

Scientific publications

Conf.Dr. Anca Dumitru

1. Scientific publications indexed Web of Science (WoS)

No.	Scientific papers indexed WOS
1	I.Stamatin, Anca Dumitru , M. J. Bucknum, V. Ciupina and G.Prodan, "Silicon Dicarbide Synthesis", Molecular Crystals and Liquid Crystals 417, 167 – 175, 2004 (FI 0,529)-N/A
2	A. Dumitru , A. Morozan, C. Mirea, D. Mihaiescu, C. Pananiotu, V. Ciupina, I. Stamatin, Inorganic copolymer based on silyanes and ferrocene monomers, precursors for advanced nanostructured ceramics, Composites Science and Technology, Vol. 65 (No. 5), pp. 713-717, 2005 (FI 2,184)-Q1
3	I.Stamatin, A. Morozan, A. Dumitru , S. Vulpe, Highly oriented carbon ribbons for advanced multifunctional materials engineering, Fullerenes, Nanotubes and Carbon Nanostructures, Vol.13 (S1), pp. 543-551, 2005 (FI 0,766)-Q3
4	C. Nastase, F. Nastase, A. Dumitru , M. Ionescu, and Ioan Stamatin, Thin film composites of nanocarbons-polyaniline obtained by plasma polymerization technique, Composites Part A: Applied Science and Manufacturing, vol .36, no.4, 481-485, 2005 (FI 1,446)-Q1
5	A. Dumitru , V. Ciupina, I. Stamatin, G. Prodan, A. Morozan, C. Mirea, Plasma polymerization of ferrocene with silane and silazane monomers for design of nanostructured magnetic ceramics, Journal of Optoelectronics and Advanced Materials, Vol. 8 (No. 1), pp.50-55, 2006 (FI 1,106)-Q2
6	I. Stamatin, A. Morozan, K. Scott, A. Dumitru , S. Vulpe, F. Nastase, Hybrid membranes for fuel cells based on nanometer YSZ and polyacrylonitrile matrix, Journal of Membrane Science, Vol. 227 (No. 1-2), pp. 1-6, 2006 (FI 3,442) -Q1
7	A. Morozan, I. Stamatin, L. Stamatin, A. Dumitru , K. Scott, Carbon electrodes for microbial fuel cells, Journal of Optoelectronics and Advanced Materials, Vol. 9(1), pp. 221 – 224, 2007 (FI 0,827)-Q3
8	I. Stamatin, A. Morozan, A. Dumitru , V. Ciupina, G. Prodan, J. Niewolski, H. Figiel, The synthesis of multi-walled carbon nanotubes (MWNT) by catalytic pyrolysis of the phenol-formaldehyde resins, Physica E, Vol. 37(1-2), pp. 44-48, 2007 (FI 0,834)-Q3
9	A. Morozan, L. Stamatin, F. Nastase, A. Dumitru , S. Vulpe, C. Nastase, I. Stamatin, K.Scott, The biocompatibility microorganisms-carbon nanostructures for applications in microbial fuel cells, physica status solidi (a), 204 (6), pp. 1797-1803, 2007 (FI 1,214)-Q2
10	A. Morozan, H. Figiel, J. Żukrowski, E. Japa, W. Tokarz, A. Dumitru, I. Stamatin, Structure and magnetic properties of nanoparticles trapped in a carbon matrix along with the catalytic growth of carbon nanotubes, Materials Science and Engineering: C, C27, pp. 1167-1170, 2007; (FI 1,486)-Q2
11	A. Dumitru , I. Stamatin, A. Morozan, C.Mirea, V. Ciupina, Si-C-N-Fe nanostructured ceramics from inorganic polymer precursors obtained by plasma polymerization, Materials Science and Engineering: C, C27, 1331-1337, 2007; (FI 1,486)-Q2
12	A. Dumitru , A. Morozan, I. Stamatin, V. Danciu, C. Cotet, Correlation of different carbon support and catalytic activity for Pt based catalyst, Journal of Optoelectronic and Advanced Materials, Vol. 10 (4), 904-906, 2008; (FI 0,577)-Q3
13	A. Dumitru , A. Morozan, M. Ghiurea, K. Scott, S. Vulpe, Biofilm growth from wastewater on MWNTs and carbon aerogels, physica status solidi (a) – applications and materials science, Vol. 205 (6), 1484-1487, 2008 (FI 1,205)-Q2

