

CURRICULUM VITAE

PERSONAL DATA



Gheorghe DINESCU

📍 National Institute for Laser, Plasma and Radiation Physics
(Institutul National pentru Fizica Laserilor, Plasmei si Radiatiei –
INFLPR), Bucuresti- Magurele, 409 Atomistilor Street, 077125
Ilfov, Romania

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Gender M | Date of birth 20/09/1952 | Nationality Romanian

POSITION: Key person, member of the team

WORK EXPERIENCE

2006- onwards	Senior Scientist 1st degree National Institute for Laser, Plasma and Radiation Physics (INFLPR) Bucuresti- Magurele, 409 Atomistilor Street, 077125 Ilfov, Romania http://www.inflpr.ro Leader of the Research Group - Plasma Processes, Materials and Surfaces (PPMS) ~12 persons; Management of international and national research projects; Research activity in the field of plasma physics, plasma processing and related fields: plasma sources, nanostructured and composite materials, plasma processing of surfaces, plasma for environmental applications, thin film deposition; biophysics;. (Research, Development and Innovation)
2007- onwards	PhD supervisor, Professor Doctoral School of Physics, University of Bucharest University of Bucharest, Faculty of Physics, Bucuresti – Magurele, 409 Atomistilor Street, 077125 Ilfov, Romania . http://www.inflpr.ro & http://fizica.unibuc.ro/ PhD supervision, Lectures in Plasma Physics and Plasma Processing (Education and Research)
1996-2000 and 2002-2007 (8 years)	Head of Department- Low Temperature Plasma Physics Department National Institute for Laser, Plasma and Radiation Physics (INFLPR) Bucuresti- Magurele, 409 Atomistilor Street, 077125 Ilfov, Romania http://www.inflpr.ro. Management of Low Temperature Plasma Physics Laboratory (~30 persons) (Management: Research, Development and Innovation)
1995-2006	Senior Scientist 2nd degree National Institute for Laser, Plasma and Radiation Physics (INFLPR) Bucuresti- Magurele, 409 Atomistilor Street, 077125 Ilfov, Romania http://www.inflpr.ro

	Founding (2000) and leading the Research Group on Plasma Processes, Materials and Surfaces Management of national and international projects; Research activity in the field of plasma physics, material science; plasma technology (Research, Development and Innovation)
2001	Visiting scientist, 2 months University of Lisbon, Faculty of Sciences, Portugal Research in the field of laser and plasma physics (Research, Development and Innovation)
1990-1995	Senior Scientist 3rd degree Institute of Physics and Technology for Radiation Devices (IFTAR, later reorganized as INFLPR), Magurele, Bucharest Research activity in the field of plasma physics and related fields (Research, Development and Innovation)
1990-3 months, 1991-2 months ; 1992-2 months , 1994-2 months , 1996-2 months, 1997 –1 month, 1998- 2 months , 1999-2 months ; 2000 - 2 months , 2001- 2 months, 2002-2 months, 2003 -1 month, 2004 1 month (in total, more than 2 ani)	Postdoc, visiting research scientist (in total more than 2 years) Eindhoven University of Technology, Department of Applied Physics, the Netherlands Collaborative research activity on plasma physics and plasma processing (Research and Education)
1982-1990	Scientific Researcher Institute of Physics and Technology for Radiation Devices (IFTAR, later reorganized as INFLPR), Magurele, Bucharest . Research activity in the field of plasma physics and related fields (Research and Development)
1979-1982	Physicist Centre for Astronomy and Space Sciences, Magurele, Bucharest .. Research activity in the field of space plasmas; processes in ionosphere (Research and Development)
1977-1978	Teacher High School for Mathematics and Physics nr. 14, , Magurele, Bucharest Teaching physics for high school and spectroscopy for post high-school students (Education)
1976-1977	Physicist “Electronica” Company, Bucharest

Experimental work – physics applied to medical instruments and devices

(Industrial Research)

