

Fisa autoevaluare
Ionut Cristian Topala

I. ACTIVITATEA DE CERCETARE (70%)

1. Articole științifice publicate *in extenso* în reviste cotate *Web of Science* cu factor de impact

Mod de calcul: (60 puncte x factor de impact + 25) / numar autori

Nr.	Articol	Nr. Autori	Factor impact:	Punctaj:
1	Nicoleta Dumitrascu, Ionut Topala, Gheorghe Popa, Dielectric Barrier Discharge Technique in Improving the Wettability and Adhesion Properties of Polymer Surfaces, IEEE Transaction on Plasma Science, 33(5), 1710-1714, (2005)	3	1,143	31,2
2	Stephanie Roualdes, Ionut Topala, Habiba Mahdjoub, Vincent Rouessac, Philippe Sistat, Jean Durand, Sulfonated polystyrene-type plasma-polymerized membranes for miniature direct methanol fuel cells, Journal of Power Sources, 158(2), 1270-1281, (2006).	6	3,521	39,4
3	Ionut Topala, Nicoleta Dumitrascu, Valentin Pohoata, Influence of plasma treatments on PET and PET+TiO2 hemocompatibility, Plasma Chemistry and Plasma Processing, 27(1), 95-112, (2007)	3	1,747	43,3
4	Ionut Topala, Nicoleta Dumitrascu, Dynamics of the wetting process on dielectric barrier discharge (DBD) treated wood surfaces, Journal of Adhesion Science and Technology, 21(11), 1089 - 1096, (2007).	2	0,852	38,1
5	Ionut Topala, Mihai Asandulesa, Nicoleta Dumitrascu, Gheorghe Popa, Jean Durand, Application of dielectric barrier discharge for plasma polymerization processes, Journal of Optoelectronics and Advanced Materials 10(8), 2028 - 2032, (2008).	5	0,577	11,9
6	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, Journal of Optoelectronics and Advanced Materials 10(8), 2038 - 2042, (2008)	5	0,577	11,9
7	Ionut Topala, Nicoleta Dumitrascu, Gheorghe Popa, Jean Durand. A comparative study of plasma effects on the PET surfaces. Revista de Chimie, 59(11), 1263 - 1265, (2008)	3	0,389	16,1
8	Ionut Topala, Nicoleta Dumitrascu, Gheorghe Popa. Properties of the acrylic acid polymers obtained by atmospheric pressure plasma polymerization. Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms, 267(2), 442-445, (2009).	3	1,156	31,5
9	Ionut Topala, Mihai Asandulesa, Delia Spridon, Nicoleta Dumitrascu, Hydrophobic Coatings Obtained in Atmospheric Pressure Plasma, IEEE Transaction on Plasma Science, 37(6), 946-950, (2009).	4	1,043	21,9
10	Mihai Asandulesa, Ionut Topala, Nicoleta Dumitrascu, Effects of plasma treatments on the surface of wood samples, Holzforschung, 64(2), 223-227, (2010).	3	1,307	34,5
11	Mihai Asandulesa, Ionut Topala, Valentin Pohoata, Nicoleta Dumitrascu, Influence of operational parameters on plasma polymerization process at atmospheric pressure, Journal of Applied Physics, 108, 093310 (6 pages) (2010)	4	2,064	37,2
12	Andrei Nastuta, Ionut Topala, Constantin Grigoras, Valentin Pohoata, Gheorghe Popa, Stimulation of wound healing by helium atmospheric pressure plasma treatment, Journal of Physics D: Applied Physics, 44(10), 105204 (9 pages) (2011)	5	2,544	35,5
13	C. Grigoras, I. Topala, A.V. Nastuta, D. Jitaru, I. Florea, L. Badescu, D. Ungureanu, M. Badescu, N. Dumitrascu, Influence of atmospheric pressure plasma treatment on epithelial regeneration process, Romanian Journal of Physics, 56, 54-61 (2011).	9	0,414	5,5
14	Ionut Topala, Nicoleta Dumitrascu, Evolution of bullets in helium atmospheric pressure plasma jet, IEEE Transactions on Plasma Science, 39(11), 2342 - 2343, (2011).	2	1,174	47,7
15	Jorge Gonzalez Vazquez, Mihai Asandulesa, Ionut Topala, Nicoleta Dumitrascu, Fast imaging study of polymerization plasmas at atmospheric pressure, IEEE Transactions on Plasma Science, 39(11), 2170 - 2171, (2011).	4	1,174	23,9
16	Andrei V. Nastuta, Ionut Topala, Gheorghe Popa, ICCD Imaging Of Atmospheric Pressure Plasma Jet Behavior In Different Electrodes Configurations, IEEE Transactions on Plasma Science, 39(11), 2310 - 2311, (2011).	3	1,174	31,8

17	Ionut Topala, Nicoleta Dumitrascu, Dan-Gheorghe Dimitriu, Experimental and Theoretical Investigations of Dielectric-Barrier Plasma Jet in Helium, IEEE Transactions on Plasma Science, 40(11), 2811 - 2816, (2012).	3	0,868	25,7
18	Roxana Jijie, Cristina Luca, Valentin Pohoata, Ionut Topala, Effects of Atmospheric-Pressure Plasma Jet on Pepsin Structure and Function, IEEE Transactions on Plasma Science, 40(11), 2980 - 2985, (2012).	4	0,868	19,3
19	Roxana Jijie, Valentin Pohoata, Ionut Topala, Thermal behavior of bovine serum albumin after exposure to barrier discharge helium plasma jet Applied Physics Letters, 101, 144103, (2012).	3	3,794	84,2
20	Mihai Asandulesa, Ionut Topala, Valentin Pohoata, Yves Marie Legrand, Marius Dobromir, Marian Totolin, Nicoleta Dumitrascu, Chemically polymerization mechanism of aromatic compounds under atmospheric pressure plasma conditions, Plasma Processes and Polymers, 10(5), 469-480, (2013).	7	3,73	35,5
21	Andrei V. Nastuta, Valentin Pohoata, Ionut Topala, Atmospheric pressure plasma jet - living tissue interface: electrical, optical and spectral characterization, Journal of Applied Physics, 113, 183302, (2013).	3	2,21	52,5
22	G.B. Rusu, M. Asandulesa, I. Topala, V. Pohoata, N. Dumitrascu, M. Barboiu, Atmospheric pressure plasma polymers for tuned QCM detection of protein adhesion, Biosensors and Bioelectronics, 53, 154-159, (2014).	6	5,437	58,5
23	Mihai Asandulesa, Ionut Topala, Yves-Marie Legrand, Stephanie Roualdes, Vincent Rouessac, Valeria Harabagiu, Chemical Investigation on Various Aromatic Compounds Polymerization in low Pressure Helium Plasma, Plasma Chemistry and Plasma Processing, 34(5), 1219-1232 (2014)	6	1,728	21,4
24	Ion Sava, Ada Burescu, Iuliana Stoica, Valentina Musteata, Mariana Cristea, Ilarion Mihaila, Valentin Pohoata, Ionut Topala, Properties of some azo-copolyimide thin films used in formation of photoinduced surface relief gratings, RSC Advances, manuscript ID RA-ART-11-2014-014218, in press, (2015)	8	3,708	30,9
25	Ionut Topala, Maasaki Nagatus, Capillary plasma jet: a new tool for plasma medicine, Applied Physics Letters, manuscript ID MS #L14-10360, in press, (2015)	2	3,515	118,0
			Total I.1:	907

4. Articole științifice publicate in extenso in volumele conferintelor

Mod de calcul: alte categorii: 5 puncte / numar autori

Nr.	Articol	Nr. Autori		Punctaj:
1	N. Apetroaei, I. Topala, G. Borcia, N. Dumitrascu, G. Popa, Interfacial aspects regarding PA-6 films in biological liquids, XI-th Conference Plasma Physics and Applications (CPPA 11), CONSTANTA, ROMANIA, P 47-7, 174-177, (2001).	5		1,0
2	N. Dumitrascu, I. Topala, C. Mihasan, G. Popa, Influence of DBD and UV radiation treatments on polymer surfaces wettability, Sixteenth Europhysics Conference on Atomic and Molecular Physics of Ionized Gases (ESCAPIG 16), GRENOBLE, FRANCE, Conference proceedings, Vol. 1, 357-358, (2002).	4		1,3
3	N. Dumitrascu, P. Tuluc, I. Topala, N. Apetroaei, G. Popa, Electrical polarization of the PMMA films treated by a DBD in helium, International Symposium on Plasma Chemistry (ISPC-16), TAORMINA, ITALY, Conference Abstracts and Full papers CD, 471, (2003).	5		1,0
4	N. Dumitrascu, I. Topala, C. Mihasan, M. Craus, G. Popa, Physico-chemical modifications of the DBD and UV irradiation treatments on the PET and PET+TiO2 films, International Symposium on Plasma Chemistry (ISPC-16), TAORMINA, ITALY, Conference Abstracts and Full papers CD, 794, (2003).	5		1,0
5	I. Topala, N. Dumitrascu, R. Nistor, V. Pohoata, G. Popa, Hemocompatibility of PA-6 surfaces treated by a dielectric barrier discharge, XVth International Conference on Gas Discharges and Their Applications (GD 15), TOULOUSE, FRANCE, Conference Proceedings, Vol. II, 1105-1108, (2004).	5		1,0
6	I. Topala, V. Pohoata, N. Dumitrascu, G. Popa, Dielectric Barrier Discharge Treatments of Polymer Surfaces for Medical Applications, 19th European Conference on Biomaterials (ESB 19), Sorrento, Italy, Conference CD: P379-520, (2005).	4		1,3

