ON MAGNETICS 53, 2004004 (2017) http://dx.doi.org/10.1109/TMAG.2017.2692798
Li, WJ; Khan, U; Irfan, M; Javed, K; Liu, P; Ban, SL; Han, XF, Fabrication and magnetic investigations of highly uniform CoNiGa alloy nanowires, JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 432, 124 (2017) http://dx.doi.org/10.1016/j.jmmm.2017.01.074
Fernandez-Pacheco, A; Streubel, R; Fruchart, O; Hertel, R; Fischer, P; Cowburn, RP, Three-dimensional nanomagnetism, NATURE COMMUNICATIONS 8, 15756 (2017) http://dx.doi.org/10.1038/ncomms15756
Yao, HJ; Xie, L; Cheng, YX; Duan, JL; Chen, YH; Lyu, SB; Sun, YM; Liu, J, Tuning the coercivity of Cu/Ni multilayer nanowire arrays by tailoring multiple parameters, MATERIALS & DESIGN 123, 165 (2017) http://dx.doi.org/10.1016/j.matdes.2017.03.041
Ochoa, A; Mejia-Lopez, J; Velasquez, EA; Mazo-Zuluaga, J, Finite-length Fe nanowire arrays: the effects of magnetic anisotropy energy, dipolar interaction and system size on their magnetic properties, JOURNAL OF PHYSICS D-APPLIED PHYSICS 50, 95003 (2017) http://dx.doi.org/10.1088/1361-6463/aa5763
Araujo, FA; Piraux, L, Spin-Transfer-Torque Driven Vortex Dynamics in Electrodeposited Nanowire Spin-Valves, SPIN 7, 1740007 (2017) http://dx.doi.org/10.1142/S2010324717400070
Schuler, V; Milano, J; Coati, A; Vlad, A; Sauvage-Simkin, M; Garreau, Y; Demaille, D; Hidki, S; Novikova, A; Fonda, E; Zheng, Y; Vidal, F, Growth and magnetic properties of vertically aligned epitaxial CoNi nanowires in (Sr, Ba) TiO3 with diameters in the 1.8-6nm range, NANOTECHNOLOGY 27, 495601 (2016) http://dx.doi.org/10.1088/0957-4484/27/49/495601
Arefpour, M; Kashi, MA; Ramazani, A; Montazer, AH, Electrochemical pore filling strategy for controlled growth of magnetic and metallic nanowire arrays with large area uniformity, NANOTECHNOLOGY 27, 275605 (2016) http://dx.doi.org/10.1088/0957-4484/27/27/275605
Zhang, J; Agramunt-Puig, S; Del-Valle, N; Navau, C; Baro, MD; Estrade, S; Peiro, F; Pane, S; Nelson, BJ; Sanchez, A; Nogues, J; Pellicer, E; Sort, J, Tailoring Staircase-like Hysteresis Loops in Electrodeposited Trisegmented Magnetic Nanowires: a Strategy toward Minimization of Interwire Interactions, ACS APPLIED MATERIALS & INTERFACES 8, 4109 (2016) http://dx.doi.org/10.1021/acsami.5b11747
Vorobyova, AI; Outkina, EA; Khodin, AA, Nickel/alumina nanocomposites by AC electrochemical processing, APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING 122, 130 (2016) http://dx.doi.org/10.1007/s00339-016-9611-z
Roussigne, Y; Cherif, SM; Stashkevich, AA; Vidal, F; Zheng, Y, Static and dynamic behavior of ultrathin cobalt nanowires embedded in transparent matrix, JOURNAL OF APPLIED PHYSICS 118, 233903 (2015) http://dx.doi.org/10.1063/1.4937133
Hierro-Rodriguez, A; Rocha-Rodrigues, P; Valdes-Bango, F; Alameda, JM; Jorge, PAS; Santos, JL; Araujo, JP; Teixeira, JM; Guerreiro, A, On the anodic aluminium oxide refractive index of nanoporous templates, JOURNAL OF PHYSICS D-APPLIED PHYSICS 48, 455105 (2015) http://dx.doi.org/10.1088/0022-3727/48/45/455105
Karoro, A; Nuru, ZY; Kotsedi, L; Bouziane, K; Mothudi, BM; Maaza, M, Laser nanostructured Co nanocylinders-Al2O3 cermets for enhanced & flexible solar selective absorbers applications, APPLIED SURFACE SCIENCE 347, 679 (2015) http://dx.doi.org/10.1016/j.apsusc.2015.04.098
