Fișa de autoevaluare privind standarde minimale pe domenii pe domenii ale Universității
- Ionuț Cristian TOPALĂ-

Funcția didactică: Conferențiar universitar

Post concurs: Profesor universitar poziția 12, domeniul 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	6,03	6,03	12,52	196,14	15	28,11
Procentaj de realizare a punctajului minim	301 %	150 %	313 %	490 %	150 %	234 %

1. Activitatea didactică și profesională

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	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	Director/ responsabil pentru proiecte de cercetare câștigate in valoare de V euro prin competiție națională sau internațională	**Total criteriu A**
$A_1 = \sum_i 4 / n_i^{ef}$	$A_2 = \sum_i 1 / n_i^{ef}$	$A_3 = \sum_i 0.5 / n_i^{ef}$	$A_4 = \sum_i 0.5 / n_i^{ef}$	$A_5 = \sum_i 0.2 / n_i^{ef}$	$A_6 = \sum_i 0.2 / n_i^{ef}$	$A_7 = \sum_i 3 / n_i^{ef}$	$A_8 = \sum_i 0.5 / n_i^{ef}$	$A_9 = \sum_i 0.5$	$A_{10} = \sum_i V_i / 100.000$	$A = \sum_{i=1}^{10} A_i$
0.00	0.50	0.00	0.13	0.10	0.00	0.00	0.00	2.00	3.30	**6.03**

2. Activitatea de cercetare

2. Activitatea de cercetare	
Articole științifice originale în extenso ca autor	Articole științifice originale în extenso ca prim autor sau autor corespondent,
$I=\sum_i AIS_i / n_i^{ef}$	$P=\sum_i AIS_i$
6.03	**12.52**

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

	Titlu articol	Autori	Jurnal	An	Vol	Pag	prim autor/ corespondent	numar autori	Numar efectiv	AIS	I	P
3	The effect of Penning ionization reactions on the evolution of He with O2 admixtures plasma jets	C Lazarou, C Anastassiou, I Topala, A S Chiper, I Mihaila, V Pohoata, G E Georghiou	J PHYS D APPL PHYS	2023	56	065203	1	7	6.00	0.672	0.11	0.67
4	Numerical simulation of the effect of water admixtures on the evolution of a helium/dry air discharge	C Lazarou, A S Chiper, C Anastassiou, I Topala, I Mihaila, V Pohoata, G E Georghiou	J PHYS D APPL PHYS	2019	52	195203	1	7	6.00	0.702	0.12	0.70
5	Diagnosis of a short-pulse dielectric barrier discharge at atmospheric pressure in helium with hydrogen-methane admixtures	A. V. Nastuta, V. Pohoata, I. Mihaila, I. Topala	PHYS PLASMAS	2018	25	043515	1	4	4.00	0.484	0.12	0.48
6	Carbon 'fluffy' aggregates produced by helium–hydrocarbon high-pressure plasmas as analogues to interstellar dust	B. Hodoroaba, I. C. Gerber, D. Ciubotaru, I. Mihaila, M. Dobromir, V. Pohoata, I. Topala	MNRAS	2018	481	2841	1	7	6.00	1.351	0.23	1.35
7	Numerical simulation of a capillary helium and helium-oxygen atmospheric pressure plasma jet: propagation dynamics and interaction with dielectric	C. Lazarou, C. Anastassiou, I. Topala, A. S. Chiper, I. Mihaila, V. Pohoata, G. E. Georghiou	PLASMA SOURCES SCI TECHN	2018	27	105007	1	7	6.00	0.804	0.13	0.80
8	Polythiophene films obtained by polymerization under atmospheric pressure plasma conditions	T. Teslaru, I. Topala, M. Dobromir, V. Pohoata, L. Curecheriu, N. Dumitrascu	MAT CHEM PHYS	2016	169	120	1	6	5.50	0.448	0.08	0.45

