Prof. univ. dr RODICA VLĂDOIU

Fișa de îndeplinire a standardelor minimale CNATDCU

Sumar

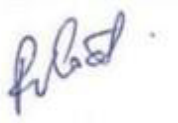
Nr. Crt.	Tipul de activitate / Criteriu	Indicator obținut de candidat	Standard minimal	Criteriu îndeplinit (DA/NU)	Depășire față de minimal (%)
1	A. Activitatea didactică și profesională	**23.6062**	2	DA	>100%
2	B.1. Activitatea de cercetare: articole științifice originale în extenso ca autor (I)	**4.8805**	4	DA	22.01
3	B.2. Activitatea de cercetare: articole științifice originale în extenso ca prim autor sau autor corespondent (P)	**13.782**	4	DA	>100%
4	C. Citări în reviste cu factor de impact	**76.914**	40	DA	90.37
5	Indicele Hirsch (h-index)	**18**	10	DA	80.000
Punctaj total CNATDCU (T)		**40.3448**	12	DA	212.87

Punctaj total CNATDCU (T): A + I/2 + P/2 + C/20 + h/5 23.6062+4.8805/2+13.782/2+76.149/20+18/5= **40.3448** (**minim 12 pentru Abilitare/CS-I/Prof. Univ.)**	**40.3448**

Ultima actualizare: 10/10/2025

Prof. univ. dr. RODICA VLĂDOIU

Semnătură



2.1 Fișa de îndeplinire a standardelor minimale CNATDCU Criteriul A

VLADOIU RODICA

A. Activitatea didactică și profesională

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

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 (ni)	Nr. efectiv de autori (ni ef)	Punctaj (1/ni ef)
1	**R. Vladoiu***, A. Mandes, V. Dinca, M. Contulov, V. Ciupina, C.P. Lungu, G. Musa, Industrial Plasma Technology - Cap.29, Investigation of DLC and Multilayer Coatings Hydrofobic Character for Biomedical Applications, **Ed.Willey-VCH** pg.357-363, 2010	7	6.00	0.1666
2	**R. Vladoiu***, V. Ciupina, Contulov, V. Dinca, A. Mandes, M. Prodan, DiamondLike Carbon films, Cap.6 DLC ThinFilmsGrowth in Thermionic Vacuum Arc Technologies: TVA and GTVA.**Ed. Nova Publishers**, pg.141- 149, 2012	6	5.50	0.1818
3	**R. Vladoiu***, C. Porosnicu, A. Mandes**,** I. Jepu, V. Dinca, A. Marcu, M. Lungu, G. Prodan, L. Avotina – "DLC ThinFilmsand Carbon Nanocomposite Growth by Thermionic Vacuum Arc (TVA) Technology" Chapter in "Diamond and Carbon Composites and Nanocomposites" – 12pagini **Ed. InTECH,** Chapter 5, 2016	9	7.00	0.1428
4	Vladoiu, R*, Tichy, M, Mandes, A Dinca, V ; Kudrna, P, Thermionic Vacuum Arc-A Versatile Technology for Thin Film Deposition and Its Applications- review COATINGS Vol: 10: 3 Article: 211 DOI: 10.3390/coatings10030211, 2020	5	5.00	0.2000
5	**Vladoiu R***., A. Mandes, Dinca V., Kudrna P., Tichy M., Polosan S. Ciobotaru C, Versatile techniques based on the Thermionic Vacuum Arc (TVA) and laser-induced TVA methods for Mg/Mg:X thin films deposition-A review, JOURNAL OF ALLOYS AND COMPOUNDS, Vol. 869, Article Number 159364, (2021)	7	6.00	0.1666
$A_2=\sum_i(1/n_i^{ef})$				**0.8578**

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

Nr. Crt.	Referință bibliografică (*Autor principal sau unic autor)	Nr. de autori (ni)	Nr. efectiv de autori (ni ef)	Punctaj (0.5/ni ef)
1	**R. Vlădoiu** *Tehnologii cu plasma* Ovidius University Press, Constanţa, ISBN 978-973-614-390-8 (2007) 317 pagini	1	1.00	0.5000
2	**R. Vlădoiu, M. Braic** *Nanostructuri de carbon generate in plasma* Ovidius University Press, Constanţa, ISBN 978-973-614-458-5 (2008) 221 pagini	2	2.00	0.2500
3	**R. Vladoiu** *Fizica plasmei si aplicatii* Lucrari de laborator Ovidius University Press ISBN 978-973-614-536-0 (2010)133 pag	1	1.00	0.5000
4	**R. Vladoiu,A. Mandes,** *Spectroscopie si Laseri* Lucrari de laborator Ovidius University Press ISBN 978-973-614-900-9 (2016)127 pag	2	2.00	0.2500
5	V.Ciupină, P. Petculescu, C. Oprea, D Mondescu, V. Mârza, M.Belc, O.Teren, **R. Vlădoiu**, A. Mincu, L. Petcu, M. Gîrțu, Fizică, 1997, Teste pentru concursul de admitere la Facultatea de medicină, Ovidius University Press – 288 pagini, 1997 ISBN973-9289-22-3	11	8.00	0.0625
Punctaj total $A_4=\sum_i(0.5/n_i^{ef})$				**1.5625**

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 (ni)	Nr. efectiv de autori (ni ef)	Punctaj (0.2/ni ef)
1	**R. Vladoiu**, Materials, Special Issue: Carbon-Refractory Metal Nanostructures: Synthesis, Characterization and Applications, DOI10.3390/ma14040831, MDPI, CH-4052 Basel, Switzerland 2021, article number 831, e-ISSN 1996-1944, Editorial	1	1	0.2000
2	V.Ciupină, G. Musa, **R. Vladoiu**, Plasma sources Science and technology, vol. 14, Is 2, 17th European Conference on Atomic and Molecular Physics of Ionized Gases, 2005, ISSN 0963-0252, IOP Publishing Ltd, BRISTOL BS1 6BE, England, Editorial	3	3	0.0666
3	**R. Vladoiu**, Coatings, Special Issue Thin Film Coatings for Multifunctional Applications MDPI, CH- 4052 Basel, Switzerland 2020, ISSN 2079-6412	1	1	0.2000

4	**R. Vladoiu**, M. Tichy, S. Polosan, Nanomaterials, Special Issue Applied Physics and Nanomaterials, MDPI, CH- 4052 Basel, Switzerland 2023, ISSN 2079-4991	3	3	0.0666
Punctaj total $A_5=\sum_i(0.2/n_i^{ef})$				**0.5332**

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 (ni)	Nr. efectiv de autori (ni ef)	Punctaj (0.2/ni ef)
1	G. Musa, N. Ekem, T. Akan, S. Pat, M. Z Balbag, M. I. Cenik, V. Ciupina, **R. Vladoiu,** M. Tanisli, O. Ozen *Investigation of the carbon produced by methane pulsed discharge* Six International Conference of the Balkan Physical Union Book Series: AIP CONFERENCE PROCEEDINGS Volume: 899 Pages: 691-691 (2007)	10	7.50	0.0266
2	G.Musa, Surdu-Bob, C, **R. Vladoiu,** N. Ekem, M. I. Cenik, S. Pat, M. Z Balbag, T. Akan *Emission spectra of two interacting Plasmas*, Vol: 899, P: 693-693 (2007) Six International Conference of the Balkan Physical Union Book Series: AIP CONFERENCE PROCEEDINGS, Vol: 899, P: 692-692 (2007)	8	6.50	0.0307
3	Ekem, N.; Akan, T.; Pat, S.; M. Z Balbag, M. I. Cenik, Karakas E., **R. Vladoiu,** G.Musa *Investigation of properties of boron thin film deposited by thermionic vacuum arc technology*, Six International Conference of the Balkan Physical Union Book Series: AIP CONFERENCE PROCEEDINGS**,** Vol.: 899 Pages: 699-699 (2007)	8	6.50	0.0307
4	Kuncser, V., Schinteie, G.; Palade, P.; I. Mustata, C. P. Lungu, N. Stefan, Chiriac H,R. Vladoiu, Filoti G, *Spin configurations and interfacial diffusion in exchange bias and spin valve systems with Ir-Mn antiferromagnetic pinning layers*, **Conference**: 7th International Symposium on the Industrial Applications of the Mossbauer Effect (ISIAME 2008) Budapest, HUNGARY 2008, ISIAME 2008 Pages: 465-471 2009, DOI10.1007/978-3-642-01369-0_62	9	7.00	0.02857
5	Ciupina, V , Morjan, IG Alexandrescu, R Dumitrache, FV ; Prodan, G Lungu, C **Vladoiu, R** , I Mustata, Zarovschi, V Sullivan, J Saied, S Vasile, E, Oancea-Stanescu, I , Prodan, M Manole, D Mandes, A , Dinca, V Contulov, M, *Synthesis and characterization of some carbon based nanostructures*, NANOENGINEERING: FABRICATION, PROPERTIES, OPTICS, AND DEVICES VII, Proceedings of SPIE, Vol: 7764, Article Number: 77640O , (2010), DOI 10.1117/12.859456	18	15.75	0.0127
6	Ciupina, V.; Morjan, I.; Lungu, C. P.; **R. Vladoiu** G. Prodan, M. Prodan, V. Zarovschi, C. Porosnicu, Stanescu, M. Contulov, M, Mandes, A , Dinca, V Sugiyama K., *Electron MIcroscopy*	13	9.00	0.0222

