FIȘA DE ÎNDEPLINIRE A STANDARDELOR MINIMALE CNATDCU – DOMENIUL FIZICĂ

Dan-Gheorghe Dimitriu

Activitatea didactică și de cercetare

Nr. ctr.	Tipul activitatilor	Indicatori	Punctaj
1	Cărti în edituri internaționale recunoscute Web of Science în calitate de autor	$A_1 = \sum_i 4/n_i^{ef}$	0
2	Capitole de cărți în edituri internaționale recunoscute Web of Science în calitate de autor/ Review-uri în reviste cotate lSI	$A_2 = \sum_i 1/n_i^{ef}$	2.3333
2.1	D. G. Dimitriu, M. Agop – Analysis of Low-Frequency Instabilities in Low-Temperature Magnetized Plasma, Chapter 5 in *Fractional Dynamics, Anomalous Transport and Plasma Science*, Ed. C. H. Skiadas, Springer Nature Switzerland AG, Cham, 2018, pp. 93-106, ISBN 978-3-030-04482-4	$A_{21} = 1/2 = 0.5$	0.5
2.2	S. Irimiciuc, D. G. Dimitriu, M. Agop – Theoretical Modeling of the Interaction Between Two Complex Space Charge Structures in Low-Temperature Plasma, Chapter 6 in *Fractional Dynamics, Anomalous Transport and Plasma Science*, Ed. C. H. Skiadas, Springer Nature Switzerland AG, Cham, 2018, pp. 107-125, ISBN 978-3-030-04482-4	$A_{22} = 1/3 = 0.3333$	0.3333
2.3	D. O. Dorohoi, D. G. Dimitriu – Spectral Insights on Intermolecular Interactions in Solutions of Some Zwitterionic Compounds, Chapter 3 in *Electromagnetic Radiation in Analysis and Design of Organic Materials: Electronic and Biotechnology Applications*, Eds. D. O. Dorohoi, A. I. Barzic, M. Aflori, CRC Press, Taylor and Francis Group, Boca Raton, 2017, pp. 41-58, ISBN 978-1-4987-7580-9	$A_{23} = 1/2 = 0.5$	0.5
2.4	D. G. Dimitriu, M. Agop – Chaos in Plasma Physics, Chapter 19 in *Handbook of Applications of Chaos Theory*, Eds. C. H. Skiadas, C. Skiadas, CRC Press, Taylor and Francis Group, Boca Raton, 2016, pp. 321-403, ISBN 978-1-4665-9043-4	$A_{24} = 1/2 = 0.5$	0.5