EDUCATION

- 1978-1987 PhD in Physics, topic Plasma Physics
University of Bucharest, Faculty of Physics, Bucuresti – Magurele, 409 Atomistilor Street, 077125 Ilfov, Romania.
<http://www.fizica.unibuc.ro>
PhD thesis: *Contributions to the study of flowing plasmas by optical emission spectroscopy at frequencies from visible and ultraviolet*, supervisor Acad. Ioan Iovitz Popescu
- 1971-1976 **Diplomat physicist**
University of Bucharest, Faculty of Physics, Bucuresti – Magurele, 409 Atomistilor Street, 077125 Ilfov, Romania
<http://www.fizica.unibuc.ro>
Physics (1971-1975), specialisation in Biophysics (MSc equivalent) (1975-1976), subject: *Bilayered lipid membranes* (ISCED 5)

PERSONAL SKILLS AND COMPETENCES

Mother tongue Romanian

Other languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	REading	Spoken interaction	Spoken production	
English	Proficient user	Proficient user	Proficient user	Proficient user	Proficient user
C2					
French	Independent user	Independent user	Independent user	Independent user	Independent user
B2					

Levels: A1/A2: Elementar user - B1/B2: Independent user - C1/C2: Experimented user
(Common European Framework of Reference for Languages)

Organizational and managerial skills and competences

Head of Department: Low Temperature Plasma Physics Laboratory – for 8 years (1996-2000) and 2002 -2007), management of activity of 30-35 people

Founder and leader of the Research Group “Plasma Processes, Materials and Surfaces”, at INFLPR: from 2000 –up to present

Scientific, technical
skills and
competences

Main fields: 1) gas discharge physics and technology; 2) plasma sources at low and atmospheric pressure; 3) non-thermal plasma jets; 4) plasma interactions with materials and surfaces; 4) thin films and surface modification by plasmas and laser techniques (magnetron sputtering, plasma enhanced chemical vapor deposition, laser ablation and pulsed laser deposition), 5) discharge physics in the service of fusion technology; 6) characterization of materials, including at nanoscale ; 7) atomistic deposition of carbon based nanomaterials (nanowalls, nanofibers, nanoparticles); 7) plasma preparation of biointerfaces; 8) metal and oxide materials and their transformation by plasmas and lasers; 9) plasma sources for environmental applications (gas and liquid phase); 10) plasma processes and plasma diagnostics.

Computer skills and
competences

Microsoft Office and Origin programs

MEMBERSHIP
AND
EVALUATOR

- Member of professional associations: European Physical Society (EPS); International Plasma Chemistry Society (IPCS), International Society for Optical Engineering (SPIE); European Optical Society (EOS); Romanian Physical Society;
- Member of Board of Directors of International Plasma Chemistry Society (IPCS): 2006-2009, 2010-2013;
- Member of the Advisory Board of ISI Journal "Plasma Processes and Polymers" (Viley VCH);
- Member of the Editorial Board of the ISI Journal "Proceedings of the Romanian Academy: series A"
- Chair, co-chair and Member of Committees of International Conferences:
 - Chair of the 20th International Colloquium on Plasma Processes (CIP), 2015, Saint Etienne, France;
 - Co-chair of the 18th International Colloquium on Plasma Processes (CIP), 2011, Nantes, Franta (also member of the Scientific Committees 17th CIP in 2009, Marseille, Franta, pentru 18th si pentru 19th CIP);
 - Chair / Co-chair of the 15th Conference of Plasma Physics and Applications (15th CPPA) Iulie 1-5, 2010, Iasi, Romania (co-chair si principal organizer of 14th CPPA, 14-18 September 2007, Brasov, Romania, of the 16th Conference of Plasma Physics and Applications (16th CPPA) June, 2013, Magurele, Bucuresti; co-chair si principal organizer of 17th CPPA, Magurele 2017, and of 18th CPPA 2019, Iasi, Romania; and 19th CPPA 2021, Magurele, Romania;
 - Co-organizer of E-MRS Symposium Q: Laser and plasma processing for advanced materials, Strasbourg, 2009;
 - Member of the Advisory Board of the 12th International Conference on Plasma Surface Engineering (PSE), September 13 - 17, 2010, Garmisch-Partenkirchen, Germany (and for the 13th PSE, September 2012, and for 14th PSE, September 2014); and for 15th PSE (September 2016), and for PSE 2018, and for PSE 2020;
 - Member of the International Scientific Committee of the XXI European Conference on Atomic and Molecular Physics in Ionized Gases (ESCAMPIG), Iulie 10-13, 2012, Viano do Castello, Portugal (also for XXI ESCAMPIG, 2010, Novi Sad, Serbia);
 - Member in the International Programme Committee 24th SPPT-Praga 2010 (and of 23rd Symposium on Plasma Physics and Technology (SPPT) - Praga 2008);
 - Member in the International Advisory Committee of 5th Central European Symposium on Plasma Chemistry, 25-29 August, 2013, Balaton, Hungary (and of 6th CESPC, 6-10 September 2015, Bressanone, Italy
 - Member in the International Scientific Committee of the International Symposium of Plasma Chemistry, July 10-15, 2015, Antwerp, Belgium
 - Lider of WG and Member in the Management Committee of the COST 527 Action "Plasma Polymers and Related Materials" (2000-2005);
 - Member in the Management Committee of the COST MP 1101 " Biomedical Applications of Atmospheric Pressure Plasma Technology, 2011-2014;
 - Member in the Management Committee of the COST TD 1208 " Electrical discharges with liquids for future applications", 2012-2016;
 - Member in the Management Committee of the COST Action CA20114 "Therapeutical Applications of Cold Plasmas -PlasTHER", 2021-2025;
- Jury member in PhD defense committees abroad and open positions in universities abroad: Belgium, France, Italy, the Netherlands.