7	I. Topala, S. Roualdes, H. Mahdjoub, N. Dumitrascu, G. Popa, J. Durand, Plasma polymerization technique to obtain proton conductive films for miniaturized fuel cell applications, XXVII International Conference on Phenomena in Ionized Gases (ICPIG 27), Eindhoven, Netherlands, Conference CD: 10-195 (4 pages), (2005).	6		0,8
8	I. Topala, N. Dumitrascu, V. Pohoata, G. Popa, Hemocompatibility of the PET Films Modified by DBD Treatments, 20th European Conference on Biomaterials (ESB 20), Nantes, France, Conference CD, P 145 (2006).	4		1,3
9	I. Topala, G. Borgia, N. Dumitrascu, G. Popa, Surface modification of polymers used in medicine by dielectric barrier discharge treatments, 5th International Conference on Global Research and Education (Inter-Academia 5), Iasi, Romania, Conference proceedings, Vol. I, 267-274, (2006).	4		1,3
10	N. Dumitrascu, G. Borgia, V. Pohoata, I. Topala, M. Asandulesa, Wood treatment by DBD plasma, Eighteen Europhysics Conference on Atomic and Molecular Physics of Ionized Gases (ESCAPIG 18), LECCE, ITALY, Conference proceedings, 475-476, (2006).	5		1,0
11	A.S. Chiper, I. Topala, V. Pohoata, G.B. Rusu, A.V. Nastuta, G. Popa, Time space distribution of the excited species in a double DBD in He, 6th International Conference on Global Research and Education (Inter-Academia 6), HAMAMATSU, JAPAN, Conference proceedings 88 and CD 712-721, (2007).	6		0,8
12	Ionut Topala, Mihai Asandulesa, Nicoleta Dumitrascu, Gabriela Borgia, Gheorghe Popa, Polymerization reaction in plasma at atmospheric pressure, 6th International Conference on Global Research and Education (Inter-Academia 6), HAMAMATSU, JAPAN, Conference proceedings 164 and CD 1334-1342, (2007).	5		1,0
13	I. Topala, N. Dumitrascu, V. Pohoata, Wetting process dynamics on wood samples treated by DBD, 18th International Symposium on Plasma Chemistry (ISPC-18), Kyoto, Japan, Conference Abstracts and Full papers CD, 190, (2007).	3		1,7
14	I. Topala, N. Dumitrascu, G. Popa, J. Durand, Plasma treatment of PET films to prevent blood proteins adsorption: atmospheric versus low pressure plasma, 16th International Colloquium on Plasma Processes (CIP 16), Toulouse, France, Conference Proceedings, 148-149, (2007).	4		1,3
15	Ionut Topala, Nicoleta Dumitrascu, Gheorghe Popa, Thermodynamic parameters of the interactions between biological molecules and plasma polymers, 7th International Conference on Global Research and Education (Inter-Academia 7), Pecs, Hungary, Conference Proceedings, 475-481, (2008).	3		1,7
16	I. Topala, D. Spridon, N. Dumitrascu, A. Carpov, Functional films polymerized by atmospheric pressure plasma for enzyme immobilization, 19th Europhysics Conference on Atomic and Molecular Physics of Ionized Gases (ESCAPIG 19), GRANADA, SPAIN, Conference proceedings, 1-64, (2008).	4		1,3
17	I. Topala, M. Asandulesa, G. Borgia, N. Dumitrascu, Application of natural polymers DBD treatment to painting, 19th Europhysics Conference on Atomic and Molecular Physics of Ionized Gases (ESCAPIG 19), GRANADA, SPAIN, Conference proceedings, 1-63, (2008).	4		1,3
18	I. Topala, M. Asandulesa, G. Borgia, A. Carpov, N. Dumitrascu, Functional coatings on biomaterials for enzyme immobilization, 8th World Biomaterials Congress (8 WBC), AMSTERDAM, THE NETHERLANDS, Conference CD, P-Thu-D-367 (2008).	5		1,0
19	Ionut Topala, Valentin Pohoata, Delia Cuza, Nicoleta Dumitrascu, Control of the protein adsorption onto plasma polymerized films, 8th World Biomaterials Congress (8 WBC), Amsterdam, The Netherlands, Conference CD, P-Sat-A-264 (2008).	4		1,3
20	D. Spridon, I. Topala, A. Carpov, N. Dumitrascu, Plasma proteins adsorption onto artificial polymer surfaces, 22nd European Conference on Biomaterials (ESB 22), Lausanne, Switzerland, Conference CD, A 0683 (2009).	4		1,3
21	D. Spridon, A. Ungureanu, I. Topala, I. Alupei, N. Dumitrascu, Hydrophilisation of collagen samples for medical application, International Symposium on Plasma Chemistry (ISPC-19), BOCHUM, GERMANY, Conference Abstracts, P3.13.23, (2009).	5		1,0

22	I. Topala, M. Asandulesa, V. Pohoata, A. Carpov, N. Dumitrascu, Atmospheric plasma source for polymerization reactions. Electrical and optical diagnostics, International Symposium on Plasma Chemistry (ISPC-19), BOCHUM, GERMANY, Conference Abstracts, P1.5.31, (2009).	5		1,0
23	Ionut Topala, Andrei Vasile Nastuta, Constantin Grigoras, Nicoleta Dumitrascu, Study of oxidative stress markers during epithelial regeneration induced by atmospheric pressure plasma treatment, 3rd International Conference on Plasma Medicine (ICPM 3), Greifswald, Conference proceedings, 104, Germany, (2010)	4		1,3
24	G. B. Rusu, 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).	4		1,3
25	A. V. Nastuta, I. Topala, V. Pohoata, G. Popa, Optical diagnosis of an atmospheric pressure plasma source used for acceleration of wound healing process, 9th International Conference on Global Research and Education (Inter-Academia 9), Riga, Latvia, Conference proceedings, 27-28, (2010).	4		1,3
26	Mihai Asandulesa, Ionut Topala, Valentin Pohoata, Marius Dobromir, Marian Totolin, Nicoleta Dumitrascu, About the fragmentation process of monomers into the atmospheric pressure plasma reactor, 10th International Conference on Global Research and Education (Inter-Academia 10), Sucevita, Romania, 26 - 29 September, Book of Abstracts, 74, (2011).	6		0,8
27	Roxana Jijie, Ionut Topala, George Bogdan Rusu, Marius Dobromir, Valentin Pohoata, Nicoleta Dumitrascu, Atmospheric pressure plasma treatments of protein films and powders, 10th International Conference on Global Research and Education (Inter-Academia 10), Sucevita, Romania, 26 - 29 September, Book of Abstracts, 42, (2011).	6		0,8
28	A.V. Nastuta, I. Topala, V. Pohoata, G. Popa, Study of bullets produced in helium atmospheric pressure plasma jet, 10th International Conference on Global Research and Education (Inter-Academia 10), Sucevita, Romania, 26 - 29 September, Book of Abstracts, 15, (2011).	4		1,3
29	I. Topala, D.G. Dimitriu, N. Dumitrascu, Analysis of helium atmospheric pressure plasma jet in the bullet mode, XXX International Conference on Phenomena in Ionized Gases (ICPIG 30), Belfast, Northern Ireland, August 28th – September 2nd 2011, (2011).	3		1,7
30	I. Topala, E. Falos, C. Luca, A.V. Nastuta, N. Dumitrascu, Studies on plasma lifetime during tissues exposure to atmospheric pressure plasma jet, XXX International Conference on Phenomena in Ionized Gases (ICPIG 30), Belfast, Northern Ireland, August 28th – September 2nd 2011, (2011).	5		1,0
31	M. Asandulesa, I. Topala, M. Totolin, G. Rusu, V. Pohoata, N. Dumitrascu, Functionalization of AFM tips by atmospheric pressure plasma polymerization, International Symposium on Plasma Chemistry (ISPC-20), Philadelphia, USA, July 24 – 29, Conference Proceedings 73, (2011).	6		0,8
32	I. Topala, A.V. Nastuta, V. Pohoata, N. Dumitrascu, G. Popa, Effects of helium atmospheric pressure plasma jet on biological molecules, International Symposium on Plasma Chemistry (ISPC-20), Philadelphia, USA, July 24 – 29, Conference Proceedings 343, (2011).	5		1,0
33	A.V. Nastuta, I. Topala, V. Pohoata, G. Popa, Time and space evolution of plasma bullets in APPJ applied for human tissue treatment, NATO Advanced Research Workshop - Plasma for bio-decontamination, medicine and food security, Jasna, Slovakia, March 15-18, Book of Abstracts, 107-108, (2011).	4		1,3
34	I. Topala, A. V. Nastuta, C. Grigoras, N. Dumitrascu, Helium atmospheric pressure plasma jet: diagnostics and application for burned wounds healing, NATO Advanced Research Workshop - Plasma for bio-decontamination, medicine and food security, Jasna, Slovakia, March 15-18, Book of Abstracts, 53-54, (2011).	4		1,3
35	R. Jijie, V. Pohoata, I. Topala, Rayleigh scattering study of bovine serum albumin thermal aggregation after exposure to barrier discharge helium plasma jet, 11th International Conference on Global Research and Education (Inter-Academia 11), Budapest, Hungary, 27 - 30 August, Book of Abstracts, 315-320, (2012).	3		1,7

36	M. Asandulesa, I. Topala, Y. M. Legrand, M. Dobromir, N. Dumitrascu, About the plasma polymerization of aromatic compounds under atmospheric pressure plasma conditions, 21th Europhysics Conference on Atomic and Molecular Physics of Ionized Gases (ESCAMPIG 21), Viana do Castelo, Portugal, July 10-14, Conference CD P2.1.9, (2012)	5		1,0
37	I. Topala, R. Jijie, B.G. Rusu, V. Pohoata, N. Dumitrascu, Structure-function relationships in the case of plasma modified proteins, 21th Europhysics Conference on Atomic and Molecular Physics of Ionized Gases (ESCAMPIG 21), Viana do Castelo, Portugal, July 10-14, Conference CD P2.3.7 (2012)	5		1,0
38	Roxana Jijie, George Bogdan Rusu, Ionut Topala, Valentin Pohoata, Nicoleta Dumitrascu, Study of protein aggregation and enzymatic activity after exposure to dielectric barrier plasma jet in helium, 4th International Conference on Plasma Medicine (ICPM 4), Orléans, France, 17 – 21 June, Book of Abstracts, 163, (2012).	5		1,0
39	Ionut Topala, Andrei Vasile Nastuta, Roxana Jijie, Valentin Pohoata, Nicoleta Dumitrascu, Temporal kinetics of light emission from plasma at the interface with animal tissues, 4th International Conference on Plasma Medicine (ICPM 4), Orléans, France, 17 – 21 June, Book of Abstracts, 189, (2012).	5		1,0
40	R. Jijie, A. Demeter, V. Pohoata, I. Topala, Effects of APPJ operating parameters on the BSA structure, XXXI International Conference on Phenomena in Ionized Gases (ICPIG 31), July 14-19, 2013, Granada, Spain, PS1-101, (2013).	4		1,3
41	Lazarou, C.; Jijie, R.; Pohoata, V.; Mihaila, I.; Topala, I.; Georgiou, G. E., Numerical investigation of the influence of nitrogen impurity levels on the dielectric barrier discharge in helium, XXII Europhysics Conference on Atomic and Molecular Physics of Ionized Gases (ESCAMPIG 22), Greifswald, Germany, July 15-19, Book of Abstracts, P2-06 01, (2014).	6		0,8
42	R. Jijie, L. Curecheriu, G. Rusu, M. Dobromir, V. Pohoata, I. Topala, R. Boukherroub, N. Dumitrascu, Deposition and characterization of plasma (co)polymerized films at the interface with biological medium, High-Tech Plasma Processes Conference (HTPP 13), Toulouse, France, 22–27 June 2014, Book of Abstracts, (2014).	6		0,8
			Total I.2:	48

