



FIȘA DE EVALUARE GENERALĂ A STANDARDELOR UNIVERSITĂȚII

CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE
I. ACTIVITATEA DE CERCETARE (70%)	1. Articole științifice publicate <i>in extenso</i> în reviste cotate <i>Web of Science</i> cu factor de impact: 2	(60 puncte x factor de impact + 25) / număr autori
	1.1 Nica, P., <u>Rusu, G. B.</u>, Dragos, O., Ursu, C., <i>Effect of Excimer Laser Beam Spot Size on Carbon Laser-Produced Plasma Dynamics</i>, IEEE TRANSACTIONS ON PLASMA SCIENCE, VOL. 42, NO. 10, OCTOBER 2014 (IF: 0.95)	20.5
	1.2. <u>Bogdan-George Rusu, Frederique Cunin, Mihail Barboiu</u>, "The color of selfassembly- Real-time optical detection of stabilized artificial G-quadruplexes under confined conditions", <i>Angewandte Chemie International Edition</i>, Volume 52, Issue 48, pages 12597–12601, November 25, 2013 (IF: 11.336)	235.053
	1.3. <u>G. B. Rusu, M. Asandulesa, I. Topala, V. Pohoata, N. Dumitrascu, M. Barboiu</u>, "Atmospheric pressure plasma polymers for tuned QCM detection of protein adhesion" <i>Biosensors and Bioelectronics</i> Volume 53, 15 March 2014, Pages 154-159 (IF: 6.451.)	68.676
	1.4. <u>Alina Silvia Chiper, Rusu Bogdan George, Gheorghe Popa</u>, "Influence of the dielectric Surface nonhomogeneities on the dynamic of the pulsed DBD plasma" <i>IEEE Transactions on Plasma Science</i>, Vol. 39, No. 11, Novembre 2011 (IF: 0.95)	27.333
	1.5 A. S. Chiper, <u>G. B. Rusu, C.</u>	

CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE
	<p>Vitelaru, I. Mihaila, G. Popa, A comparative study of helium and argon DBD plasmas suitable for thermosensitive materials processing, Rom. Journ. Phys., Vol. 56, Supplement, P. 126–131, 2011 (IF: 0.745)</p> <p>1.6. Schrittwieser R., Ionita C., Murawski A., Maszl C., Asandulesa M., Nastuta A., Rusu G., Douat C., Olenici S. B., Vojvodic I., Dobromir M., Luca D., Jaksch S., Scheier P., Cavity-hollow cathode-sputtering source for titanium films. Journal of Plasma Physics, 76(3-4):655--664; IAN 2010 (IF: 0.755)</p> <p>1.7. A.S. Chiper, A.V. Nastuta, G.B. Rusu, G. Popa, ‘On surface elementary processes and polymer surface modifications induced by double pulsed dielectric barrier discharge’, Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms, Vol. 267, Is. 2, p. 313-316, (2009) (IF: 1.266)</p> <p>1.8. A. Anghel, C. Porosnicu, M. Badulescu, I. Mustata, C.P. Lungu, K. Sugiyama, S. Lindig, K. Krieger, J. Roth, A. Nastuta, G. Rusu, G. Popa, ‘Surface morphology influence on deuterium retention in beryllium films prepared by thermionic vacuum arc method’, Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms, Volume 267, Issue 2, Pages 426-429, (2009) (IF: 1.266)</p> <p>1.9. A. S. Chiper, G. B. Rusu, A. V. Nastuta and G. Popa, ‘On the discharge parameters of a glow mode DBD at medium and atmospheric pressure’, IEEE TRANSACTIONS ON PLASMA SCIENCE, VOL. 37, NO. 10, OCTOBER 2009 (IF: 0.95)</p> <p>1.10. V. Tiron, C. Andrei, A. V. Nastuta, G. B. Rusu, C. Vitelaru and G. Popa, Carbon and Tungsten Sputtering in</p>	<p>13.94</p> <p>5.021</p> <p>25.24</p> <p>8.413</p> <p>20.5</p> <p>13.666</p>

CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE
	<p><i>a Helium Magnetron Discharge</i>, IEEE TRANSACTIONS ON PLASMA SCIENCE, VOL. 37, NO. 8, AUGUST 2009 (IF: 0.95)</p> <p>1.11. N. Iftimie, M. Crisan, A. Braileanu, D. Crisan, A. Nastuta, <u>G. B. Rusu</u>, P.D. Popa, D. Mardare, ‘<i>On the sensing gas properties of titanium dioxide films</i>’, JOAM, Vol .10 , Is. 9, p. 2363-2366, (2008); (IF: 0.516)</p> <p>1.12. A. S. Chiper, A. V. Nastuta, <u>G. B. Rusu</u>, V. Pohoata, R. Cazan, G. Popa, ‘<i>Optical diagnosis of double discharges in pulsed DBD with different barrier materials</i>’, JOAM, Vol. 10, Is. 8, p. 1976-1980, (2008) (IF: 0.516)</p> <p>1.13. A.V. Nastuta, <u>G.B. Rusu</u>, I. Topala, A.S. Chiper, G. Popa, ‘<i>Surface modifications of polymer induced by atmospheric DBD plasma in different configurations</i>’, JOAM, Vol. 10, Is. 8, p. 2038-2042, (2008) (IF: 0.516)</p> <p>1.14. C. DANȚUȘ, <u>G.B. RUSU</u>, G.G. RUSU, P. GORLEY ,<i>On the structural characteristics of thermally oxidizedCdO thin films</i>’, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, Vol. 10, No. 11, November 2008, p. 2988 – 2992 (IF: 0.516)</p> <p>1.15. Ana Garlea, Viorel Melning, M. I. Popa, <u>G Rusu</u>., <i>Entrapment of Tannic Acid in Chitosan Based Nanostructure Matrices</i>, MATERIALE PLASTICE, Volume 45, Issue 3, pag: 193-197, 2008 (IF: 0.387)</p> <p>1.16. A. S. Chiper, A. Nastuta, <u>G. Rusu</u>, G. Popa, ‘<i>Electrical characterisation of a double DBD in He at atmospheric pressure used for surface treatments</i>’, JOAM, Vol. 9, Is. 9, p. 2926-2931, (2007) (IF: 0.516)</p>	<p>6.995</p> <p>9.326</p> <p>11.192</p> <p>13.99</p> <p>12.055</p> <p>13.99</p>
	2. Articole științifice publicate in	20 puncte / număr

CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE
	<i>extenso</i> în reviste indexate <i>Web of Science</i> fără factor de impact: 0	autori
	1.1. M. Asandulesa, G. Rusu, I. Topala, V. Pohoata, M. Dobromir, N. Dumitrascu, <i>Poly (ethylene glycol-co-styrene) films deposited by plasma polymerization reactions at atmospheric pressure</i>, The Open Plasma Physics Journal 6 (2013) 14-18.	5
	3. Articole științifice publicate <i>in extenso</i> în reviste indexate BDI: 0	15 puncte / număr autori
	4. Articole științifice publicate <i>in extenso</i> în volumele conferințelor	indexate ISI: 30 puncte / număr autori
		indexate în BDI: 15 puncte / număr autori
		alte categorii: 5 puncte / număr autori
	4.1 G.B. Rusu, C. Luca, E. Falos, R. Schrittwieser „Polystyrene-TiO₂ thin films produced in a hollow cathode” 39th EPS Conference & 16th Int. Congress on Plasma Physics Stockholm, Sweden, 2-6 July 2012	1.25
	4.2 Mihai Asandulesa, Ionut Topala, Marian Totolin, George Rusu, Valentin Pohoata, Nicoleta Dumitrascu, „Functionalization of AFM tips by atmospheric pressure plasma polymerization”, 20th International Symposium on Plasma Chemistry – Philadelphia, USA. July 24 - 29, 2011.	0.833
	4.3 Roxana Jijie, Ionut Topala, Bogdan George Rusu, Marius Dobromir, Valentin Pohoata, Nicoleta Dumitrascu, <i>Atmospheric pressure plasma treatments of protein films and powders</i>, 10th International Conference on Global Research and Education (interAcademia), Sucevita, Romania, 2011	0.833
	5. Cărți științifice publicate (doar prima ediție)	edituri academice internaționale: 100 puncte la 100 pagini / număr autori
		alte edituri internaționale: 70 puncte la 100 pagini / număr autori

CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE
		edituri academice naționale: 50 puncte la 100 pagini / număr autori
		alte edituri naționale: 20 puncte la 100 pagini / număr autori
	6. Cărți științifice traduse și publicate în edituri din străinătate	100 puncte la 100 pagini / număr autori
	7. Coordonarea și editarea de volume, traduceri și antologii	edituri academice internaționale: 60 puncte / număr autori
		alte edituri internaționale: 40 puncte / număr autori
		edituri academice naționale: 30 puncte / număr autori
		alte edituri naționale: 15 puncte / număr autori
	8. Articole publicate în dicționare și enciclopedii	edituri academice internaționale: 30 puncte / număr autori
		alte edituri internaționale: 20 puncte / număr autori
		edituri academice naționale: 15 puncte / număr autori
		alte edituri naționale: 5 puncte / număr autori
	9. Contracte de cercetare științifică în instituții academice (universități, institute ale Academiei Române, institute naționale de cercetare, institute de cercetare din străinătate, alte categorii de institute academice)	contracte internaționale – director: 100 puncte pentru fiecare 100.000 Euro
		contracte internaționale – membru: 100 puncte pentru fiecare 100.000 Euro / numărul membrilor echipei de cercetare
		contracte naționale – director: 50 puncte pentru fiecare 500.000 lei
		contracte naționale – membru: 50 puncte pentru fiecare 500.000 lei / numărul membrilor echipei de cercetare
	9.1. PNCDI2-PARTENERIATE, no. 72225/2008, „Spectroscopic methods for control of atmospheric pressure plasma	

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	<p>processing of thermo-sensitive materials”, acronim PLASMOS, coordonator Dr. Acseente Tomy, Institutul National de Cercetare Dezvoltare pentru Fizica Laserilor, Plasmei si Radiatiei, perioada derularii 2008-2011, valoare contractata 2000000 lei; beneficiar Universitatea „Al. I. Cuza”</p> <p>9.2 ROEcoPlas - Noi tehnologii ecologice bazate pe utilizarea plamei obtinute prin descarcari electrice de tip eced; coordonator proiect Prof. dr. Gheorghe Popa, beneficiar Universitatea „Al. I. Cuza”; beneficiar beneficiar Universitatea „Al. I. Cuza” , perioada derularii 2005-2008, finantare 500000 euro,</p> <p>9.3. CNCSIS grant, type AT, code: 159/2007, Title: Study of secondary discharge mechanism in the pulsed DBD system at atmospheric pressure; research projects won by competition in 2007, funding institution: Ministry of Education and Research, amount granted: 160 000 RON</p> <p>9.4. Grant CNCSIS, Tip A, No. 1422/2007: „Experimental studies and numerical simulation concerning correlation between plasma volume properties and those of the surface in pulsed magnetron discharge in the range of medium power density”, period: 2007-2008, Funding institution: CNCSIS, project coordinator: Prof. Dr. Gheorghe POPA, “Al. I. Cuza” University valoare contractata 2056000 lei</p> <p>9.5. “Join Physicist in Festival (My Physics, My World)”, FP7-PEOPLE, 244978/2009, 2009; Coordonator UAIC Gurlui Silviu; beneficiar beneficiar Universitatea „Al. I. Cuza” , perioada derularii 2009</p>	<p style="text-align: center;">20</p> <p style="text-align: center;">20</p> <p style="text-align: center;">15</p> <p style="text-align: center;">20</p> <p style="text-align: center;">20</p>
	<p>10. Contracte de cercetare în mediul de afaceri și sectorul public</p>	<p style="text-align: center;">organizații internaționale: 100 puncte pentru fiecare 100.000 Euro</p> <p style="text-align: center;">firme multinaționale: 100 puncte pentru fiecare 100.000 Euro</p> <p style="text-align: center;">firme naționale: 50</p>

CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE	
		puncte pentru fiecare 500.000 Euro	
		organizații administrative naționale: 40 puncte pentru fiecare 500.000 Euro	
		alte organizații publice de nivel național: 30 puncte pentru fiecare 500.000 Euro	
	11. Brevete	internaționale: 100 puncte / număr de autori	
		naționale: 30 puncte / număr autori	
	12. Citări și recenzii ale lucrărilor științifice	reviste de specialitate din străinătate: (10 + 20 x factor de impact) / număr autori, pentru fiecare citare	
		reviste de specialitate din țară: (5 + 10 x factor de impact) / număr autori, pentru fiecare citare	
		monografii academice din străinătate: 50 puncte / număr autori, pentru fiecare citare	
		monografii academice din țară: 25 puncte / număr autori, pentru fiecare citare	
		L1. A. S. Chiper, G. B. Rusu, A. V. Nastuta and G. Popa, 'On the discharge parameters of a glow mode DBD at medium and atmospheric pressure', IEEE TRANSACTIONS ON PLASMA SCIENCE, VOL. 37, NO. 10, OCTOBER 2009 citata de: 3 ori	
		C1. He, Jin; Zhang, Yuantao T., „Modeling Study on the Generation of Reactive Oxygen Species in Atmospheric Radio-Frequency Helium-Oxygen Discharges”, PLASMA PROCESSES AND POLYMERS Volume: 9 Issue: 9 Pages: 919-928 DOI: 10.1002/ppap.201200067 Published: SEP 2012.	28.2
		C2. Shao, Tao; Zhang, Dongdong; Yu, Yang; et al., „A Compact Repetitive Unipolar Nanosecond-Pulse Generator	9.66

CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE
	<p>for Dielectric Barrier Discharge Application”, IEEE TRANSACTIONS ON PLASMA SCIENCE Volume: 38 Issue: 7 Pages: 1651-1655 DOI: 10.1109/TPS.2010.2048724 Published: JUL 2010</p> <p>C3. Zhang, Cheng; Shao, Tao; Long, Kaihua; et al. „Surface Treatment of Polyethylene Terephthalate Films Using DBD Excited by Repetitive Unipolar Nanosecond Pulses in Air at Atmospheric Pressure” IEEE TRANSACTIONS ON PLASMA SCIENCE Volume: 38 Issue: 6 Pages: 1517-1526 DOI: 10.1109/TPS.2010.2045660 Part: 2 Published: JUN 2010</p> <p>L2. A. S. Chiper, G. B. Rusu, C. Vitelaru, I. Mihaila, G. Popa, A comparative study of helium and argon DBD plasmas suitable for thermosensitive materials processing, Rom. Journ. Phys., Vol. 56, Supplement, P. 126–131, 2011 citata de: 1</p> <p>C4. Das, Tomi Nath; Dey, G. R., „Methane from benzene in argon dielectric barrier discharge”, JOURNAL OF HAZARDOUS MATERIALS Volume: 248 Pages: 469-477 DOI: 10.1016/j.jhazmat.2013.01.028 Published: MAR 15 2013</p> <p>L3. V. Tiron, C. Andrei, A. V. Nastuta, G. B. Rusu, C. Vitelaru and G. Popa, Carbon and Tungsten Sputtering in a Helium Magnetron Discharge, IEEE TRANSACTIONS ON PLASMA SCIENCE, VOL. 37, NO. 8, AUGUST 2009 citata de: 1</p> <p>C5. Lungu, C. P.; Marcu, A.; Porosnicu, C.; et al., „Carbon-Tungsten Thin-Film Deposition by a Dual Thermionic Vacuum Arc”, IEEE TRANSACTIONS ON PLASMA SCIENCE Volume: 40 Issue: 12 Pages: 3546-3551 DOI: 10.1109/TPS.2012.2218621 Part: 3 Published: DEC 2012.</p>	<p style="text-align: center;">9.66</p> <p style="text-align: center;">56.23</p> <p style="text-align: center;">4.83</p>

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	<p>L4. A.S. Chiper, A.V. Nastuta, G.B. Rusu, G. Popa, 'On surface elementary processes and polymer surface modifications induced by double pulsed dielectric barrier discharge' , Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms, Vol. 267, Is. 2, p. 313-316, (2009) citata de: 7</p> <p>C6. Taghvaei, Hamed; Shirazi, Meisam Mohamadzadeh; Hooshmand, Navid; et al., „Experimental investigation of hydrogen production through heavy naphtha cracking in pulsed DBD reactor”, APPLIED ENERGY Volume: 98 Pages: 3-10 DOI: 10.1016/j.apenergy.2012.02.005 Published: OCT 2012.</p> <p>C7. Fang, Zhi; Liu, Yuan; Liu, Kun; et al., „Plume Surface modifications of polymethylmetacrylate films using atmospheric pressure air dielectric barrier discharge plasma”, VACUUM Volume: 86 Issue: 9 Special Issue: SI Pages: 1305-1312 DOI: 10.1016/j.vacuum.2011.11.021 Published: MAR 14 2012</p> <p>C8. Shao Tao; Zhang Cheng; Niu Zheng; et al., „Nanosecond Repetitively Pulsed Dielectric Barrier Discharge in Air at Atmospheric Pressure”, PLASMA SCIENCE & TECHNOLOGY Volume: 13 Issue: 5 Pages: 591-595 DOI: 10.1088/1009-0630/13/5/15 Published: OCT 2011</p> <p>C9. Shao, Tao; Zhang, Cheng; Long, Kaihua; et al., „Surface modification of polyimide films using unipolar nanosecond-pulse DBD in atmospheric air”, APPLIED SURFACE SCIENCE Volume: 256 Issue: 12 Pages: 3888-3894 DOI:10.1016/j.apsusc.2010.01.045 Published: APR 1 2010</p> <p>C10. Asandulesa, Mihai; Topala, Ionut; Dumitrascu, Nicoleta, „Effect of helium DBD plasma treatment on the surface of wood</p>	<p>24.38</p> <p>7.64</p> <p>12.06</p> <p>11.87</p> <p>19.46</p>

CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE
	<p>samples”, HOLFORSCHUNG Volume: 64 Issue: 2 Pages: 223-227 DOI: 10.1515/HF.2010.025 Published: FEB 2010</p> <p>C11. Homola, Tomas; Wu, Linda Y. L.; Cernak, Mirko "Atmospheric Plasma Surface Activation of Poly(Ethylene Terephthalate) Film for Roll-To-Roll Application of Transparent Conductive Coating" JOURNAL OF ADHESION Volume: 90 Issue: 4 Pages: 296-309 Published: APR 3 2014</p> <p>C12. Chiper, A.; Borcia, G. "Argon Versus Helium Dielectric Barrier Discharge for Surface Modification of Polypropylene and Poly(methyl methacrylate) Films" PLASMA CHEMISTRY AND PLASMA PROCESSING Volume: 33 Issue: 3 Pages: 553-568 Published: JUN 2013</p> <p>L5. A. S. Chiper, A. V. Nastuta, G. B. Rusu, V. Pohoata, R. Cazan, G. Popa, 'Optical diagnosis of double discharges in pulsed DBD with different barrier materials', JOAM, Vol. 10, Is. 8, p. 1976-1980, (2008) citata de:</p> <p>C13. De Geyter, N., „Influence of dielectric barrier discharge atmosphere on polylactic acid (PLA) surface modification”, SURFACE & COATINGS TECHNOLOGY Volume: 214 Pages: 69-76 DOI:10.1016/j.surfcoat.2012.11.004 Published: JAN 15 2013</p> <p>C14. Nastuta, Andrei Vasile; Topala, Ionut; Grigoras, Constantin; et al. "Stimulation of wound healing by helium atmospheric pressure plasma treatment" JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 44 Issue: 10 Article Number: 105204 Published: MAR 16 2011</p> <p>L6. A.V. Nastuta, G.B. Rusu, I. Topala, A.S. Chiper, G. Popa, 'Surface modifications of polymer induced by atmospheric DBD plasma in different configurations', JOAM, Vol. 10, Is. 8, p. 2038-2042, (2008) citata de:</p>	<p>21.57</p> <p>20.99</p> <p>59.06</p> <p>12.08</p>

CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE
	<p>C15. Matei, A.; Schou, J.; Canulescu, S.; et al., „Functionalized ormosil scaffolds processed by direct laser polymerization for application in tissue engineering”, APPLIED SURFACE SCIENCE Volume: 278 Pages: 357-361 DOI: 10.1016/j.apsusc.2012.10.104 Published: AUG 1 2013</p> <p>C16. Peng, Xinyan; Ding, Enyong; Xue, Feng, „In situ synthesis of TiO₂/polyethylene terephthalate hybrid nanocomposites at low temperature”, APPLIED SURFACE SCIENCE Volume: 258 Issue: 17 Pages: 6564-6570 DOI:10.1016/j.apsusc.2012.03.077 Published: JUN 15 2012</p> <p>C17. Simon, A.; Dinu, O. E.; Papiu, M. A.; et al., A study of 1.74 MHz atmospheric pressure dielectric barrier discharge for non-conventional treatments, JOURNAL OF ELECTROSTATICS Volume: 70 Issue: 3 Pages: 235-240 DOI:10.1016/j.elstat.2012.03.001 Published: JUN 2012.</p> <p>C18. Anghel, S. D., Generation and investigation of a parallel-plate DBD driven at 1.6 MHz with flowing helium, JOURNAL OF ELECTROSTATICS Volume: 69 Issue: 3 Pages: 261-264 DOI: 10.1016/j.elstat.2011.04.003 Published: JUN 2011</p> <p>C19. Muranyi, P.; Wunderlich, J.; Langowski, H. -C., Modification of bacterial structures by a low-temperature gas plasma and influence on packaging material, JOURNAL OF APPLIED MICROBIOLOGY Volume: 109 Issue: 6 Pages: 1875-1885 DOI: 10.1111/j.1365-2672.2010.04815.x Published: DEC 2010</p> <p>C20. Rogojanu, A.; Rusu, E.; Dorohoi, D. O., Characterization of Structural Modifications Induced on Poly(Vinyl Alcohol) Surface by</p>	<p>11.87</p> <p>19.79</p> <p>7.82</p> <p>39.14</p> <p>19.24</p> <p>11.53</p>

CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE
	<p>Atmospheric Pressure Plasma, INTERNATIONAL JOURNAL OF POLYMER ANALYSIS AND CHARACTERIZATION Volume: 15 Issue: 4 Pages: 210-221 Article Number: PII 922224360 DOI: 10.1080/10236661003743774 Published: 2010</p> <p>L7. N. Iftimie, M. Crisan, A. Braileanu, D. Crisan, A. Nastuta, G. B. Rusu, P.D. Popa, D. Mardare, 'On the sensing gas properties of titanium dioxide films', JOAM, Vol .10 , Is. 9, p. 2363-2366, (2008)</p> <p>C21. Sahoo, Madhusmita; Mathews, Tom; Antony, Rajini P.; et al. "Physico-chemical Processes and Kinetics of Sunlight-Induced Hydrophobic - Superhydrophilic Switching of Transparent N-Doped TiO₂ Thin Films" ACS APPLIED MATERIALS & INTERFACES Volume: 5 Issue: 9 Pages: 3967-3974 Published: MAY 8 2013</p> <p>C22 Pal, Kaushik; Majumder, Tapas Pal; Neogy, Chirantan; et al."Optical, dielectric and microscopic observation of different phases TiO₂ metal host nanowires" JOURNAL OF MOLECULAR STRUCTURE Volume: 1016 Pages: 30-38 Published: MAY 30 2012</p> <p>C23 Mardare, Diana; Nica, Valentin; Pohoata, Valentin; et al "X-ray absorption fine structure investigations on heat-treated Cr-doped titania thin films" Conference: Symposium on Transparent Conductive Materials (TCM) Location: Hersonissos, GREECE Date: OCT 17-21, 2010 THIN SOLID FILMS Volume: 520 Issue: 4 Pages: 1348-1352 Published: DEC 1 2011</p> <p>C24 Mardare, Diana; Iftimie, Nicoleta; Crisan, Maria; et al."Electrical conduction mechanism and gas sensing properties of Pd-doped TiO₂ films" JOURNAL OF NON-CRYSTALLINE SOLIDS Volume: 357 Issue: 7</p>	<p>25.6</p> <p>8.34</p> <p>10.15</p> <p>8.54</p>

CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE
	<p>Pages: 1774-1779 Published: APR 1 2011</p> <p>C25 Borrás, Ana; González-Elipé, Agustín R. "Wetting Properties of Polycrystalline TiO₂ Surfaces: A Scaling Approach to the Roughness Factors" LANGMUIR Volume: 26 Issue: 20 Pages: 15875-15882 Published: OCT 19 2010</p> <p>C26 Mardare, Diana; Iacomi, Felicia; Cornei, Nicoleta; et al."Undoped and Cr-doped TiO₂ thin films obtained by spray pyrolysis" Conference: Symposium on Synthesis, Processing and Characterization of Nanoscale Multi Functional Oxide Films II held at the 2009 Spring EMRS Meeting Location: Strasbourg, FRANCE Date: JUN 08-12, 2009 Sponsor(s): European Mat Res Soc THIN SOLID FILMS Volume: 518 Issue: 16 Special Issue: SI Pages: 4586-4589 Published: JUN 1 2010</p> <p>L7. Schrittwieser R., Ionita C., Murawski A., Maszl C., Asandulesa M., Nastuta A., Rusu G., Douat C., Olenici S. B., Vojvodic I., Dobromir M., Luca D., Jaksch S., Scheier P., Cavity-hollow cathode-sputtering source for titanium films. Journal of Plasma Physics, 76(3-4):655--664; IAN 2010</p> <p>C27 Kluson, J.; Kudrna, P.; Tichy, M."Measurement of the plasma and neutral gas flow velocities in a low-pressure hollow-cathode plasma jet sputtering system" PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 22 Issue: 1 Article Number: 015020 Published: FEB 2013</p> <p>C28 Niedrist, Raimund; Schrittwieser, Roman "Detached Glow Above a Titanium Hollow Cathode Sputter Source" IEEE TRANSACTIONS ON PLASMA SCIENCE Volume: 39 Issue: 11 Special Issue: SI Pages: 2568-2569 Part: 1 Published: NOV 2011</p> <p>L8. Rusu, B.G., Cunin, F., Barboiu, M,</p>	<p>45.09</p> <p>10.15</p> <p>20.1</p> <p>13.7</p>