2.5	D. G. Dimitriu, S. Chiriac – Intermittency scenario of transition to chaos in plasma in connection with the nonlinear dynamics of a double layer structure, in *Chaos, Complexity and Transport – Theory and Applications*, eds. C. Chandre, X. Leoncini and G. Zaslavsky, World Scientific, 2008, pp. 237-244, ISBN 978-981-281-879-9;	$A_{24} = 1/2 = 0.5$	0.5
3	Cărți în edituri internaționale recunoscute Web of Science în calitate de editor	$A_3 = \sum_i 0.5/n_i^{ef}$	0
4	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	$A_4 = \sum_i 0.5/n_i^{ef}$	1.25
4.1	D. G. Dimitriu – Rezonanța magnetică nucleară în medicină și biologie: note de curs, Ed. Pim, Iași, 2008, ISBN 978-973-716-886-0	$A_{41} = 0.5/1 = 0.5$	0.5
4.2	D. G. Dimitriu – Instabilități electrostatice în plasma mașinii Q, Casa Editorială Demiurg, Iași, 2006, ISBN 973-7603-27-3	$A_{42} = 0.5/1 = 0.5$	0.5
4.3	S. Gurlui, D. G. Dimitriu – Straturi duble în plasmă, Ed. Tehnopress, Iași, 2005, ISBN 973-702-155-X	$A_{43} = 0.5/2 = 0.25$	0.25
5	Capitole de cărți în edituri naționale sau alte edituri internaționale ca autor	$A_5 = \sum_i 0.2/n_i^{ef}$	0.14
	G. Strat, M. Strat, S. Gurlui, C. Focsa, D. G. Dimitriu – Self-organization phenomena in polymer and plasma structures, in *Self-organization in nanomaterials*, vol. 5 in seria *Optoelectronic Materials and Devices*, Eds. P. Boolchand, G. Lucovsky, INOE Publishing House, Bucuresti, 2007, ISBN 978-973-88109-0-7	$A_{51} = 0.2/5 = 0.04$	0.04
	M. Aflori, D. G. Dimitriu – Analiza semnalelor utilizând metode ale dinamicii neliniare, în *Complemente de fizică pentru studenții școlilor doctorale, vol. I,* Eds. L. Dumitrascu, I. Dumitrascu, D. O. Dorohoi, D. G. Dimitriu, G. Apreotesei, M. Aflori, Ed. Tehnopress, Iați, 2006, ISBN 978-973-702-389-6	$A_{52} = 0.2/2 = 0.1$	0.1
6	Lucrari in extenso (cel puțin 3 pagini) publicate în Proceedings-uri indexate lSI	$A_6 = \sum_i 0.2/n_i^{ef}$	1.633
6.1	A. C. Morosanu, A. Gritco (Todirascu), D. G. Dimitriu, D. O. Dorohoi, C. Cheptea – Quantum mechanical and spectral study of fluorescein, *6th IEEE International Conference on E-Health and Bioengineering, June 22-24, 2017, Sinaia, Romania*	$A_{61} = 0.2/5 = 0.04$	0.04
6.2	M. Gaina, A. C. Benchea, C. Podlipnik, D. G. Dimitriu – Quantum-mechanical characterization and spectral study of curcumin, *5th International Colloquium "Physics of Materials" PM-5, November 10-11, 2016, Bucuresti, Romania*, publicat în *U.P.B. Scientific Bulletin B* **79 (2)** (2017) 133-142	$A_{62} = 0.2/4 = 0.05$	0.05

6.3	A. C. Benchea, D. Babusca, A. C. Morosanu, D. G. Dimitriu, D. O. Dorohoi – Excited state molecular polarizability estimated by solvatochromic means, *TIM 2016 Physics Conference, Timisoara, Romania, May 26-28, 2016*, publicat în *AIP Conference Proceedings* **1796** (2017) 030013 1-6	$A_{63} = 0.2/5 = 0.04$	0.04
6.4	D. Babusca, A. C. Benchea, A. C. Morosanu, D. G. Dimitriu, D. O. Dorohoi – Solvent empirical scales and their importance for the study of intermolecular interactions, *TIM 2016 Physics Conference, Timisoara, Romania, May 26-28, 2016*, publicat în *AIP Conference Proceedings* **1796** (2017) 030011 1-6	$A_{64} = 0.2/5 = 0.04$	0.04
6.5	A. E. Tudose, I. Dumitrascu, L. Dumitrascu, D. G. Dimitriu, D. O. Dorohoi – Methods for determining the linear birefringence of some inorganic uniax crystals, *TIM 2016 Physics Conference, Timisoara, Romania, May 26-28, 2016*, publicat în *AIP Conference Proceedings* **1796** (2017) 030007 1-5	$A_{65} = 0.2/5 = 0.04$	0.04
6.6	B. Albina, M. M. Cazacu, A. Timofte, D. G. Dimitriu, S. O. Gurlui – Studies of planetary boundary layer by infrared thermal imagery, *TIM 2013 Physics Conference, Timisoara, Romania, November 21-24, 2013*, publicat în *AIP Conference Proceedings* **1634** (2014) 174-179	$A_{66} = 0.2/5 = 0.04$	0.04
6.7	D. O. Dorohoi, D. G. Dimitriu, I. Cosutchi, I. Breaban – A new method for determining the optical rotatory dispersion of transparent crystalline layers, *2nd International Conference on Applications of Optics and Photonics, Aveiro, Portugal, May 26-30, 2014*, publicat în *Proceedings of SPIE* **9286** (2014) 92862Z	$A_{67} = 0.2/4 = 0.05$	0.05
6.8	S. Gurlui, O. Niculescu, D. G. Dimitriu, C. Ionita, R. Schrittwieser – Spectral investigations of two simultaneous fireballs in plasma, *12th TIM Physics Conference, Timisoara, Romania, November 27-30, 2012*, publicat în *AIP Conference Proceedings* **1564** (2013) 200-204	$A_{68} = 0.2/5 = 0.04$	0.04
6.9	D. G. Dimitriu – Scenarios of transition to chaos competition in low-temperature plasma, *12th TIM Physics Conference, Timisoara, Romania, November 27-30, 2012*, publicat în *AIP Conference Proceedings* **1564** (2013) 211-216	$A_{69} = 0.2/1 = 0.2$	0.2
6.10	A. Timofte, M. M. Cazacu, R. Radulescu, L. Belegante, D. G. Dimitriu, S. Gurlui – Romanian LIDAR investigation of Eyjafjallajokull volcanic ash, *4th International Workshop on Optoelectronic Techniques for Environmental Monitoring, Cluj-Napoca, Romania, October 19-21, 2010*, publicat în *Environmental Engineering and Management Journal* **10 (1)** (2011) 91-97	$A_{610} = 0.2/5.5 = 0.0363$	0.0363