14	C. Nastase, A. Dumitru , F. Nastase, A. Moroza, S. Vulpe, D. Batalu, Comparative study of deep-coating and plasma processing PMMA thin films; Journal of Optoelectronics and Advanced Materials; 12(4); 944-947; 2010, (FI 0,412)-Q4
15	Boroica, Z. Plaiasu, F. Nastase, C. Nastase, A. Dumitru , M. Elisa, B.A.Sava, R. Iordanescu, I. Feraru, C. Vasiliu, M. Calin, A. Diaconu, L.D. Ursu, L., Obtaining and characterization of calcium/magnesium/iron lithium phosphate glasses, 2010, Optoelectronics and Advanced Materials, Rapid Communications 4 (9) , pp. 1301-1303 (IF 0,477)-Q4
16	Teodor Sandu, Andrei Sarbu, Floriana Constantin, Emilia Ocnaru, Silviu Vulpe, Anca Dumitru and Horia Iovu, Polyphenol oxidase immobilization on functionalized polypyrrole, Revue Roumaine de Chimie, 2011, 56(9)- (IF 0,418)-Q4
17	C Nastase, A Dumitru , V Barna, F Nastase, Para-phenylene derivatives obtained by plasma polymerization technique, Digest Journal of Nanomaterials and Biostructures, Digest Journal of Nanomaterials and Biostructures, 10/2013; 8(4):1811-1818. (IF1,123)-Q3
18	Anca Dumitru , M. Mamlouk, K.Scott, Effect of different chemical modification of carbon nanotubes for the oxygen reduction reaction in alkaline media, Electrochimica Acta, ISSN 0013-4686, 07/2014, Volume 135, pp. 428 – 438; (IF 4,504)-Q1
19	M.Visan, C.G.Panaiotu, C.Necula, A. Dumitru, Palaeomagnetism of the Upper Miocene- Lower Pliocene lavas from the East Carpathians: contribution to the paleosecular variation of geomagnetic field, Scientific Reports, 2016, 6:23411; (IF 4,295)-Q1
20	C.G. Panaiotu , D. Dimofte , C. Necula , A. Dumitru , I. Seghedi, R.-G. Popa, Revised paleosecular variation from quaternary lava flows from the East Carpathians, Romanian Reports in Physics 2016, 68(1):416:424; (IF 1,467)-Q2
21	A. M. Grumezescu, Anca Dumitru , S. Jinga, Advanced nano- and bio- materials: A pharmaceutical approach, International Journal of Pharmaceutics, 510 (2016) 2: pp 407-408; (IF 3,649)-Q1
22	Dumitru, A. , Vulpe, S., Radu, A., Antohe, S., Influence of nitrogen environment on the performance of conducting polymers/CNTs nanocomposites modified anodes for microbial fuel cells (MFCs), Romanian Journal of Physics, 2018, 63(3-4),605; (IF 1,460)-Q2
23	V. Purcar, V. Rădițoiu, A. Dumitru , C.-A.Nicolae, A. N. Frone, M.Anastasescu, A. Rădițoiu, M. F. Raduly, R. A.Gabor, Antireflective coating based on TiO2 nanoparticles modified with coupling agents via acid-catalyzed sol-gel method, Applied Surface Science (2019) 487 819-824 (IF 6,182)-Q1
24	Sorina Iftimie, Corina Bradu and Anca Dumitru , Carbon nanotubes and carbonized polyaniline nanostructures as 3D modified anode for microbial fuel cells, Proceedings of the Romanian Academy - Series A: Mathematics, Physics, Technical Sciences, Information Science 20(1):45-50 • March 2019; (IF 1,294)-Q3
25	C.Locovei, D.Coman, A.Radu, L.Ion, V.A.Antohe, N.Vasile, A.Dumitru , S.Iftimie, S.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, Volume 685, 1 September 2019, Pages 379-384; (IF 2,03)-Q3
26	S. Iftimie and A. Dumitru , Enhancing the performance of microbial fuel cells (MFCs) with nitrophenyl modified carbon nanotubes-based anodes, Applied Surface Science (2019) 492 661-668; (IF 6,182)-Q1
27	A. Radu, C. Locovei, V.A.Antohe, M.Socol, D. Coman, M. Manica, A. Dumitru , L.Dan, C.Radu, A.M.Raduta, L.Ion, S.Iftimie, Antohe S, Effects of annealing on the physical properties of ito thin films grown by radio frequency, Digest Journal of Nanomaterials and Biostructures, 2020, 3:679-687; (IF 0,963)-Q4