Karoro, A; Nuru, ZY; Kotsedi, L; Bouziane, K; Mothudi, BM; Maaza, M, Selective solar absorbers' properties of laser treated electrodeposited tubular Co-Al2O3 nanocomposites, MATERIALS TODAY-PROCEEDINGS 2, 4028 (2015) http://dx.doi.org/10.1016/j.matpr.2015.08.032
Javed, K; Shi, DW; Ali, SS; Jiang, J; Liu, P; Han, XF, Annealing effects on magnetic properties of Co/Cu multilayered nanowires, MATERIALS TODAY-PROCEEDINGS 2, 5268 (2015) http://dx.doi.org/10.1016/j.matpr.2015.11.034
Ivanov, YP; Trabada, DG; Chuvilin, A; Kosel, J; Chubykalo-Fesenko, O; Vazquez, M, Crystallographically driven magnetic behaviour of arrays of monocrystalline Co nanowires, NANOTECHNOLOGY 25, 475702 (2014) http://dx.doi.org/10.1088/0957-4484/25/47/475702
Javed, K; Shi, DW; Ali, SS; Jiang, J; Liu, P; Han, XF, Magnetic Field Annealing Effects on Magnetic Properties of Electrodeposited Co/Cu Multilayered Nanowires, IEEE TRANSACTIONS ON MAGNETICS 50, 2301704 (2014) http://dx.doi.org/10.1109/TMAG.2014.2310056
Motoyama, M; Prinz, FB, Electrodeposition and Behavior of Single Metal Nanowire Probes, ACS NANO 8, 3556 (2014) http://dx.doi.org/10.1021/nn4066582
Vorobyova, AI; Outkina, EA; Komar, OM, Study of metal pillar nanostructure formation with thin porous alumina template, THIN SOLID FILMS 548, 109 (2013) http://dx.doi.org/10.1016/j.tsf.2013.09.016
Bouziane, K; Roussigne, Y; Cherif, SM; Stashkevich, AA; Vasquez, M; Britel, MR; Cherkaoui, M, Magnetization Reversal and Spin Waves in Cobalt Nanocylinders Electrodeposited Into Nanoporous Alumina Template, SENSOR LETTERS 11, 2282 (2013) http://dx.doi.org/10.1166/sl.2013.3066
Kim, HW; Na, HG; Kwak, DS; Kwon, YJ; Van Khai, T; Lee, C; Jung, JH, Fabrication and magnetic properties of In2O3/NiMnGa core-shell nanowires, THIN SOLID FILMS 546, 219 (2013) http://dx.doi.org/10.1016/j.tsf.2013.03.077
Piraux, L; Hamoir, G; Encinas, A; Medina, JD; Araujo, FA, Influence of the packing fraction and host matrix on the magnetoelastic anisotropy in Ni nanowire composite arrays, JOURNAL OF APPLIED PHYSICS 114, 123907 (2013) http://dx.doi.org/10.1063/1.4822307
Dmytriiev, O; Al-Jarah, UAS; Gangmei, P; Kruglyak, VV; Hicken, RJ; Mahato, BK; Rana, B; Agrawal, M; Barman, A; Matefi-Tempfli, M; Piraux, L; Matefi-Tempfli, S, Static and dynamic magnetic properties of densely packed magnetic nanowire arrays, PHYSICAL REVIEW B 87, 174429 (2013) http://dx.doi.org/10.1103/PhysRevB.87.174429
Fernandez-Pacheco, A; Serrano-Ramon, L; Michalik, JM; Ibarra, MR; De Teresa, JM; O'Brien, L; Petit, D; Lee, J; Cowburn, RP, Three dimensional magnetic nanowires grown by focused electron-beam induced deposition, SCIENTIFIC REPORTS 3, 1492 (2013) http://dx.doi.org/10.1038/srep01492
Yoon, SJ; Kim, BG; Jeon, IT; Wu, JH; Kim, YK, Compositional Dependence of Magnetic Properties in CoFe/Au Nanobarcodes, APPLIED PHYSICS EXPRESS 5, 103003 (2012) http://dx.doi.org/10.1143/APEX.5.103003

Krimpalis, S; Chiriac, H, Micromagnetic Behavior of Electrodeposited NiFe/Cu Multilayered Nanowires, IEEE TRANSACTIONS ON MAGNETICS 48, 2455 (2012) http://dx.doi.org/10.1109/TMAG.2012.2196441
Ramulu, TS; Venu, R; Sinha, B; Yoon, SS; Kim, CG, Electrodeposition of CoPtP/Au Multisegment Nanowires: Synthesis and DNA Functionalization, INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE 7, 7762 (2012)