6.11	M. M. Cazacu, A. Timofte, I. Balin, D. G. Dimitriu, S. Gurlui – Complementary atmospheric urban pollution studies in the north-east region of Romania, Iasi county, *4th International Workshop on Optoelectronic Techniques for Environmental Monitoring, Cluj-Napoca, Romania, October 19-21, 2010*, publicat în *Environmental Engineering and Management Journal* **10 (1)** (2011) 139-145	$A_{611} = 0.2/5 = 0.04$	0.04
6.12	C. Stan, C. P. Cristescu, D. G. Dimitriu – Multifractal analysis of intermittency in a discharge plasma, *15th International Conference on Plasma Physics and Applications, Iasi, Romania, July 1-4, 2010*, publicat în *Romanian Journal of Physics* **56 (Suppl. S)** (2011) 79-82	$A_{612} = 0.2/3 = 0.0666$	0.0666
6.13	O. Niculescu, D. G. Dimitriu – Experimental and theoretical study of nonlinear phenomena related to the double layer dynamics in plasma, *Physics Conference (TIM 2009), Timisoara, Romania, November 27-28, 2009*, publicat în *AIP Conference Proceedings* **1262** (2010) 178-183	$A_{613} = 0.2/2 = 0.1$	0.1
6.14	C. Stan, C. P. Cristescu, S. Chiriac, D. G. Dimitriu – Noise induced change in the dynamics of anodic double layers, *National Conference of Physics, Bucuresti, Romania, September 10-13, 2008*, publicat în *Romanian Journal of Physics* **54 (7-8)** (2009) 699-704	$A_{614} = 0.2/4 = 0.05$	0.05
6.15	S. Gurlui, D. G. Dimitriu, C. Ionita, R. W. Schrittwieser – Spectral investigation of a complex space charge structure in plasma, *9th International Balkan Workshop on Applied Physics, Constanta, Romania, July 7-9, 2008*, publicat în *Romanian Journal of Physics* **54 (7-8)** (2009) 705-710	$A_{615} = 0.2/4 = 0.05$	0.05
6.16	O. Niculescu, D. G. Dimitriu – On the generation of stable complex oscillations in low-temperature plasma, *9th International Balkan Workshop on Applied Physics, Constanta, Romania, July 7-9, 2008*, publicat în *Romanian Journal of Physics* **54 (5-6)** (2009) 577-584	$A_{616} = 0.2/2 = 0.1$	0.1
6.17	S. Mijovic, M. Vuceljic, I. Vojvodic, R. Schrittwieser, M. Maljkov, D. G. Dimitriu, C. Ionita – Determination of plasma space potential from a Langmuir probe by Tikhonov's regularization method, *24th Summer School and International Symposium on the Physics of Ionized Gases, Novi Sad, Serbia, August 25-29, 2008*, publicat în *Publication of the Astronomical Observatory of Belgrade – Series* **84** (2008) 313-316	$A_{617} = 0.2/6 = 0.0333$	0.0333