	Characterization Of Some Carbon Based Nanostructures With Application In Divertors Coatings From Fusion Reactor, **Conference**: Conference on Nanostructured Thin Films IVLocation: San Diego, CA Date: AUG 23-25, 2011 NANOSTRUCTURED THIN FILMS IV Book Series: Proceedings of SPIE Vol: 8104 Article Number: 810411 (2011) **ISBN:**978-1-62841-724-1, **ISSN:** 0277-786X			
7	V. Ciupina, C. P. Lungu, **R. Vladoiu,** T-D. Epure, G. Prodan, C. Porosnicu, M. Prodan, I. M. Stanescu, M. Contulov, A. Mandes, V. Dinca, V. Zarovschi, „*Application of carbon-aluminum nanostructures in divertors coatings from fusion reactor*", **PROCEEDINGS OF SPIE** - Nanostructured Thin Films V, Vol 8465, (2012), San Diego, California, United States **ISBN:**978-1-62841-724-1, **ISSN:** 0277-786X	12	8.50	0.0235
8	V. Ciupina, C. P. Lungu, **R. Vladoiu**; T-D. Epure, G. Prodan, C.Rosca, C. Porosnicu, Jepu I. Belc M., M. Prodan, I. M. Stanescu, Stefanov C. M. Contulov, A. Mandes, V. Dinca,, E. Vasile, V. Zarovschi, Nicolescu, V, *SiC multi-layer protective coating on carbon obtained by thermionic vacuum arc method*, **Conference**: Conference on Nanostructured Thin Films VI Location: San Diego, CA Date: AUG 28-29, 2013 NANOSTRUCTURED THIN FILMS VI Book Series:Proceedings of SPIE Vol: 8818 Article Number: UNSP 881807 (2013) **ISBN:**978-1-62841-724-1, **ISSN:** 0277-786X	18	15.75	0.0126
9	V. Ciupina, C. P. Lungu, **R. Vladoiu** G. Prodan, Antohe S, C. Porosnicu,. I. M. Stanescu, Jepu I., Iftimie S., M. Prodan, A. Mandes, V. Dinca,, E. Vasile, V. Zarovschi, Nicolescu, V, *The effect of the substrate temperature and the acceleration potential drop on the structural and physical properties of SiC thin films deposed by TVA method*, **Conference:** Conference on Nanostructured Thin Films VII Location: San Diego, 2014 NANOSTRUCTURED THIN FILMS VII Book Series:Proceedings of SPIE Volume: 9172 Article Number:91720Y, 2014 ISBN:978-1-62841-724-1, ISSN**:** 0277-786X	15	15	0.0133
10	V. Ciupina, C. P. Lungu, **R. Vladoiu,** G. Prodan, C, Antohe, S, Porosnicu, C, Stanescu, I, Jepu, I, Iftimie, S, Belc, M, Mandes, A, Dinca, V, Vasile, E, Zarovski, V, Nicolescu, V, Caraiane, A ,*Structural and electrical properties of N doped SiC nanostructures obtained by TVA method* Book Series: Proceedings of SPIE NANOSTRUCTURED THIN FILMS VIII, 2015, Volume**:** 9558, Article Number**:** 955808, **DOI:** 10.1117/12.2187362	16	15.25	0.0131
11	G. Musa, N. Ekem, T. Akan, M. Z Balbag, M. I. Cenik, **R. Vladoiu,** M. Ianisli, O Ozer *Investigation of carbon produced by methane pulsed discharge*, International Conference on Superlattices, Nano-Structures and Nano-Devices PHYSICA STATUS SOLIDI C- CURRENT TOPICS IN SOLID STATE PHYSICS, 2007, Vol 4, Issue 2, Pag 521-523, ISSN: 1610-1634, DOI**:** 10.1002/pssc.200673313	7	6.00	0.0333

12	V. Ciupina, E. Vasile, Porosnicu, C, G. Prodan, C. P. Lungu, **R. Vladoiu**, I. Jepu, Mandes, A, Dinca, V, Caraiane, A Nicolescu, V, Dinca,P, Zaharia A. Characterization of nitrogen doped silicon-carbon multi-layer nanostructures obtained by TVA method, Book Series: Proceedings of SPIE NANOSTRUCTURED THIN FILMS IX, 2016, Volume: 9929, ISSN:0277-786X, DOI 10.1117/12.2237156	13	9.00	0.0222
13	V. Ciupina, E. Vasile, Porosnicu, C, C. P. Lungu,G. Prodan, **R. Vladoiu,** I. Jepu, Mandes, A, Dinca, V, Caraiane, A Nicolescu, Cupsa O., V, Dinca,P, Zaharia A. Nitrogen Doped Silicon-Carbon Multilayer Protective Coatings on Carbon Obtained By Thermionic Vacuum Arc (TVA), Book Series: Proceedings of SPIE NANOSTRUCTURED THIN FILMS X, 2017, Volume: 10356 Article Number: UNSP 103560O, DOI 10.1117/12.2272579	15	15	0.0133
14	V. Ciupina, C. P. Lungu, **R. Vladoiu** G. Prodan, Porosnicu, C, , E. Vasile, Prodan M, Nicolescu V., I. Jepu, Mandes, A, Dinca, V, Cupsa O., Nanostructured Carbon-Titanium multilayer films obtained by Thermionic Vacuum Arc method Book Series: Proceedings of SPIE NANOSTRUCTURED THIN FILMS XI, 2018, Volume: 10731 Article Number: 1073107, DOI 10.1117/12.2320474	12	8.50	0.0235
15	Ciupina, V, Prioteasa, I, Ilie, D, Manu, R Petrasescu, L (Tutun, SG Dinca, P ; Mustata, I Lungu, CP ; Jepu, I Vasile, E Nicolescu, V, **Vladoiu, R**, Synthesis and Characterization of Copper Cobalt/Copper/Iron Nanostructurated Films with Magnetoresistive Properties, AIP Conference Proceedings, PROCEEDINGS OF THE TURKISH PHYSICAL SOCIETY 32ND INTERNATIONAL PHYSICS CONGRESS (TPS32), Vol. 1815, AIP CONFERENCE PROCEEDINGS, Article Number 040001, 2017, DOI 10.1063/1.4976370	13	9.00	0.0222
16	**R. Vladoiu,** Mandes, A, Dinca, V, G. Prodan, Titanium-based thin films for protective coatings prepared by TVA (Thermionic Vacuum Arc) technology, 2018 5TH INTERNATIONAL CONFERENCE ON MECHANICAL, MATERIALS AND MANUFACTURING (ICMMM 2018) Volume249, Article Number 01005 DOI, 2018, 10.1051/matecconf/201824901005	4	4	0.0500
17	V. Ciupina, E. Vasile, Porosnicu**, R. Vladoiu**, Mandes, A, Dinca, V, Nicolescu, V, Manu R, Dinca,P, Zaharia A. Nitrogen Doped Silicon-Carbon Multilayer Protective Coatings on Carbon Obtained By Thermionic Vacuum Arc (TVA) Method, AIP Conference Proceedings, PROCEEDINGS OF THE TURKISH PHYSICAL SOCIETY 33ND INTERNATIONAL PHYSICS CONGRESS (TPS33), AIP CONFERENCE PROCEEDINGS Vol. 1935, , Article Number 050001, 2018, DOI 10.1063/1.5025973	10	7.50	0.0266
18	V. Ciupina, C. P. Lungu. E. Vasile, Porosnicu, C, G. Prodan, C. Porosnicu,, **R. Vladoiu**, Mandes, A, Dinca, V, Nicolescu V, Prodan M, Manu R., Carbon-Titanium Multilayer Films: Synthezis and Characterization AIP Conference Proceedings, PROCEEDINGS OF THE TURKISH PHYSICAL SOCIETY 34ND INTERNATIONAL PHYSICS CONGRESS (TPS34), Vol. 2042, , Article Number 020034, 2018, AIP CONFERENCE PROCEEDINGS DOI 10.1063/1.5078906	12	8.50	0.0235

19	V. Ciupina, C. P. Lungu. E. Vasile, Porosnicu, C, G. Prodan, C. Porosnicu,, R**. Vladoiu,** Mandes, A, Dinca, V, Nicolescu, Prodan M, Manu R., Titanium - Carbon Multilayer Nanostructures Obtained by Thermionic Vacuum Arc Method AIP Conference Proceedings, PROCEEDINGS OF THE TURKISH PHYSICAL SOCIETY 35ND INTERNATIONAL PHYSICS CONGRESS (TPS35), Vol. 2178, , Article Number 030035, 2019, AIP CONFERENCE PROCEEDINGS DOI 10.1063/1.5135433	12	8.50	0.0235
20	V. Ciupina, C. P. Lungu. **R. Vladoiu,** G. Prodan Porosnicu, C, E. Vasile, Prodan M, Nicolescu V, Mandes, A, Dinca, V, Cupsa O Carbon-Titanium based multilayer nanostructures obtained by TVA method, Book Series: Proceedings of SPIE NANOENGINEERING: FABRICATION, PROPERTIES, OPTICS, THIN FILMS, AND DEVICES XVI, 2019, Volume: 11089, Article Number: UNSP 110890N, DOI 10.1117/12.2528663	11	8.00	0.0250
21	V. Ciupina, C. P. Lungu. **R. Vladoiu**, G. Prodan Porosnicu, C, E. Vasile, Prodan M, Nicolescu V, Dinca, V, Manu R., Cupsa O, Velea A Characterization of C-Ti multilayer thin films obtained by TVA technology, NANOENGINEERING: FABRICATION, PROPERTIES, OPTICS, THIN FILMS, AND DEVICES XVII, 2020, Volume: 11467, Article Number: 114671R, DOI 10.1117/12.2567927	12	8.50	0.0235
22	Ciupina V, **Vladoiu R**, Prodan G C,.Porosnicu C, Satulu V, Andronescu E., Vasile B., Nicolescu V. C/Ti/C/Al/C/Si multilayer and C+Ti/C+Al/C+Si composite thin films: synthesis and characterization, Nanoengineering: Fabrication, Properties, Optics, Thin Films, and Devices XX, Proceeding of SPIE, 2023, Vol 12653, pp10-20, https://doi.org/10.1117/12.2676848	8	6.50	0.0307
Punctaj total $A_6=\sum_i(0.2/n_i^{ef})$				**0.5312**

A 8. Brevete de invenție naționale acordate

Nr. Crt.	Referință bibliografică (*Autor principal sau unic autor)	Nr. de autori (ni)	Nr. efectiv de autori (ni ef)	Punctaj (0.5/ni ef)
1	C P LUNGU, C C POROSNICU, I JEPU, C TICOS, M AUREL, V N ZAROSCHI, V TIRON, G POPA, **R VLĂDOIU**, V CIUPINA, Method for producing carbon-tungsten composite films with Thermionic Vacuum Arc, **Patent Number(s):** RO129461-A2 (OSIM)	10	7.50	0.0666
2	P CHIRU, V CIUPINA, I JEPU, A M LUNGU, P C LUNGU, C C POROSNICU, V TIRON, **R VLĂDOIU**, V N ZAROSCHI, Nanostructured Beryllium-carbon and beryllium-wolfram alloys and method for preparing the same, **Patent Number(s):** RO127300-A0 ; RO127300-A8 (OSIM)	9	7.00	0.0714
Punctaj total $A_8=\sum_i(0.5/n_i^{ef})$				**0.1380**

A.9. Director/responsabil/coordonator pentru programe de studii, programe de formare continuă, proiecte educaționale și proiecte de infrastructură (proiectele de cercetare se exclud)