28	Claudiu Locovei, Anita-Laura Chiriac, Andreea Miron, Sorina Iftimie, Vlad-Andrei Antohe, Andrei Sarbu and Anca Dumitru , Synthesis of titanium nitride via hybrid nanocomposites based on TiO ₂ /acrylonitrile, Scientific Reports, 2021, 11(1) 5055; (IF 4,997)-Q2
29	Sorin Marius Avramescu, Irina Fierascu, Radu Claudiu Fierascu, Roxana Ioana Brazdis, Angel Vasile Nica, Claudia Butean, Elena Alina Olaru, Sorin Ulinici, Marian Nicolae Verziu, Anca Dumitru , Removal of paracetamol from aqueous solutions by photocatalytic ozonation over TiO ₂ – MexOy thin films, Nanomaterials, 2022, 12, 613; (IF 5,3)-Q1
30	Irina Lascu, Claudiu Locovei, Corina Bradu, Cristina Gheorghiu, Ana Maria Tanase and Anca Dumitru , Polyaniline-Derived Nitrogen-Containing Carbon Nanostructures with Different Morphologies as Anode Modifier in Microbial Fuel Cells, International Journal of Molecular Sciences 2022, 23, 11230; (IF 5,6)-Q2
31	Angel Vasile Nica, Elena Alina Olaru, Bradu Corina, Anca Dumitru , Sorin Marius Avramescu, Catalytic ozonation of ibuprofen in aqueous media over polyaniline derived nitrogen containing carbon nanostructures, Nanomaterials, 2022, 12(19)3468, 10.3390/nano12193468; (IF 5,3)-Q1
32	A. Dumitru , A. Dinu, I. Iurescu, S. Toader, Investigation of Polypyrrole/TiO ₂ and polypyrrole WO ₃ nanocomposites as anode modifier in salt bridge microbial fuel cell using municipal wastewater, Romanian Reports in Physics, 2024, 76(1), 502; (IF 2,1)-Q2
33	A. Dumitru , Electrochemical activity towards ORR correlated with synthesis method and nitrogen functionality of polyaniline derived nitrogen doped carbon materials, Romanian Reports in Physics 77, 501 (2025); (IF 2,1)-Q2
34	E. Blanzeanu, M. Marin, M. N. Verziu, A. Dumitru , B. S. Vasile, C. Stavarache, D. E. Cozorici, R. Luque, C. Zaharia, I. C. Radu, Chitosan-Polylactic Acid Composites: From Seafood Waste to Advanced Functional Materials for 3D Printing, Advanced Composites and Hybrid Materials, (2025) 8:66; https://doi.org/10.1007/s42114-024-01131-x ; (IF 23,2)-Q1
35	M. Taha Sultan, A. Dumitru , E. Fakhri, R. Brophy, A. Manolescu, and H. Gudfinur Svavarsson, Synergistic Sensing: Application of SiNWs-PANI:MO _x Heterostructures for Human Respiratory Monitoring J. Semiconductors, 2025, 46(3) 032101; (IF 4,8)-Q2
36	Irina Lascu, Cristina Constanta Gheorghiu, Ioana Cristina Bucur, Ana-Maria Tanase and Anca Dumitru , Influence of polypyrrole-derived nitrogen-doped carbon nanostructure morphology on the microbial composition of anodic biofilms and microbial fuel cell performance, Surfaces and Interfaces, 56 (2025) 105586; (IF 5,7)-Q1

♣Scientometric data (Impact Factor – IF, Ranking by IF – Q1, Q2, Q3 and Q4) is from Clarivate – Journal Citation Reports (JCR), taken from the publication’s year or the previously available year.

2. Book Chapters

No.	Book chapter
1	A. Dumitru , I. Stamatin, S. Grecu, M. Ionescu “ <i>Plasma Polymerization of Thin Films Using Aniline and p-Xylene Precursors</i> ”; pp 44-51 In “Frontiers of High Pressure Research II: Application of High Pressure to Low-Dimensional Novel Electronic Materials”, Ed KLUWER Academic Publisher, Dordrecht, Netherlands, Volume 48, 2001, (4pp)
2	Ioan Stamatin, Adina Morozan, Luminita Stamatin, Anca Dumitru , <i>Prospective Investigations Of Biofuel Cells As Source For Applications In Nanobiotechnology</i> , publicat in Nanostructured and Advanced materials for applications in Sensors, Optoelectronic and Photovoltaic Technology, Ed KLUWER Academic Publisher, Eds. A. Vaseashta, D. Dimova Malinovska, J. M.