Araujo, FA; Darques, M; Zvezdin, KA; Khvalkovskiy, AV; Locatelli, N; Bouzehouane, K; Cros, V; Piraux, L, Microwave signal emission in spin-torque vortex oscillators in metallic nanowires: Experimental measurements and micromagnetic numerical study, PHYSICAL REVIEW B 86, 64424 (2012) http://dx.doi.org/10.1103/PhysRevB.86.064424
Maqableh, MM; Huang, XB; Sung, SY; Reddy, KSM; Norby, G; Victora, RH; Stadler, BJH, Low-Resistivity 10 nm Diameter Magnetic Sensors, NANO LETTERS 12, 4102 (2012) http://dx.doi.org/10.1021/nl301610z
Ahmad, N; Chen, JY; Shi, DW; Iqbal, J; Han, XF, Magnetic anisotropy and magnetization reversal in Co/Cu multilayers nanowires, JOURNAL OF APPLIED PHYSICS 111, 07C119 (2012) http://dx.doi.org/10.1063/1.3679862
Tsoi, M, Spin Torque Effects in Magnetic Systems: Experiment, HANDBOOK OF SPIN TRANSPORT AND MAGNETISM , 137 (2012)
Araujo, FA; Cros, V; Zvezdin, KA; Piraux, L, STVOs in multilayered metallic NWs electrodeposited inside nanoporous alumina templates: experimental measurements and micromagnetic study, SPINTRONICS V 8461, 84610T (2012) http://dx.doi.org/10.1117/12.930766
Piraux, L; Hamoir, G; Lee, MW; Ferain, E; Jonas, AM; Huynen, I; Medina, JD, Template Approach for Novel Magnetic-Ferroelectric Nanocomposites, APPLIED PHYSICS EXPRESS 4, 115001 (2011) http://dx.doi.org/10.1143/APEX.4.115001
Xu, J; Chen, L; Mathewson, A; Razeeb, KM, Ultra-long metal nanowire arrays on solid substrate with strong bonding, NANOSCALE RESEARCH LETTERS 6, 525 (2011) http://dx.doi.org/10.1186/1556-276X-6-525
Elawayeb, M; Peng, Y; Inkson, BJ, Nanostructure and Chemical Characterisation of Individual NiFe/Pt Multilayer Nanowires, JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY 11, 7777 (2011) http://dx.doi.org/10.1166/jnn.2011.4758
Blamire, MG; Aziz, A; Robinson, JWA, Nanopillar junctions, PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES 369, 3198 (2011) http://dx.doi.org/10.1098/rsta.2010.0343
Peng, Y; Cullis, T; Luxmoore, I; Inkson, B, Electrical properties of individual CoPt/Pt multilayer nanowires characterized by in situ SEM nanomanipulators, NANOTECHNOLOGY 22, 245709 (2011) http://dx.doi.org/10.1088/0957-4484/22/24/245709
Cherif, SM; Roussigne, Y; Stashkevich, AA; Darques, M; Bouziane, K; Piraux, L, Ferromagnetic nanocylinders electrodeposited into nanoporous alumina template: A magnetometry and Brillouin light scattering study, JOURNAL OF APPLIED PHYSICS 109, 103912 (2011) http://dx.doi.org/10.1063/1.3587170
Habouti, S; Matefi-Tempfli, M; Solterbeck, CH; Es-Souni, M; Matefi-Tempfli, S; Es-Souni, M, Self-standing corrugated Ag and Au-nanorods for plasmonic applications, JOURNAL OF MATERIALS CHEMISTRY 21, 6269 (2011) http://dx.doi.org/10.1039/c0jm03459b
Habouti, S; Matefi-Tempfli, M; Solterbeck, CH; Es-Souni, M; Matefi-Tempfli, S; Es-Souni, M, On-substrates, self-standing Au-nanorod arrays showing morphology controlled properties, NANO TODAY 6, 12 (2011) http://dx.doi.org/10.1016/j.nantod.2010.11.001
Vlad, A; Melinte, S; Matefi-Tempfli, M; Piraux, L; Matefi-Tempfli, S, Vertical Nanowire Architectures: Statistical Processing of Porous Templates Towards Discrete Nanochannel Integration, SMALL 6, 1974 (2010) http://dx.doi.org/10.1002/smll.201000723