Nr crt	Proiect educational (*Director de proiect)	Valoare (RON)	Punctaj
1	**Antrenare, Coordonare, Consiliere si Educatie in timpul Studentiei ACCES**, finanțat în cadrul Proiectului privind Învățământul Secundar – ROSE, prin acordul de grant nr. AG *258/SGU/NC/II din 25.11.2019 (2019-2022), director de proiect R. Vladoiu*	**351 191.52**	0.5
Punctaj total $A_9=\sum_i 0.5$			**0.5**

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

Nr crt	Proiect de cercetare (*Director de proiect)	Valoare (RON)	Valoare Vi (EUR)	Punctaj ($Vi/10^5$)
1	Vlădoiu Rodica* *Obtinerea materialelor avansate prin implementarea unui nou concept al tehnologiei plasma-laser, INOVATECH (PN-III-P4-ID-PCE-2016-0750),* **70 din 12/07/2017,** 2017-2019, valoare 4.5681 RON / EURO	850000	186072	1.8607
2	Vladoiu Rodica* *Sinteza si controlul grauntelor cristaline nanometrice intr-o matrice de carbon obtinute printr-un nou concept al metodei thermionic vacuum arc: LTVA), PN-II-ID-PCE-2012-4-0059, 78/2013,* 2013-2016, valoare 4.456 RON/=EURO	1125000	252468	2.5246
3	Vlădoiu Rodica* *Nanocompozite complexe pe baza de carbon si titan pentru aplicatii industriale* , CREATIF *PN-II-PT-PCCA-2011-3.2-1453)* **160 din 23/07/2012,** 2012-2016, valoare 4.456RON/ EURO	2700000	605924	6.0592
4	Vlădoiu Rodica* „*Nanostructuri pe bază de carbon obţinute prin tehnologiile: Arc Termionic în Vid (TVA) şi Arc Termionic în Vid in Flux de Gaz (G-TVA) – studiu calitativ comparativ*" GCARBTVA Proiect CNCSIS 230/2007, 2007-2010, valoare 3.3373 RON / EURO	990 000	296646	2.9664
5	Vlădoiu Rodica* "*Studiul comparativ al calitatii straturilor nanostructurate de carbon depuse prin metodele: arc termoionic in vid, arc catodic si pulverizare magnetron*" (CARBOCOMP) Proiect CEEX-CERES	575 000	163143	1.6314

	62/2006, 2006-2008, valoare 3.5245 RON / EURO			
6	„*Cercetari avansate pentru producerea acoperirilor combinatoriale de interes pentru fuziune*" CAPACIF Proiect CNMP 72-223/2008, Responsabil de proiect Vladoiu Rodica, 2008-2010, valoare 3.3373 RON/ EURO	27307	8182	0.0818
7	"*Tehnologii avansate pentru dezvoltarea straturilor antifricţiune ecologice de tip metal-carbon*" TEHMEH Proiect RELANSIN- CEEX 237/2006, Responsabil de proiect Vladoiu Rodica, 2006-2008, valoare 3.5245 RON/ EURO	105000	20791	0.2079
8	„*Materiale feroelectrice micro şi nanostructurate pentru memorii nevolatile*" MATFEROMEM Proiect MATNANTEH-CEEX 93/2006 Responsabil de proiect Vladoiu Rodica, 2006-2008, valoare 3.5245 RON/ EURO	82.000	23265	0.2326
9	„*Structuri de spin în magnetoelectronică*" SPINCOMEL Proiect MATNANTECH-CEEX 35/10.2005, 2006 Responsabil de proiect Vladoiu Rodica, 2005-2008, valoare 3.5245 RON / EURO	80000	2269	0.2269
	TOTAL PARTIAL A10			**15.7915**

Proiecte Internationale

Nr. crt.	Proiect de cercetare (*Director de proiect)	Valoare USD	Valoare Vi (EUR)	Punctaj ($Vi/10^5$)
1	*Study of structure and properties of novel functional materials* Project nr. 49 Order No.365/11.05.2021, theme 04-4-1142-2021/2025 JINR DUBNA valoare 1 USD = 0.95 EURO	2300	2185	0.2185
2	*Investigation of binary combinatorial films based on silver and platinum by Modern Neutron Scattering Methods* Project nr. 45 Order No. 269/20.05.2020 theme 04-4-1121-2015/2020 JINR DUBNA 1 USD = 0.95 EURO	4000	3800	0.3800
3	*On the use of neutron scattering in condensed matter MSCM Student training course* Project nr. 56 / Order No.. 322/21.05.2018 theme 04-4-1121-2015/2020 JINR DUBNA 1 USD = 0.95 EURO	6100	5795	0.5795

4	*International Round Table for dissemination of theresults in synthesis characterization of advanced materials by new technologies* Project nr. 55 / Order No.. 322/21.05.2018 theme 04-4-1121-2015/2020 JINR DUBNA 1 USD = 0.95 EURO	2500	2375	0.2375
5	*Investigation of binary combinatorial films based on silver and platinum by Modern Neutron Scattering Methods* Project nr. 55 / Order No. 397/27.05.2019 theme 04-4-1121-2015/2020 JINR DUBNA 1 USD = 0.95 EURO	2500	2375	0.2375
6	*Investigation of binary combinatorial films based on platinum by Modern Neutron Scattering Methods* Project nr. 60 /Order No.. 322/21.05.2018 theme 04-4-1121-2015/2020 JINR DUBNA 1 USD = 0.95 EURO	2100	1995	0.1995
7	*Advanced researches by thermal neutron scattering methods on the binary and ternary combinatorial films based on titanium* Project 49Orderno220/ 10.04.2017 theme *04-4-1121-2015/2017* JINR DUBNA 1 USD = 0.95 EURO	3300	3135	0.3135
8	*Workshop on condensed matter research by means of neutron scattering methods (CMRNS)* Project 50 Order no 220/ 10.04.2017 theme *04-4-1121-2015/2017* JINR DUBNA 1 USD = 0.95 EURO	3800	3610	0.3610
9	*Microstructure investigation of materials based on carbon at nanoscale by means of small angle scattering* Project 83 ORDER No. 96 din 15.02.2016 nr p*roiect 04-4-1121-2015/2017* JINR DUBNA 1 USD = 0.95 EURO	1500	1425	0.1425
10	*Student training course: advanced materials investigation by means of neutron scattering methods* Project nr. 84 din Ordinul IUCN nr. . 96/15.02.2016 / tema *04-4-1121-2015/2017* JINR DUBNA 1 USD = 0.95 EURO	1000	950	0.095
11	Participation to 3rd SANS –YuMO User Meeting at the Frank Laboratory of Neutron Physics of the Joint Institute for Nuclear Research Project 33 Order No. 96 /15.02.2016 Theme *04-4-1121-2015/2017* JINR DUBNA 1 USD = 0.95 EURO	1500	1425	0.1425
12	*Microstructure investigation of materials based on carbon at nanoscale by means of small angle scattering"*	1000	950	0.095

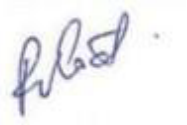
	P*roiect* nr47/ Order No. 34/23.01.2015, theme *04-4-1121-2015/2017*, JINR DUBNA			
13	*Workshop on condensed matter research by means of neutron scattering methods* P*roiect* nr.48/ Order No. 34/23.01.2015, theme *04-4-1121-2015/2017* JINR DUBNA 1 USD = 0.95 EURO	2000	1900	0.19
14	Modèles thermocinétiques pour la croissance de Graphène et de Nanotubes de carbone par dépôt chimique en phasevapeurassisté par plasma**AUF-FRS** LAgencieuniversitaire de la francophonie (AUF) Projet de recherché conjoints 2016 - 2018 / **-Bulgarie/France/ Romania** 20000 EURO, din care UOC: 5000 EURO	5000 EURO	5000	0.5
				3.692
$A_{10}=\sum_i Vi/100000$ A_{10}= **15.7915 + 3.692**				**19.4835**

Total A2 =**0.8578 A4** =1.5625 **A5 =0.5332 A6 =0.5312 A_8 =0.1380 A_9 =0.5 A_{10}=19.4835**

TOTAL A = 23.6062

Data : 2.10.2025 **SEMNATURA**

Prof. dr. Rodica Vlădoiu



2.2. Fișa de îndeplinire a standardelor minimale CNATDCU Criteriul B- pentru I VLĂDOIU RODICA

C. Recunoașterea impactului activității (excluzând auto-citările)

Nr Crt	Referințe bibliografice (*Autor principal sau unic autor)	AIS	Autor principal (Da/Nu)	Nr. autori (n_i)	Nr. efectiv autori n_i^{ef}	Punctaj AIS/n_i^{ef}
F.1	A. Mandes, **R. Vladoiu**, V. Dinca, P. Kudrna, M. Tichy, , E. Matei, S. Polosan, *Bilayered metallic cathodes consisting of pure Mg and Zn:Al thin films optimized by Laser-induced Thermionic Vacuum Arc (LTVA) technology*, **APPLIED SURFACE SCIENCE ADVANCES**, 28, (2025), 100787, DOI: **10.1016/j.apsadv.2025.100787 Q1 IF 8.7, AIS 1.262**	1.262		7	6	0.210
F2	V. Ciupina, **R. Vladoiu**, G. Prodan, C. Porosnicu, C. P. Lungu, V. Satulu, M., A. Mandes, V. Dinca, E. Andronescu, B. Vasile, V. Nicolescu, S. Polosan, E. Matei, *N-Doped C/Ti/C/Al/C/Si Multilayer And N-Doped C Plus Ti/C Plus Al/C Plus Si Composite Thin Films: Synthesis And Characterization*, **ROMANIAN REPORTS IN PHYSICS**, **77,** Issue **3,** (2025), DOI: **10.59277/RomRepPhys.2025.77.503, Q2 IF 2.2, AIS 0.177**	0.177		13	9	0.019
F3	R. Vladoiu*, A. Mandes, V. Dinca, P. Kudrna, M. Tichy, , C. Ciobotaru, S. Polosan, *Versatile techniques based on the Thermionic Vacuum Arc (TVA) and laser-induced TVA methods for Mg/Mg:X thin films deposition - A review*, **J. of MAGN. & ALLOYS.** 12, 8 (2024), p. 3115-3134**,** DOI 10.1016/j.jma.2024.08.012 **Q1 IF 13.8, AIS 2.051**	2.051	**Da**	8	6.5	0.3155
F4	V. Dinca, A. Mandes, **R. Vladoiu**, G. Prodan, V. Ciupina, S. Polosan, Microstructural and morphological characterization of the cobalt-nickel thin films deposited by the Laser-induced Thermionic Vacuum Arc method, **COATINGS** 13 (2023) 13060984 **IF 2.9, AIS 0.418**	0.418		6	5.5	0.076
F5	**R. Vladoiu***, A. Mandes, , V. Dinca, , E. Matei, S. Polosan, *Synthesis of cobalt-nickel aluminate spinels by LTVA method and thermal annealing processes*,	0.712	**Da**	5	5	0.142