	Marshall, Dordrecht, Netherlands, 2005 pp4
3	A. Andronie, A. Morozan, C. Nastase, F. Nastase, A. Dumitru , S. Vulpe, A. Vaseashta, I. Stamatina, CsHSO ₄ /nanooxide polymer membrane for fuel cell, <i>Functionalized Nanoscale Materials, Devices and Systems</i> , NATO Science Series B: Physics and Biophysics, Vaseashta, A. K; Mihailescu, I. N. (Eds.), XIV, 490 p., ISBN: 978-1-4020-8902-2, pp.415-418, 2008
4	Sava, B.A., Diaconu, A., Ursu, L.-D., Boroica, L., Elisa, M., Grigorescu, C., Vasiliu, C., (...), Dumitru A, Ecological silicate glasses, <i>Advanced Materials Research</i> 2008, 39-40, pp.667-670
5	A. Morozan, A. Dumitru , C. Mirea, I Stamatina, F. Nastase, A. Andronie, S. Vulpe, C. Nastase, A. Vaseashta, Synthesis and characterization of carbon supported Pd and PtPd catalysts for DMFCs, <i>Functionalized Nanoscale Materials, Devices and Systems</i> , NATO Science Series B: Physics and Biophysics, Vaseashta, A. K; Mihailescu, I. N. (Eds.), XIV, 490 p., ISBN: 978-1-4020-8902-2, pp.445-448, 2008
6	Anca Dumitru and Keith Scott, <i>Microbial Electrochemical and Fuel Cells. Fundamentals and Applications</i> , Edition: 1, Chapter: Anode Materials for microbial fuel cells, Publisher: Woodhead Publishing, Editors: Keith Scott, Eileen Hao Yu, 2016, Pages 117-152 https://doi.org/10.1016/B978-1-78242-375-1.00004-6

3. Articole științifice originale, fără factor de impact:

1. Teodor Sandu, Andrei Sarbu, Floriana Constantin, Emilia Ocnaru, Silviu Vulpe, Anca Dumitru and Horia Iovu, Polyphenol oxidase immobilization on functionalized polypyrrole, *Revue Roumaine de Chimie*, 2011, 56(9)
2. A. Morozan, F. Nastase, A. Dumitru, C. Nastase, S. Vulpe, M. Filipescu, Plasma processing of polypyrrole-heparin thin films on titanium substrates for biomedical applications, *Physica Status Solidi C- Current Topics in Solid State Physics*, 2009, 2195-2198, Vol. 6, No.10
3. Sava, B. A, Diaconu A., Ursu, L.-D., Boroica L., Elisa, M., Grigorescu C., Vasiliu C., Stamatina I., Nastase F., Nastase C., **Dumitru, A.**, Ecological silicate glasses, *Book Series: Advanced Materials Research* 2008, 39-40, pp.667-670; DOI:10.4028/www.scientific.net/AMR.39-40.667
4. L.C. Cotet, **A. Dumitru**, A. Morozan I. Stamatina, V. Cosoveanu, V. Danciu, Carbon Aerogels - Supported Pt with Applications in Fuel-Cells, *Clean Technology 2008: Bio Energy, Renewable, Green Building, Smart Grid, Storage and Water*, 2008, Page 310-312
5. Adina Morozan, **Anca Dumitru**, I. Stamatina, *Carbon-Carbon Composites Based on Pyrolyzed Polymers and Nanoshells for Electrode Materials*, *Ann.Univ.Buc.-Physics*, Vol. LIII, pp. 37-43, 2005
6. **Anca Dumitru**, Livia Constantinescu, Adina Morozan, I. Stamatina, *Carbon nanostructures obtained from novolac pyrolysis with ferrocene catalyst*, *Ann.Univ.Buc.-Physics*, Vol. LIII, pp. 23-30, 2005
7. Michael J. Bucknum, Ioan Stamatina, Gleb Yushin, Yury Gogotsi and **Anca Dumitru**, Characterization of Powders Received from Bucharest University Potentially Containing Glitter and Silicon Dicarbide, *Chemistry Preprint Archive*, Volume 2004, Issue 2, Pages 22-30, February 2004

