Fișa de îndeplinire a standarde minimale pe domenii
- Ionuț Cristian TOPALĂ-

Funcția didactică: lector universitar

Domeniul de abilitare: Fizică

Standarde minimale (definite în anexa nr. 3 la ordinul 6129/20.12.2016 privind aprobarea standardelor minimale necesare și obligatorii pentru conferirea titlurilor didactice învățământul superior a gradelor profesionale de cercetare-dezvoltare, a calității de conducător de doctorat și a atestatului de abilitare):

- $A \geq 2,\ I \geq 4, P \geq 4, C \geq 40, h \geq 10, T \geq 12$.

Indicator	**A**	**I**	**P**	**C**	**h**	**T**
Valori personale	**5,67**	**5,51**	**12,18**	**117,56**	**13**	**22,99**

1. Activitatea didactică și profesională

Cărți în edituri internaționale recunoscute Web of Science în calitate de autor	Capitole de cărți în edituri internaționale recunoscute Web of Science în calitate de autor/ Review-uri în reviste cotate ISI	Cărți în edituri internaționale recunoscute Web of Science în calitate de editor	Cărți, manuale, îndrumare de laborator în edituri naționale sau alte edituri internaționale ca autor, note interne, prezentări susținute pentru aprobarea analizelor de date în cadrul colaborărilor mari	Capitole de cărți în edituri naționale sau alte edituri internaționale ca autor	Lucrări în extenso (cel puțin 3 pagini) publicate în Proceedings-uri indexate ISI	Brevete de invenție internaționale acordate	Brevete de invenție naționale acordate	Director/ responsabil/ coordonator pentru programe de studii, programe de formare continuă, proiecte educaționale și proiecte de infrastructură naționale acordate	Director/ responsabil pentru proiecte de cercetare câștigate in valoare de V euro prin competiție națională sau internațională	**Total criteriu A**
$A_1 = \sum_i 4 / n_i^{ef}$	$A_2 = \sum_i 1 / n_i^{ef}$	$A_3 = \sum_i 0.5 / n_i^{ef}$	$A_4 = \sum_i 0.5 / n_i^{ef}$	$A_5 = \sum_i 0.2 / n_i^{ef}$	$A_6 = \sum_i 0.2 / n_i^{ef}$	$A_7 = \sum_i 3 / n_i^{ef}$	$A_8 = \sum_i 0.5 / n_i^{ef}$	$A_9 = \sum_i 0.5$	$A_{10} = \sum_i V_i / 100.000$	$A = \sum_{i=1}^{10} A_i$
	0.50		0.13	0.10				1.50	3.44	**5.67**

2. Activitatea de cercetare

Articole științifice originale în extenso ca autor	Articole științifice originale în extenso ca prim autor sau autor corespondent,
$I = \sum_i AIS_i / n_i^{ef}$	$P = \sum_i AIS_i$
5.51	**12.18**

Lista articolelor publicate în reviste cotate ISI, în calitate de prim autor sau autor corespondent:

Nr.crt.	Autori	Revista	Vol	Pag	An	prim	n	n_ef	AIS	a_i/n_ef	a_prim
39	C Lazarou,	J PHYS D AP	52	195203	2019	1	7	6.000	0.701	0.117	0.701
33	A. V. Nastut	PHYS PLASM	25	043515	2018	1	4	4.000	0.484	0.121	0.484
34	R. Jijie, A. B	J MATER CH	6	3674	2018	0	11	8.000	0.916	0.115	0.000
35	B. G. Rusu,	ROM R PHY	63	905	2018	0	7	6.000	0.296	0.049	0.000
36	B. Hodoroa	MNRAS	481	2841	2018	1	7	6.000	1.351	0.225	1.351
37	C. Lazarou,	PLASMA SO	27	105007	2018	1	7	6.000	0.804	0.134	0.804
38	I. Sava, I. St	POLYM TES	72	407	2018	0	7	6.000	0.494	0.082	0.000
31	A.V. Nastut	ROM R PHY	69	407	2017	0	7	6.000	0.250	0.042	0.000
32	Ioana Crist	APPL SCI	7	812	2017	1	7	6.000	0.338	0.056	0.338
28	G. B. Rusu,	PLASMA CH	36	341	2016	0	5	5.000	0.481	0.096	0.000
29	T. Teslaru,	MAT CHEM	169	120	2016	1	6	5.500	0.448	0.081	0.448
30	I. Mihaila,	ADV SPACE	58	2416	2016	0	6	5.333	0.449	0.084	0.000
24	I. Sava, A. B	RSC ADVAN	5	10125	2015	0	6	5.500	0.628	0.114	0.000
25	I. Topala, M	APPL PHYS	106	054105	2015	1	2	2.000	1.045	0.523	1.045
26	C. Lazarou,	PLASMA SO	24	035012	2015	0	6	5.500	0.852	0.155	0.000
27	Karol Hens	BIOINTERFA	10	029515	2015	0	12	8.500	0.664	0.078	0.000
22	G.B. Rusu, M	BIOSEN BIO	53	154	2014	0	6	5.500	1.169	0.213	0.000
23	M. Asandul	PLASMA CH	34	1219	2014	1	6	5.500	0.460	0.084	0.460
20	M. Asandul	PLASMA PR	10	469	2013	1	7	6.000	0.722	0.120	0.722
21	A. Nastuta,	J APPL PHYS	113	2E+05	2013	1	3	3.000	0.724	0.241	0.724
17	I. Topala, M	IEEE T PLAS	40	2811	2012	1	3	3.000	0.363	0.121	0.363
18	R. Jijie, C. L	IEEE T PLAS	40	2980	2012	1	4	4.000	0.363	0.091	0.363
19	R. Jijie, V. P	APPL PHYS	101	1E+05	2012	1	3	3.000	1.355	0.452	1.355
12	C. Grigoras	ROM J PHYS	56	54	2011	1	9	7.000	0.095	0.014	0.095
13	A. Nastuta,	J PHYS D AP	44	1E+05	2011	0	5	5.000	0.900	0.180	0.000
14	I. Topala, M	IEEE T PLAS	39	2342	2011	1	2	2.000	0.424	0.212	0.424
15	J.G. Vazque	IEEE T PLAS	39	2170	2011	1	4	4.000	0.424	0.106	0.424
16	A.V. Nastut	IEEE T PLAS	39	2310	2011	0	3	3.000	0.424	0.141	0.000
10	M. Asandul	HOLZFORSC	64	223	2010	0	3	3.000	0.404	0.135	0.000
11	M. Asandul	J APPL PHYS	108	93310	2010	0	4	4.000	0.875	0.219	0.000
8	I. Topala, M	NUCL INSTR	267	442	2009	1	3	3.000	0.350	0.117	0.350
9	I. Topala, M	IEEE T PLAS	37	946	2009	1	4	4.000	0.447	0.112	0.447
5	I. Topala, M	J OPTOELEC	10	2028	2008	1	5	5.000	0.113	0.023	0.113
6	A.V. Nastut	J OPTOELEC	10	2038	2008	0	5	5.000	0.113	0.023	0.000
7	I. Topala, M	REV. CHEM.	59	1263	2008	1	4	4.000	0.030	0.008	0.030
3	I. Topala, M	PLASMA CH	27	95	2007	1	3	3.000	0.749	0.250	0.749
4	I. Topala, M	J ADHES SCI	21	1089	2007	1	2	2.000	0.393	0.197	0.393
2	S. Roualdes	J POWER SO	158	1270	2006	0	6	5.500	1.000	0.182	0.000
1	N. Dumitras	IEEE T PLAS	33	1710	2005	0	3	3.000	0.600	0.200	0.000
	TOTAL					22				5.51	12.18
										I	P

3. Recunoașterea impactului activității

Citări în reviste științifice cu factor de impact care se regăsesc în InCites Journal Citation Reports sau în cărți în edituri recunoscute Web of	Indicele Hirsch
$C = \sum_i c_i / n_i^{ef}$	h
117.56	**13**

Detalii:

Nr.crt.	Autori	Revista	Vol	Pag	An	n	n_ef	Citari ISI	c/n_ef	
1	A. Nastuta,	J PHYS D AP	44	105204	2011	5	5.000	99	19.80	
2	Karol Hens	BIOINTERFA	10	029515	2015	12	8.500	31	3.65	
3	N. Dumitras	IEEE T PLASI	33	1710	2005	3	3.000	29	9.67	
4	M. Asandul	HOLZFORSC	64	223	2010	3	3.000	28	9.33	
5	I. Topala, N	NUCL INSTR	267	442	2009	3	3.000	28	9.33	
6	S. Roualdes	J POWER SC	158	1270	2006	6	5.500	27	4.91	
7	I. Topala, N	PLASMA CH	27	95	2007	3	3.000	25	8.33	
8	C. Lazarou,	PLASMA SO	24	035012	2015	6	5.500	20	3.64	
9	I. Topala, M	APPL PHYS I	106	054105	2015	2	2.000	17	8.50	
10	A.V. Nastuta	J OPTOELEC	10	2038	2008	5	5.000	16	3.20	
11	I. Sava, A. B	RSC ADVAN	5	10125	2015	6	5.500	15	2.73	
12	A. Nastuta,	J APPL PHYS	113	183302	2013	3	3.000	15	5.00	
13	I. Topala, N	J ADHES SCI	21	1089	2007	2	2.000	13	6.50	h
14	I. Topala, M	IEEE T PLASI	37	946	2009	4	4.000	12	3.00	
15	T. Teslaru, I	MAT CHEM	169	120	2016	6	5.500	11	2.00	
16	M. Asandul	J APPL PHYS	108	93310	2010	4	4.000	9	2.25	
17	R. Jijie, V. P	APPL PHYS I	101	144103	2012	3	3.000	8	2.67	
18	A.V. Nastuta	IEEE T PLASI	39	2310	2011	3	3.000	8	2.67	
19	I. Topala, M	J OPTOELEC	10	2028	2008	5	5.000	7	1.40	
20	G.B. Rusu, N	BIOSEN BIO	53	154	2014	6	5.500	6	1.09	
21	C. Grigoras	ROM J PHYS	56	54	2011	9	7.000	4	0.57	
22	C Lazarou, A	J PHYS D AP	52	195203	2019	7	6.000	3	0.50	
23	Ioana Crist	APPL SCI	7	812	2017	7	6.000	3	0.50	
24	R. Jijie, C. L	IEEE T PLASI	40	2980	2012	4	4.000	3	0.75	
25	M. Asandul	PLASMA PR	10	469	2013	7	6.000	3	0.50	
26	I. Topala, N	IEEE T PLASI	40	2811	2012	3	3.000	3	1.00	
27	I. Topala, N	IEEE T PLASI	39	2342	2011	2	2.000	3	1.50	
28	I. Topala, A	Plasma for	1	335	2011	2	2.000	2	1.00	
29	A. V. Nastut	PHYS PLASM	25	043515	2018	4	4.000	2	0.50	
30	G. B. Rusu,	PLASMA CH	36	341	2016	5	5.000	2	0.40	
31	A.V. Nastuta	ROM R PHY	69	407	2017	7	6.000	2	0.33	
32	B. G. Rusu,	ROM R PHY	63	905	2018	7	6.000	1	0.17	
33	M. Asandul	PLASMA CH	34	1219	2014	6	5.500	1	0.18	
	TOTAL							**456.00**	**117.56**	
									C	

4. Punctajul total CNATDCU

T = A + P/2 + I/2 + C/20 + h/5 = 5,67 + 12,18/2 + 5,51/2 + 117,56/20 + 13/5 = 22,99

04.12.2019 Ionut Topala

Detalii cu privire la datele introduse pentru calcul:

- A2: un capitol de carte, 2 autori, editura Springer Publishing

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)

- A4: o lucrare de laborator în manual de laborator

Ionuț Topala, Spectre de rezonanță magnetică: obținerea spectrelor de rezonanță electronică de spin (RES) și determinarea factorului giromagnetic de spin (pag 101-118) în „Lucrări de laborator fizica atomului şi moleculei” (coordonator volum: Gabriela BORCIA), autori Alina Chiper, Catalin Borcia, Ionut Topala, Gabriela Borcia, Editura Universității Alexandru Ioan Cuza din Iaşi (UAIC), 2014 (200 pagini) ISBN: 978-606-714-090-3

- A5: un capitol de carte, 2 autori, editura Universităţii Alexandru Ioan Cuza din Iaşi

Nicoleta Dumitrascu, Ionut Topala, "Medical applications of dielectric barrier discharge" (pp. 103-136) in "Biomaterials and Plasma Processing" edited by Nicoleta Dumitraşcu, Ionuţ Topală, Alexandru Ioan Cuza University Press, Iasi, 2011 (328 pages)

ISBN: 978-973-703-543-1

- A9: responsabil program de studii universitare de masterat, specializarea Metode fizice aplicate în kinetoterapie și recuperare medicală;