	NANOMATERIALS, 2022, Volume:*12*(21), article no 3895 2022, **Q1 IF 5.3, AIS 0.712**					
F6	**R. Vladoiu***, A. Mandes, V. Dinca, E. Matei, S. PolosanThe Synergistic Effect of the Laser Beam on the Thermionic Vacuum Arc Method for Titanium-Doped Chromium Thin Film Deposition, **COATINGS** 12, Issue 4 (2022), **IF 3.4, AIS 0.439**	0.439	**Da**	5	5	0.088
F7	V. Ciupina, C. P. Lungu, R. Vladoiu**, G. Prodan,** C. Porosnicu, E Vasile, M. Prodan, V. Nicolescu, A. Mandes, V. Dinca, O. Cupsa, A. Velea, R. Manu, Synthesis and characterization of some C-Ti based multilayer and composite nanostructure **J. of Ovonic Research**, Vol 18, Issue 2, 2022, P 177-186 **IF 1.0, AIS 0.121**	0.121		13	9	0.013
F8	S. Polosan, C. C. Ciobotaru, I. C. Ciobotaru, M. Enculescu , D. Iosub, A. Mandes, **R. Vladoiu***, Electron Irradiation of Titanium-Doped Chromium Nanostructured Thin Films for Higher Conductive Electrodes" **IEEE TRANSACTIONS ON NANOTECHNOLOGY** 21 (2022) 823-829. **IF 2.4, AIS 0.474**	0.474	**Da**	7	6	0.079
F9	**Vladoiu, R**.*; Mandes, A; Dinca, V.; Kudrna, P.; Tichý, M.; Polosan, S. Magnesium-silver cathodes for efficient charge-injection into Organic Light Emitting Diodes deposited by LTVA method. **J. ALLOYS & COMP**. 2021 *869* 159364, DOI 10.1016/j.jallcom.2021.159364 IF 6.371, AIS 0.700	0.700	**Da**	6	5.5	0.127
F.10	**R. VLADOIU***, M. Tichy, A. MANDES, V. DINCA, P. Kudna, *Thermionic Vacuum Arc (TVA), a versatile technology for thin film deposition and its applications*, 2020, **COATINGS,** Volume: 10 Issue: 3 Article Number: 211, DOI: 10.3390/coatings10030211 **IF 2.881 , AIS 0.405**	0.405	**Da**	5	5	0.081
F.11	**R. VLADOIU***, A. MANDES, V. DINCA, B. Maria Soloviov D., Turchenko Vitally, *Synthesis and characterization of the complex nanostructured thin films based on titanium for industrial applications* **MATERIALS,** 2020, Volume: 13, Issue: 2, 399 DOI: 10.3390/ma13020399 **IF 3.623 AIS 0.595**	0.595	**Da**	6	5.5	0.108

F12	S. Cozma, **R. Vladoiu,** A. Mandes, VD Balan, G Prodan, V. Bursikova *Characterization of Platinum-Based Thin Films Deposited by Thermionic Vacuum Arc (TVA) Method***,** **MATERIALS** 2020, Vol: 13 Issue: 7, Article Number: 1796, DOI**:** 10.3390/ma13071796 **IF 3.623 AIS 0.595**	0.595		6	5.5	0.108
F.13	V. Ciupina, C. P. Lungu, **R. Vladoiu,** C. Porosnicu, E Vasile, V. Nicolescu, A. Mandes, V. Dinca, O. Cupsa, *Carbon-Titanium Nanostructures: Synthesis and Characterization*, **PHYSICA SCRIPTA, 2020** Vol.: 95, Issue: 4, Article Number: 044012 DOI: 10.1088/1402-4896/ab6d45 **IF 2.487 AIS 0.520**	0.520		9	7	0.074
F.14	**R. Vladoiu***, A. Mandes, V. Dinca, G. Prodan, P. Kudna, M. Tichy, *Plasma diagnostics and characterization of the Mg and Mg-Zn thin films deposited by TVA method*, **VACUUM,** 2019**,** vol 167, p 129-135, DOI: 10.1016/j.vacuum.2019.06.002 **IF 2.906 AIS 0.371**	0.371	**Da**	6	5.5	0.067
F.15	**R. Vladoiu**, A. Mandes, V. Dinca-Balan, V. Bursikova, *Structural and Mechanical Properties of Nanostructured C-Ag Thin Films Synthesized by Thermionic Vacuum Arc Method* **JOURNAL OF NANOMATERIALS**, 2018, Volume 2018, Article ID 9632041, 10 pages, ISSN: 1687-4110 **IF 2.233 AIS 0.411**	0.411	**Da**	4	4	0.103
F.16	A. Mandes, **R. Vladoiu,** G. Prodan V., Dinca, , Porosnicu, C, Dinca, P, *The Properties of Binary and Ternary Ti Based Coatings Produced by Thermionic Vacuum Arc (TVA) Technology***,** **COATINGS,** 2018, Volume: 8 Issue: 3 Article Number: 114 ISSN: 2079-6412 **IF 2.330 AIS 0.369**	0.369	**Da**	6	5.5	0.067
F.17	Kichanov, S, Pantelica, A, Pantelica, D, Stolyar, S, Iskhakov, R Aranghel, D. Ionescu, **R. Vladoiu** M. Balasoiu, *Structural and compositional specifications on biogenic ferrihydrite nanoparticles production by klebsiella oxytoca*, **ROMANIAN REPORTS**	0.296		9	6	0.049

	IN PHYSICS, 2018, Volume: 70 Issue: 4 Article Number: 511, ISSN:1221-1451 **IF 1.940 AIS 0.296**					
F.18	**R. Vladoiu*,** A Mandes, VD Balan, V. Bursikova, *Structural and Mechanical Properties of Nanostructured C-Ag Thin Films Synthesized by Thermionic Vacuum Arc Method***, JOURNAL OF NANOMATERIALS,** 2018, Article Number: 9632041, ISSN**:** 1687-4110 **IF 2.233 AIS 0.411**	0.411	**Da**	4	4	0.103
F.19	Dinca-Balan, V, **Vladoiu, R*** Mandes, A, Prodan, G **,** *Correlation study of nanocrystalline carbon doped thin films prepared by a thermionic vacuum arc deposition technique,* **JOURNAL OF PHYSICS D-APPLIED PHYSICS** 2017, Volume: 50 Issue: 43 Article Number: 435305, ISSN: 0022-3727 **IF 2.373 AIS 0.696**	0.696	**Da**	4	4	0.174
F.20	R. Perekrestov, P Kudrna, S. Danis, M. Tichy, I Bieloshapka**, R Vladoiu,** *Application of microcracked columnar TiO2 thin films deposited by DC hollow cathode plasma jet in dye-sensitized solar cells***, JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A,** 2017 Volume: 35 Issue: 6 Article Number: 061307, ISSN: 0734-2101 **IF 1.761 AIS 0.485**	0.485		6	5.5	0.088
F.21	**R. Vladoiu*,** A Mandes, VD Balan, G. Prodan, V Ciupina, *Synthesis of reinforced magnesium embedded in carbon matrix by using Thermionic Vacuum Arc (TVA) technology,* **ROMANIAN REPORTS IN PHYSICS,** 2016, Volume: 68 Issue: 3 Pages: 1076-1084, ISSN: 1221-1451 **IF 2.147**	0.000	**Da**	5	5	0.000
F.22	R. Perekrestov, P. Kudrna, M. Tichy, I. Khalakhan, S. Danis, G. Prodan, **R. Vladoiu** *Crystalline structure and morphology of TiO2 thin films deposited by means of hollow cathode plasma jet with supporting anode,* **SURFACE & COATINGS TECHNOLOGY**, 2016, Vol: 271, Pag: 123-129, ISSN: 0257-8972, DOI: 10.1016/j.surfcoat.2016.02.026 **IF 2.589 AIS 0.523**	0.523		7	6	0.087

F.23	**R. Vladoiu*,** A Mandes, VD Balan, G. Prodan, P Kudrna, M. Tichy, *Magnesium plasma diagnostics by heated probe and characterization of the Mg thin films deposited by thermionic vacuum arc technology* **PLASMA SOURCES SCIENCE & TECHNOLOGY** 2015, Vol: 24, Issue: 3, P: 35008-35008, ISSN: 0963-0252, **IF 2.808 AIS 0.852**	0.852	**Da**	6	5.5	0.155
F.24	L. Petrasescu, V. Ciupina, S. G. Tutun, **R. Vladoiu,** G. Prodan, C. Porosnicu, E. Vasile, I. Prioteasa, R. Manu, *Carbon - platinum nanostructured catalysts for hydrogen fuel cells***, J. OF OPTOEL. AND ADV. MATER** (2015) Vol 17, Issue 9-10, Pag.1464-1470, ISSN: 1454-4164, **IF 0.383 AIS 0.078**	0.078		9	7	0.011
F.25	SG. Tutun, L. Petrasescu, **R. Vladoiu,** G Prodan, CP Porosnicu, E. Vasile, I Prioteasa, R Manu, V Ciupina, *Application of some carbon-aluminium based nanostructures obtained by TVA method in divertors coating from fusion reactor* **, J. OF OPTOEL. AND ADV. MATER** (2015) Vol: 17, Issue: 7-8, P: 1064-1069, **IF 0.383 AIS 0.078**	0.078		9	7	0.011
F.26	A. Mandes, **R. Vladoiu,** V. Dinca, G. Prodan, *Binary C-Ag Plasma Breakdown and Structural Characterization of the Deposited Thin Films by Thermionic Vacuum Arc Method* **IEEE TRANSACTIONS ON PLASMA SCIENCE** (2014), Vol:42 , Issue: 10, 2806 – 2807, ISSN: 0093-3813, **IF 1.101 AIS 0.329**	0.329		4	4	0.082
F.27	C. Porosnicu, C. P. Lungu, I. Jepu, O.G. Pompilian , P. Dinca, C. Luculescu, G. Prodan, A. Marin, A. Vladescu, **R. Vladoiu** *Characterization of ternary C-Si-Al nanocomposite thin films obtained by TVA method* **DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES** (2014), Vol. 9, No. 2, p. 765 – 775 ISSN: 1842-3582, **IF 0.945 AIS 0.202**	0.202		10	7.5	0.027
F.28	V. Ciupina, C.P. Lungu, **R Vladoiu,** G Prodan, C Porosnicu, M Belc, IM Stanescu, E. Vasile,	0.465		9	7	0.066