6.18	D. G. Dimitriu, L. M. Ivan – Cascade of spatio-temporal period-doubling bifurcations in connection with the appearance and dynamics of non-concentric multiple double layers in plasma, *International Conference on Research and Applications of Plasma (PLASMA 2007) / 4th German-Polish Conference on Plasma Diagnostics for Fusion and Applications / 6th French-Polish Seminar on Thermal Plasma in Space and Laboratory, Greifswald, Germany, October 16-19, 2007*, publicat în *AIP Conference Proceedings* **993** (2008) 93-96	$A_{618} = 0.2/2 = 0.1$	0.1
6.19	D. G. Dimitriu, S. A. Chiriac – Transition to chaos by type I intermittency in plasma, *International Conference on Research and Applications of Plasma (PLASMA 2007) / 4th German-Polish Conference on Plasma Diagnostics for Fusion and Applications / 6th French-Polish Seminar on Thermal Plasma in Space and Laboratory, Greifswald, Germany, October 16-19, 2007*, publicat în *AIP Conference Proceedings* **993** (2008) 97-100	$A_{619} = 0.2/2 = 0.1$	0.1
6.20	D. G. Dimitriu, C. Ionita, R. Schrittwieser – Simultaneous excitation and analysis of three instabilities in magnetized plasma, *International Conference on Research and Applications of Plasma (PLASMA 2007) / 4th German-Polish Conference on Plasma Diagnostics for Fusion and Applications / 6th French-Polish Seminar on Thermal Plasma in Space and Laboratory, Greifswald, Germany, October 16-19, 2007*, publicat în *AIP Conference Proceedings* **993** (2008) 105-108	$A_{620} = 0.2/3 = 0.0666$	0.0666
6.21	S. Chiriac, L. M. Ivan, D. G. Dimitriu – Intermittency scenario of transition to chaos in plasma related to the non-concentric multiple double layers, *National Conference on Applied Physics, Galati, Romania, June 9-10, 2006*, publicat în *Romanian Journal of Physics* **53 (1-2)** (2008) 311-316	$A_{621} = 0.2/3 = 0.0666$	0.0666
6.22	G. Amarandei, D. G. Dimitriu, A. K. Sarma, P. C. Balan, T. Klinger, O. Grulke, C. Ionita, R. Schrittwieser – Studies on suitable materials for a laser-heated electron-emissive plasma probe, *National Conference on Applied Physics, Galati, Romania, June 9-10, 2006*, publicat în *Romanian Journal of Physics* **53 (1-2)** (2008) 311-316	$A_{622} = 0.2/6.5 = 0.0307$	0.0307
6.23	L. M. Ivan, S. A. Chiriac, G. Amarandei, D. G. Dimitriu – Experimental basis of a common physical mechanism for the concentric and non-concentric multiple double layers in plasma, *National Conference on Applied Physics, Galati, Romania, June 9-10, 2006*, publicat în *Romanian Journal of Physics* **53 (1-2)** (2008) 317-324	$A_{623} = 0.2/4 = 0.05$	0.05