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	<p>Real-time optical detection of stabilized artificial G-quadruplexes under confined conditions. Angewandte Chemie - International Edition Volume 52, Issue 48, 25 November 2013, Pages 12597-12601</p> <p>C29 Abet, V. , Evans, R. , Guibbal, F." Modular construction of dynamic nucleodendrimers" Angewandte Chemie - International Edition 53 (19), pp. 4862-4866</p> <p>C30 Marin, L., Moraru, S., Popescu, M.-C., Nicolescu, A., Zgardan, C., Simionescu, B.C., Barboiu, M. " Out-of-water constitutional self-organization of chitosan-cinnamaldehyde dynagels" Chemistry - A European Journal Volume 20, Issue 16, 14 April 2014, Pages 4814-4821</p>	<p>78.90</p> <p>17.70</p>
	13. Lucrări susținute în calitate de invitat la manifestări științifice (conferințe, congrese, simpozioane, seminarii și ateliere de lucru)	<p>străinătate: 25 puncte pentru fiecare activitate</p> <p>țară: 10 puncte pentru fiecare activitate</p>
	13.1. Rusu, B.G., Cunin, F., Barboiu, M, Real-time optical detection of stabilized artificial G-quadruplexes under confined conditions. 2014 MRS Spring Meeting, April 21-25, San Francisco, California	25
	14. Profesor/cercetător invitat la universități/institute de cercetare	<p>străinătate: 25 puncte pentru fiecare activitate</p> <p>țară: 10 puncte pentru fiecare activitate</p>
	15. Editor/Membru în <i>Editorial Board & Advisory Board</i>	<p>reviste cotate <i>Web of Science</i>: editor, 30 puncte pentru fiecare revistă; membru, 20 puncte pentru fiecare revistă</p> <p>reviste internaționale și alte reviste ale Universității: editor, 15 puncte pentru fiecare revistă; membru, 10 puncte pentru fiecare revistă</p>
	16. Premii internaționale obținute printr-un proces de selecție	100 puncte / categorie / număr persoane
	17. Premii ale Academiei Române	50 puncte / categorie / număr persoane
	18. Alte premii naționale ale instituțiilor culturale	20 puncte / categorie / număr persoane
	19. Participări la manifestări științifice	internaționale:

CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE
		președinte comitet organizare/consiliu științific, 25 puncte pentru fiecare activitate; membru comitet organizare/consiliu științific, 15 puncte pentru fiecare activitate; moderator de panel, 15 puncte pentru fiecare activitate; raportor pe secțiuni/paneluri, 10 puncte pentru fiecare activitate
	<p>19.1 Roxana Jijie, Ionut Topala, <u>George Rusu</u>, Marius Dobromir, Valentin Pohoata, Nicoleta Dumitrascu, <i>Atmospheric pressure plasma treatments of protein films and powders</i>, 10th International Conference on Global Research and Education (inter-Academia), 26 - 29 September 2011, Sucevița, România (poster: P 3.5)</p> <p>19.2 Roxana Jijie, <u>George Bogdan Rusu</u>, Ionut Topala, Valentin Pohoata and Nicoleta Dumitrascu, <i>Study of protein aggregation and enzymatic activity after exposure to dielectric barrier plasma jet in helium</i>, 4th International Conference on Plasma Medicine, 17 - 21 June 2012, Orléans, France (poster: P118)</p> <p>19.3 Ionut Topala, Roxana Jijie, <u>George Bogdan Rusu</u>, Valentin Pohoata and Nicoleta Dumitrascu, <i>Structure – function relationships in the case of plasma modified proteins</i>, XXI Europhysics Conference on Atomic and Molecular Physics of Ionized Gases (ESCAMPIG), 10 – 14 July 2012, Viana do Castelo, Portugal (poster)</p> <p>19.4 Roxana Jijie, Lavinia Curecheriu, <u>George Rusu</u>, Marius Dobromir, Valentin Pohoata, Ionut Topala, Rabah Boukherroub, Nicoleta Dumitrascu, <i>Deposition and characterization of plasma (co)polymerized films at the interface with biological medium</i>, High-Tech Plasma Processes, 22-27 June 2014, Toulouse,</p>	<p style="text-align: center;">10</p> <p style="text-align: center;">10</p> <p style="text-align: center;">10</p> <p style="text-align: center;">10</p>

CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE
	<p>France (poster: PS1-19)</p> <p>19.5 Roxana Jijie, Lavinia Curecheriu, <u>George Rusu</u>, Valentin Pohoata, Ionut Topala, Rabah Boukherroub, Nicoleta Dumitrascu, <i>Copolymerization of ethylene glycol with styrene: synthesis, characterization and stability in biological media</i>, JNRDM, 26-28 May 2014, Lille, France (poster: P23)</p> <p>19.6 M. Asandulesa, I. Topala, M. Totolin, <u>G. Rusu</u>, V. Pohoata, N. Dumitrascu, „FUNCTIONALIZATION OF AFM TIPS BY ATMOSPHERIC PRESSURE PLASMA POLYMERIZATION”, 20th International Symposium on Plasma Chemistry – Philadelphia, USA. July 24 - 29, 2011</p> <p>19.7 M. Asandulesa, <u>G. Rusu</u>, I. Topala, V. Pohoata, M. Dobromir, N. Dumitrasc, SYNTHESIS OF FUNCTIONAL POLYSTYRENE-TYPE FILMS IN ATMOSPHERIC PRESSURE DIELECTRIC BARRIER DISCHARGE 6th International Workshop & Summer School on Plasma Physics, Kiten, Bulgaria, 2010</p> <p>19.8 <u>G.B. Rusu</u>, C. Luca, E. Falos, R. Schrittwieser, Polystyrene-TiO₂ thin films produced in a hollow cathode, 39th European Physical Society Conference on Plasma Physics, Stockholm, Sweden, 2-6 July 2012</p> <p>19.9 A.S. Chiper, C. Vitelaru, I. Mihaila, <u>G.B. Rusu</u>, G. Popa, A comparative study of a He and an Ar DBD plasmas suitable for use in thermosensitive materials processing, XVth International Conference on Plasma Physics and Applications (CPPA), Iasi, Romania, 2010</p> <p>19.10 <u>G.B. Rusu</u>, I. Topala, M. Dobromir, V. Pohoata, N. Dumitrascu, Synthesis of PEG in plasma at</p>	<p>10</p> <p>10</p> <p>10</p> <p>10</p> <p>10</p>

CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE
	<p>atmospheric pressure, XVth International Conference on Plasma Physics and Applications (CPPA), Iasi, Romania, 2010</p> <p>19.11 <u>G.B. Rusu</u>, D. Spridon. I. Topala, N. Dumitrascu, Characterization of PEG-like films obtained in plasma condition, 23rd European Conference on Biomaterials (ESB 23), Tampere, Finland, Conference CD, 3894 (2010)</p> <p>19.12 J. Kluson, E. Falos, C. Luca, <u>G.B. Rusu</u>, R. Niedrist, C. Ionita, N. Y. Sato, R. Perekrestov, P. Kudrna and M. Tichy, Diagnostic study of the discharge in the low pressure plasma jet sputtering systems, 26th Symposium on Plasma Physics and Technology, Prague, Czech Republic, 18 June, 2012 to 21 June, 2012</p> <p>19.13 R. Schrittwieser, C. Ionita, A. Murawski, C. Maszl, M. Asandulesa, A. Nastuta, <u>G.B. Rusu</u>, C. Luca, E. Falos, R. Niedrist, C. Douat, S.B. Olenici-Craciunescu, I. Vojvodic, M. Dobromir, D. Luca, S. Jaksch, P. Scheier, "Hollow cathode sputtering experiments for titanium thin films and related phenomena", Technical Meeting on "Plasma Science and Technology " IEE Japan PST-13-001~009 (Hitachi, Ibaraki, Japan, 15-16 March 2013; 15 March 2013)</p> <p>19.14. <u>Bogdan George Rusu</u>, Andrei Ciuca, Catalin Borcia, Dan Mihailescu, Chitin morphology modification after exposure to 2 GeV deuteron beams, 10th International Conference on Physics of Advanced Materials, 22 - 28 September 2014, Iasi, Romania</p>	<p>10</p> <p>10</p> <p>10</p> <p>10</p>
		<p>naționale: președinte comitet organizare/consiliu științific, 15 puncte pentru fiecare activitate; membru comitet organizare/consiliu științific,</p>

CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE
II. ACTIVITATEA DIDACTICĂ (30%)		5 puncte pentru fiecare activitate; moderator de panel, 5 puncte pentru fiecare activitate; raportor pe secțiuni/paneluri, 2 puncte pentru fiecare activitate
	19.1 D. Spridon, G.B. Rusu, I. Topala, Adsorbtion studies of L-asparaginase on polymer surfaces, PhD Students Workshop on Fundamental and Applied Research in Physics (FARPhyis), Facultatea de Fizica, Iasi 2009	2
	1. Tratatate și manuale universitare	30 puncte la 100 pagini / număr de autori
	2. Proiecte didactice (înființare/dotare laboratoare licență, master, săli workshop, biblioteci proprii facultăților, departamentelor, laboratoarelor și grupurilor de cercetare)	40 puncte pentru fiecare activitate
	3. Materiale suport curs, seminar, lucrări practice și programe analitice detaliate	10 puncte pentru fiecare activitate
	4. Organizare de aplicații și practică de specialitate	5 puncte pentru fiecare activitate
		Total: 1`420.41