	R. Rughinis *Silicon carbide multilayer protective coating on carbon obtained by Thermionic Vacuum Arc method*, **JOURNAL OF NANOPHOTONICS**, 2014, Vol: 8, Article Number: 083996 DOI: 10.1117/1.JNP.8.083996, ISSN: 1934-2608, **IF 1.686 AIS 0.465**					
F.29	V Ciupina, I Morjan, **R. Vladoiu,** CP. Lungu, C Porosnicu, I. Jepu, G Prodan, I.M. Stanescu, A. Mandes, M. Contulov, V. Dinca, M. Prodan, V. Nicolescu *Application of carbon-tungsten, carbon-beryllium and carbon-aluminium nanostructures in divertors coatings from fusion reactor***, J. OF OPTOEL. AND ADV. MATER**, 2013, Vol: 15, Issue: 11-12, Pages: 1450-1456, ISSN: 1454-4164, IF 0.563 **AIS 0.111**	0.111		13	9	0.012
F.30	V. Ciupina, **R. Vladoiu,** C.P. Lungu, V. Dinca, M. Contulov, A. Mandes, P. Popov and G. Prodan, *Investigation of the SiC thin films synthetized by Thermionic Vacuum Arc method (TVA),* **EUROPEAN PHYSICAL JOURNAL D**, 2012, Vol. 66, No. 4 p 89, ISSN: 1434-6060 , IF 1.513 **AIS 0.597**	0.597		9	7	0.085
F.31	**R. Vladoiu**, V. Ciupina , M. Contulov, V. Dinca, A. Mandes ,V. Bursikova, *Synthesis and Characterization of Nanostructured a-C:H Thin Films by Gaseous Thermionic Vacuum Arc (G-TVA) Deposition Technique*, **PLASMA CHEMISTRY PLASMA PROCESS**,2012 Vol 32, 2, pag. 219-229, ISSN: 0272-4324,IF 1,728 **AIS 0.678**	0.678	**Da**	6	5.5	0.123
F.32	**R Vladoiu*,** V. Ciupina, M Contulov, A Mandes, V. Dinca, M. Prodan, *HRTEM Images of a-C:H Thin Films Deposited by G-TVA Technique* **IEEE TRANSACTIONS ON PLASMA SCIENCE** (2011), vol 39 issue 11, pag 2802–2803, ISSN: 0093-3813, IF 1.174 **AIS 0.424**	0.424	**Da**	6	5.5	0.077
F.33	V Ciupina, J Sullivan, S Saied, **R Vladoiu,** G Prodan, I.M. Oancea-Stanescu, A Mandes, M Contulov, V Dinca, M Prodan, D. Manole "*Synthesis and Characterization of Some Carbon Based Nano-structures*"	0.513		11	8	0.064

	CONTRIBUTIONS TO PLASMA PHYSICS (2011), Vol: 51 Issue: 6 Pages: 546-553, ISSN: 0863-1042, IF 1.108 **AIS 0.513**					
F.34	A. Stoica, **R. Vladoiu,** G. Musa, V. Ciupina, M. Contulov, V. Bursikova, O .Blahova, *Mechanical properties of thin films deposited by TVA and G-TVA methods* **CHEMICKE LISTY** (2011) Vol:105 Special Issue: SI Supplement: 2 Pages: S132-S135 , ISSN: 0009-2770, IF 0.529 **AIS 0.082**	0.082		8	6.5	0.013
F.35	**R. Vladoiu*,** V. Ciupina, A. Mandes, M. Contulov, V. Dinca, P. Popov, C. P. Lungu, *Tribological properties of carbon-tungsten nanocomposites synthetized by Thermionic Vacuum Arc (TVA) method* **ROMANIAN REPORTS OF PHYSICS** (2011), Vol: 63, Issue: 4 P: 1053-1060, ISSN: 1221-1451, IF 0.500 **AIS 0.0**	0.000	**Da**	7	6	0.000
F.36	**R. Vladoiu*,** V. Ciupina, A. Mandes, V. Dinca, M. Prodan, G. Musa *Growth and characteristics of tantalum oxide thin films deposited using thermionic vacuum arc technology* **JOURNAL OF APPLIED PHYSICS**, (2010) vol 108, Article number 093301 ISSN 0021-8979, IF 2.079 **AIS 0.875**	0.875	**Da**	6	5.5	0.159
F.37	**R. Vladoiu*,** M. Contulov, V. Ciupina, G. Musa "*Multiple M-Effect Signal in Noble Gases and Hydrogen Mixture Discharge*", **CONTRIBUTIONS TO PLASMA PHYSICS** (2010), Vol.50, Issue 2, pag.177 – 181 ISSN: 0863-1042, IF 1.006 **AIS 0.466**	0.466	**Da**	4	4	0.117
F.38	**R.Vladoiu*,** V. Ciupina, M.Contulov, A.Mandes, V. Dinca, G. Prodan, C. P Lungu, *Structure and tribological properties of carbon based nanocomposites grown by TVA method*, **, J. OF OPTOEL. AND ADV. MATER** 2010, Vol. 12 , no. 3,P 553-556 , ISSN: 1454-4164, IF 0.412 **AIS 0.113**	0.113	**Da**	7	6	0.019
F.39	G. Horvath J. D. Skalny J. Orszagh **R. Vladoiu** N. J. Mason "*Influence of the Outer Electrode Material on Ozone Generation in Corona Discharges*", **PLASMA CHEMISTRY AND PLASMA PROCESSING** (2010) Vol 30,	0.616		5	5	0.123

	issue 1: pag 43–53, ISSN: 0272-4324, IF1.798 **AIS 0.616**					
F.40	**R. Vladoiu*,** M. Contulov, A. Mandes, G. Musa "*The double m-effect induced by noble gases activated with negative ions*" **EUROPEAN PHYSICAL JOURNAL D** (2009), vol 54, no 2, p 287-291, ISSN: 1434-6060, IF1.420 **AIS 0.672**	0.672	**Da**	4	4	0.168
F.41	**R. Vladoiu*,** V. Dinca, G. Musa "*Surface energy evaluation of unhydrogenated DLC thin film deposited by thermionic vacuum arc (TVA) method*" **EUROPEAN PHYSICAL JOURNAL D**, (2009),, vol 54, no2, p 433–437, ISSN: 1434-6060,IF 1,42 **AIS 0.672**	0.672	**Da**	3	3	0.224
F.42	G Horvath, J D Skalny, N J Mason, M Klas, M Zahoran, **R Vladoiu** and M Manole "*Corona discharge experiments in admixtures of N2 and CH4: a laboratory simulation of Titan's atmosphere*" **PLASMA SOURCES SCIENCE & TECHNOLOGY** 2009, vol. 18, no3,article number 034016, ISSN: 0963-0252, IF 2,384 **AIS 0.839**	0.839		7	6	0.140
F.43	N. Ekem, S.Korkmaz, S.Pat, M. Z. Balbag, N. E. Cetin, M. Ozmumcu, **R. Vladoiu,** G.Musa, *ZnO thin film preparation using RF sputtering at various oxygen contents*, **, J. OF OPTOEL. AND ADV. MATER** 2008, Vol.10, Issue: 12, P3279-3282, ISSN: 1454-4164, IF 0.577 **AIS 0.113**	0.113		8	7.5	0.015
F.44	V. Ciupina, **R. Vladoiu*,** A. Mandes, G. Musa, C. P. Lungu,*TEM investigation of the C-Me multilayer nanocomposites deposited by Thermionic Vacuum Arc (TVA) method*, **, J. OF OPTOEL. AND ADV. MATER** 2008, Vol.10, Issue: 11, P 2958-2962, ISSN: 1454-4164, IF 0.577 **AIS 0.113**	0.113	**Da**	5	5	0.023
F.45	J D Skalny, A Stoica, J Orszagh, **R Vladoiu**, N J Mason "*Positive and negative corona discharges in flowing carbon dioxide*", **JOURNAL OF PHYSICS D-APPLIED PHYSICS** (2008) , Vol 41 , Issue 17, article number 175211, ISSN: 0022-3727, IF 2.104 **AIS 0.915**	0.915		5	5	0.183

F.46	C. Surdu Bob, **R. Vladoiu*,** M. Badulescu, G. Musa „*Control over the sp2/sp3 ratio by tunning plasma parameters of the thermionic Vacuum Arc*", **DIAMOND AND RELATED MATERIALS** 2008 , Vol 17, Issues 7-10, 1625-1628, ISSN: 0925-9635, IF 2.092 **AIS 0.617**	0.617	**Da**	4	4	0.154
F.47	V. Kuncser, M. Valeanu, G. Scanteie, G. Filoti, I. Mustata, C. P. Lungu, A. Anghel, H. Chiriac, **R. Vladoiu**, J. Bartolomeu, "*Exchange Bias and spin valve systems with Fe-Mn antifferomagnetic priming layers, obtained by TVA method*", **J. OF MAGNETISM AND MAGNETIC MATERIALS** (2008), Vol 320, Issue 14, P 226-230, ISSN: 0304-8853, IF 1.283 **AIS 0.460**	0.460		10	7.5	0.061
F.48	S. Pat, Z. Balbag, I. Cenik, N.Ekem, S. Okur, **R. Vladoiu,** G. Musa *Carbon deposition on the stainless steels substrates using pulsed plasma*, **, J. OF OPTOEL. AND ADV. MATER**, 2008, Vol.10, Issue: 3, P 663-664, ISSN: 1454-4164, IF 0.577 **AIS 0.113**	0.113		7	6	0.019
F.49	N. Ekem, G.Musa, S. Pat, Z. Balbag, I. Cenik, **R. Vladoiu,** *Carbon thin film deposition by Thermionic Vacuum Arc (TVA),* **, J. OF OPTOEL. AND ADV. MATER** 2008 Vol. 10, Issue: 3, P 672-674, ISSN: 1454-4164, IF 0.577 **AIS 0.113**	0.113		6	5.5	0.021
F.50	M. Z. Balbag, S.Pat, I. Cenik, N. Ekem, T. Akan, B. Baksan, **R. Vladoiu,** G. Musa, *Titanium oxidation by pulsed oxygen plasma,* **, J. OF OPTOEL. AND ADV. MATER** 2008Vol.10, Issue: 3, P 680-682, ISSN: 1454-4164, IF 0.577 **AIS 0.113**	0.113		8	6.5	0.017
F.51	**R. Vladoiu*,** V. Ciupina, A. Mandes, V. Dinca, M. Contulov, G. Prodan, G.Musa, *Preliminary results on comparative study of three methods for nanocarbon films deposition: thermionic vacuum arc, magnetron sputtering and cathodic arc,* **, J. OF OPTOEL. AND ADV. MATER**, 2008 Vol. 10, Issue: 3, P 723-726, ISSN: 1454-4164, IF 0.577 **AIS 0.113**	0.113	**Da**	7	6	0.019