8. **Anca Dumitru**, Livia Constantinescu, Adina Morozaan and I. Stamatin, Carbon nanostructures obtained from novolac pyrolysis with ferrocene catalyst, Ann.Univ.Buc., Physica, LIII, 2004
9. Adina Morozaan, L.Georgescu, **Anca Dumitru** and I.Stamatin, Carbon-carbon composites based on pyrolyzed polymers and nanoshells for electrode materials, Ann.Univ.Buc., Physica, LIII, 2004
10. I. Stamatin, **Anca Dumitru**, Adina Morozaan, *Nanostructured materials used for design of the components of fuel cells* Ro. J. Phys,vol 49 No9-10, pp767-775/ 2004
11. I.Stamatin, Adina Morozaan, **Anca Dumitru**, Silviu Vulpe, "Fuel cells: A New Generation for Alternative Energy Sources", Ann.Univ.Buc., Physics, Vol. LII, 13-17, 2003
12. I. Stamatin, **Anca Dumitru**, Adina Morozaan, Silviu Vulpe, "A New Generation of Nanomaterials for Hydrogen Storage", Ann.Univ.Buc., Physics, Vol. LII, 19-26, 2003
13. **Anca Dumitru**, Claudia Nastase, F. Nastase, Livia Constantinescu, I.D.Stamatin, I.Stamatin, "Characterization of polyaniline obtained by chemical and plasma polymerization",Analele Universitatii din Bucuresti, Physics, LI,1, 51-58, 2002
14. **Anca Dumitru**, I. Stamatin, Livia M. Constantinescu, "Plasma Polymerization of Aniline: Synthesis and Characterization", Analele Univ. Buc., Physics, L, 83-89, 2001
15. I. Stamatin, S.Grecu, I. Kleps, M.Ionescu, **Anca Dumitru**, "Field Emission in Diamond Structures deposited onto Si-111 Tips", Romanian Journal of Physics, 45, Nos. 1-2, 111-119, 2000
16. **Anca Dumitru**, I.Stamatin, S.Grecu, M.Ionescu, " The Etching of Polymers Used in Photoresist under RF- Inductive Plasma", Analele Univ. Buc., Physics, XLXX, 61-65, 2000

4.Communications at National and International Events

1. Cosmin Jalba, Laurențiu Dinca, Cristina Gheorgiu, Nikolay Djourellov, Cătălin Ticos, **Anca Dumitru**, Bogdan Diaconescu, High throughput graphene production via intercalation-expansion method, 10th International Conference on Advanced Materials –ROCAM, Bucharest, Romania, 15-18 July 2024–oral
2. Maria Marin, **Anca Dumitru**, Rafael Luque Alvarez de Sotomayor, Ionut Radu, Cristina Stavarache, Marian Verziu, A new approach to 3D-printed Ni based catalysts for the conversion of α -cellulose to lactic acid, 9th EUChemS, Chemistry Congress, 7-11 Iulie 2024, Dublin , Ireland
3. Ioana Aurelia Dinu, Dragoș Ene, **Anca Dumitru**, Bogdan Antonescu, Changes in the characteristics of tropical nights in Romania during the 21st Century, Sesiunea Anuală de Comunicari Stiintifice a Facultatii de Fizica, iunie 2024, Bucuresti, Romania - (<https://ssffb.fizica.unibuc.ro/SSFFB/Main.php>)
4. Anca Dumitru, Effect of synthesis methods of polyaniline-derived nitrogen doped carbon nanostructures for oxygen reduction reaction in alkaline media, Sesiunea Anuală de Comunicari Stiintifice a Facultatii de Fizica, iunie 2024, Bucuresti, Romania - (<https://ssffb.fizica.unibuc.ro/SSFFB/Main.php>)
5. Ioana Iurescu, Anca Dumitru, Comparative study of polyaniline-based nanocomposites doped with different metal oxide nanoparticles, Sesiunea Anuală de Comunicari Stiintifice a Facultatii de Fizica, iunie 2024, Bucuresti, Romania -(<https://ssffb.fizica.unibuc.ro/SSFFB/Main.php>)