5. Carti științifice publicate (doar prima editie)

Mod de calcul: alte edituri internaționale: 70 puncte la 100 pagini / numar autori

Nr.	Articol	Nr. Autori		Punctaj:
1	Ionut Topala, Andrei Nastuta, " Helium atmospheric pressure plasma jet: diagnostics and application for burned wounds healing" (pp. 335-345) in "Plasma for bio-decontamination, medicine and food security" edited by Zdenko Machala, Karol Hensel, Yuri Akishev, NATO Science for Peace and Security Series, Springer Publishing, Heidelberg 2012, (499 pages) ISBN 978-94-007-2851-6	2		7,1
			Total I.5:	7

7. Coordonarea și editarea de volume, traduceri și antologii

Mod de calcul: edituri academice naționale: 50 puncte la 100 pagini / numar autori

Nr.	Articol	Nr. Autori		Punctaj:
1	Nicoleta Dumitrascu, Ionut Topala, "Medical applications of dielectric barrier discharge" (pp. 103-136) in "Biomaterials and Plasma Processing" edited by Nicoleta Dumitrascu, Ionuț Topală, Alexandru Ioan Cuza University Press, Iasi, 2011 (328 pages) ISBN: 978-973-703-543-1	2		328,0
			Total I.7:	328

9. Contracte de cercetare științifică în institutii academice (universitati, institute ale Academiei Romane, institute nationale de cercetare, institute de cercetare din strainatate, alte categorii de institute academice)

Mod de calcul: contracte internationale - director: 100 puncte pentru fiecare 100.000 Euro

Mod de calcul: contracte nationale - director: 50 puncte pentru fiecare 500.000 lei

Mod de calcul: contracte nationale - membru: 50 puncte pentru fiecare 500.000 lei / numarul de membri ai echipei de cercetare

Nr.	Contract	Statut	Buget	Punctaj:
1	FP7-PEOPLE-2013-NIGHT, Grant No. 609771 (RNR 2013), RESEARCHERS' NIGHT in ROMANIA 2013: Science. The great escape (2013)	director	EUR 33.900	33,9
2	H2020-2014-MSCA-NIGHT, Grant No. 633311 (RoTalkScience), RESEARCHERS' NIGHT in ROMANIA. #doyouspeakscience	director	EUR 118.000	118,0
3	UEFISCDI Cooperari bilaterale Romania - Cipru: Development, diagnostic and modelling of cold plasma jets at atmospheric pressure for direct treatment of living tissues (2012-2013)	director	EUR 8.670	8,7
4	UEFISCDI Cooperari bilaterale Romania - Slovacia: Effects of atmospheric pressure cold discharge plasmas to bacteria and cell cultures (2013-2014)	director	EUR 4.600	4,6
5	UEFISCDI Cooperari bilaterale Romania - Japonia: Capillary plasma jet effects on fluorescent protein films (2014)	director	EUR 1.290	1,3
6	Cod CNCISIS Td 434: Studiul reacțiilor de polimerizare în plasma descărcării barieră în vederea obținerii unor materiale de interes biomedical (2006-2008)	director	RON 24.300	2,4
7	Cod CNCISIS PD 297: Studiul efectelor plasmei la presiune atmosferică asupra unor sisteme biologice supramoleculare (2010-2012)	director	RON 161.196	16,1
8	Cod ROSA STAR_CDI_C2-2013 CDI ID 349: Synthesis of transient complex molecular systems in laboratory plasmas with relevance for molecular astrophysics of hot cores (2014-2016)	director	RON 800.000	80,0
9	Cod CNCISIS A 1461: Imobilizarea de specii biologice active pe suprafața unor implanturi prin tratamente cu plasma, Director proiect Conf. Dr. Nicoleta Dumitrascu (2005-2006)	membru	RON 36.500	0,9
10	Cod CNCISIS A 1344: Diagnoza prin metode și mijloace electrice și optice a plasmei produse în gaze nobile și amestecuri de gaze, Director proiect Prof. Dr. Gheorghe Popa (2003-2005)	membru	RON 60.000	1,0
11	Cod CEEX, Modulul I, tip P-CD nr. 6103: NANOAMBIENT - Materiale avansate, nanocompozite cu proprietăți antibacteriene, autocurățire și structuri integrate de concentratori de energie solară pentru ameliorarea ambientală, Responsabil proiect UAIC Conf. Dr. Nicoleta Dumitrascu (2005-2008)	membru	RON 45.000	1,1
12	Cod CEEX, VIASAN nr. 10 IDEAPOL: Arhitecturi inovative degradabile, biocompatibile și bioactive pe baza de polimeri naturali și sintetici, Responsabil proiect UAIC Conf. Dr. Nicoleta Dumitrascu (2005-2008)	membru	RON 90.000	2,3
13	Cod CNCISIS At 159: Studiul mecanismului de formare a descărcării secundare în sisteme DBD în pulsuri, la presiune atmosferică, Director proiect Prep. Dr. Alina Chiper (2007-2008)	membru	RON 160.000	4,0
14	Cod CNCISIS IDEI 384: Imobilizarea L-asparaginazei pe straturi polimerice depuse prin polimerizare în plasma la presiune atmosferică, Responsabil proiect Prof. Dr. Nicoleta Dumitrascu (2007-2010)	membru	RON 664.880	13,3
15	Platforma AMON, Cod CNCISIS 31: Integrated Platform for Advanced Studies in Molecular Nanotechnologies (AMON), Responsabil proiect Prof. Dr. Alexandru Stancu (2005-2008)	membru	RON 4.050.000	4,1
16	Platforma ARHEOINVEST, Cod CNCISIS 36: Platformă de formare și cercetare interdisciplinară în domeniul arheologiei (ARHEINVEST), Director proiect prof. dr. V. Spinei (2006-2009)	membru	RON 4.400.000	4,4
17	UEFISCDI Program Parteneriate - Competiția 2013: Adeziune și stabilitate controlată a tesaturilor tratate în plasma pentru aplicații industriale, director proiect conf. dr. Gabriela Borgia (2014-2016)	membru	RON 750.000	15,0
			Total I.9:	311

12. Citari și recenzii ale lucrărilor științifice

Mod de calcul reviste de specialitate din strainatate: $(10 + 20 \times \text{factor de impact}) / \text{numar autori}$, pentru fiecare citare

Mod de calcul monografiile academice din strainatate: 50 puncte / numar autori, pentru fiecare citare

Nr.	Articol	Nr. Autori	Factor impact:	Punctaj:
	Nicoleta Dumitrascu, Ionut Topala, Gheorghe Popa, Dielectric Barrier Discharge Technique in Improving the Wettability and Adhesion Properties of Polymer Surfaces, IEEE Transaction on Plasma Science, 33(5), 1710-1714, (2005) CITAT IN:	3		
1	A.A. Pikulev, V.M. Tsvetkov, Simulation of the discharge process in a barrier discharge cell based on a three-parameter model, Technical Physics, 52(9), 1121 – 1126 (2007).		0,46	6,4
2	J.J. Ramsden, D.M. Allen, D.J. Stephenson, J.R. Alcock, G.N. Peggs, G. Fuller, G. Goch, The Design and Manufacture of Biomedical Surfaces, CIRP Annals - Manufacturing Technology, 56(2), 687-711 (2007).		0,779	8,5
3	K.N. Pandiyaraj, V. Selvarajan, R.R. Deshmukh, C. Gao, Adhesive properties of polypropylene (PP) and polyethylene terephthalate (PET) film surfaces treated by DC glow discharge plasma, Vacuum, 83(2), 332-339 (2008).		1,114	10,8
4	Z. Fang, J.G. Lin, H. Yang, Y.C. Qiu, E. Kuffel, Polyethylene Terephthalate Surface Modification by Filamentary and Homogeneous Dielectric Barrier Discharges in Air, IEEE Transactions on Plasma Science, 37(5), 659-667, (2009).		1,043	10,3
5	A.A. Pikulev, V.M. Tsvetkov, Investigation of scaling laws as applied to the gas discharge in the case of a barrier-discharge-excited Kr/CCl ₄ mixture, Technical Physics, 55(1), 44 – 52 (2010).		0,535	6,9
6	L. Ragni, A. Berardinelli, L. Vannini, C. Montanari, F. Sirri, M. Elisabetta Guerzoni, A. Guarnieri, Non-thermal atmospheric gas plasma device for surface decontamination of shell eggs, Journal of Food Engineering, 100(1), 125-132, (2010)		2,168	17,8
7	Z. Fang, H. Yang, Y.C. Qiu, Surface Treatment of Polyethylene Terephthalate Films Using a Microsecond Pulse Homogeneous Dielectric Barrier Discharges in Atmospheric Air, IEEE Transactions on Plasma Science, 38(7), 1615-1623, (2010).		1,07	10,5
8	Z. Fang, X. Wang, R. Shao, Y. Qiu, K. Edmund, The effect of discharge power density on polyethylene terephthalate film surface modification by dielectric barrier discharge in atmospheric air, Journal of Electrostatics, 69(1), 60-66, (2011)		1,08	10,5
9	C. López-Santos, F. Yubero, J. Cotrino, A.R. González-Elipé, Lateral and In-Depth Distribution of Functional Groups On Diamond-Like Carbon After Oxygen Plasma Treatments, Diamond and Related Materials, 20(2), 49-56, (2011)		1,913	16,1
10	H.Z. Alisoy, A. Yesil, M. Koseoglu, I. Unal, An approach for unipolar corona discharge in N ₂ /O ₂ gas mixture by considering townsend conditions, Journal of Electrostatics, 69(4), 284-290, (2011)		1,08	10,5
11	C. Lopez-Santos, M. Fernandez-Gutierrez, F. Yubero, B. Vazquez-Lasa, J. Cotrino, A. Gonzalez-Elipé, J. San Roman, Effects of plasma surface treatments of diamond-like carbon and polymeric substrata on the cellular behavior of human fibroblasts, Journal Of Biomaterials Applications, 27(6), 669-683, (2013)		2,64	20,9
12	Cunhua Ma, Bin Dai, Caixia Xu, Ping Liu, Liangliang Qi, Lili Ban, Deep oxidative desulfurization of model fuel via dielectric barrier discharge plasma oxidation using MnO ₂ catalysts and combination of ionic liquid extraction, Catalysis Today, 211, 84–89 (2013)		2,98	23,2
13	Fernando Ribeiro Oliveira, Etienne Silva, Sidney Carmo, Fernanda Steffens, António Pedro Souto, Functionalization of Natural Cork Composite with Microcapsules after Plasma Treatment, Advances in Materials Science and Engineering, in press (2014)		0,5	6,7
14	K.Navaneetha Pandiyaraj, R.R.Deshmukh, Inci Ruzybayev, Ismat Shah, Pi-G. Su, Jr.mercy Halleluyah, Ahmad Sukari Bin Halim, Influence of non-thermal plasma forming gases on improvement of surface properties of low density polyethylene (LDPE), Applied Surface Science, in press (2014)		2,112	17,4
			Subtotal:	176