F.52	G. Musa, **R. Vladoiu,** C. Surdu Bob, A. Mandes *The M-effect, a synergetic result of three body collisions and metastable/resonance radiation trapping*, **OPTOEL. AND ADV. MATER -RAPID COMMUNICATIONS** (2008)Vol: 2, Issue: 3P: 176-177 , ISSN: 1842-6573, IF0.224 **AIS 0.028**	0.028		4	4	0.007
F.53	J. D Skalny, S Matejcik, J, Orszagh, **R. Vladoiu,** N. J. Mason, *A study of the physical and chemical processes active in corona discharges fed by carbon dioxide*, **OZONE-SCIENCE & ENGINEERING** (2008), Vol: 30, Issue: 2, P: 145-151, ISSN: 0191-9512, IF 0,981 **AIS 0.299**	0.299		5	5	0.060
F.54	**R. Vladoiu *,** V. Ciupina, C.P. Lungu, OI Pompilian,; P Chiru, AM Lungu, G. Prodan, A Mandes,; G. Musa, *Characterization Of Nanostructured Carbon-Metal Bilayers Deposited By Thermionic Vacuum Arc (TVA) Technology* **CHEMICKE LISTY** 2008,, Vol 102 Special Issue: SI 4 Pages: S1482-S1485, ISSN: 0009-2770, IF 0.593 **AIS 0.077**	0.077	**Da**	9	7	0.011
F.55	**R. Vladoiu*** V. Ciupina, V. Dinca, G. Musa, *Influence of the operational parameters on the wettability of the DLC films deposited by TVA method* **CHEMICKE LISTY** 2008,Vol 102 Special Issue: SI 4 Pages: S1463-S1466 , IF 0.593 **AIS 0.077**	0.077	**Da**	4	4	0.019
F.56	**R. Vladoiu*,** M. Contulov, G. Musa Double Monochrome Signal (Double M-Effect) In Pulsed Ne-Ar-H-2 Mixture Discharges **CHEMICKE LISTY**, (2008), Vol 102 Special Issue: SI 4 Pages: S1452-S1455, IF 0.593 **AIS 0.077**	0.077	**Da**	3	3	0.026
F.57	J. D.Skalny, J.Orszagh, G. Horvath, N. J. Mason, **R. Vladoiu** *The DC corona discharges in flowing dry and humid carbon dioxide* **, J. OF OPTOEL. AND ADV. MATER**, 2008,, Vol. 10, Issue: 1, P 117-123, ISSN: 1454-4164, IF 0.577 **AIS 0.028**	0.028		5	5	0.006
F.58	S.Pat, N.Ekem, Z. Balbag, M. Cenik, **R. Vladoiu,** G. Musa, *M-effect generating of two-spectral lines*, **, J. OF OPTOEL. AND ADV.**	0.028		6	5.5	0.005

	MATER 2008,Vol.10, Issue: 1, P 229-231, IF 0.577 **AIS 0.028**					
F.59	G. Musa, **R. Vladoiu,** M. Contulov, V. Dinca *Reports on the M-effect - General character and explanation of the involved elementary processes*, **ROMANIAN REPORTS IN PHYSICS** (2008),Vol: 60,Issue: 3, P: 627-634 , ISSN: 1221-1451, IF0.458 **AIS 0.0**	0.000		4	4	0.000
F.60	G.Musa, C.Surdu-Bob, **R.Vladoiu,** *A double monochromatization effect in low temperature plasmas*, **J. OF OPTOEL. AND ADV. MATER** 2007, Vol. 9, Issue: 8, P 2653-2656, ISSN: 1454-4164, IF 0.827 AIS 0.161	0.161		3	3	0.054
F.61	C. Surdu-Bob, G.Musa, **R. Vladoiu**, C. P.Lungu, *The synthesis of DLC using a novel cathodic arc technique: Gas-TVA* **, J. OF OPTOEL. AND ADV. MATER**, 2007, Vol. 9, Issue: 8, P 2660-2662, ISSN: 1454-4164, IF 0.827 AIS 0.161	0.161		4	4	0.040
F.62	**R.Vladoiu*,** V.Ciupina, C. Surdu-Bob, C. P. Lungu, J. Janik, J. D. Skalny, V. Bursikova, J. Bursik, G.Musa *Properties of the carbon thin films deposited by thermionic vacuum arc*, **, J. OF OPTOEL. AND ADV. MATER** 2007 Vol. 9, Issue: 4, P 862-866, ISSN: 1454-4164, IF 0.827 AIS 0.161	0.161	**Da**	9	7	0.023
F.63	G.Musa, C.Bob Surdu, C. P. Lungu, V.Ciupina, **R.Vladoiu**, *Gaseous Thermionic Vacuum Arc(G-TVA) - an extension of TVA (Thermionic Vacuum Arc) input materials from solid samples to gases and liquids for carbon thin film deposition*, **, J. OF OPTOEL. AND ADV. MATER**, 2007, Vol. 9, Issue: 4, P 867-870, ISSN: 1454-4164, IF0.827 AIS 0.161	0.161		5	5	0.032
F.64	G.Musa, N.Ekem, S. Pat, M. Z. Balbag, M. I. Cenik, T. Akan, V. Ciupina, **R. Vladoiu,** M. Tanisli, O.Ozen, *Carbon synthesis in methane plasma*, **, J. OF OPTOEL. AND ADV. MATER** 2007,Vol. 9, Issue: 4, P 871-874, ISSN: 1454-4164, IF0.827 AIS 0.161	0.161		10	7.5	0.021
F.65	G.Musa, **R.Vladoiu,** N.Ekem, M. I. Cenik, S.Pat, M. Z.Balbag *Argon emission spectra change at molecular gas addition*, **, J. OF OPTOEL. AND ADV. MATER** , 2007, Vol.	0.161		6	5.5	0.029

	9, Issue: 4, P 894-896, ISSN: 1454-4164, IF0.827 AIS 0.161					
F.66	**R.Vladoiu*,** C. P. Lungu, I. Mustata, V.Bursikova, J.Bursik, *Characterization by nanoindentation and Scanning Electron Microscopy of the spin valves structures prepared by Thermionic Vacuum Arc (TVA) method*, **J. OF OPTOEL. AND ADV. MATER** , 2007,Vol. 9, Issue: 4, P 1087-1090, ISSN: 1454-4164, IF0.827 AIS 0.161	0.161	**Da**	6	5.5	0.029
F.67	T. Akan, N. Ekem, S. Pat, U.G. Issever, M.Z. Balbag, M.I. Cenik, **R. Vlădoiu,** G. Musa, "*Boron thin film deposition by using thermionic vacuum arc (TVA) technology*", **MATERIALS LETTERS**, (2007) , vol. 61, Issue 1 pag. 23-26, ISSN: 0167-577X, IF 1,625 AIS 0.568	0.568		8	6.5	0.087
F.68	G.Musa, Surdu-Bob, C, **R. Vladoiu,** *Selective emission of a two-spectral lines in a.c. plasmas (M-effect)* **OPTOELECTRONICS AND ADVANCED MATERIALS – RAPID COMUNICATION** (2007), Vol: 1 Issue: 6, P: 305-306 ISSN: 1842-6573, IF0.0	0.000		3	3	0.000
F.69	J. D Skalny, S Matejcik, J, Orszagh, **R. Vladoiu,** N. J. Mason, *A study of the Physical and Chemical processes Active in Ozone Generation by Carbon Dioxide Fed Corona discharges*", **OZONE-SCIENCE & ENGINEERING** 2007, Vol 29, Issue 5, p 399-404, ISSN: 0191-9512, IF1.515 AIS 0.327	0.327		5	5	0.065
F.70	G. Musa, **R. Vladoiu,** V. Ciupina, C.P. Lungu, I Mustata, S. Pat, T. Akan, N. Ekem, *Characteristics of boron thin films obtained by TVA technology*, **, J. OF OPTOEL. AND ADV. MATER** 2006, Vol. 8, Issue: 2, P 617-620, ISSN: 1454-4164, IF1.106 AIS 0.0	0.000		8	6.5	0.000
F.71	G. Musa, **R. Vladoiu*,** V. Ciupina, J. Janik, *Raman spectra of carbon thin films*, **J. OF OPTOEL. AND ADV. MATER** 2006Vol. 8, Issue: 2, P 621-623, ISSN: 1454-4164, IF1.106	0.000	**Da**	4	4	0.000
F.72	**R. Vladoiu*,** V. Ciupina, C.P. Lungu, V. Bursikova, G.Musa, *Thermoionic vacuum arc (TVA) deposited tungsten thin film characterization*, **J. OF OPTOEL. AND**	0.000	**Da**	5	5	0.000