6. **Anca Dumitru**, Ana Maria Tanase, Sorina Iftimie, Irina Lascu "Anode Modification with Polypyrrole-Derived Carbon Nanostructures for the Improvement of Microbial Fuel Cells Performance", 10th International Conference on "Energy, Sustainability and Climate Crisis" ESCC 2023, 5-9 June 2023, Heraklion, Grecia
7. A. M. Tanase, I. Lascu, C. Bradu, S. Toader, A. Dinu, **A. Dumitru**, Waste Water Microbial Community Dynamics in MFCs Systems Using Anode Modification with Nanocomposites of Polyaniline/Nano-Oxides, The 18th EuChemS International Conference on Chemistry and the Environment, 11-15 June, 2023, Venice, Italy
8. **Anca Dumitru**, Aurelia Dinu, Ioana Iurescu and Stefan Toader, Investigation of polypyrrole/TiO₂ and polypyrrole/WO₃ nanocomposites as anode modifier in salt bridge based Microbial Fuel Cell using municipal wastewater, Sesiunea de Comunicari Stiintifice a Facultatii de Fizica, iunie 2023 (<https://ssffb.fizica.unibuc.ro/SSFFB/Main.php>)
9. A. Dumitru-Grivei, C. Necula, M. Dumitru, **A. Dumitru** and G. Iorga, "Magnetic properties and morphology of PM10 aerosols in Romania. Domain state identification of anthropogenic fraction" European Aerosol Conferences, EAC2023, 8-12 Septembrie, Malaga, Spain
10. **A. Dumitru**, T. Suteu, S. Toader, S. Iftimie, R. Adrian and C. Locovei, Stability of microbial biofilm grown on the surface of polyaniline derived carbon nanostructures used as anode modifier in microbial fuel cell, 24th International Conference - Materials, Methods & Technologies, 19-22 August 2022, Burgas, Bulgaria
11. Irina Lascu, Iulia Chiciudean, Maria Preda, **Anca Dumitru**, Ana Maria Tanase, Effect of morphology of carbonized polypyrrole-modified anodes on the bacterial diversity of microbial fuel cells, FEMS Conference on Microbiology, 30 June-2 July, 2022, Belgrad, Serbia
12. **A. Dumitru**, S. Iftimie, S. Toader, R. Adrian and C. Locovei, The performance of polyaniline/nano-WO₃ and polyaniline/nano-TiO₂ nanocomposite as anode modifier in microbial fuel cells, 24th International Conference - Materials, Methods & Technologies, 19-22 August 2021, Burgas, Bulgaria
13. Irina Lascu, Iulia Chiciudean, **Anca Dumitru**, Ana Maria Tanase, Microbial community diversity of biofilms on carbonized polyaniline-modified anodes of MFCs using municipal wastewater, FEMS Conference on Microbiology, 30 June-2 July, 2022, Belgrad, Serbia
14. Sorin Marius Avramescu, Angel Vasile Nica, Elena Alina Olaru, Marian Verziu, **Anca Dumitru**, Polyaniline based catalysts for oxidative removal of ibuprofen from water, BRAMAT 2022, 12th Int. Conference on Materials Science & Engineering, 9-12 Martie, Brasov, Romania
15. Tudor Suteu and **Anca Dumitru**, The influence of different polypyrrole polymer and carbon material morphologies on electrical properties, Sesiunea Anuală de Comunicari Stiintifice a Facultatii de Fizica, 24 iunie 2022, Bucuresti, Romania
16. Cristian Mocanu, Angel Nica, Sorin Avramescu, Claudiu Locovei, **Anca Dumitru**, Methyl Orange Removal from Aqueous Solutions using Polyaniline/Zinc Oxide Nanocomposite as Adsorbent, Sesiunea Anuală de Comunicari Stiintifice a Facultatii de Fizica, 24 iunie 2022, Bucuresti, Romania
17. **A. Dumitru**, T. Suteu, S. Galin, S. Iftimie and C. Locovei, Polyaniline/Fe₃O₄ nanocomposite modified glassy carbon electrodes use for electrochemical detection of amoxicillin, 23rd

International Conference - Materials, Methods & Technologies, 19-22 August 2021, Burgas, Bulgaria