Mure, E; Biziere, N; Ansermet, JP, Lithography-free study of spin torque, JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 322, 1443 (2010) http://dx.doi.org/10.1016/j.jmmm.2009.05.012
Bakonyi, I; Peter, L, Electrodeposited multilayer films with giant magnetoresistance (GMR): Progress and problems, PROGRESS IN MATERIALS SCIENCE 55, 107 (2010) http://dx.doi.org/10.1016/j.pmatsci.2009.07.001
Beron, F; Carignan, LP; Menard, D; Yelon, A, Extracting Individual Properties from Global Behaviour: First-order Reversal Curve Method Applied to Magnetic Nanowire Arrays, ELECTRODEPOSITED NANOWIRES AND THEIR APPLICATIONS , 167 (2010)
Matefi-Tempfli, S; Matefi-Tempfli, M; Piraux, L; Melinte, S; Vlad, A, Statistical Processing of Nanoporous Templates with High-Yield Single-Pore Resolution, INEC: 2010 3RD INTERNATIONAL NANOELECTRONICS CONFERENCE, VOLS 1 AND 2 , 164 (2010)
Hallet, X; Matefi-Tempfli, M; Michotte, S; Piraux, L; Vanacken, J; Moshchalkov, VV; Matefi-Tempfli, S, Quasi-Hexagonal Vortex-Pinning Lattice Using Anodized Aluminum Oxide Nanotemplates, SMALL 5, 2413 (2009) http://dx.doi.org/10.1002/smll.200900400
Matefi-Tempfli, S; Matefi-Tempfli, M, Vertically Aligned Nanowires on Flexible Silicone using a Supported Alumina Template prepared by Pulsed Anodization, ADVANCED MATERIALS 21, 4005 (2009) http://dx.doi.org/10.1002/adma.200900344
Chiriac, H; Dragos, OG; Grigoras, M; Ababei, G; Lupu, N, Magnetotransport Phenomena in [NiFe/Cu] Magnetic Multilayered Nanowires, IEEE TRANSACTIONS ON MAGNETICS 45, 4077 (2009) http://dx.doi.org/10.1109/TMAG.2009.2024636
Yu, HM; Dubois, J; Granville, S; Yu, DP; Ansermet, JP, Current susceptibility of magnetization in spin valves, JOURNAL OF PHYSICS D-APPLIED PHYSICS 42, 175004 (2009) http://dx.doi.org/10.1088/0022-3727/42/17/175004
Matefi-Tempfli, S; Matefi-Tempfli, M; Piraux, L, Fabrication of nanowires and nanostructures: combining template synthesis with patterning methods, APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING 96, 603 (2009) http://dx.doi.org/10.1007/s00339-009-5085-6
Huang, XB; Tan, LW; Cho, H; Stadler, BJH, Magnetoresistance and spin transfer torque in electrodeposited Co/Cu multilayered nanowire arrays with small diameters, JOURNAL OF APPLIED PHYSICS 105, 07D128 (2009) http://dx.doi.org/10.1063/1.3075990
Ferain, E; Legras, R, Templates for engineered nano-objects for use in microwave, electronic devices and biomedical sensing application, NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS 267, 1028 (2009) http://dx.doi.org/10.1016/j.nimb.2009.02.013

Wong, J; Greene, P; Dumas, RK; Liu, K, Probing magnetic configurations in Co/Cu multilayered nanowires, APPLIED PHYSICS LETTERS 94, 32504 (2009) http://dx.doi.org/10.1063/1.3073740					
Biziere, N; Mure, E; Ansermet, JP, Microwave spin-torque excitation in a template-synthesized nanomagnet, PHYSICAL REVIEW B 79, 12404 (2009) http://dx.doi.org/10.1103/PhysRevB.79.012404					
Ion, L; Enculescu, I; Antohe, S, Physical properties of CdTe nanowires electrodeposited by a template method, for photovoltaic applications, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS 10, 3241 (2008)					
Sharabani, R; Reuveni, S; Noy, G; Shapira, E; Sadeh, S; Selzer, Y, Fabrication of very high aspect ratio metal nanowires by a self-propulsion mechanism, NANO LETTERS 8, 1169 (2008) http://dx.doi.org/10.1021/nl073410v					