- **Evaluator**

- o Reviewer for journals: Plasma Sources Science and Technology, Physics of Plasmas, Journal of Physics D: Applied Physics, IEEE Transaction on Plasma Science, Plasma Processes and Polymers, Plasma Chemistry and Plasma Processing, Applied Surface Science, Nanotechnology, Nanomaterials, Surface Coatings and Technology, Journal of Non-crystalline Solids, Contributions to Plasma Physics, Romanian Journal of Physics, etc.
- o Expert evaluator of international projects for Belgium, Italy, Germany

PUBLICATIONS, PROJECTS, PATENTS

Publications: more than 250 items (WOS); more than 370 items (Google Scholar)

Projects: Romanian Director to more than 10 international projects and Coordinator (Project Director or Partner responsible) to more than 20 national projects;

Patents: 10, out of which 1 international;

Citations: more than 2600 (from ISI WOK, without self-citations); more than 4000 (from Google Scholar: <https://scholar.google.ro/citations?user=Gmb15i8AAAAJ&hl=ro>)

Co-editor proceedings, books of abstracts, topical issues, chapters: 12, in the topics of plasma and laser processing;

Invited lectures, seminars at international events, universities: more than 20

Hirsch factor h: 29 (Web of Science Core Collection), 35 (Google Scholar), as for Dec 2025

ANNEX

Projects (selected):

Romanian Coordinator in international projects:

1. European COPERNICUS ERB IC15-CT96-0730 (Deposition of hard carbon nitride materials), project director Romania, 1997-2000;
2. European project SURFILM: (Knowledge Based Functional Surfaces and Films, FP 5, accompanying measures), subcontract Nottingham Univ.(2003);
3. Projects with Joint Institute for Nuclear Research Dubna (co-Director for 3 projects), topic: "Plasma Modification of Nuclear Track Membranes, (2008-2011, 2012-2014, 2014-2016, 2017-2021);
4. Projects in COST (European Science Foundation Programme "Cooperation in Science and Technology), Action COST 527 - Plasma Polymers and Related Materials", Action MP 1101 – Biomedical Applications of Atmospheric Pressure Plasma Technology (2011-2014); Action TD1208 "Electrical discharges with liquids for future applications", 2011-2016; Action CA20114 PlasTHER (2021-2025)
5. Project of bilateral cooperation IFA Romania-CEA France: C1-05 (2010-2013) - Plasma and Laser Processing of powders for Nuclear Applications (acronym LAPART), C5-07 (2016-2019) - Modification of fusion relevant tungsten materials under discharge plasma and laser exposure, in helium atmosphere (acronym FUTURE);
6. Projects in EURATOM programme, for cleaning of re-deposited layers, deposition of composites, synthesis of tungsten nanoparticles in plasma (co-director partner, more than 10 annual projects, 2005-ongoing);
7. Director project, project for doctoral education in EUROfusion programme, workpackage WPEDU (2014-ongoing);
8. Responsible partner project in Eurofusion Enabling Research (WPENR): STANDS project - Study of Tritiated and non-tritiated dust Adhesion/re-suspension on Dedicated Surfaces- (2016-2018)
9. Director Project in Eureka programme: E!3466-HEMO-GMO-QCM, contract 42/2005, 2005-2008;
10. Director project in M-ERANET programme (2016-2019): "Novel type of antibacterial coatings on textile materials and plastics with controllable release of antibacterial agent (PlasmaTex)" (ctr 31/2016);
11. Principal Investigator and Director of the European FP9 project "NanoDust in Metallic Tokamaks (DUST-FORM)", in the frame of EUROfusion Consortium, Workpackage Enabling Research. 2022-2024.