2	Titlu articol	Autori	Jurnal	An	Vol	Pag	prim autor/ corespondent	numar autori	Numar efectiv	AIS	I	P
9	Capillary plasma jet: A low volume plasma source for life science applications	I. Topala, M. Nagastu	APPL PHYS LETT	2015	106	054105	1	2	2.00	1.045	0.52	1.05
10	Chemical Investigation on Various Aromatic Compounds Polymerization in low Pressure Helium Plasma	M. Asandulesa, I. Topala, YM Legrand, S. Roualdes, V. Rouessac, V. Harabagiu	PLASMA CHEM PLASMA P	2014	34	1219	1	6	5.50	0.460	0.08	0.46
11	Chemically polymerization mechanism of aromatic compounds under atmospheric pressure plasma conditions	M. Asandulesa, I. Topala, V. Pohoata, Y.M. Legrand, M. Dobromir, M. Totolin, N. Dumitrascu	PLASMA PROCESS POLYM	2013	10	469	1	7	6.00	0.722	0.12	0.72
12	Atmospheric pressure plasma jet - living tissue interface: electrical, optical and spectral characterization	A. Nastuta, V. Pohoata, I. Topala	J APPL PHYS	2013	113	2E+05	1	3	3.00	0.724	0.24	0.72
13	Experimental and Theoretical Investigations of Dielectric-Barrier Plasma Jet in Helium	I. Topala, N. Dumitrascu, D.G. Dimitriu	IEEE T PLASMA SCI	2012	40	2811	1	3	3.00	0.363	0.12	0.36
14	Effects of Atmospheric-Pressure Plasma Jet on Pepsin Structure and Function	R. Jijie, C. Luca, V. Pohoata, I. Topala	IEEE T PLASMA SCI	2012	40	2980	1	4	4.00	0.363	0.09	0.36
15	Thermal behavior of bovine serum albumin after exposure to barrier discharge helium plasma jet	R. Jijie, V. Pohoata, I. Topala	APPL PHYS LETT	2012	101	1E+05	1	3	3.00	1.355	0.45	1.36

2	Titlu articol	Autori	Jurnal	An	Vol	Pag	prim autor/ corespondent	numar autori	Numar efectiv	AIS	I	P
16	Influence of atmospheric pressure plasma treatment on epithelial regeneration process	C. Grigoras, I. Topala, A. Nastuta, D. Jitariu, I. Florea, L. Badescu, D. Ungureanu, M. Badescu, N. Dumitrascu	ROM J PHYS	2011	56	54	1	9	7.00	0.095	0.01	0.10
17	Evolution of bullets in helium atmospheric pressure plasma jet	I. Topala, N. Dumitrascu	IEEE T PLASMA SCI	2011	39	2342	1	2	2.00	0.424	0.21	0.42
18	Fast imaging study of polymerization plasmas at atmospheric pressure	J.G. Vazquez, M. Asandulesa, I. Topala, N. Dumitrascu	IEEE T PLASMA SCI	2011	39	2170	1	4	4.00	0.424	0.11	0.42
19	Properties of the acrylic acid polymers obtained by atmospheric pressure plasma polymerization	I. Topala, N. Dumitrascu, G. Popa	NUCL INSTRUM METH B	2009	267	442	1	3	3.00	0.350	0.12	0.35
20	Hydrophobic Coatings Obtained in Atmospheric Pressure Plasma	I. Topala, M. Asandulesa, D. Spridon, N. Dumitrascu	IEEE T PLASMA SCI	2009	37	946	1	4	4.00	0.447	0.11	0.45
21	Application of dielectric barrier discharge for plasma polymerization processes	I. Topala, M. Asandulesa, N. Dumitrascu, G. Popa, J. Durand	J OPTOELECTRON ADV M	2008	10	2028	1	5	5.00	0.113	0.02	0.11
22	A comparative study of plasma effects on the PET surfaces	I. Topala, N. Dumitrascu, G. Popa, J. Durand	REV. CHEM. (BUCHAREST)	2008	59	1263	1	4	4.00	0.030	0.01	0.03
23	Influence of plasma treatments on PET and PET+TiO2 hemocompatibility	I. Topala, N. Dumitrascu, V. Pohoata	PLASMA CHEM PLASMA P	2008	28	535	1	3	3.00	0.749	0.25	0.75
24	Dynamics of the wetting process on dielectric barrier discharge (DBD) treated wood surfaces	I. Topala, N. Dumitrascu	J ADHES SCI TECHNOL	2007	21	1089	1	2	2.00	0.393	0.20	0.39
25												