Nr.	Articol	Nr. Autori	Factor impact:	Punctaj:
	Stephanie Roualdes, Ionut Topala, Habiba Mahdjoub, Vincent Rouessac, Philippe Sistas, Jean Durand, Sulfonated polystyrene-type plasma-polymerized membranes for miniature direct methanol fuel cells, Journal of Power Sources, 158(2), 1270-1281, (2006) CITAT IN:	6		
1	D. Ramdutt, C. Charles, J. Hudspeth, B. Ladewig, T. Gengenbach, R. Boswell, A. Dicks, P. Brault, Low energy plasma treatment of Nafion® membranes for PEM fuel cells, Journal of Power Sources, 165(1), 41-48, (2007).		2,809	11,0
2	J. Jagur-Grodzinski, Polymeric materials for fuel cells: concise review of recent studies, Polymers for Advanced Technologies, 18(10), 785-799, (2007).		1,504	6,7
3	Zhongqing Jiang, Yuedong Meng, Zhongjie Jiang, Yicai Shi, Preparation of ultra-thin cation exchange composite membranes by a novel plasma polymerization technique. Surface Review and Letters, 14(6), 1165-1168, (2007).		0,391	3,0
4	L. Le Van-Jodin, S. Martin, F. Gaillard, Effect of elaboration parameters on ionic conductivity for PECVD fuel cell electrolyte. Ionics, 14(5), 403-406, (2008).		0,773	4,2
5	Z.Q. Jiang, Y.D. Meng, Y.C. Shi, Synthesis of Proton-Exchange Membranes by a Plasma Polymerization Technique. Japanese Journal of Applied Physics, 47(8), 6891-6895, (2008).		1,309	6,0
6	Y. Hudiono, S. Choi, S. Shu, W. J. Koros, M. Tsapatsis, S. Nai, Porous layered oxide/Nafion® nanocomposite membranes for direct methanol fuel cell applications, Microporous and Mesoporous Materials, 118(1-3), 427-434, (2009).		2,652	10,5
7	Z.Q. Jiang, Y.D. Meng, Z.J. Jiang, Y.C. Shi, Preparation of highly sulfonated ultra-thin proton-exchange polymer membranes for proton exchange membrane fuel cells, Surface Review and Letters, 16(2), 297-302, (2009).		0,366	2,9
8	Z.Q. Jiang, Z.J. Jiang, Y. Yu, Y. Meng, Preparation of Proton Exchange Membranes by a Plasma Polymerization Method and Application in Direct Methanol Fuel Cells (DMFCs), Plasma Processes and Polymers, 7(5), 382-389, (2010).		1,643	7,1
9	J. Thery, S. Martin, V. Fauchaux, L. Le Van Jodin, D. Truffier-Boutry, A. Martinet, J.-Y. Laurent, Fluorinated carboxylic membranes deposited by plasma enhanced chemical vapour deposition for fuel cells applications, Journal of Power Sources, 195(7), 5573-5580, (2010).		4,283	15,9
10	Z. Jiang, Z.J. Jiang, X. Yu, Y. Meng, J. Li, Plasma deposition of polymer electrolyte membrane for proton exchange membrane fuel cell (PEMFC) applications, Surface and Coatings Technology, 205(S1), S231-S235, (2010)		2,135	8,8
11	D. Merche, J. Hubert, C. Poleunis, S. Yunus, P. Bertrand, P. De Keyser, F. Reniers, One Step Polymerization of Sulfonated Polystyrene Films in a Dielectric Barrier Discharge, Plasma Processes and Polymers, 7(9-10), 836-845, (2010).		1,643	7,1
12	J. Hu, Y. Meng, C. Zhang, S. Fang, Plasma-polymerized alkaline anion-exchange membrane: Synthesis and structure characterization, Thin Solid Films, 519(7), 2155-2162, (2011).		1,89	8,0
13	Z. Jiang, Z.-J. Jiang, Y. Meng, Optimization and synthesis of plasma polymerized proton exchange membranes for direct methanol fuel cells, Journal of Membrane Science, 372(1-2), 303-313, (2011).		3,85	14,5
14	C.Zhang, J. Hu, M. Nagatsu, Y. Meng, W. Shen, H. Toyoda, X. Shu, High-Performance Plasma-Polymerized Alkaline Anion-Exchange Membranes for Potential Application in Direct Alcohol Fuel Cells, Plasma Processes and Polymers, 8(11), 1024-1032, (2011).		2,468	9,9
15	Y. Lan, C. Cheng, S. Zhang, G. Ni, L. Chen, G. Yang, M. Nagatsu, Y. Meng, High- Plasma-induced Styrene Grafting onto the Surface of polytetrafluoroethylene Powder for Proton Exchange Membrane Application, Plasma Science and Technology, 13(5), 604-607, (2011).		2,521	10,1
16	Zhongqing Jiang, Zhong-jie Jiang, Preparation of proton exchange membranes with high performance by a pulsed plasma enhanced chemical vapor deposition technique (PPECVD), RSC Advances, 2 (7), 2743-2747, 2012		2,562	10,2

17	T. J. Wood, W. C. E. Schofield, J. P. S. Badyal, Single step solventless deposition of highly proton-conducting anhydride layers, Journal of Materials Chemistry, 22 (16):7831-7836 (2012).		5,968	21,6
18	D. Merche, T. Dufour, J. Hubert, C. Poleunis, S.Yunus, A.Delcorte, P.Bertrand, F. Reniers, Synthesis of Membrane-Electrode Assembly for Fuel Cells by Means of (Sub)-Atmospheric Plasma Processes, Plasma Processes and Polymers, 9(11-12), 1144-1153, (2012).		3,73	14,1
19	T. J. Wood, J. P. S. Badyal, Pulsed Plasmachemical Deposition of Highly Proton Conducting Composite Sulfonic Acid-Carboxylic Acid Films, ACS Applied Materials & Interfaces, 4(3), 1675-1682, (2012).		5,008	18,4
20	Z. Jiang, Z.J. Jiang, Synthesis and optimization of proton exchange membranes by a pulsed plasma enhanced chemical vapor deposition technique, International Journal of Hydrogen Energy, 37(15), 11276-11289, (2012).		3,548	13,5
21	V.K. Peterson, C.S. Corr, R.W. Boswell, Z. Izaola, G.J. Kearley, Superfast Proton Diffusion Achieved in a Plasma-Polymerized Fuel-Cell Membrane, Journal Of Physical Chemistry C, 117(9), 4351-4357 (2013).		4,814	17,7
22	Horacio R. Corti, Membranes for Direct Alcohol Fuel Cells in Direct Alcohol, Fuel Cells, Horacio R. Corti and Ernesto R. Gonzalez (Editors), Springer, (2013) ISBN 978-94-007-7707-1			8,3
23	S.N. Carmo, F.R. Oliveira, E.A.A. Silva, F. Steffens and A.P. Souto, Functionalization of cork agglomerate composite with pcm microcapsules after dbd plasma treatment, Advances in Materials Science and Engineering in press (2014)		0,5	3,3
24	Bernard Nisol, Gregory Arnoult, Thomas Bieber, Alexandros Kakaroglou, Iris De Graeve, Guy Van Assche, Herman Terry, Francois Reniers, About the Influence of Double Bonds in the APPECVD of Acrylate-Like Precursors: A Mass Spectrometry Study of the Plasma Phase, Plasma Processes and Polymers, in press (2014).		3,73	14,1
			Subtotal:	247

Nr.	Articol	Nr. Autori	Factor impact:	Punctaj:
	Ionut Topala, Nicoleta Dumitrascu, Valentin Pohoata, Influence of plasma treatments on PET and PET+TiO2 hemocompatibility, Plasma Chemistry and Plasma Processing, 27(1), 95-112, (2007) CITAT IN:	3		
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2	K.N. Pandiyaraj, V. Selvarajan, Y.H. Rhee, H. W. Kim, I. Shah, Glow discharge plasma-induced immobilization of heparin and insulin on polyethylene terephthalate film surfaces enhances anti-thrombogenic properties, Materials Science and Engineering: C, 29(3), 796-805, (2009).		1,842	15,6
3	Z. Lin, I.S. Lee, Y.J. Choi, I.S. Noh, S.M. Chung, Characterizations of the TiO (2-x) films synthesized by e-beam evaporation for endovascular applications, Biomedical materials, 4(1), 15013 (6pp) (2009).		1,963	16,4
4	G. Irena, B. Jolanta, Z. Karolina, Chemical modification of poly(ethylene terephthalate) and immobilization of the selected enzymes on the modified film, Applied Surface Science, 255(19), 8293-8298, (2009).		1,616	14,1
5	K.N. Pandiyaraj, V.Selvarajan, J. Heeg, F. Junge, A. Lampka, T. Barfels, M. Wienecke, Y.H. Rhee, H.W. Kim, Influence of bias voltage on diamond like carbon (DLC) film deposited on polyethylene terephthalate (PET) film surfaces using PECVD and its blood compatibility, Diamond and Related Materials, 19(7), 1085-1092, (2010).		1,825	15,5
6	Z. Fang, X. Wang, R. Shao, Y. Qiu, K. Edmund, The effect of discharge power density on polyethylene terephthalate film surface modification by dielectric barrier discharge in atmospheric air, Journal of Electrostatics, 69(1), 60-66, (2011)		1,08	10,5
7	S. Noel, B. Liberelle, L. Robitaille, G. de Crescenzo, Quantification of Primary Amine Groups Available for Subsequent Biofunctionalization of Polymer Surfaces, Bioconjugate Chem., 22 (8), 1690-1699, (2011)		4,93	36,2