Coordinator of national projects in the National Programmes- PNCDI I, PNCDI II, PNCDI III, more than 20 projects (selected)):

1. Excellence Programme: CEEX (2006-2008), Reaching trends in plasma processing science (acronym RACORD)
2. Project 209/2006 (Excellence CEEX, 2006-2008), Facilitating the Access of Plasma Physics and Engineering Community to the Cooperation in Science and Technology European Programmes (acronym ACCESS)
3. PNCDI (2007-2009), Two-dimensional carbon nanostructures-plasma synthesis and their applicative potential (acronym 2D-NANO);
4. Partnership D72-226/2008 (2008-2011) Plasma processing for extended lifetime ureteral endoprosthesis catheters (acronym CATENDO)
5. PNCDI, IDEI (2008-2011) Atmospheric pressure cold plasmas, discharge phenomena and properties,
6. PNCDI II II, IDEI (2013-2015), Process diagnostic: carbon nanowalls versus carbon nanofibers plasma deposition.

Patents:

1. G. Dinescu, M. Teodorescu, E. R. Ionita, E. C. Stancu " *Sistem cu plasma de presiune atmosferica si metoda pentru tratarea suprafetelor interioare ale tuburilor dielectrice*, A/01353, (2011), granted
2. G. Dinescu, M. Teodorescu, E. Stancu, E. Grosu, C. Stanescu, " *Atmospheric pressure plasma modification of the external surface of cylindrical polymeric objects (tubes, wires, bars)*", A/01170 (2011), (granted)
3. G. Dinescu, M. Teodorescu, C. Stancu, E. R. Ionita, " *Sursa de plasma rece cu doua jeturi planare si injectie de gaze pentru depunerea de straturi subtiri, corodarea, curatarea si functionalizare suprafetelor la presiune atmosferica*", A/00864/2015 (granted)
4. G. Dinescu, I. Junkar, K. Kleinschek, S. Modic, M. Mozetic, D. Stoica, A. Vesel, S. I. Vizireanu, " *Growing carbon nanowalls on substrate of implantable medical device used to treat cardiac disease, comprises providing substrate in processing chamber and evacuating it to processing pressure, entering gas, providing radicals and adsorbing*", Derwent Primary Accession Number: 2016-23836X [34] (2016). (granted)
5. D. Panaitescu; A. N. Frone; I. Chiulan; C. A. Nicolae, S. Vizireanu, M. D. Ionita, E. R. Ionita, G. Dinescu " *Procedeu de tratare a micro si nanocelulozei folosind plasma imersata in lichid si procedeu de obtinere a nanocompozitelor din biopolimer si celuloza tratata*, A00177/13/03/2018 (pending)
6. A. Lazea-Stoyanova, E.R. Ionita, G. Dinescu " *Dispozitiv si metoda pentru sinteza particulelor de titan folosind plasma de radiofrecventa de presiune atmosferica*, A/00165/17.07.2019 (pending)
7. M.V. Teodorescu, G. Dinescu, C. Stancu, T. A.-M. Andreescu, A. Stoicescu, " *Radiofrequency plasma source for applications in space propulsion of small satellites*, Romanian State Office for Inventions and Trademarks (OSIM), registration number: A/00419 from 12.07.2019. (2019) (pending);
8. B. Mitu, T. Acsente, G. Dinescu, L. Surdu, I.R. Radulescu, I. Mancasi " *Structura compozită textil /metal cu proprietăți de ecranare electromagnetică obținute prin țesere si acoperire în plasmă* brevet OSIM A00681/30.10.2020 acordat OSIM hotararea 4.3/206 din 30.07.2025;
9. A.M.I. Trefilov, B.I. Bitu, S. Vizireanu, I. Stamatin, G. Dinescu " *Procedeu de obținere a ansamblurilor membrană-electrod-strat de difuzie a gazului pe bază de nanopereți de grafene depuși în plasmă pentru pile de combustie performante*/OSIM / A0635/13.10.2020
10. Alina-Maria Holban, Maria-Elena Zarif, Sorin Vizireanu, Sasa Alexandra Yehia, Alexandra Birca, Alexandru Mihai Grumezescu, Alexandru Titus Farcasiu, Carmen Curutiu, Lia Mara Ditu, Gheorghe Dinescu, " *Metoda cu plasma la presiune atmosferica pentru indepartarea filmelor microbiene dezvoltate pe diferite substraturi*, aplicatie OSIM A00310/08.06.2022