2	Titlu articol	Autori	Jurnal	An	Vol	Pag	prim autor/ corespondent	numar autori	Numar efectiv	AIS	I	P
26	BaTiO3 nanocubes-Gelatin composites for piezoelectric harvesting: Modeling and experimental study	C.E. Ciomaga, N. Horchidan, L. Padurariu, R.S. Stirbu, V. Tiron, F.M. Tufescu, I. Topala, O. Condurache, M. Botea, I. Pintilie, L. Pintilie, A. Rotaru, G. Caruntu, L. Mitoseriu	CERAMICS INTERNATIONAL	2022	48	25880	0	14	9.50	0.588	0.06	0.00
27	Photodesign and fabrication of surface relief gratings on films of polyimide-based supramolecular systems obtained using host-guest strategy	I. Sava, I. Stoica, I. Mihaila, I. Topala, A. I. Barzic	POLYM	2022	249	124829	0	5	5.00	0.600	0.12	0.00
28	Investigation of surface relief gratings on azo-copolyimide films using atomic force microscopy	I. Sava, I. Stoica, I. Mihaila, I. Topala	REV ROM CHIM	2021	66	193	0	4	4.00	0.047	0.01	0.00
29	Evolution of Electrical and Optical Parameters of a Helium Plasma Jet in Interaction With Liquids	I. C. Gerber, I. Mihaila, V. Pohoata, I. Topala	IEEE T PLASMA SCI	2021	49	557	0	4	4.00	0.330	0.08	0.00
30	Photoinduced properties of "T-type" polyimides with azobenzene or azopyridine moieties	K. Bujak, I. Sava, I. Stoica, V. Tiron, I. Topala, R. Węgłowski, E. Schab-Balcerzak, J. Konieczkowska	EUR POLYM J	2020	126	109563	0	8	6.50	0.665	0.10	0.00
31	Synthesis and characterization of (co)polymeric films obtained under atmospheric plasma conditions	V. Chiriac, G. Bulai, L. Curecheriu, I. Topala, N. Dumitrascu	MATER LETT	2020	264	127062	0	5	5.00	0.463	0.09	0.00

2	Titlu articol	Autori	Jurnal	An	Vol	Pag	prim autor/ corespondent	numar autori	Numar efectiv	AIS	I	P
32	Aqueous medium-induced micropore formation in plasma polymerized polystyrene: An effective route to inhibit bacteria adhesion	R. Jijie, A. Barras, T. Teslaru, I. Topala, V. Pohoata, M. Dobromir, T. Dumych, J. Boukaert, S. Szunerits, N. Dumitrascu, R. Boukherroub	J MATER CHEM B	2018	6	3674	0	11	8.00	0.916	0.11	0.00
33	Method of Fungal Wheat Seeds Disease Inhibition Using Direct Exposure to Air Cold Plasma	B. G. Rusu, V. Postolache, I. Cara, V. Pohoata, I. Mihaila, I. Topala, G. Jitareanu	ROM R PHYS	2018	63	905	0	7	6.00	0.296	0.05	0.00
34	Nanoscale analysis of laser-induced surface relief gratings on azocopolyimide films before and after gold coating	I. Sava, I. Stoica, I. Mihaila, V. Pohoata, I. Topala, G. Stoian, N. Lupu	POLYM TEST	2018	72	407	0	7	6.00	0.494	0.08	0.00
35	Atmospheric pressure plasma jets in inert gases: electrical, optical and mass spectrometry diagnosis	A.V. Nastuta, I. Topala, V. Pohoata, I. Mihaila, C. Agheorghiesei, N. Dumitrascu	ROM R PHYS	2017	69	407	0	7	6.00	0.250	0.04	0.00
36	Effects of Atmospheric-Pressure Plasma Treatment on the Processes Involved in Fabrics Dyeing	G. B. Rusu, I. Topala, C. Borcia, N. Dumitrascu, G. Borcia	PLASMA CHEM PLASMA P	2016	36	341	0	5	5.00	0.481	0.10	0.00
37	Formation of positive ions in hydrocarbon containing dielectric barrier discharge plasmas	I. Mihaila, V. Pohoata, R. Jijie, A.V. Nastuta, I.A. Rusu, I. Topala	ADV SPACE RES	2016	58	2416	0	6	5.50	0.449	0.08	0.00