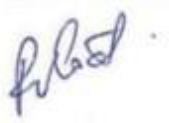
	ADV. MATER 2006, Vol. 8, Issue: 1, Pages: 71-73, ISSN: 1454-4164, IF1.106 AIS 0.0					
F.73	C.P. Lungu, I. Mustata, G. Musa, A.M. Lungu, O. Brinza, C. Moldovan, C. Rotaru, R. Iosub, F. Sava, M. Popescu, **R. Vladoiu,** V. Ciupina, G. Prodan, N. Apetroaei,Unstressed carbon-metal films deposited by thermionic vacuum arc method, **, J. OF OPTOEL. AND ADV. MATER**, 2006, Vol. 8, Issue: 1, P 74-77, ISSN: 1454-4164, IF1.106 AIS 0.0	0.000		14	9.5	0.000
F.74	D. Galuska, D. Manole, **R. Vladoiu,** S. Matejcik, J.D. Skalny *Negative corona discharge in flowing N2O and its mixtures with N-2 and O-2*, **J. OF OPTOEL. AND ADV. MATER**, 2005Vol. 7, Issue: 5, P 2371-2378, ISSN: 1454-4164, IF 1.138	0.000		5	5	0.000
F.75	G. Musa, I. Mustata, V. Ciupina, **R. Vladoiu,** G. Prodan, C.P. Lungu, H. Ehrich, *Thermionic vacuum arc (TVA) - Carbon thin film deposition,* **J. OF OPTOEL. AND ADV. MATER** 2005, Vol. 7, Issue: 5, P 2485-2487, ISSN: 1454-4164, IF 1.138 AIS 0.0	0.000		7	6	0.000
F.76	T. Akan, N. Ekem, S.Pat, **R. Vladoiu,** G. Musa *Studies on the thermionic vacuum arc discharges in the vapors of Cu-Ag and Cu-Sn alloys*, **, J. OF OPTOEL. AND ADV. MATER** 2005, Vol. 7, Issue: 5, P 2489-2494, ISSN: 1454-4164, IF 1.138 AIS 0.0	0.000		5	5	0.000
F.77	S. Pat, N. Ekem, T. Akan, O. Kusmus, S. Demirkol, **R. Vladoiu,** C.P. Lungu, G. Musa, *Study on Termionic Vacuum Arc - A novel and advanced technology for surface coating*, **J. OF OPTOEL. AND ADV. MATER** 2005, Vol. 7, Issue: 5, P 2495-2499, ISSN: 1454-4164, IF 1.138	0.000		8	6.5	0.000
F.78	G. Musa, I. Mustata, M. Blideran V. Ciupina, **R. Vlădoiu**, G. Prodan, E. Vasile, H Ehrich, „*Thermionic Vacuum Arc (TVA) new technique for high purity carbon thin film deposition* ,**ACTA PHYSICA SLOVACA** ", (2005), vol 55, no 4, Pag 417-421, ISSN: 0323-0465	0.000	**Da**	6	5.5	0.000
F.79	G. Musa, I. Mustata, V. Ciupina, **R. Vlădoiu*,** G. Prodan, E. Vasile, H.Ehrich, Diamond like	0.000	**Da**	7	6	0.000

	nanostructured carbon film deposition using Thermionic Vacuum Arc" vol.13 **DIAMOND AND RELATED MATERIALS** (2004) 1398-1401, Ed Elsevier, ISSN 0925-9635, IF 1.670 AIS 0.0					
F.80	G. Musa, I. Mustata, M. Blideran, V. Ciupina, **R. Vladoiu*,** G. Prodan, E. Vasile, *Nanostructured carbon thin films deposition using Thermionic Vacuum Arc (TVA) technology* **J. OF OPTOEL. AND ADV. MATER**, 2003, Vol. 5, Issue: 3, P 667-673, ISSN: 1454-4164, IF 0.996 AIS 0.0	0.000	**Da**	7	6	0.000
F.81	**R. Vladoiu*,** G. Musa, I. Mustata, *Thermoionic vacuum arc - A new method of thin film deposition*, **J. OF OPTOEL. AND ADV. MATER** 2003, Vol. 5, Issue: 1, P 325-330, , ISSN: 1454-4164, IF 0.996 AIS 0.0	0.000	**Da**	3	3	0.000
			Punctaj total I = 4.8805 P = 13.782			

Data : 2.10.2025

SEMNATURA

Prof. dr. Rodica Vlădoiu



2.3 Fișa de îndeplinire a standardelor minimale CNATDCU **Criteriul C**

VLĂDOIU RODICA

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})
F.1	A. Mandes, R. Vladoiu, V. Dinca, P. Kudrna, M. Tichy, , E. Matei, S. Polosan, Bilayered metallic cathodes consisting of pure Mg and Zn:Al thin films optimized by Laser-induced Thermionic Vacuum Arc (LTVA) technology, **APPLIED SURFACE SCIENCE ADVANCES**, 28, (2025), 100787, DOI: 10.1016/j.apsadv.2025.100787 Q1 IF 8.7, AIS 1.262	0	7	6	0.000
F2	V. Ciupina, R. Vladoiu, G. Prodan, C. Porosnicu, C. P. Lungu, V. Satulu, M., A. Mandes, V. Dinca, E. Andronescu, B. Vasile, V. Nicolescu, S. Polosan, E. Matei, N-Doped C/Ti/C/Al/C/Si Multilayer And N-Doped C Plus Ti/C Plus Al/C Plus Si Composite Thin Films: Synthesis And Characterization, **ROMANIAN REPORTS IN PHYSICS**, 77, 3, (2025), DOI: 10.59277/RomRepPhys.2025.77.503, Q2 IF 2.2, AIS 0.177	0	13	9	0.000
F.3	R. Vladoiu, A. Mandes, V. Dinca, P. Kudrna, M. Tichy, , C. Ciobotaru, S. Polosan, *Versatile techniques based on the Thermionic Vacuum Arc (TVA) and laser-induced TVA methods for Mg/Mg:X thin films deposition - A review*, **J. of MAGN. & ALLOYS.** 12, 8 (2024), p. 3115-3134**, Q1 IF 13.8, AIS 2.051**	0	8	6.5	0.000
F4	V. Dinca, A. Mandes, R. Vladoiu, G. Prodan, V. Ciupina, S. Polosan, Microstructural and morphological characterization of the cobalt-nickel thin films deposited by the Laser-induced Thermionic Vacuum Arc method, **COATINGS** 13 (2023) 13060984 **IF 2.9, AIS 0.57**	0	6	5.5	0.000
F5	R. Vladoiu, A. Mandes, , V. Dinca, , E. Matei, S. Polosan, *Synthesis of cobalt-nickel aluminate spinels by LTVA method and thermal annealing processes*, **NANOMATERIALS**, 2022, Volume:*12*(21), article no 3895 2022, **Q1 IF 5.3, AIS 0.712**	2	5	5	0.400
1	Lozancic A., Burazer S., Senjug P., Renka S., Molcanov K., Pajic D., Dubraja L. Andros, Juric M., *Facile one-step preparation of Co2CrO4 spinel from heterometallic compounds - Structural, magnetic, electrical and photocatalytic studies* JOURNAL OF ALLOYS AND COMPOUNDS, 986, 174087, (2024), DOI10.1016/j.jallcom.2024.174087, If 5.8 AIS **0.786**				

2	Ilyushin, YV Boronko, EA, Analysis of Energy Sustainability and Problems of Technological Process of Primary Aluminum Production, ENERGIES, 18, 9, (2025),2194, DOI 10.3390/en18092194 **IF** 3.2**, AIS 0.**47				
F6	R. Vladoiu, A. Mandes, V. Dinca, E. Matei, S. PolosanThe Synergistic Effect of the Laser Beam on the Thermionic Vacuum Arc Method for Titanium-Doped Chromium Thin Film Deposition, **COATINGS** 12, Issue 4 (2022), **IF 3.4, AIS 0.439**	0	5	5	0.000
F7	V. Ciupina, C. P. Lungu, R. Vladoiu**, G. Prodan,** C. Porosnicu, E Vasile, M. Prodan, V. Nicolescu, A. Mandes, V. Dinca, O. Cupsa, A. Velea, R. Manu, Synthesis and characterization of some C-Ti based multilayer and composite nanostructure **J. of Ovonic Research**, Vol 18, Issue 2, 2022, P 177-186 **IF 1.0, AIS 0.121**	0	13	9	0.000
F8	S. Polosan, C. C. Ciobotaru, I. C. Ciobotaru, M. Enculescu , D. Iosub, A. Mandes, R. Vladoiu, Electron Irradiation of Titanium-Doped Chromium Nanostructured Thin Films for Higher Conductive Electrodes" **IEEE TRANSACTIONS ON NANOTECHNOLOGY** 21 (2022) 823-829. **IF 2.4, AIS 0.474**	0	7	6	0.000
F9	Vladoiu, R.; Mandes, A; Dinca, V.; Kudrna, P.; Tichý, M.; Polosan, S. Magnesium-silver cathodes for efficient charge-injection into Organic Light Emitting Diodes deposited by LTVA method. **J. ALLOYS & COMP**. 2021 *869* 159364, **IF 6.371, AIS 0.700**	4	6	5.5	0.727
1	Halais, WT, Bouhlala, A, Doghmane, M , Chettibi, S Exploration of structural stability, electronic, and magnetic properties of silver doped MgO at low concentration using the modified Becke and Johnson approach for spintronic applicationsVolume 96 Issue 6, art no 75, EUROPEAN PHYSICAL JOURNAL B, 2023, DOI 10.1140/epjb/s10051-023-00538-7 **IF 1.6, AIS 0.363**				
2	Lee, D Cho, ES ; Jeon, Y Kwon, SJ Characterization of the material and electrical properties depending on the Mg:Ag ratio as a cathode for TEOLED Volume 303, 2023, Art no. 127742, MATERIALS CHEMISTRY AND PHYSICS DOI 10.1016/j.matchemphys.2023.127742 **IF 4.3, AIS 0.584**				
3	Pat, S Çakir, FH ; Öteyaka, MÖ Corrosion behavior of graphene coated Ti-6Al-4 V alloy by anodic plasma coating method, 147, (2023), 110268, INORGANIC CHEMISTRY COMMUNICATIONS, DOI10.1016/j.inoche.2022.110268 **IF 4.4, AIS 0.5448**				
4	Ok, SJ Le, TN Son, JH Song, SY Suh, MC, Addressing Thermal Stability Challenges in Top-Emission OLEDs: The Role of Buffer Layer in Preventing Pixel Shrinkage, ADVANCED OPTICAL MATERIALS, 13, 9, 2025, DOI: 10.1002/adom.202402832 **IF 7.2, AIS 1.646**				
F10	**R. VLADOIU**, M. Tichy, A. MANDES, V. DINCA, P. Kudna, *Thermionic Vacuum Arc (TVA), a versatile technology for thin film deposition and its applications*, 2020, **COATINGS,** Volume: 10	33	5	5	6.400 6.600