57	Ș. Antohe, L. Ion, **V. A. Antohe**, M. Ghenescu and H. Alexandru, *"Defects induced by ionizing radiations in AII-BVI pollycristalline thin films used as solar cell materials"* , J. Optoelectron. Adv. Mat. **9(5)**, 1382-1394 (2007), **IF: 0.827**, **AIS: 0.161**	10	5	5.000	**2.000**
Laiadi, W; Meftah, A; Meftah, A; Sengouga, N, Numerical simulation of the electron traps effect created by neutron irradiation on p(+) - n - n(+) GaAs solar cell performance, INDIAN JOURNAL OF PHYSICS 95, 1871 (2021) http://dx.doi.org/10.1007/s12648-020-01864-7					
Toma, O; Ion, L; Iftimie, S; Radu, A; Antohe, S, Structural, morphological and optical properties of rf - Sputtered CdS thin films, MATERIALS & DESIGN 100, 198 (2016) http://dx.doi.org/10.1016/j.matdes.2016.03.117					
Ion, L; Ghenescu, V; Ghenescu, M; Gugiu, MM; Iftimie, S; Radu, A; Vasile, N; Toma, O; Antohe, S, NEW STUDIES OF THE IONIZING IRRADIATION EFFECTS ON CdS/CdTe HETEROJUNCTION, ROMANIAN REPORTS IN PHYSICS 67, 1570 (2015)					
Toma, O; Ion, L; Girtan, M; Antohe, S, Optical, morphological and electrical studies of thermally vacuum evaporated CdTe thin films for photovoltaic applications, SOLAR ENERGY 108, 51 (2014) http://dx.doi.org/10.1016/j.solener.2014.06.031					
Iftimie, S; Tazlaoanu, C; Radu, A; Constantineanu, R; Vancea, C; Korganci, N; Ion, L; Antohe, S, THE SPECTRAL RESPONSE OF THE PHOTOVOLTAIC CELLS BASED ON CdS/CdTe HETEROJUNCTION WITH DIFFERENT TCO'S, DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES 9, 213 (2014)					
Antohe, S; Ghenescu, V; Iftimie, S; Radu, A; Toma, O; Ion, L, EFFECTS OF ALPHA PARTICLES IRRADIATION ON THE PHOTO-ELECTRICAL PROPERTIES OF CdS/CdTe HETEROJUNCTIONS, DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES 7, 941 (2012)					
Antohe, S; Iftimie, S; Ghenescu, V; Constantineanu, R; Gugiu, MM; Ion, M; Stan, I; Radu, A; Ion, L, EFFECT OF PROTONS IRRADIATION ON THE PERFORMANCES OF CdS/CdTe PHOTOVOLTAIC CELLS FOR SPACE APPLICATIONS, ROMANIAN REPORTS IN PHYSICS 64, 1153 (2012)					
Toma, O; Iftimie, S; Besleaga, C; Mitran, TL; Ghenescu, V; Porumb, O; Toderas, A; Radu, M; Ion, L; Antohe, S, NEW INVESTIGATIONS APPLIED ON CADMIUM SULFIDE THIN FILMS FOR PHOTOVOLTAIC APPLICATIONS, CHALCOGENIDE LETTERS 8, 747 (2011)					
Guster, B; Ghenescu, V; Ion, L; Radu, A; Porumb, O; Antohe, S, Temperature Dependent Resistivity and Hall Effect in Proton Irradiated CdS Thin Films, PHYSICS CONFERENCE (TIM-10) 1387, (2011) http://dx.doi.org/10.1063/1.3647070					
Ion, L; Rusu, MI; Socol, G; Mihailescu, IN; Tazlaoanu, C; Antohe, S, Electrical and optical properties of nanostructured ZnO thin films for optoelectronic applications, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS 10, 2599 (2008)					
58	L. Ion, **V. A. Antohe**, M. Ghenescu, O. Ghenescu, R. Băzăvan, M. Dănilă, M. M. Gugiu and Ș. Antohe, *"The effect of ionizing radiations on the structural, electrical and optical properties of A^{II}-B^{VI} polycrystalline thin films used as solar cell materials"* , Proc. Thin-Film Compound Semiconductor Photovoltaics **1012**, 343-348 (2007), doi: 10.1557/PROC-1012-Y12-01, **IF: N/A**, **AIS: N/A**	4	8	6.500	**0.615**