	Titlu articol	Autori	Jurnal	An	Vol	Pag	prim autor/ corespondent	numar autori	Numar efectiv	AIS	I	P
38	Properties of some azo-copolyimide thin films used in the formation of photoinduced surface relief gratings	I. Sava, A. Burescu, I. Stoica, V. Musteata, M. Cristea, I. Mihaila, V. Pohoata, I. Topala	RSC ADVANCES	2015	5	10125	0	6	5.50	0.628	0.11	0.00
39	Numerical modeling of the effect of the level of nitrogen impurities in a helium parallel plate dielectric barrier discharge	C. Lazarou, D. Koukounis, A.S. Chiper, C. Costin, I. Topala, G.E. Georghiou	PLASMA SOURCES SCI TECHNOL	2015	24	035012	0	6	5.50	0.852	0.15	0.00
40	Effects of air transient spark discharge and helium plasma jet on water, bacteria, cells, and biomolecules	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	BIOINTERPHASES	2015	10	029515	0	12	8.50	0.664	0.08	0.00
41	Atmospheric pressure plasma polymers for tuned QCM detection of protein adhesion	G.B. Rusu, M. Asandulesa, I. Topala, V. Pohoata, N. Dumitrascu, M. Barboiu	BIOSEN BIOELECTRON	2014	53	154	0	6	5.50	1.169	0.21	0.00
42	Stimulation of wound healing by helium atmospheric pressure plasma treatment	A. Nastuta, I. Topala, C. Grigoras, V. Pohoata, G. Popa	J PHYS D APPL PHYS	2011	44	1E+05	0	5	5.00	0.900	0.18	0.00
43	ICCD Imaging Of Atmospheric Pressure Plasma Jet Behavior In Different Electrodes Configurations	A.V. Nastuta, I. Topala, G. Popa	IEEE T PLASMA SCI	2011	39	2310	0	3	3.00	0.424	0.14	0.00
44	Effects of plasma treatments on the surface of wood samples	M. Asandulesa, I. Topala, N. Dumitrascu	HOLZFORSCHUNG	2010	64	223	0	3	3.00	0.404	0.13	0.00

	Titlu articol	Autori	Jurnal	An	Vol	Pag	prim autor/ corespondent	numar autori	Numar efectiv	AIS	I	P
45	Influence of operational parameters on plasma polymerization process at atmospheric pressure	M. Asandulesa, I. Topala, V. Pohoata, N. Dumitrascu	J APPL PHYS	2010	108	93310	0	4	4.00	0.875	0.22	0.00
46	Surface modifications of polymer induced by atmospheric DBD plasma in different configurations	A.V. Nastuta, G.B. Rusu, I. Topala, A.S. Chiper, G. Popa	J OPTOELECTRON ADV M	2008	10	2038	0	5	5.00	0.113	0.02	0.00
47	Sulfonated polystyrene-type plasma-polymerized membranes for miniature direct methanol fuel cells	S. Roualdes, I. Topala, H. Mahdjoub, V. Rouessac, P. Sistat, J. Durand	J POWER SOURCES	2006	158	1270	0	6	5.50	1.000	0.18	0.00
48	Dielectric Barrier Discharge Technique in Improving the Wettability and Adhesion Properties of Polymer Surfaces	N. Dumitrascu, I. Topala, G. Popa	IEEE T PLASMA SCI	2005	33	1710	0	3	3.00	0.600	0.20	0.00
49		TOTAL									6.03	12.52