Editor of book of abstracts, proceedings, topical issues, and chapters in books

1. G. Dinescu, M. Teodorescu " *Cold atmospheric pressure plasma jets and their applications*, Chapter 7 in the Book " *Plasma Applications for Material Modification: From Microelectronics to Biological Materials* ", edited by F. Tabares, Jenny Stanford Publishing, Francis & Taylor, 2021
2. T. Acsente, L. G. Carpen, E. Matei, B. Bitu, R. Negrea, E. Bernard, C. Grisolia G. Dinescu (2020), " *Tungsten nanoparticles produced by magnetron sputtering gas aggregation: process characterization and particle properties* - chapter in the book " *Progress in Fine Particle Plasmas*, Editors T. Mieno, Y. Hayashi, K. Xue, Intechopen, DOI: 10.5772/intechopen.91733
3. L. G. Carpen, T. Acsente, M. A. Acasandrei, E. Matei, C. G. Chilom, D. I. Savu, G. Dinescu " *The interaction of tungsten dust with human skin cells*, chapter in the book " *Nanomaterials - Toxicity, Human Health and Environment* ISBN 978-1-78984-617-1, book chapter, 2019
4. Guosong Wu, Eun-Ha Choi, Paul K. Chu, Gheorghe Dinescu, Ranju Jung, and Ying Zhao (Guest Editors) : Scanning Special Issue " *Recent Applications of Scanning Microscopy in Surface Engineering*", Hindawi publishers (<https://www.hindawi.com/journals/scanning/si/248701/>) 2018, 175 pages
5. S.D. Stoica, B. Mitu, G. Dinescu (Editors) " *Book of Abstracts "19th International Conference on Plasma Physics and Applications"*, INFPLPR, ISSN 2344-0481, 2019;
6. S.D. Stoica, G. Dinescu (Editors) " *Book of Abstracts "17th International Conference on Plasma Physics and Applications"*, INFPLPR, ISSN 2344-0481, 2017, 163 pages
7. T Farcasiu (editor si autor), G.Dinescu, M. Pauna, D.M. Stefanescu, C. Farcasiu (co-autori), " *Tehnologii pentru tratamente de suprafata ale materialelor pentru bazele protetice*, Editura AGIR 2015, 162 pagini
8. B. Mitu, G. Dinescu (Editors) " *Book of Abstracts "16th International Conference on Plasma Physics and Applications"*, INFPLPR, ISSN 2344-0481, 2013, 182 pages
9. C. Boulmer - Leborgne, G. Dinescu, J. Krueger, S. Orlando, H.-U. Habermeyer, (Guest Editors), Topical Issue: " *Laser and Plasma Processing of Advanced Materials*, Journal of Optoelectronics and Advanced Materials- volume 12, no. 3, 2010
10. B. Mitu, G. Dinescu (Guest Editors) " *Journal of Optoelectronics and Advanced Materials* – volume 10, no. 8, 2008
11. B. Mitu, G. Dinescu (Editors) " *Book of Abstracts "14th International Conference on Plasma Physics and Applications"*, INFPLPR, 2007, 169 pages
12. M. Mutlu, G. Dinescu, R. Forch, J.M. Martin-Martinez, J. Vyskocil (Editors), " *Plasma Polymers and Related Materials*, Hacettepe University Press, ISBN 975-491-194-0, 2005