Toma, O; Ion, L; Girtan, M; Antohe, S, Optical, morphological and electrical studies of thermally vacuum evaporated CdTe thin films for photovoltaic applications, SOLAR ENERGY 108, 51 (2014) http://dx.doi.org/10.1016/j.solener.2014.06.031					
Antohe, S; Ghenescu, V; Iftimie, S; Radu, A; Toma, O; Ion, L, EFFECTS OF ALPHA PARTICLES IRRADIATION ON THE PHOTO-ELECTRICAL PROPERTIES OF CdS/CdTe HETEROJUNCTIONS, DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES 7, 941 (2012)					
Guster, B; Ghenescu, V; Ion, L; Radu, A; Porumb, O; Antohe, S, Temperature Dependent Resistivity and Hall Effect in Proton Irradiated CdS Thin Films, PHYSICS CONFERENCE (TIM-10) 1387, (2011) http://dx.doi.org/10.1063/1.3647070					
Bazavan, R; Ghenescu, O; Ghenescu, M; Crisan, D; Radu, A; Ion, L; Antohe, S, Effects of proton irradiation on CdTe thin films used in photovoltaic applications, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS 10, 3048 (2008)					
59	L. Ion, **V. A. Antohe** and Ș. Antohe, *"Defects induced by electron irradiation in CdSe thin films"* , J. Optoelectron. Adv. Mat. **7(4)**, 1847-1858 (2005), **IF: 1.138**, **AIS: N/A**	4	3	3.000	**1.333**
Ivashchenko, MM; Opanasyuk, AS; Perekrestov, V; Kosyak, VV; Gnatenko, YP; Kolomiets, VM, Morphological, structural, compositional properties and IR-spectroscopy of CdSe films deposited by close-spaced vacuum sublimation, VACUUM 119, 81 (2015) http://dx.doi.org/10.1016/j.vacuum.2015.04.036					
Gnatenko, YP; Opanasyuk, AS; Ivashchenko, MM; Bukivskij, PM; Faryna, IO, Study of the correlation between structural and photoluminescence properties of CdSe thin films deposited by close-spaced vacuum sublimation, MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING 26, 663 (2014) http://dx.doi.org/10.1016/j.mssp.2014.06.013					
Antohe, S; Iftimie, S; Ghenescu, V; Constantineanu, R; Gugiu, MM; Ion, M; Stan, I; Radu, A; Ion, L, EFFECT OF PROTONS IRRADIATION ON THE PERFORMANCES OF CdS/CdTe PHOTOVOLTAIC CELLS FOR SPACE APPLICATIONS, ROMANIAN REPORTS IN PHYSICS 64, 1153 (2012)					
Nesheva, D; Levi, Z; Aneva, Z, Size effects and lattice disorder in GeS2/CdSe nanostructures, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS 7, 1837 (2005)					

60	Ș. Antohe, L. Ion and **V. A. Antohe**, *"The effect of the electron irradiation on the structural and electrical properties of A^{II}-B^{VI} thin polycrystalline films"* , J. Optoelectron. Adv. Mat. **5(4)**, 801-816 (2003), IF: 0.996, AIS: N/A	18	3	3.000	**6.000**
Ashith, VK; Priya, K; Rao, GK, The electrical properties of n-CdS/p-CdTe and n-ZnS/p-CdTe heterojunctions fabricated by a combination of SILAR and vacuum deposition techniques, PHYSICA B-CONDENSED MATTER 614, 413025 (2021) http://dx.doi.org/10.1016/j.physb.2021.413025					
Mohamed, HA; Taya, YA, Theoretical analysis of the effect of doping and minority charge carrier life time in CIGS solar cells, OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS 15, 157 (2021)					
Laiadi, W; Meftah, A; Meftah, A; Sengouga, N, Numerical simulation of the electron traps effect created by neutron irradiation on p(+) - n - n(+) GaAs solar cell performance, INDIAN JOURNAL OF PHYSICS 95, 1871 (2021) http://dx.doi.org/10.1007/s12648-020-01864-7					
Qasrawi, AF; Abed, TY, Structural and optoelectronic properties of CdS/Y/CdS thin films, THIN SOLID FILMS 679, 72 (2019) http://dx.doi.org/10.1016/j.tsf.2019.04.016					