3. Recunoașterea impactului activității

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 Science	Indicele Hirsch
$C = \sum_i c_i / n_i^{ef}$	h
196.14	**15**

Detalii:

	CITARI									
	Titlu articol	Autori	Jurnal	An	Vol	Pag	n (numar autori)	numar efectiv	numar citari (fara autocitari)	c/n_ef
3	Stimulation of wound healing by helium atmospheric pressure plasma treatment	A. Nastuta, I. Topala, C. Grigoras, V. Pohoata, G. Popa	J PHYS D APPL PHYS	2011	44	105204	5	5.0	166	33.20
4	Effects of air transient spark discharge and helium plasma jet on water, bacteria, cells, and biomolecules	Karol Hensel, Katarina Kucerova, Barbora Tarabova, Mario Janda, Zdenko Machala, Kaori Sano, Cosmin Teodor Mihai, Mitica Ciorpac, Lucian Dragos Gorgan, Roxana Jijie, Valentin Pohoata, Ionut Topala	BIOINTERFACES	2015	10	029515	12	8.5	62	7.29
5	Numerical modeling of the effect of the level of nitrogen impurities in a helium parallel plate dielectric barrier discharge	C. Lazarou, D. Koukounis, A.S. Chiper, C. Costin, I. Topala, G.E. Georghiou	PLASMA SOURCES SCI TECHNOL	2015	24	035012	6	5.5	56	10.18
6	Dielectric Barrier Discharge Technique in Improving the Wettability and Adhesion Properties of Polymer Surfaces	N. Dumitrascu, I. Topala, G. Popa	IEEE T PLASMA SCI	2005	33	1710	3	3.0	44	14.67
7	Sulfonated polystyrene-type plasma-polymerized membranes for miniature direct methanol fuel cells	S. Roualdes, I. Topala, H. Mahdjoub, V. Rouessac, P. Sistat, J. Durand	J POWER SOURCES	2006	158	1270	6	5.5	40	7.27
8	Effects of plasma treatments on the surface of wood samples	M. Asandulesa, I. Topala, N. Dumitrascu	HOLZFORSCHUNG	2010	64	223	3	3.0	38	12.67
9	Properties of the acrylic acid polymers obtained by atmospheric pressure plasma polymerization	I. Topala, N. Dumitrascu, G. Popa	NUCL INSTRUM METH B	2009	267	442	3	3.0	35	11.67
10	Influence of plasma treatments on PET and PET+TiO2 hemocompatibility	I. Topala, N. Dumitrascu, V. Pohoata	PLASMA CHEM PLASMA P	2008	28	535	3	3.0	32	10.67
11	Numerical simulation of a capillary helium and helium-oxygen atmospheric pressure plasma jet: propagation dynamics and interaction with dielectric	C. Lazarou, C. Anastassiou, I. Topala, A. S. Chiper, I. Mihaila, V. Pohoata, G. E. Georghiou	PLASMA SOURCES SCI TECHNOL	2018	27	105007	7	6.0	30	5.00
12	Atmospheric pressure plasma jet - living tissue interface: electrical, optical and spectral characterization	A. Nastuta, V. Pohoata, I. Topala	J APPL PHYS	2013	113	183302	3	3.0	29	9.67
13	Properties of some azo-copolyimide thin films used in the formation of photoinduced surface relief gratings	I. Sava, A. Burescu, I. Stoica, V. Musteata, M. Cristea, I. Mihaila, V. Pohoata, I. Topala	RSC ADVANCES	2015	5	10125	6	5.5	28	5.09