2025

1. V. Satulu, L. Kravets, O.Orelovich, B. Mitu, G.Dinescu, *High-Performance PET-TM/PTFE-like Composite Membranes for Efficient Salt Rejection via Air Gap Membrane Distillation*, Polymers; Basel Vol. 17, 3 (2025): 290; <https://doi.org/10.3390/polym17030290>
2. A. Palla-Papavlu, A. Bercea, M.O. Cernaianu, V. Marascu, B. Butoi, C. Porosnicu, B. Mitu, G. Dinescu, Nanosecond laser interaction with Beryllium: study of surface erosion and material removal dynamics, Materials & Design 260 (2025) 114916 ; <https://doi.org/10.1016/j.matdes.2025.114916>
3. B. Vigolo, E. Haye, J. Muller, Z. H. Ibupoto, S. -E. Benrazzouq, M. Pavia, A. C. García-Wong, A. Tahira, U. Aftab, P. Moskovkin, A. R. Mohamed, A. Besnard, D. Pilloud, S. Migot, J. Ghanbaja, M. Emo, N. Watiez, A. Achour, C. Douard, S. Vizireanu, G. Dinescu, S. Lucas, T. Brousse, J.-Fs Pierson Enabling Free Growth of Thin Films by Magnetron Sputtering for Blooming Microstructures, Advanced Functional Materials, 2025, e22071; DOI: [10.1002/adfm.202522071](https://doi.org/10.1002/adfm.202522071)
4. C. Magalhaes, A. I. Ribeiro, R. Rodrigues, A. Meireles, A. C. Alves, J. Rocha, F. Pedroso de Lima, M. Martins, B. Mitu, V. Satulu, G.Dinescu, J. Padrao, A. Zille DBD plasma-treated polyester fabric coated with doped PEDOT:PSS for thermoregulation Applied Surface Science 686 (2025) 162152; <https://doi.org/10.1016/j.apsusc.2024.162152>
5. L. I. Kravets, M. A. Yarmolenko, A. B. Gilman, V. Satulu, B. Mitu, and G. Dinescu, Composite Membranes for Water Desalination, Inorganic Materials: Applied Research, 2025, Vol. 16, No. 2, pp. 349–357. © Pleiades Publishing, Ltd., 2025
6. C. Constantin, M. Bazavan, C. Stancu, B. Mitu, G. Dinescu. Impact of Molecular Reactive Gas Injection on Species Emitted at the Exit of a Tubular Atmospheric Pressure Plasma Jet Source, Appl. Sci. 2025, 15(24), 13042; <https://doi.org/10.3390/app152413042>

2024

7. G. Dinescu, C. Craciun, S.D. Stoica, C. Constantin, B. Mitu, T. Acsente Tungsten Molecular Species in Deuterium Plasmas in Contact with Sputtered W Surfaces Molecules 2024, 29, 3539. <https://doi.org/10.3390/molecules29153539>
8. T. Acsente, E. Matei, V. Marascu, A. Bonciu, V. Satulu, G. Dinescu Deposition of W Nanoparticles by Magnetron Sputtering Gas Aggregation Using Different Amounts of H₂/Ar and Air Leaks Coatings 2024, 14, 964. <https://doi.org/10.3390/coatings14080964>
9. T. Acsente, S.D. Stoica, C. Craciun, B. Mitu, G. Dinescu, Enhancement of W Nanoparticles Synthesis by Injecting H₂ in a Magnetron Sputtering Gas Aggregation Cluster Source Operated in Ar, Plasma Chemistry and Plasma Processing, 2024, <https://doi.org/10.1007/s11090-024-10499-z>
10. S.D. Stoica, C. Craciun, T. Acsente, B. Mitu, G. Dinescu Evidence for molecular tungsten ionic species presence in impurity-seeded hydrogen plasma in contact with W surfaces, Plasma Processes and Polymers (2024) e2300227; <https://doi.org/10.1002/ppap.202300227>
11. V. Satulu, A.M. Pandele, G.I. Ionica, L. Bobirică, A.F. Bonciu, A. Scarlatescu, C. Bobirică, C. Orbeci, S.I. Voicu, B. Mitu, G. Dinescu Robust CA-GO-TiO₂/PTFE Photocatalytic Membranes for the Degradation of the Azithromycin Formulation from Wastewaters Polymers 2024, 16, 10(2024) 1368; <https://doi.org/10.3390/polym16101368>