18. **A. Dumitru**, T. Suteu, S. Galin, S. Iftimie and C. Locovei, Polypyrrole-based nitrogen containing carbons as microbial fuel cells anode, 23rd International Conference - Materials, Methods & Technologies, 19-22 August 2021, Burgas, Bulgaria
19. Andreea Miron, Anita Radu, Carmen Lazau, **Anca Dumitru**, Ana- Mihaela Florea, Teodor Sandu, Tanta Verona Iordache*, Andrei Sarbu, Application of host-guest polymerization for titanium nitride synthesis, 4th International Conference on Emerging Technologies in Materials Engineering, 4-5 November 2021, Bucharest, Romania
20. S. Iftimie, C. Locovei, A.G. Sovaiala, O.D. Baban, A.M. Raduta1, A.M. Panaitescu, A. Radu, V.A. Antohe, **A. Dumitru**, L. Ion, and S. Antohe, A comparison between substrate and superstrate photovoltaic structures based on CdTe/CdS heterojunction, E-MRS 2021 Spring Meeting, Symp. A, May, 2021
21. Violeta Purcar, Valentin Raditoiu, **Anca Dumitru**, Alina Raditoiu, Monica Florentina Raduly, Raluca Manea, Georgiana Cornelia Ispas, Adriana Frone, Mihai Anastasescu, Simona Caprarescu, Luminița Eugenia Wagner and Sorin Avramescu, Synthesis and characterization of sol-gel TiO₂-based materials using tetraethoxysilane (TEOS) and/or methyltriethoxysilane (MTES) as coupling agents, Materials, Methods and Technologies, Burgas, Bulgaria, 29th August-1st September 2020
22. **Anca Dumitru**, Andreea Miron, Anita Radu, Andrei Sarbu, Sorina Iftimie, Cristian Panaiotu, Claudiu Locovei, Carmen Lazau, Synthesis of titanium nitride via nanocomposites based on mesoporous titania/acrylonitrile polymers, Materials, Methods and Technologies, Burgas, Bulgaria,
23. A. Sirmon, A. Ionita, B. Girbaci, Sorina Iftimie, Claudiu Locovei, **Anca Dumitru**, Stefan Antohe, A. Stamata, Doina Dimonie, Engineering of the achieving on a new laboratory line of polymer filaments that comply with 3D/4D print requirements, International Balkan Workshop on Applied Physics, 2019 July 16-19, Constanța, România
24. Sorina Iftimie, Claudiu Locovei, Adrian Radu, Vlad Antohe, Marcela Socol, **Anca Dumitru**, Ana-Maria Raduta, Lucian Ion, Stefan Antohe, *Effects of annealing on the physical properties of various metallic oxides*, 21th Annual Conference YUCOMAT 2019, 2 – 6 September, 2019, Herceg Novi, Montenegro
25. **Anca Dumitru**, Vlad Basceanu, Robert Maaz, Claudiu Locovei, Sorin Avramescu si Sorina Iftimie, Relation between the morphology and nitrogen environmet of nitrogen-containing carbon nanostrucutres and their performance as anode modifier in microbial fuel cell, International Balkan Workshop on Applied Physics, 2019 July 16-19, Constanța, România
26. Sorin Avramescu, Alina Olaru, Angel Nica, **Anca Dumitru** and Violeta Purcar, Photocatalytic removal of ibuprofen from water using sol-gel prepared TiO₂ thin films, 11th International Conference on Materials Science&Engineering - BRAMAT 2019, 16-16 March, 2019, Brasov, România
27. **Anca Dumitru**, Sorina Iftimie, Anita Radu, Andreea Miron, Andrei Sarbu, Cristian Panaiotu, Claudiu Locovei and Carmen Lazau, *Synthesis of titanium nitride via hybrid polymeric*

composites, 21th Annual Conference YUCOMAT 2019, 2019 September 2 – 6, Herceg Novi, Montenegro

28. **A. Dumitru**, C. Bradu, S. Iftimie, S. Vulpe, S. Avramescu, A. Olaru and A. Radu, Carbon nanostructures as 3D modified anode for microbial fuel cell, *Electrochemistry for Nano & Nano for Electrochemistry- ElecNano 8*, 29-31 May 2018, Nancy, France
29. S. Vulpe, F. Nastase, A. Avram, O. Simionescu, C. Romanitan, R. Gavrilă, B. Bită, **A. Dumitru**, Impact of thermal treatment upon morphology and crystallinity of titanium nitride thin films deposited by RF sputtering, *Workshop on Compound Semiconductor Devices and Integrated Circuits held in Europe- Wocsdice 2018*, Bucharest, Romania, 14-16 May 2018, Extended abstract (2 pages) published in the proceeding of the conference
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28.05.2025

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