Bakly, AAK; Spencer, BF; O'Brien, P, The deposition of thin films of cadmium zinc sulfide Cd1-x Zn (x) S at 250 A degrees C from spin-coated xanthato complexes: a potential route to window layers for photovoltaic cells, JOURNAL OF MATERIALS SCIENCE 53, 4360 (2018) http://dx.doi.org/10.1007/s10853-017-1872-1					
Swami, SK; Chaturvedi, N; Kumar, A; Dutta, V, Effect of deposition temperature on the structural and electrical properties of spray deposited kesterite (Cu2ZnSnS4) films, SOLAR ENERGY 122, 508 (2015) http://dx.doi.org/10.1016/j.solener.2015.09.027					
Iftimie, S; Tazlaoanu, C; Radu, A; Constantineanu, R; Vancea, C; Korganci, N; Ion, L; Antohe, S, THE SPECTRAL RESPONSE OF THE PHOTOVOLTAIC CELLS BASED ON CdS/CdTe HETEROJUNCTION WITH DIFFERENT TCO'S, DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES 9, 213 (2014)					
Maity, S; Dalapati, P; Manik, NB, Temperature dependent dark current-voltage study of thionine dye doped solid state photo electrochemical cell (PEC), JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS 15, 1417 (2013)					
Ashour, A; Abdel-Hamid, MO; El-Sayed, NZ, CONDUCTION STUDIES ON EVAPORATED CADMIUM SULPHIDE THIN FILMS, CHALCOGENIDE LETTERS 9, 371 (2012)					
De, S; Satyanarayana, BS; Rao, M; Moorthy, VHS, DEFECT DENSITY ESTIMATION IN NANOCLUSTER CARBON THIN FILMS, ROMANIAN JOURNAL OF PHYSICS 57, 657 (2012)					
Toma, O; Iftimie, S; Besleaga, C; Mitran, TL; Ghenescu, V; Porumb, O; Toderas, A; Radu, M; Ion, L; Antohe, S, NEW INVESTIGATIONS APPLIED ON CADMIUM SULFIDE THIN FILMS FOR PHOTOVOLTAIC APPLICATIONS, CHALCOGENIDE LETTERS 8, 747 (2011)					
Ghenescu, V; Ion, L; Ghenescu, M; Rusu, M; Gugiu, M; Velisa, G; Porumb, O; Antohe, S, Effects of proton irradiation on structural and optical properties of CdS thin films used in photovoltaic applications, OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS 3, 1023 (2009)					
El Akkad, F; Ashour, H, Photoinduced current transient spectroscopy technique applied to the study of point defects in polycrystalline CdS thin films, JOURNAL OF APPLIED PHYSICS 105, 93113 (2009) http://dx.doi.org/10.1063/1.3117510					
Singh, M; Vijay, YK; Sharma, BK, A variable electron beam and its irradiation effect on optical and electrical properties of CdS thin films, PRAMANA-JOURNAL OF PHYSICS 69, 631 (2007) http://dx.doi.org/10.1007/s12043-007-0161-y					
Tigau, N, Structure and electrical conduction of Sb2O3 thin films, CRYSTAL RESEARCH AND TECHNOLOGY 41, 1106 (2006) http://dx.doi.org/10.1002/crat.200610730					
Nesheva, D; Levi, Z; Aneva, Z, Size effects and lattice disorder in GeS2/CdSe nanostructures, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS 7, 1837 (2005)					
Ion, L; Antohe, S, Electron-irradiation effects on CdSe thin films investigated by thermally stimulated current method, JOURNAL OF APPLIED PHYSICS 97, 13513 (2005) http://dx.doi.org/10.1063/1.1830090					
Ion, L; Antohe, S; Popescu, M; Scarlat, F; Sava, F; Ionescu, F, Structure and electrical properties of electron irradiated CdSe thin films, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS 6, 113 (2004)					
Număr total de citări (fără auto-citări)		**671**			
Punctaj total: $C = \Sigma_i(c_i/n_i^{ef})$					**112.155**