- A9: responsabil proiect educațional pentru promovarea rezultatelor activității de cercetarea științifică Noaptea Europeană a Cercetătorilor (2013, 2014-2015);

- A9: responsabil proiect educațional Scoala de Vară JASSY - A Journey Through Hard Sciences, Economics, Social Sciences And The Tourism Industry, modulul Hard Sciences unveiled – an Interdisciplinary Tour (2019-2020) (http://www.uaic.ro/en/jassy/)

- A10: director de proiect pentru proiecte de cercetare câștigate in valoare de V euro prin competiție națională sau internațională, total sume atrase 1618429.89 lei / 344346.78 euro (1 euro = 4,7 lei)

a) 600000 lei, Grant tip CDI ID 486, Programul de Cercetare-Dezvoltare-Inovare - Tehnologie Spatiala si Cercetare Avansata - STAR, STAR_CDI_C3-2015, Synthesis of interstellar dust analogs by plasma methods (PlasmaDust) (2017-2018)

b) 795319.89 lei, Grant tip CDI ID 349, Programul de Cercetare-Dezvoltare-Inovare - Tehnologie Spatiala si Cercetare Avansata - STAR, STAR_CDI_C2-2013, Synthesis of transient complex molecular systems in laboratory plasmas with relevance for molecular astrophysics of hot cores (PlasmaHotCore), (2014-2016)

c) 5820 lei, Cooperari bilaterale Romania – Japonia, UEFISCDI, Capillary plasma jet effects on fluorescent protein films (2014)

d) 20250 lei, Cooperari bilaterale Romania – Slovacia, UEFISCDI, Effects of atmospheric pressure cold discharge plasmas to bacteria and cell cultures, (2013-2014)

e) 35844 lei, Cooperari bilaterale Romania – Cipru, UEFISCDI, Development, diagnostic and modelling of cold plasma jets at atmospheric pressure for direct treatment of living tissues, (2012-2013)

f) 161196 lei, Grant tip PD, Cod CNCSIS 297, Studiul efectelor plasmei la presiune atmosferica asupra unor sisteme biologice supramoleculare / Effects of atmospheric pressure plasma on supramolecular biological systems, (2010-2012)

Lucrări științifice folosite pentru calculul indicatorilor I și P:

1. Constantinos Lazarou, Alina Silvia Chiper, Charalambos Anastassiou, Ionut Topala, Ilarion Mihaila, Valentin Pohoata, George Elias Georghiou, Numerical simulation of a capillary helium and helium-oxygen atmospheric pressure plasma jet: propagation dynamics and interaction with dielectric, J. Phys. D: Appl. Phys. 52 (2019) 195203 (22pp)
2. Ion Sava, Iuliana Stoica, Ilarion Mihaila, Valentin Pohoata, Ionut Topala, George Stoian, Nicoleta Lupu, Nanoscale analysis of laser-induced surface relief gratings on azocopolyimide films before and after gold coating, Polymer Testing 72, 407–415 (2018)
3. Constantinos Lazarou, Charalambos Anastassiou, Ionut Topala, Alina Silvia Chiper, Ilarion Mihaila, Valentin Pohoata, George Elias Georghiou, Numerical simulation of a capillary helium and helium-oxygen atmospheric pressure plasma jet: propagation dynamics and interaction with dielectric, Plasma Sources Science and Technology 27, 105007 (25pp) (2018)
4. Bogdan-George Rusu, Vladut Postolache, Irina-Gabriela Cara, Valentin Pohoata, Ilarion Mihaila, Ionut Topala, Gerard Jitareanu, Method of Fungal Wheat Seeds Disease Inhibition Using Direct Exposure to Air Cold Plasma, Romanian Journal of Physics 63, 905 (2018)
5. Bianca Hodoroaba, Ioana Cristina Gerber, Delia Ciubotaru, Ilarion Mihaila, Marius Dobromir, Valentin Pohoata, Ionut Topala, Carbon 'fluffy' aggregates produced by helium–hydrocarbon high-pressure plasmas as analogues to interstellar dust, Monthly Notices of the Royal Astronomical Society, 481(2), 2841–2850 (2018)
6. Roxana Jijie, Alexandre Barras, Teodora Teslaru, Ionut Topala, Valentin Pohoata, Marius Dobromir, Tetiana Dumych, Julie Boukaert, Sabine Szunerits, Nicoleta Dumitrascu, Rabah Boukherroub, Aqueous medium-induced micropore formation in plasma polymerized polystyrene: An effective route to inhibit bacteria adhesion, Journal of Materials Chemistry B, 6, 3674-3683 (2018)
7. A.V. Nastuta, V. Pohoata, I. Mihaila, I. Topala, Diagnosis of a short-pulse dielectric barrier discharge at atmospheric pressure in helium with hydrogen-methane admixtures, Physics of Plasmas 25, 043515 (2018)