14	Surface modifications of polymer induced by atmospheric DBD plasma in different configurations	A.V. Nastuta, G.B. Rusu, I. Topala, A.S. Chiper, G. Popa	J OPTOELECTRON ADV M	2008	10	2038	5	5.0	27	5.40	
15	Polythiophene films obtained by polymerization under atmospheric pressure plasma conditions	T. Teslaru, I. Topala, M. Dobromir, V. Pohoata, L. Curecheriu, N. Dumitrascu	MAT CHEM PHYS	2016	169	120	6	5.5	26	4.73	
16	Capillary plasma jet: A low volume plasma source for life science applications	I. Topala, M. Nagastu	APPL PHYS LETT	2015	106	054105	2	2.0	24	12.00	
17	Numerical simulation of the effect of water admixtures on the evolution of a helium/dry air discharge	C Lazarou, A S Chiper, C Anastassiou, I Topala, I Mihaila, V Pohoata, G E Georghiou	J PHYS D APPL PHYS	2019	52	195203	7	6.0	18	3.00	h
18	Dynamics of the wetting process on dielectric barrier discharge (DBD) treated wood surfaces	I. Topala, N. Dumitrascu	J ADHES SCI TECHNOL	2007	21	1089	2	2.0	15	7.50	
19	Influence of operational parameters on plasma polymerization process at atmospheric pressure	M. Asandulesa, I. Topala, V. Pohoata, N. Dumitrascu	J APPL PHYS	2010	108	93310	4	4.0	12	3.00	
20	Hydrophobic Coatings Obtained in Atmospheric Pressure	I. Topala, M. Asandulesa, D. Spridon, N. Dumitrascu	IEEE T PLASMA SCI	2009	37	946	4	4.0	11	2.75	
21	Photoinduced properties of "T-type" polyimides with azobenzene or azopyridine moieties	K. Bujak, I. Sava, I. Stoica, V. Tiron, I. Topala, R. Węgłowski, E. Schab-Balcerzak, J. Konieczkowska	EUR POLYM J	2020	126	109563	8	6.5	11	1.69	
22	ICCD Imaging Of Atmospheric Pressure Plasma Jet Behavior In Different Electrodes Configurations	A.V. Nastuta, I. Topala, G. Popa	IEEE T PLASMA SCI	2011	39	2310	3	3.0	10	3.33	
23	Application of dielectric barrier discharge for plasma polymerization processes	I. Topala, M. Asandulesa, N. Dumitrascu, G. Popa, J. Durand	J OPTOELECTRON ADV M	2008	10	2028	5	5.0	9	1.80	
24	Thermal behavior of bovine serum albumin after exposure to barrier discharge helium plasma jet	R. Jijie, V. Pohoata, I. Topala	APPL PHYS LETT	2012	101	144103	3	3.0	9	3.00	
25	Atmospheric pressure plasma polymers for tuned QCM detection of protein adhesion	G.B. Rusu, M. Asandulesa, I. Topala, V. Pohoata, N. Dumitrascu, M. Barboiu	BIOSEN BIOELECTRON	2014	53	154	6	5.5	8	1.45	
26	Influence of atmospheric pressure plasma treatment on epithelial regeneration process	C. Grigoras, I. Topala, A. Nastuta, D. Jitariu, I. Florea, L. Badescu, D. Ungureanu, M. Badescu, N. Dumitrascu	ROM J PHYS	2011	56	54	9	7.0	7	1.00	
27	Nanoscale analysis of laser-induced surface relief gratings on azocopolyimide films before and after gold coating	I. Sava, I. Stoica, I. Mihaila, V. Pohoata, I. Topala, G. Stoian, N. Lupu	POLYM TEST	2018	72	407	7	6.0	7	1.17	
28	Chemically polymerization mechanism of aromatic compounds under atmospheric pressure plasma conditions	M. Asandulesa, I. Topala, V. Pohoata, Y.M. Legrand, M. Dobromir, M. Totolin, N. Dumitrascu	PLASMA PROCESS POLYM	2013	10	469	7	6.0	7	1.17	
29	Chemical Investigation on Various Aromatic Compounds Polymerization in low Pressure Helium Plasma	M. Asandulesa, I. Topala, YM Legrand, S. Roualdes, V. Rouessac, V. Harabagiu	PLASMA CHEM PLASMA P	2014	34	1219	6	5.5	6	1.09	
30	Experimental and Theoretical Investigations of Dielectric-Barrier Plasma Jet in Helium	I. Topala, N. Dumitrascu, D.G. Dimitriu	IEEE T PLASMA SCI	2012	40	2811	3	3.0	6	2.00	
31	Atmospheric pressure plasma jets in inert gases: electrical, optical and mass spectrometry diagnosis	A.V. Nastuta, I. Topala, V. Pohoata, I. Mihaila, C. Agheorghiesei, N. Dumitrascu	ROM R PHYS	2017	69	407	7	6.0	6	1.00	
32	Photodesign and fabrication of surface relief gratings on films of polyimide-based supramolecular systems obtained using host-guest strategy	I. Sava, I. Stoica, I. Mihaila, I. Topala, A. I. Barzic	POLYM	2022	249	124829	5	5.0	6	1.20	
33	Viability and Cell Biology for HeLa and Vero Cells after Exposure to Low-Temperature Air Dielectric Barrier Discharge Plasma	I.C. Gerber, C.M. Mihai, L. Gorgan, M. Ciorpac, A. Nita, V. Pohoata, I. Mihaila, I. Topala	Plasma Medicine	2017	7	159	8	6.5	5	0.77	
34	Helium atmospheric pressure plasma jet: diagnostics and application for burned wounds healing	I. Topala, A.V. Nastuta	Plasma for bio-decontamination, medicine and food security	2012	1	355	2	2.0	5	2.50	