	Issue: 3 Article Number: 211, DOI: 10.3390/coatings10030211 **IF 2.881 , AIS 0.418**				
1	Scheffel B, Zywitzki O, Kopte T *Diamond-like films of tetrahedral amorphous carbon deposited by anodic arc evaporation of graphite* SURFACE & COATINGS TECHNOLOGY, 477, 130305 (2024), DOI10.1016/J.SURFCOAT.2023.130305 **IF 5.4, AIS 0.5691**				
2	Kisla Duygu, Akan, Tamer, Gokmen Gokhan Gufur, Durmus Cagri *Novel antibacterial nanoscale glass surfaces coated with vanadium pentoxide/phosphorus pentoxide (V2O5-P2O5) thin film by the thermionic vacuum arc plasma,* JOURNAL OF NON-CRYSTALLINE SOLIDS, 625, 122737 (2024) DOI10.1016/j.jnoncrysol.2023.122737 **IF 3.2, AIS 0.478**				
3	Kumar P, Parashar M, Chauhan K, Chakraborty N, Sarkar S Chandra A, Das NS, Chattopadhyay KK, Ghoari A, Adalder A, UK Ghorai, Saini S, Agarwal D, Ghosh S, Srivastava P, Banerjee D *Significant enhancement in the cold emission characteristics of chemically synthesized super-hydrophobic zinc oxide rods by nickel doping* NANOSCALE ADVANCES, 5 (24) P 6944-6957, oct 2023 **IF 4.6, AIS 0.822**				
4	Yuan ZY, Guo ZM, Meng FL *Thin Film Prepared by Gas-Liquid Interfacial Self-Assembly Method and its Applications in Semiconductor Gas Sensors* ADVANCED MATERIALS TECHNOLOGIES, 8, (21), 2023, DOI10.1002/admt.202300494, **IF 6.4, AIS 1.639**				
5	Song Mengmeng, Zhang Hantian, Sun Qiang, Yang Wei, Wang, Ziming, Liu Zhaohui, Dong Ye, Zhou QH *Ion velocity separation mechanism during vacuum spark stage* PLASMA SOURCES SCIENCE & TECHNOLOGY, 33 (10), 105009 (2024), DOI10.1088/1361-6595/ad7c7a, **IF 3.3, AIS 0.653**				
6	Anders, A *Glows, arcs, ohmic discharges: An electrode-centered review on discharge modes and the transitions between them* APPLIED PHYSICS REVIEWS, 11 (3), 031310 (2024), DOI 10.1063/5.0205274 **IF 11.9, AIS 4.304**				
7	Aydemir Ibrahim, Pat Suat, *Optical and electrical properties of annealed graphene oxide doped Al2O3:ZnO thin film* SURFACES AND INTERFACES 53, 104998, (2024) DOI 10.1016/j.surfin.2024.104998 **IF 5.7, AIS 0.777**				
8	Song Mengmeng,Yang Wei, Dong Ye, Zhang Hantian, Wang Ziming, Liu Zhaohui, Zhou QH *Numerical study on the effects of discharge parameters on vacuum arc plasma,* JOURNAL OF PHYSICS D-APPLIED PHYSICS, 57(31), 315207(2024), DOI 10.1088/1361-6463/ad4165 **IF 3.1, AIS 0.633**				
9	Hou Zhiyu, Tan Ji, Yeung, Kelvin W. K., Liu XY *Plasma bias homopolar sputtering technology and its application to enhance bioactivity of polyetheretherketone surface,* SURFACES AND INTERFACES, 48, 104249 (2024), DOI 10.1016/j.surfin.2024.104249 **IF 5.7 AIS 0.777**				
10	Ersöz, MBT Mumcu, E Avukat, EN Akay, C Pat, S Erdönmez, D Anti-adherent activity of nano-coatings deposited by thermionic vacuum arc plasma on *C. albicans* biofilm formation NTERNATIONAL JOURNAL OF ARTIFICIAL ORGANS 46 (8-9) P 520-526 (2023), DOI 10.1177/03913988231178041 **IF 1.4 AIS 0.363**				
11	Yuan, ZY, Guo, ZM ; Meng, FL, Thin Film Prepared by Gas-Liquid Interfacial Self-Assembly Method and its Applications in Semiconductor Gas Sensors ADVANCED MATERIALS TECHNOLOGIES, 8 (21), 2023, DOI 10.1002/admt.202300494 **IF 6.4 AIS 1.639**				
12	Akay, C ,Çakmak, G Pat, S Yilmaz, B,Flexural Strength and Vickers Microhardness of Graphene-Doped SnO_2 Thin-Film-Coated Polymethylmethacrylate after Thermocycling, COATINGS, 13(6) 1106 (2023)DOI 10.3390/coatings13061106 **IF 2.9, AIS 0.418**				

13	Kisla, D Gokmen, GG , Evrendilek, GA ; Akan, T Vlcko, T Kulawik, P Jambrak, AR, Ozogul, F Recent developments in antimicrobial surface coatings: Various deposition techniques with nanosized particles, their application and environmental concerns TRENDS IN FOOD SCIENCE & TECHNOLOGY, 135, P.144-172 , (2023) DOI 10.1016/j.tifs.2023.03.019 **IF 15.1, AIS 2.394**
14	Durmus, C, Akan, T Vanadium pentoxide thin films deposited by the thermionic vacuum arc plasma, THIN SOLID FILMS, 770, 139764(2023), DOI 10.1016/j.tsf.2023.139764 **IF 2.0, AIS 0.311**
15	Akan, T Demirkol, U Durmus, C, TeO2-ZnO (tellurium oxide-Zinc oxide) thin film deposition by the thermionic vacuum arc plasma, PHYSICA B-CONDENSED MATTER, 654, 414694 (2023) DOI 10.1016/j.physb.2023.414694 **IF 2.8, AIS 0.352**
16	Volosova, MA Stebulyanin, MM Gurin, VD Melnik, YA Influence of Surface Layer Condition of Al_2O_3+TiC Ceramic Inserts on Quality of Deposited Coatings and Reliability during Hardened Steel Milling, COATINGS, 12 (12) 1801(2022) DOI 10.3390/coatings12121801 **IF 3.4, AIS 0.418**
17	Foumani, IR, Pat, S Optical and surface properties of Gd-doped ZnO thin films deposited by thermionic vacuum arc deposition technology INORGANIC CHEMISTRY COMMUNICATIONS, 144, 109831(2022) DOI 10.1016/j.inoche.2022.109831 **IF 3.8, AIS 0.336**
18	Tiron, V Ciolan, MA ; Bulai, G Mihalache, G ; Lipsa, FD ; Jijie, R Efficient Removal of Methylene Blue and Ciprofloxacin from Aqueous Solution Using Flower-like, Nanostructured ZnO Coating under UV Irradiation NANOMATERIALS 12 (13), 2193 (2022) DOI 10.3390/nano12132193 **IF 5.3, AIS 0.712**
19	Mumcu, E Ersöz, MBT Avukat, EN Akay, C Pat, S Influence of oxygen effect in coating layer on tensile bond strength of PMMA INTERNATIONAL JOURNAL OF POLYMERIC MATERIALS AND POLYMERIC BIOMATERIALS, 72 (7), 2023, Page 507-516, DOI 10.1080/00914037.2022.2029441 **IF 2.5, AIS 0.324**
20	Gavrilov, N ; Kamenetskikh, A Tretnikov, P Nikonov, A Sinelnikov, L Butakov, D Nikolkin, V Chukin, A Synthesis of Lithium Phosphorus Oxynitride (LiPON) Thin Films by Li_3PO_4 Anodic Evaporation in Nitrogen Plasma of a Low-Pressure Arc Discharge MEMBRANES 12 (1), 40(2022), DOI 10.3390/membranes12010040 **IF 4.2, AIS 0.521**
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F11	**R. VLADOIU**, A. MANDES, V. DINCA, B. Maria Soloviov D., Turchenko Vitally, *Synthesis and characterization of the complex nanostructured thin films based on titanium for industrial applications* **MATERIALS,** 2020, Volume: 13, Issue: 2, 399 DOI: 10.3390/ma13020399 **IF 3.057 AIS 0.595**	4	6	5.5	0.727
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F.18	**R. Vladoiu,** A Mandes, VD Balan, V. Bursikova, *Structural and Mechanical Properties of Nanostructured C-Ag Thin Films Synthesized by Thermionic Vacuum Arc Method***, JOURNAL OF NANOMATERIALS,** 2018, Article Number: 9632041, ISSN**:** 1687-4110 **IF 1.980**	1	4	4	0.250

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F.19	Dinca-Balan, V, **Vladoiu, R** Mandes, A, Prodan, G **,** *Correlation study of nanocrystalline carbon doped thin films prepared by a thermionic vacuum arc deposition technique,* **JOURNAL OF PHYSICS D-APPLIED PHYSICS** 2017, Volume: 50 Issue: 43 Article Number: 435305, ISSN: 0022-3727 **IF 3.169**	1	4	4	0.250
1	Ilik, E Durmus, C Kilic, G Issever, UG Akan, T Deposition of cadmium (II) oxide-reinforced VP glassy thin films by thermionic vacuum arc (TVA) and structural characterization , JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS 32 (12), Page 16311-16323 DOI 10.1007/s10854-021-06179-9 IF 2.779, AIS 0.278				
F.20	R. Perekrestov, P Kudrna, S. Danis, M. Tichy, I Bieloshapka**, R Vladoiu,** *Application of microcracked columnar TiO2 thin films deposited by DC hollow cathode plasma jet in dye-sensitized solar cells***, JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A,** 2017 Volume: 35 Issue: 6 Article Number: 061307, ISSN: 0734-2101 **IF 2.166**	3	6	5.5	0.545
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2	Yadav, SC Sharma, A Devan, RS Shirage, PM Role of different counter electrodes on performance of TiO_2 based dye-sensitized solar cell (DSSC) fabricated with dye extracted from *Hibiscus Sabdariffa* as sensitizer OPTICAL MATERIALS, 124, 112066 (2022) DOI 10.1016/j.optmat.2022.112066 **IF 3.9 AIS 0.478**				
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F.23	**R. Vladoiu,** A Mandes, VD Balan, G. Prodan, P Kudrna, M. Tichy, *Magnesium plasma diagnostics by heated probe and characterization of the Mg thin films deposited by thermionic vacuum arc technology* **PLASMA SOURCES SCIENCE & TECHNOLOGY** 2015, Vol: 24, Issue: 3, P: 35008-35008, ISSN: 0963-0252, **IF 3.591**	2	6	5.5	0.182 0.364

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Data 10.10.2025

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Prof. dr. Rodica Vlădoiu