8	G. Borcia, R. Cazan, C. Borcia, DBD Surface Modification of Polymers in Relation to the Spatial Distribution of Reactive Oxygen Species, Plasma Chemistry and Plasma Processing, 22(8), 1690-1699, (2011)		1,602	14,0
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10	Zhi Fang, Yuan Liu, Kun Liu, Tao Shao, Cheng Zhang, Surface modifications of polymethylmetacrylate films using atmospheric pressure air dielectric barrier discharge plasma, Vacuum, 86, 1305-1312, (2012)		1,53	13,5
11	T. Jacobs, R. Morent, N. De Geyter, P. Dubruel, C. Leys, Plasma Surface Modification of Biomedical Polymers: Influence on Cell-Material Interaction, Plasma Chemistry and Plasma Processing, 32(5), 1039-1073, (2012).		1,728	14,9
12	Sergiu Coseri, Aleš Doliška, Karin Stana Kleinschek, Immobilization of Water-Soluble 6-Carboxylcellulose on Poly(ethylene terephthalate) Films Monitored by a Quartz Crystal Microbalance with Dissipation, Industrial & Engineering Chemistry Research, 52(22), 7439-7444, (2013).		2,206	18,0
13	Mioara Drobot, Zdenka Persin, Lidija Fras Zemljic, Tamiselman Mohan, Karin Stana-Kleinschek, Ales Doliska, Matej Bracic, Volker Ribitsch, Valeria Harabagiu, Sergiu Coseri, Chemical modification and characterization of poly(ethylene terephthalate) surfaces for collagen immobilization, Central European Journal of Chemistry, 11(11), 1786-1798, (2013).		1,167	11,1
14	Mick Donegan, Vladimir Milosavljevic, Denis P. Dowling, Activation of PET Using an RF Atmospheric Plasma System, Plasma Chemistry Plasma Processing 33, 941-957, (2013).		1,728	14,9
15	K.Navaneetha Pandiyaraj, R.R.Deshmukh, Inci Ruzybayev, Ismat Shah, Pi-G. Su, Jr.mercy Halleluyah, Ahmad Sukari Bin Halim, Influence of non-thermal plasma forming gases on improvement of surface properties of low density polyethylene (LDPE), Applied Surface Science, in press (2014)		2,112	17,4
			Subtotal:	269

Nr.	Articol	Nr. Autori	Factor impact:	Punctaj:
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3	S. Dahle, M. Marschewski, L. Wegewitz, W. Viöl, W. Maus-Friedrichs, Silver nano particle formation on Ar plasma – treated cinnamyl alcohol, Journal of Applied Physics, 111(3), 034902, (2012).		2,21	27,1
4	M. Abbasipoura, M.K. Salem, A.H. Sari, M. Abbasipour, Wood surface functionalization by means of low-pressure air plasma, Radiation Effects and Defects in Solids, 167(11), 814-825, (2012)		0,502	10,0
5	Levasseur, O, Stafford, L, Gherardi, N, Naude, N, Blanchard, V, Blanchet, P, Riedl, B, Sarkissian, A, Deposition of Hydrophobic Functional Groups on Wood Surfaces Using Atmospheric-Pressure Dielectric Barrier Discharge in Helium-Hexamethyldisiloxane Gas Mixtures, Plasma Processes And Polymers, 9(11-12), 1168-1175, (2012).		3,73	42,3
6	O. Levasseur, L. Stafford, N. Gherardi, N. Naude, E. Beche, J. Esvan, P. Blanchet, B. Riedl, A. Sarkissan, Role of substrate outgassing on the formation dynamics of either hydrophilic or hydrophobic wood surfaces in atmospheric-pressure, organosilicon plasmas, Surface and Coatings Technology, 234(15), 42-47, (2013).		1,941	24,4
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8	S. Dahle, J. Meuthen, W. Viol, W. Maus-Friedrichs, Adsorption of silver on cellobiose and cellulose studied with MIES, UPS, XPS and AFM, Cellulose, 20, 2469–2480, (2013).		3,476	39,8
9	Qin, Z., Gao, Q., Zhang, S., and Li, J., Surface free energy and dynamic wettability of differently machined poplar woods, BioResources, 9(2), 3088-3103, (2014).		1,309	18,1
			Subtotal:	213

Nr.	Articol	Nr. Autori	Factor impact:	Punctaj:
	Ionut Topala, Mihai Asandulesa, Nicoleta Dumitrascu, Gheorghe Popa, Jean Durand, Application of dielectric barrier discharge for plasma polymerization processes, Journal of Optoelectronics and Advanced Materials 10(8), 2028 - 2032, (2008). CITAT IN:	5		
1	R. Morent, N. De Geyter, S. Van Vlierberghe, E. Vanderleyden, P. Dubruel, C. Leys, E. Schacht, Deposition of Polyacrylic Acid Films by Means of an Atmospheric Pressure Dielectric Barrier Discharge, Plasma Chemistry and Plasma Processing, 29(2), 103-117, (2009).		2,039	10,2
2	Lin Chen, Xingwang Zhang, Liang Huang, Lecheng Lei, Application of in-plasma catalysis and post-plasma catalysis for methane partial oxidation to methanol over a Fe ₂ O ₃ -CuO/γ-Al ₂ O ₃ catalyst, Journal of Natural Gas Chemistry, 19(6), 628-637, (2010)		1,345	7,4
3	Raju Bhair Tyata, Deepak Prasad Subedi, Rajendra Shrestha, Chiow San Wong, Generation of uniform atmospheric pressure argon glow plasma by dielectric barrier discharge, PRAMANA - Journal of Physics, 80(3), 507–517 (2013)		0,562	4,2
			Subtotal:	22

Nr.	Articol	Nr. Autori	Factor impact:	Punctaj:
	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, Journal of Optoelectronics and Advanced Materials 10(8), 2038 - 2042, (2008) CITAT IN:	5		
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2	P. Muranyi, J. Wunderlich, H.-C. Langowski, Modification of bacterial structures by a low-temperature gas plasma and influence on packaging material, Journal of Applied Microbiology, 109(6), 1875-1885, (2010).		2,098	10,4
3	S.D. Anghel, Generation and investigation of a parallel-plate DBD driven at 1.6 MHz with flowing helium, Journal of Electrostatics, 69(3), 261-264 (2011)		1,08	6,3
4	Xinyan Peng, Enyong Ding, Feng Xue, In situ Synthesis of TiO ₂ /Polyethylene Terephthalate Hybrid Nanocomposites at Low Temperature, Applied Surface Science, 258(17), 6564–6570, (2012)		2,112	10,4
5	A. Simon, O.E. Dinu, M.A. Papiu, C. Tudoran, J. Papp, S.D. Anghel, A study of 1.74 MHz atmospheric pressure dielectric barrier discharge for non-conventional treatments, Journal of Electrostatics, 70(3), 235–240 (2012)		1	6,0
6	A. Matei, J. Schou, S. Canulescu, M. Zamfirescu, C. Albu, B. Mitu, E.C. Buruiana, T. Buruiana, C. Mustaciosu, I. Petcu, M. Dinescu, Functionalized ormosil scaffolds processed by direct laser polymerization for application in tissue engineering, Applied Surface Science, 278, 357–361 (2012)		2,112	10,4
			Subtotal:	49

Nr.	Articol	Nr. Autori	Factor impact:	Punctaj:
	Ionut Topala, Mihai Asandulesa, Delia Spridon, Nicoleta Dumitrascu, Hydrophobic Coatings Obtained in Atmospheric Pressure Plasma, IEEE Transaction on Plasma Science, 37(6), 946-950, (2009) CITAT IN:	4		
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2	Francoise Massines, Christian Sarra-Bournet, Fiorenza Fanelli, Nicolas Naudé, Nicolas Gherardi, Atmospheric Pressure Low Temperature Direct Plasma Technology: Status and Challenges for Thin Film Deposition, Plasma Processes and Polymers, 9(11-12), 1041-1073, (2012).		3,73	21,2
3	Annina Steinbach , Andrea Tautzenberger , Andreas Schaller , Andreas Kalytta , Sebastian Tränkle , Anita Ignatius , Dirk Volkmer, Plasma Enhanced Chemical Vapor Deposition of n-Heptane and Methyl Methacrylate for Potential Cell Alignment Applications, ACS Appl. Mater. Interfaces, 4(10), 5196-5203, (2012).		5,008	27,5
4	Laroche, G, Vallade, J, Bazinette, R, van Nijnatten, P, Hernandez, E, Hernandez, G, Massines, F, Fourier transform infrared absorption spectroscopy characterization of gaseous atmospheric pressure plasmas with 2 mm spatial resolution, Review of Scientific Instruments, 83(10), 103508, (2012).		1,602	10,5
5	Julien Vallade, Francoise Massines, Fourier-transformed infrared absorption spectroscopy: a tool to characterize the chemical composition of Ar–NH ₃ –SiH ₄ dielectric barrier discharge, J. Phys. D: Appl. Phys. 46, 464007, (2013).		2,528	15,1
6	QH Trinh, SB Lee, YS Mok, Hydrophobic Coating of Silicate Phosphor Powder Using Atmospheric Pressure Dielectric Barrier Discharge Plasma, AIChE Journal, 60(3), 829–838, (2014).		2,493	15,0
			Subtotal:	100