35	Method of Fungal Wheat Seeds Disease Inhibition Using Direct Exposure to Air Cold Plasma	B. G. Rusu, V. Postolache, I. Cara, V. Pohoata, I. Mihaila, I. Topala, G. Jitareanu	ROM R PHYS	2018	63	905	7	6.0	4	0.67
36	Poly (Ethylene Glycol-Co-Styrene) Films Deposited by Plasma Polymerization Reactions at Atmospheric Pressure	M. Asandulesa, G. Rusu, I. Topala, V. Pohoata, M. Dobromir, N. Dumitrascu	The Open Plasma Physics Journa	2013	6	14	6	5.5	4	0.73
37	Effects of Atmospheric-Pressure Plasma Jet on Pepsin Structure and Function	R. Jijie, C. Luca, V. Pohoata, I. Topala	IEEE T PLASMA SCI	2012	40	2980	4	4.0	4	1.00
38	Evolution of Electrical and Optical Parameters of a Helium Plasma Jet in Interaction With Liquids	I. C. Gerber, I. Mihaila, V. Pohoata, I. Topala	IEEE T PLASMA SCI	2021	49	557	4	4.0	4	1.00
39	Diagnosis of a short-pulse dielectric barrier discharge at atmospheric pressure in helium with hydrogen-methane admixtures	A. V. Nastuta, V. Pohoata, I. Mihaila, I. Topala	PHYS PLASMAS	2018	25	043515	4	4.0	3	0.75
40	Effects of Atmospheric-Pressure Plasma Treatment on the Processes Involved in Fabrics Dyeing	G. B. Rusu, I. Topala, C. Borcia, N. Dumitrascu, G. Borcia	PLASMA CHEM PLASMA P	2016	36	341	5	5.0	3	0.60
41	Evolution of bullets in helium atmospheric pressure plasma jet	I. Topala, N. Dumitrascu	IEEE T PLASMA SCI	2011	39	2342	2	2.0	3	1.50
42	BaTiO3 nanocubes-Gelatin composites for piezoelectric harvesting: Modeling and experimental study	C.E. Ciomaga, N. Horchidan, L. Padurariu, R.S. Stirbu, V. Tiron, F.M. Tufescu, I. Topala, O. Condurache, M. Botea, I. Pintilie, L. Pintilie, A. Rotaru, G. Caruntu, L. Mitoseriu	CERAMICS INTERNATIONAL	2022	48	25880	14	9.5	3	0.32
43	Carbon 'fluffy' aggregates produced by helium–hydrocarbon high-pressure plasmas as analogues to interstellar dust	B. Hodoroaba, I. C. Gerber, D. Ciubotaru, I. Mihaila, M. Dobromir, V. Pohoata, I. Topala	MNRAS	2018	481	2841	7	6.0	2	0.33
44	Synthesis and characterization of (co)polymeric films obtained under atmospheric plasma conditions	V. Chiriac, G. Bulai, L. Curecheriu, I. Topala, N. Dumitrascu	MATER LETT	2020	264	127062	5	5.0	1	0.20
45	Aqueous medium-induced micropore formation in plasma polymerized polystyrene: An effective route to inhibit bacteria adhesion	R. Jijie, A. Barras, T. Teslaru, I. Topala, V. Pohoata, M. Dobromir, T. Dumych, J. Boukaert, S. Szunerits, N. Dumitrascu, R. Boukherroub	J MATER CHEM B	2018	6	3674	11	8.0	1	0.13
46		**Total**								**196.14**
47										
48									**827.00**	