2023

12. L.G. Coman, M. Marcu, T. Acsente, S. Vizireanu, V. Satulu, G. Dinescu, E. Matei, T. Spataru, N. Spataru, L. Preda Hybrid nanostructures based on vertically graphenes decorated with tungsten oxide nanoparticles for enhanced capacitive performance Diamond and Related Materials 139 (2023)110316, DOI: 10.1016/j.diamond.2023.110316
13. C. Craciun; S.D. Stoica; B. Mitu; T. Acsente; G. Dinescu, Mass spectra fitting as diagnostic tool for magnetron plasmas generated in Ar and Ar/H gases with tungsten targets, Molecules (2023) 28 5664
14. M.A. Gentoiu, R.G. Gutierrez, J.J.A. Pulido, J.M. Peraza, M. Volmer, S. Vizireanu, S. Antohe, G. Dinescu, R.A. Rodrigues-Carval Correlating Disorder Microstructure and Magnetotransport of Carbon Nanowalls, Applied Sciences – Basel, 13, 4 (2023) 2476; DOI10.3390/app13042476;
15. V. Marascu, C. Stancu, T. Acsente, A. Bonciu, C. Constantin, G. Dinescu Low-Temperature H-2/D-2 Plasma-W Material Interaction and W Dust Production for Fusion-Related Studies, Coatings 13, 3 (2023)

16. L.G. Carpen, M.A. Acasandrei, T. Acsente, E. Matei, I. Lungu, G. Dinescu In vitro analysis of the cytotoxic effect of two different sizes ITER-like tungsten nanoparticles on human dermal fibroblasts, *Heliyon* 9, 3 (2023)e13849; DOI10.1016/j.heliyon.2023.e13849

2022

17. S.A. Yehia, L.C. Carpen, F. Stokker-Cheregi, C. Porosnicu, V. Satulu, C. Staicu, B. Butoi, I. Lungu, F. Virot, C. Grisolia, G. Dinescu, Laser ablation of a solid target in liquid medium for beryllium nanoparticles synthesis, *Nuclear Materials and Energy* 31 (2022)101160;
18. A.E. Balan, B.I. Bită, S. Vizireanu, G. Dinescu, I. Stamatina, A.M.I. Trefilov Carbon-Nanowall Microporous Layers for Proton Exchange Fuel Cells, *Membranes* 12 (11) (2022) 1064
19. LI Kravets, VA Altynov, MA Yarmolenko, RV Gainutdinov, V Satulu, B Mitu, G. Dinescu. Deposition of Hydrophobic Polymer Coatings on the Surface of Track-Etched Membranes from an Active Gas Phase, *Membranes and Membrane Technologies* 4 (2) (2022)133-143
20. S.A. Yehia, N.Petrea, N. Grigoriu, S. Vizireanu, M.E.Zarif, L.G. Carpen, R.E. Ginghina, G. Dinescu, Organophosphorus toxic compounds degradation in aqueous solutions using single filament dielectric barrier discharge plasma jet source, *Journal of Water Process Engineering* 46 (2022) 102637
21. V. Satulu, V. Dinca, M. Bacalum, C. Mustaciosu, B. Mitu, G. Dinescu, Chemistry-Induced Effects on Cell Behavior upon Plasma Treatment of pNIPAAm, *Polymers* 14 (6) (2022) 1081
22. M. Marcu, L. Preda, S. Vizireanu, B. Bită, MA Mihai, T. Spataru, T. Acsente, G. Dinescu, N. Spataru, Enhancement of the capacitive features of WO₃ supported on pristine and functionalized graphite by appropriate adjustment of the electrodeposition regime, *Materials Science and Engineering B* 2777(2022)115585

2021

23. L. G. Carpen, T. Acsente, V. Sățulu, E. Matei, S. Vizireanu, B. Biță, G. Dinescu (2021) - Hybrid Nanostructures Obtained by Transport and Condensation of Tungsten Oxide Vapours onto CNW Templates- *Nanomaterials* 11(4), 835; DOI: <https://doi.org/10.3390/nano11040835>
24. Danes CA, Dumitriu C, Vizireanu S, Bită B, Nicola IM, Dinescu G, Parvu C; "Influence of Carbon Nanowalls on Copper Deposition for Electrostatic Conductive Coatings"; *COATINGS* 11(11)1395 (2021)
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