Nr.	Articol	Nr. Autori	Factor impact:	Punctaj:
	Ionut Topala, Nicoleta Dumitrascu, Gheorghe Popa. Properties of the acrylic acid polymers obtained by atmospheric pressure plasma polymerization. Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms, 267(2), 442–445, (2009). CITAT IN:	3		
1	Delphine Merche, Nicolas Vandecasteele, François Reniers, Atmospheric plasmas for thin film deposition: A critical review, Thin Solid Films, 520(13), 4219-4236, (2012).		1,604	14,0
2	Cédric Amorosi, Thierry Fouquet, Valérie Toniazio, David Ruch, Luc Averous, Vincent Ball, Marc Michel, Growth rate, morphology, chemical composition and oligomerization state of plasma polymer films made from acrylic and methacrylic acid under dielectric barrier discharge, Reactive and Functional Polymers, 72(5), 341–348, (2012).		2,505	20,0
3	Gabriella Da Ponte, Eloisa Sardella, Fiorenza Fanelli, Riccardo d'Agostino, Roberto Gristina, Pietro Favia, Plasma Deposition of PEO-Like Coatings with Aerosol-Assisted Dielectric Barrier Discharges, Plasma Processes and Polymers, 9(11-12), 1176-1183, (2012).		3,73	28,2
4	A. Kakaroglou, G. Scheltjens, B. Nisol, I. De Graeve, G. Van Assche, B. Van Mele, R. Willem, M. Biesemans, F. Reniers, H. Terryn, Deposition and Characterisation of Plasma Polymerised Allyl Methacrylate Based Coatings, Plasma Processes and Polymers, 9(8), 799–807, (2012).		3,73	28,2
5	Samanta, KK , Joshi, AG, Jassal, M, Agrawal, AK, Study of hydrophobic finishing of cellulosic substrate using He/1,3-butadiene plasma at atmospheric pressure, Surface & Coatings Technology, 213, 65-76, (2012).		1,941	16,3
6	B. Nisol, A. Batan, F. Dabeux, A. Kakaroglou, I. de Graeve, G. van Assche, B. van Mele, H. Terryn, F. Reniers, Surface Characterization of atmospheric Pressure Plasma-Deposited Allyl Methacrylate and Acrylic Acid Based Coatings, Plasma Processes and Polymers, 10, 564–571, (2013).		3,73	28,2
7	Sung Woon Myung, Yeong Mu Ko, Byung Hoon Kim, Effect of plasma surface functionalization on preosteoblast cell spreading and adhesion on a biomimetic hydroxyapatite layer formed on a titanium surface, Applied Surface Science, 287, 62–68, (2013).		2,112	17,4
8	Abdelkrim Batan, Bernard Nisol, Alexandros Kakaroglou, Iris De Graeve, Guy Van Assche, Bruno Van Mele, Herman Terryn, Francois Reniers, The Impact of Double Bonds in the APPECVD of Acrylate-Like Precursors, Plasma Processes Polymers, 10(10), 857–863, (2013).		3,73	28,2

9	Sudhir Bhatt, Jerome Pulpytel, Shinsuke Mori, Massoud Mirshahi, Farzaneh Arefi-Khonsari, Cell Repellent Coatings Developed by an Open Air Atmospheric Pressure Non-Equilibrium Argon Plasma Jet for Biomedical Applications, Plasma Processes Polymers, 11, 24–36, (2014).		3,73	28,2
10	Yi-Wei Yang, Giuseppe Camporeale, Eloisa Sardella, Giorgio Dilecce, Jong-Shinn Wu, Fabio Palumbo, Pietro Favia, Deposition of Hydroxyl Functionalized Films by Means of Water Aerosol-Assisted Atmospheric Pressure Plasma, Plasma Processes Polymers, in press, (2015).		3,73	28,2
			Subtotal:	237

Nr.	Articol	Nr. Autori	Factor impact:	Punctaj:
	Mihai Asandulesa, Ionut Topala, Nicoleta Dumitrascu, Effects of plasma treatments on the surface of wood samples, Holzforschung, 64(2), 223-227, (2010). CITAT IN:	3		
1	Mandla A. Tshabalala, Ryan Libert, Christian M. Schaller, Photostability and moisture uptake properties of wood veneers coated with a combination of thin sol-gel films and light stabilizers, Holzforschung, 65(2), 215-220 (2011).		1,748	15,0
2	Xiaoyan Zhou, Lijuan Tang, Fei Zheng, Gi Xue, Guanben Du, Weidong Zhang, Chenglong Lv, Qiang Yong, Rong Zhang, Bijun Tang, Xueyuan Liu Oxygen plasma-treated enzymatic hydrolysis lignin as a natural binder for manufacturing biocomposites, Holzforschung, 65(6), 829-833 (2011).		1,748	15,0
3	M.N. Acda, E.E. Devera, R.J. Cabangon, H.J. Ramos, Effects of plasma modification on adhesion properties of wood, International Journal of Adhesion & Adhesives, 32, 70-75 (2012).		1,295	12,0
4	G. Avramidis, L. Klarhöfer, W. Maus-Friedrichs, H. Militz, W. Viöl, Influence of air plasma treatment at atmospheric pressure on wood extractives, Polymer Degradation and Stability, 97(3), 469-471, (2012).		2,77	21,8
5	G. Avramidis, H. Militz, I. Avar, W. Viöl, A. Wolkenhauer, Improved absorption characteristics of thermally modified beech veneer produced by plasma treatment, European Journal Of Wood And Wood Products, 70(5), 545-549, (2012).		0,888	9,3
6	S. Dahle, M. Marschewski, L. Wegewitz, W. Viöl, W. Maus-Friedrichs, Silver nano particle formation on Ar plasma – treated cinnamyl alcohol, Journal of Applied Physics, 111(3), 034902, (2012).		2,21	18,1
7	O. Levasseur, L. Stafford, N. Gherardi, N. Naude, V. Blanchard, P. Blanchet, B. Riedl, A. Sarkissian, Deposition of Hydrophobic Functional Groups on Wood Surfaces Using Atmospheric-Pressure Dielectric Barrier Discharge in Helium-Hexamethyldisiloxane Gas Mixtures, Plasma Processes and Polymers, 9(11-12), 1168-1175, (2012).		3,73	28,2
8	Drafz, MHH, Dahle, S, Maus-Friedrichs, W, Namyslo, JC, Kaufmann, DE, Chemical improvement of surfaces. Part 2: Permanent hydrophobization of wood by covalently bonded fluoroorganyl substituents, Holzforschung, 66(6), 727-733, (2012).		2,416	19,4
9	Biodegradation - Life of Science, Edited by Rolando Chamy and Francisca Rosenkranz, chapter 7 Antimicrobial Modifications of Polymers (by Vladimir Sedlarik), Publisher: InTech, 187-204, (2013), ISBN 978-953-51-1154-2			16,7
10	Christian Lux, Zsolt Szalay, Wilfried Beikircher, Dusan Kovacic, Hans K. Pulker, Investigation of the plasma effects on wood after activation by diffuse coplanar surface barrier discharge, European Journal of Wood and Wood Products, 71, 539–549, (2013).		0,888	9,3
11	Lucia Potočnáková, Jaroslav Hnilica, Vít Kudrle, Increase of wettability of soft-and hard woods using microwave plasma, International Journal of Adhesion & Adhesives, 45, 125–131, (2013).		1,295	12,0
12	S. Dahle, J. Meuthen, W. Viöl, W. Maus-Friedrichs, Adsorption of silver on cellobiose and cellulose studied with MIES, UPS, XPS and AFM, Cellulose, 20, 2469–2480, (2013).		3,476	26,5
13	Bernard Riedl, Costin Angel, Julien Pregent, Pierre Blanchet, Luc Stafford, Wood Surface Modification by Atmospheric-Pressure Plasma and Effect on Waterborne Coating Adhesion, Bioresources, 2(1), 292-306, (2013).		1,549	13,7
14	Wang, Xiaoqing, Chai, Yubo, Liu, Junliang, Formation of highly hydrophobic wood surfaces using silica nanoparticles modified with long-chain alkylsilane, Holzforschung, 67(6), 667-672, (2013).		2,339	18,9

15	S. Dahle, J. Meuthen, W. Viol, W. Maus-Friedrichs, Adsorption of silver on glucose studied with MIES, UPS, XPS and AFM, Applied Surface Science, 284, 514-522, (2013).		2,532	20,2
16	Lijuan Tang, Rong Zhang, Xiangming Wang, Xuehui Yang, Xiaoyan Zhou, Surface modification of poplar veneer by means of radio frequency oxygen plasma (RF-OP) to improve interfacial adhesion with urea-formaldehyde resin, Holzforschung, in press, (2015).		2,339	18,9
17	Pedro Henrique Gonzalez de Cademartori, Graciela Inês Bolzon de Muniz, Washington Luiz Esteves Magalhães, Changes of wettability of medium density fiberboard (MDF) treated with He-DBD plasma, Holzforschung, in press, (2015).		2,339	18,9
18	Wendi Liu, Tingting Chen, Tianshun Xie, Fuwen Lai, Renhui Qiu, Oxygen plasma treatment of bamboo fibers (BF) and its effects on the static and dynamic mechanical properties of BF-unsaturated polyester composites, Holzforschung, in press, (2015).		2,339	18,9
19	J. Pregent, L. Vandsburger, V. Blanchard, P. Blanchet, B. Riedl, A. Sarkissian, L. Stafford, Determination of active species in the modification of hardwood samples in the flowing afterglow of N ₂ dielectric barrier discharges open to ambient air, Cellulose, in press, (2015).		3,033	23,6
			Subtotal:	336

Nr.	Articol	Nr. Autori	Factor impact:	Punctaj:
	Mihai Asandulesa, Ionut Topala, Valentin Pohoata, Nicoleta Dumitrascu, Influence of operational parameters on plasma polymerization process at atmospheric pressure, Journal of Applied Physics, 108, 093310 (6 pages) (2010) CITAT IN:	4		
1	Delphine Merche, Nicolas Vandecasteele, François Reniers, Atmospheric plasmas for thin film deposition: A critical review, Thin Solid Films, 520(13), 4219-4236, (2012).		1,604	10,5
2	Barreto, MC, Borris, J, Thomas, M, Hansel, R, Stoll, M, Klages, CP, Reduction of Plasticizer Leaching from PVC by Barrier Coatings Deposited Using DBD Processes at Atmospheric Pressure, Plasma Processes and Polymers, 9(11-12), 1208-1214, (2012).		3,73	21,2
3	M. Bashir, Julia M. Rees, William B. Zimmerman, Plasma polymerization in a microcapillary using an atmospheric pressure dielectric barrier discharge, Surface & Coatings Technology, 234, 82-91, (2013).		1,941	12,2
			Subtotal:	44