4. Punctajul total CNATDCU

T = A + P/2 + I/2 + C/20 + h/5 = 6,03 + 12,52/2 + 6,03/2 + 196,14/20 + 15/5 = 28,11

12.12.2023 Ionut Topala

Detalii cu privire la datele introduse pentru calculul indicatorului A:

- 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 (2018-2021), specializarea Fizică medicală aplicată (din 2021);

- A9: Responsabil proiect CNFIS-FDI-2022-0553, Domeniul 7: corelarea ofertei educaționale cu cererea pieței muncii, consilierea și orientarea în carieră (2022); Titlul proiectului: Dezvoltarea relațiilor interinstituționale și a parteneriatelor cu mediul economico-social prin corelarea ofertei educaționale cu cererea pieței muncii, consilierea și orientarea în carieră (ACCESS 2.0)

- A9: Responsabil proiect educațional pentru promovarea rezultatelor activității de cercetarea științifică Noaptea Europeană a Cercetătorilor (2013, 2014-2015) si proiecte extracuricullare pentri inititarea studentilor UAIC in activitati de comunicare a stiintei (2017, 2019, 2020, 2021);

- 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 (2019-2023) (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 / 330291.8 euro (1 euro = 4,9 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)

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2. Cristina Elena Ciomaga, Nadejda Horchidan, Leontin Padurariu, Radu Stefan Stirbu, Vasile Tiron, Florin Mihai Tufescu, Ionut Topala, Oana Condurache, Mihaela Botea, Ioana Pintilie, Lucian Pintilie, Aurelian Rotaru, Gabriel Caruntu, Liliana Mitoseriu, BaTiO3 nanocubes-Gelatin composites for piezoelectric harvesting: Modeling and experimental study, Ceramics International, 48(18), 25880-25893 (2022)
3. Ion Sava, Iuliana Stoica, Ionut Topala, Ilarion Mihaila, Andreea Irina Barzi, Photodesign and fabrication of surface relief gratings on films of polyimide-based supramolecular systems obtained using host-guest strategy, Polymer, 249, 124829 (2022)
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5. Ioana Cristina Gerber, Ilarion Mihaila, Valentin Pohoata, Ionut Topala, Evolution of Electrical and Optical Parameters of a Helium Plasma Jet in Interaction With Liquids, IEEE Transactions On Plasma Science, 49(2), 557 - 562 (2021)
6. Karolina Bujak, Ion Sava, Iuliana Stoica, Vasile Tiron, Ionut Topala, Rafał Węgłowski, Ewa Schab-Balcerzak, Jolanta Konieczkowska, Photoinduced properties of “T-type” polyimides with azobenzene or azopyridine moieties, European Polymer Journal 126, 109563 (2020)

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9. 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)

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