8. Ioana Cristina Gerber, Ilarion Mihaila, Dennis Hein, Andrei Vasile Nastuta, Roxana Jijie, Valentin Pohoata and Ionut Topala, Time Behaviour of Helium Atmospheric Pressure Plasma Jet Electrical and Optical Parameters, Applied Sciences, 7, 812 (2017)

9. A.V. Nastuta, I. Topala, V. Pohoata, I. Mihaila, C. Agheorghiesei, N. Dumitrascu, Atmospheric pressure plasma jets in inert gases: electrical, optical and mass spectrometry diagnosis, Romanian Reports in Physcics, 69(1), 407, (2017)

10. Ilarion Mihaila, Valentin Pohoata, Roxana Jijie, Andrei Vasile Nastuta, Ioana Alexandra Rusu, Ionut Topala, Formation of positive ions in hydrocarbon containing dielectric barrier discharge plasmas, Advances in Space Research, 58(11), 2416–2423 (2016)

11. T. Teslaru, I. Topala, M. Dobromir, V. Pohoata, L. Curecheriu, N. Dumitrascu, Polythiophene films obtained by polymerization under atmospheric pressure plasma conditions, Materials Chemistry and Physics, 169, 120–127 (2016).

12. G. B. Rusu, I. Topala, C. Borcia, N. Dumitrascu, G. Borcia, Effects of Atmospheric-Pressure Plasma Treatment on the Processes Involved in Fabrics Dyeing, Plasma Chemistry Plasma Processing, 36, 341-354 (2016).

13. Karol Hensel, Katarına Kucerova, Barbora Tarabova, Mario Janda, Zdenko Machala, Kaori Sano, Cosmin Teodor Mihai, Mitica Ciorpac, Lucian Dragos Gorgan, Roxana Jijie, Valentin Pohoata, Ionut Topala, Effects of air transient spark discharge and helium plasma jet on water, bacteria, cells, and biomolecules, Biointerphases, 10(2), 029515 (2015).

14. C. Lazarou, D. Koukounis, A.S. Chiper, C. Costin, I. Topala, G.E. Georghiou, Numerical modeling of the effect of the level of nitrogen impurities in a helium parallel plate dielectric barrier discharge, Plasma Sources Science and Technology, 24, 035012 (13pp) (2015).

15. Ionut Topala, Masaaki Nagatsu, Capillary plasma jet: A low volume plasma source for life science applications, Applied Physics Letters, 106, 054105 (2015).

16. Ion Sava, Ada Burescu, Iuliana Stoica, Valentina Musteata, Mariana Cristea, Ilarion Mihaila, Valentin Pohoata and Ionut Topala, Properties of some azo-copolyimide thin films used in the formation of photoinduced surface relief gratings, RSC Advances, 5, 10125-10133 (2015).

17. 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).

18. 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).

19. Mihai Asandulesa, George Rusu, Ionut Topala, Valentin Pohoata, Marius Dobromir, Nicoleta Dumitrascu, Poly (Ethylene Glycol-Co-Styrene) Films Deposited by Plasma Polymerization Reactions at Atmospheric Pressure, The Open Plasma Physics Journal, 2013, 6, (Suppl 1: M3) 14-18, (2013).

20. 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).

21. 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).

22. 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).

23. 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).

24. 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).

25. 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).

26. 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).

27. Ionut Topala, Nicoleta Dumitrascu, Evolution of bullets in helium atmospheric pressure plasma jet, IEEE Transactions on Plasma Science, 39(11), 2342 - 2343, (2011).

28. 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).

29. 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)

30. 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)

31. Mihai Asandulesa, Ionut Topala, Nicoleta Dumitrascu, Effects of plasma treatments on the surface of wood samples, Holzforschung, 64(2), 223-227, (2010).

32. 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).

33. 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).

34. 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).

35. 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).

36. 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).

37. 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).

38. 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).

39. 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).

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