Nr.	Articol	Nr. Autori	Factor impact:	Punctaj:
	Andrei Nastuta, Ionut Topala, Constantin Grigoras, Valentin Pohoata, Gheorghe Popa, Stimulation of wound healing by helium atmospheric pressure plasma treatment, Journal of Physics D: Applied Physics, 44(10), 105204 (9 pages) (2011) CITAT IN:	5		
1	S.D. Anghel, Generation and investigation of a parallel-plate DBD driven at 1.6 MHz with flowing helium, Journal of Electrostatics, 69(3), 261-264 (2011)		1,08	6,3
2	E. Karakas, M. A. Akman, M. Laroussi, The evolution of atmospheric-pressure low-temperature plasma jets: jet current measurements, Plasma Sources Sci. Technol., 21, 034016 (10pp) (2012)		2,515	12,1
3	G. E. Morfill, J. L. Zimmermann, Plasma Health Care-Old Problems, New Solutions, Contributions to Plasma Physics, 52(7), 655-663 (2012)		0,934	5,7
4	J. F. Kolb, A. M. Mattson, C. M. Edelblute, X. Hao, M. A. Malik, L.C. Heller, Cold DC-Operated Air Plasma Jet for the Inactivation of Infectious Microorganisms, IEEE Transactions on Plasma Science, 40(11), 3007 - 3026, (2012)		0,868	5,5
5	T. Gerling, T. Hoder, R. Brandenburg, R. Bussiahn, K.D. Weltmann, Influence of the capillary on the ignition of the transient spark discharge, Journal Of Physics D-Applied Physics, 46(14), 145205, (2013)		2,528	12,1
6	Th. von Woedtke, S. Reuter, K. Masur, K.-D. Weltmann, Plasmas for medicine, Physics Reports, 530(4), 291-320, (2013)		22,929	93,7
7	HM Joh, SJ Kim, TH Chung, SH Leem, Comparison of the characteristics of atmospheric pressure plasma jets using different working gases and applications to plasma-cancer cell interactions, AIP Advances, 3(9), 092128, (2013)		1,394	7,6

8	D. Duday, F. Clement, E. Lecoq, C. Penny, J. Audinot, T. Belmonte, K. Kutasi, H. Cauchie, P. Choquet, Study of Reactive Oxygen or/and Nitrogen Species Binding Processes on E. coli Bacteria with Mass Spectrometry Isotopic Nanoimaging, Plasma Processes and Polymers, 10(10), 864–879, (2013)		3,73	16,9
9	Minh-Hien Thi Ngo, Jiunn-Der Liao, Pei-Lin Shao, Chih-Chang Weng, Chen-Young Chang, Cell Death Induced on Cell Cultures and Nude Mouse Skin by Non-Thermal, Nanosecond-Pulsed Generated Plasma, PLOS ONE, 8(12), e83001 (11p), (2013)		3,73	16,9
10	May Korachi, Necdet Aslan, Low temperature atmospheric plasma for microbial decontamination, in Microbial pathogens and strategies for combating them: science, technology and education (A. Méndez-Vilas, Ed.), 453 – 459 (2014) ISBN-13 Vol. 1: 978-84-939843-9-7			10,0
11	Minh-Hien Thi Ngo, Jiunn-Der Liao, Pei-Lin Shao, Chih-Chang Weng, Chen-Young Chang, Increased Fibroblast Cell Proliferation and Migration Using Atmospheric N ₂ /Ar Micro-Plasma for the Stimulated Release of Fibroblast Growth Factor-7, Plasma Processes and Polymers, 11(1), 80–88, (2014)		3,73	16,9
12	Th. von Woedtke, H.-R. Metelmann, K.-D. Weltmann, Clinical Plasma Medicine: State and Perspectives of in Vivo Application of Cold Atmospheric Plasma, Contributions to Plasma Physics, 54(2), 104–117, (2014)		0,934	5,7
13	M. Boselli, V. Colombo, E. Ghedini, M. Gherardi, R. Laurita, A. Liguori, P. Sanibondi, A. Stancampiano, Schlieren High-Speed Imaging of a Nanosecond Pulsed Atmospheric Pressure Non-equilibrium Plasma Jet, Plasma Chemistry and Plasma Processing, 34(4), 853-869, (2014)		1,599	8,4
14	M. Santos, C. Noel, T. Belmonte, L.L. Alves, Microwave capillary plasmas in helium at atmospheric pressure, Journal Of Physics D-Applied Physics, 47, 265201, (2014)		2,823	13,3
15	Tian, Wei, Kushner, Mark, Atmospheric pressure dielectric barrier discharges interacting with liquid covered tissue, Journal Of Physics D-Applied Physics, 47(16), 165201, (2014)		2,823	13,3
16	Xiaolong Hao, Amber M. Mattson, Chelsea M. Edelblute, Muhammad A. Malik, Loree C. Heller, Juergen F. Kolb, Nitric Oxide Generation with an Air Operated Non-Thermal Plasma Jet and Associated Microbial Inactivation Mechanisms, Plasma Processes and Polymers, 11(11), 1044–1056, (2014)		2,964	13,9
17	Maxi Hoentsch, René Bussiahn, Henrike Rebl, Claudia Bergemann, Martin Eggert, Marcus Frank, Thomas von Woedtke, Barbara Nebe, Persistent Effectivity of Gas Plasma-Treated, Long Time-Stored Liquid on Epithelial Cell Adhesion Capacity and Membrane Morphology, PLoS ONE 9(8): e104559, (2014)		3,534	16,1
18	Minh-Hien Ngo Thi, Pei-Lin Shao, Jiunn-Der Liao, Chou-Ching K. Lin, Hon-Kan Yip, Enhancement of Angiogenesis and Epithelialization Processes in Mice with Burn Wounds through ROS/RNS Signals Generated by Non-Thermal N ₂ /Ar Micro-Plasma, Plasma Processes and Polymers, 11(11), 1076–1088, (2014)		2,964	13,9
19	Ryo Ono, Yusuke Tokumitsu, Shungo Zen and Seiya Yonemori, Production of reactive species using vacuum ultraviolet photodissociation as a tool for studying their effects in plasma medicine: simulations and measurements, Journal Of Physics D-Applied Physics, 47(44), 445203, (2014)		2,823	13,3
20	Jun-Seok Oh, Hiroshi Furuta, Akimitsu Hatta, James W. Bradley, Investigating the effect of additional gases in an atmospheric-pressure helium plasma jet using ambient mass spectrometry, Japanese Journal of Applied Physics, 54(1S), 01AA03, (2014)		1,057	6,2
21	Ryo Ono, Yusuke Tokumitsu, Shungo Zen and Seiya Yonemori, Production of reactive species using vacuum ultraviolet photodissociation as a tool for studying their effects in plasma medicine: simulations and measurements, Japanese Journal of Applied Physics, 47, 445203, (2014)		2,823	13,3
			Subtotal:	321

Nr.	Articol	Nr. Autori	Factor impact:	Punctaj:
	Ionut Topala, Nicoleta Dumitrascu, Evolution of bullets in helium atmospheric pressure plasma jet, IEEE Transactions on Plasma Science, 39(11), 2342 - 2343, (2011). CITAT IN:	2		
1	T. Gerling, A.V. Nastuta, R. Bussiahn, E. Kindel, K.-D. Weltmann, Back and forth directed plasma bullets in a helium atmospheric pressure needle-to-plane discharge with oxygen admixtures, Plasma Sources Science and Technology, 21(3), 034012, (2012).		2,515	30,2
2	S. Reuter, J. Winter, S. Iseni, S. Peters, A. Schmidt-Bleker, M. Dünnebier, J. Schäfer, R. Foest, K.-D. Weltmann, Detection of ozone in a MHz argon plasma bullet jet, Plasma Sources Science and Technology, 21(3), 034015, (2012).		2,515	30,2
3	Tao Shao, Cheng Zhang, Ruixue Wang, Yixiao Zhou, Qing Xie, Zhi Fang, Comparison of Atmospheric-Pressure He and Ar Plasma Jets Driven by Microsecond Pulses, IEEE Transactions On Plasma Science, in press, (2015).		0,95	14,5
			Subtotal:	75

Nr.	Articol	Nr. Autori	Factor impact:	Punctaj:
	Andrei V. Nastuta, Ionut Topala, Gheorghe Popa, ICCD Imaging Of Atmospheric Pressure Plasma Jet Behavior In Different Electrodes Configurations, IEEE Transactions on Plasma Science, 39(11), 2310 - 2311, (2011). CITAT IN:	3		
1	E. Karakas, M. A. Akman, M. Laroussi, The evolution of atmospheric-pressure low-temperature plasma jets: jet current measurements, Plasma Sources Sci. Technol., 21, 034016 (10pp) (2012)		2,515	20,1
2	Sanghoo Park, Se Youn Moon, Wonho Choe, Multiple (eight) plasma bullets in helium atmospheric pressure plasma jet and the role of nitrogen, Applied Physics Letters 103, 224105 (2013)		3,794	28,6
3	R. Wild, T. Gerling, R. Bussiahn, K.-D. Weltmann, L. Stollenwerk, Phase-resolved measurement of electric charge deposited by an atmospheric pressure plasma jet on a dielectric surface, J. Phys. D: Appl. Phys. 47 042001 (5pp) (2014)		2,528	20,2
4	T. Gerling, T. Hoder, R. Bussiahn, R. Brandenburg, K.-D. Weltmann, On the spatio-temporal dynamics of a self-pulsed nanosecond transient spark discharge: a spectroscopic and electrical analysis, Plasma Sources Sci. Technol. 22 065012 (11pp) (2013)		2,515	20,1
			Subtotal:	89

Nr.	Articol	Nr. Autori	Factor impact:	Punctaj:
	Roxana Jijie, Valentin Pohoata, Ionut Topala, Thermal behavior of bovine serum albumin after exposure to barrier discharge helium plasma jet Applied Physics Letters, 101, 144103, (2012). CITAT IN:	3		
1	Wen Yan, Fucheng Liu, Chaofeng Sang, Dezhen Wang, Two-dimensional modeling of the cathode sheath formation during the streamer cathode interaction, Physics of Plasmas 21, 013504 (2014)		2,376	19,2
			Subtotal:	19

Nr.	Articol	Nr. Autori	Factor impact:	Punctaj:
	Ionut Topala, Nicoleta Dumitrascu, Dan-Gheorghe Dimitriu, Experimental and Theoretical Investigations of Dielectric-Barrier Plasma Jet in Helium, IEEE Transactions on Plasma Science, 40(11), 2811 - 2816, (2012). CITAT IN:	3		
1	Victor J. Law, Denis P. Dowling, Active Control Metrology for Preventing Induced Thermal Damage During Atmospheric Pressure Plasma Processing of Thermal Sensitive Materials, ISCS 2013: Interdisciplinary Symposium on Complex Systems Emergence, Complexity and Computation, 8, 321-331 (2014), Print ISBN 978-3-642-45437-0, Online ISBN 978-3-642-45438-7			16,7
			Subtotal:	17

Nr.	Capitol carte	Nr. Autori	Factor impact:	Punctaj:
	Ionut Topala, Andrei Nastuta, " Helium atmospheric pressure plasma jet: diagnostics and application for burned wounds healing" (pp. 335-345) in "Plasma for bio-decontamination, medicine and food security" edited by Zdenko Machala, Karol Hensel, Yuri Akishev, NATO Science for Peace and Security Series, Springer Publishing, Heidelberg 2012, (499 pages) ISBN 978-94-007-2851-6 CITAT IN:	2		
1	Th. von Woedtke, S. Reuter, K. Masur, K.-D. Weltmann, Plasmas for medicine, Physics Reports, 530(4), 291-320, (2013)		22,929	234,3
			Subtotal:	234

Nr.	Capitol carte	Nr. Autori	Factor impact:	Punctaj:
	Andrei V. Nastuta, Valentin Pohoata, Ionut Topala, Atmospheric pressure plasma jet - living tissue interface: electrical, optical and spectral characterization, Journal of Applied Physics, 113, 183302, (2013).	3		
1	Giichiro Uchida, Kosuke Takenaka, Kazufumi Kawabata, Atsushi Miyazaki and Yuichi Setsuhara, Effects of driving voltage frequency on the discharge characteristics of atmospheric dielectric-barrier-discharge plasma jet, Jpn. J. Appl. Phys. 53 11RA08 (2014)		2,823	22,2
			Subtotal:	22

Nr.	Capitol carte	Nr. Autori	Factor impact:	Punctaj:
	Mihai Asandulesa, Ionut Topala, Valentin Pohoata, Yves Marie Legrand, Marius Dobromir, Marian Totolin, Nicoleta Dumitrascu, Chemically polymerization mechanism of aromatic compounds under atmospheric pressure plasma conditions, Plasma Processes and Polymers, 10(5), 469-480, (2013).	7		
1	Sergey Ershov, Farid Khelifa, Vincent Lemaure, Jérôme Cornil, Damien Cossement, Youssef Habibi, Philippe Dubois, and Rony Snyders, Free radical generation and concentration in a plasma polymer: the effect of aromaticity, ACS Appl. Mater. Interfaces, 6 (15), 12395-12405 (2014)		5,9	18,3
			Subtotal:	18
			Total I.12:	2488

15. Editor/Membru in Editorial Board & Advisory Board

Mod de calcul alte reviste ale Universitatii: editor, 15 puncte pentru fiecare revista; membru, 10 puncte pentru fiecare revista

Nr.	Revista	Statut		Punctaj:
1	Revista Științifică "V.Adamachi", membru in comitetul de redacție	membru		10,0
			Total I.15:	10

18. Alte premii nationale ale institutiilor culturale

Mod de calcul: 20 puncte / categorie / numar persoane

Nr.	Revista	Nr.		Punctaj:
1	Mentiune speciala la GALA PREMIILOR IN EDUCATIE 2009 – Fundatia Dinu Patriciu, sectiunea Cercetatorul Anului, Categoria Cercetare	1		20,0
			Total I.18:	20

19. Participari la manifestari stiintifice

stiintific, 5 puncte pentru fiecare activitate;

<i>Nr.</i>	<i>Conferinta</i>	<i>Statut</i>		<i>Punctaj:</i>
1	XII th CPPA 2003: Conference on Plasma Physics and Applications, 1 - 3 September 2003, Iasi, Romania	membru comitet organizare		15,0
2	XIII th CPPA 2005: Conference on Plasma Physics and Applications, 27 - 29 October 2005, Iasi, Romania	membru comitet organizare		15,0
3	5 th InterAcademia 2006: 6th International Conference on Global Research and Education (Inter-Academia), 25 - 27 September, Iasi, Romania	membru comitet organizare		15,0
4	ESF Exploratory Workshop EW09-103, 26-30 May 2010, Iasi, Romania, Manipulation Of Biomaterials Surface By Plasma Processing	membru comitet organizare		15,0
5	XV th CPPA 2010: International Conference on Plasma Physics and Applications, 1 - 4 July 2010, Iasi, Romania	membru comitet organizare		15,0
6	CNF 2010: Conferința Națională de Fizică - Iași 23-25 septembrie 2010, Iasi, Romania	membru comitet organizare		5,0
7	10 th InterAcademia 2011: 10th International Conference on Global Research and Education (Inter-Academia), 26-29 September 2011, Sucevita, Romania	membru comitet organizare		15,0
8	XVI th CPPA 2013: International Conference on Plasma Physics and Applications, June 20-25 2013, Magurele, Bucharest, Romania	membru comitet organizare		15,0
9	The XXXII edition of the International Conference on Phenomena in Ionized Gases (ICPIG 2015), July 26th to July 31st, Iasi, Romania	membru comitet organizare		15,0
			Total I.19:	125

Total I: 4244**II. ACTIVITATEA DIDACTICA (30%)****2. Proiecte didactice (infiintare/dotare laboratoare licenta, master, sali workshop, biblioteci proprii facultatilor, departamentelor, laboratoarelor și grupurilor de cercetare)**

Mod de calcul: 40 puncte pentru fiecare activitate

<i>Nr.</i>	<i>Activitate</i>			<i>Punctaj:</i>
1	dotare laboratoare licenta: dispozitiv pentru studiul deviatiei in campuri magnetice si electrice a fasciculelor de electroni; exemplificarea unui filtru de viteze pentru particule elementare (filtrul Wien) Utilizare in cadrul lucrarilor practice din cadrul cursurilor de: Fizica Atomului, Fizica Atomului si Moleculei, Elemente de Structura Materiei			40,0
2	dotare laboratoare licenta: dispozitiv pentru determinarea constantei Planck prin studiul fenomenului de emisie luminii de catre diodele electroluminescente; Utilizare in cadrul lucrarilor practice din cadrul cursurilor de: Fizica Atomului, Fizica Atomului si Moleculei, Elemente de Structura Materiei			40,0
3	dotare laboratoar licenta: tub cu neon pentru realizarea experimentului Franck - Hertz; Utilizare in cadrul lucrarilor practice din cadrul cursurilor de: Fizica Atomului, izica Atomului si Moleculei, Elemente de Structura Materiei			40,0
4	dotare laboratoare licenta: dispozitiv pentru exemplificarea relatiei de incertitudine Heisenberg, prin studiul fenomenului de difractie printr-o fanta; Utilizare in cadrul lucrarilor practice din cadrul cursurilor de: Fizica Atomului, Elemente de Structura Materiei			40,0
5	dotare laboratoare licenta/master: pH-metru digital de laborator de tip bench, solutii stocare si calibrare Utilizare in cadrul lucrarilor practice din cadrul cursurilor de: Biomateriale si Biocompatibilitate, Ecosistem și interacțiunea materiei cu organismele vii			40,0
6	dotare laboratoare master: pompa peristaltica digitala (model New Era) Utilizare in cadrul lucrarilor practice din cadrul cursurilor de: Biomateriale si Biocompatibilitate			40,0

7	dotare laboratoare licenta/master: camera video pentru microscop (model Optika B5), cu posibilitate de conectare la computer prin port USB; Utilizare in cadrul lucrarilor practice din cadrul cursurilor de: Biomateriale si Biocompatibilitate; Aplicatii tehnologice ale fizicii plasmei			40,0
8	dotare laboratoare licenta/master: seringi automate (Eppendorf), gama de volume 100- 1000, 1000-5000 microlitri, varfuri; Utilizare in cadrul lucrarilor practice din cadrul cursurilor de: Biomateriale si Biocompatibilitate			40,0
9	dotare laboratoare licenta: substante pure: tripsina, pepsina, albumina, markeri fluorescenti; Utilizare in cadrul lucrarilor practice din cadrul cursurilor de: Biomateriale si Biocompatibilitate			40,0
10	dotare laboratoare master: dispozitiv pentru determinarea unghiului de contact pe suprafete solide; Utilizare in cadrul lucrarilor practice din cadrul cursurilor de: Biomateriale si Biocompatibilitate; Aplicatii tehnologice ale fizicii plasmei			40,0
11	dotare laboratoare master: lampa Hg bactericida; Utilizare in cadrul lucrarilor practice din cadrul cursurilor de: Biomateriale si Biocompatibilitate;			40,0
12	dotare laboratoare master: dispozitiv pentru studiul fenomenului de difuzie prin membrane artificiale; Utilizare in cadrul lucrarilor practice din cadrul cursurilor de: Biomateriale si Biocompatibilitate;			40,0
			Total II.2:	480

3. Materiale suport curs, seminar, lucrari practice și programe analitice detaliate

Mod de calcul: 10 puncte pentru fiecare activitate

Nr.	Tip material		Punctaj:
1	Lucrari practice FIZICA ATOMULUI SI MOLECULEI: Spectre de rezonanță magnetică: obținerea spectrelor de rezonanță electronică de spin (RES) și determinarea factorului giromagnetic de spin		10,0
2	Lucrari practice ELEMENTE DE STRUCTURA MATERIEI (KINETO II): Studiul distributiei de camp magnetic in cazul unor bobine parcurse de curent electric. Magnetoterapie		10,0
3	Lucrari practice ELEMENTE DE STRUCTURA MATERIEI (KINETO II): Elemente de bioelectricitate. Studiul impedantei muschilor		10,0
4	Lucrari practice ELEMENTE DE STRUCTURA MATERIEI (KINETO II): Studiul formelor de curent utilizate in electroterapie		10,0
5	Lucrari practice ELEMENTE DE STRUCTURA MATERIEI (KINETO II): Studiul luminii solare si a surselor de lumina artificiala. Fototerapie		10,0
6	Lucrari practice ELEMENTE DE STRUCTURA MATERIEI (KINETO II): Studiul absorbtiei luminii in solutii biologice		10,0
7	Lucrari practice ELEMENTE DE STRUCTURA MATERIEI (KINETO II): Studiul efectelor termice ale propagarii ultrasunetelor in medii biologice		10,0
8	Lucrari practice BIOMATERIALE SI BIOCOMPATIBILITATE (master BFM II): Studiul unor proprietăți chimice ale biomaterialelor și denaturării proteinelor folosind spectroscopia IR		10,0
9	Lucrari practice BIOMATERIALE SI BIOCOMPATIBILITATE (master BFM II): Determinarea tensiunilor interfaciale la interfața biomaterial-mediu biologic		10,0
10	Lucrari practice BIOMATERIALE SI BIOCOMPATIBILITATE (master BFM II): Aplicații ale microscopiei de fluorescență în studiul biomaterialelor		10,0
11	Lucrari practice BIOMATERIALE SI BIOCOMPATIBILITATE (master BFM II): Utilizarea microscopiei optice în studiul constituenților sângelui		10,0
12	Lucrari practice BIOMATERIALE SI BIOCOMPATIBILITATE (master BFM II): Studiul cineticii de degradare a unor solutii de biomolecule in camp de radiatii UV		10,0
		Total II.3:	120

Total II: 600

Total general: 4844