6.24	M. Mihai-Plugaru, L. M. Ivan, D. G. Dimitriu – Experimental investigation of a firerod in weakly magnetized diffusion plasma, *National Conference on Applied Physics, Galati, Romania, June 9-10, 2006*, publicat în *Romanian Journal of Physics* **53 (1-2)** (2008) 325-329	$A_{624} = 0.2/3 = 0.0666$	0.0666
6.25	D. G. Dimitriu, S. Gurlui, M. Aflori, M. Ivan – On the physical mechanism at the origin of multiple double layers appearance in plasma, *International Conference on Research and Applications of Plasmas (PLASMA 2005), Opole Turawa, Poland, September 6-9, 2005*, publicat în *AIP Conference Proceedings* **812** (2006) 149-152	$A_{625} = 0.2/4 = 0.05$	0.05
6.26	S. Gurlui, D. G. Dimitriu, G. Strat, M. Strat – Study of the anode plasma double layer: optogalvanic detectors, *International Conference on Research and Applications of Plasmas (PLASMA 2005), Opole Turawa, Poland, September 6-9, 2005*, publicat în *AIP Conference Proceedings* **812** (2006) 333-336	$A_{626} = 0.2/4 = 0.05$	0.05
6.27	D. Dimitriu, V. Ignatescu, C. Ionita, E. Lozneanu, M. Sanduloviciu, R. Schrittwieser – Nonlinear dynamical analysis of two current-driven low-frequency instabilities in a magnetised plasma column, *International Congress on Plasma Physics, Sydney, Australia, July 15-19, 2002*, publicat în *AIP Conference Proceedings* **669** (2003) 719-722	$A_{627} = 0.2/5.5 = 0.0363$	0.0363
7	Brevete de invenție internaționale acordate	$A_7 = \sum_i 3/n_i^{ef}$	0
8	Brevete de invenție naționale acordate	$A_8 = \sum_i 0.5/n_i^{ef}$	0
9	Director/responsabil/coordonator pentru programe de studii, programe de formare continuă, proiecte educaționale și proiecte de infrastructură (proiectele de cercetare se exclud)	$A_9 = \sum_i 0.5$	0
10	Director/ responsabil pentru proiecte de cercetare în valoare V_i euro câștigate prin competiție națională sau internațională (proiectele de la punctul 9 se exclud). Sumele în lei sau în alte valute se convertesc în euro la cursul mediu din anul respectiv conform www.bnr.ro pentru perioada de după 1999 și la cursul din 1999 pentru perioada anterioară. Responsabilii de proiect sunt cei care conduc o echipă de cercetare, fiind menționați ca atare în proiectul depus; în cazul lor se consideră doar suma aferentă echipei conduse.	$A_{10} = \sum_i V_i/100.000$	5.9086
10.1	Instabilități electrostatice în plasme magnetizate și nemagnetizate de temperatură joasă (INSTAPLAS), grant PNCDI III – IDEI, nr. 193/2017, 2017-2019, director de proiect Dan-Gheorghe Dimitriu, valoare 775700 RON (/4.5681 = 169808 EURO)	$A_{101} = 169808/100000 = 1.698$	1.698

10.2	Structuri autoorganizate în plasmă, grant PNCDI II – CAPACITĂȚI, bilateral România – Austria, nr. 747/2014, 2014-2015, director de proiect Dan-Gheorghe Dimitriu, valoare 28400 RON (/4.4446 = 6389.77 EURO)	A_{102} = 6389.77/100000 = 0.0638	0.0638
10.3	Studiul interacțiunii plasmei cu sisteme complexe, grant PNCDI II – CAPACITĂȚI, bilateral Romania – Austria, nr. 557/2012, 2012-2013, director de proiect Dan-Gheorghe Dimitriu, valoare 44000 RON (/4.456 = 9874.32 EURO)	A_{103} = 9874.32/100000 = 0.0987	0.0987
10.4	Identificarea mecanismelor fizice aflate la originea apariției structurilor spațiale și spațio-temporale în plasmă. Aplicații, grant PNCDI II – IDEI, nr. 56/2007, 2007-2010, director de proiect Dan-Gheorghe Dimitriu, valoare 1000000 RON (/3.3373 = 299643.42 EURO)	A_{104} = 299643.42/100000 = 2.9964	2.9964
10.5	Instabilități electrostatice în plasmă. Metode de control, grant CEEX modulul II tip ET, nr. 5912/2006, 2006-2008, director de proiect Dan-Gheorghe Dimitriu, valoare 140000 RON (/3.5245 = 39721.94 EURO)	A_{105} = 39721.94/100000 = 0.3972	0.3972
10.6	Structuri complexe de sarcini spațiale în plasmă. Modele fizice. Aplicații, grant CEEX modulul II tip ET, nr. 1499/2006, 2006-2008, director de proiect Dan-Gheorghe Dimitriu, valoare 140000 RON (/3.5245 = 39721.94 EURO)	A_{106} = 39721.94/100000 = 0.3972	0.3972
10.7	Dezvoltarea unui model fizic pentru straturile duble multiple din plasmă, grant CNCSIS tip AT, nr. 60GR/2006, 2006-2007, director de proiect Dan-Gheorghe Dimitriu, valoare 69000 RON (/3.5245 = 19577.24 EURO)	A_{107} = 19577.24/100000 = 0.1957	0.1957
10.8	Dezvoltarea unor metode experimentale de control a haosului în dispozitive cu plasmă, grant CNCSIS tip AT, nr. 33373/2004, 2004-2005, director de proiect Dan-Gheorghe Dimitriu, valoare 25000 RON (/4.0532 = 6167.96 EURO)	A_{108} = 6167.96/100000 = 0.0616	0.0616
		TOTAL =	**11.2649**

Activitatea de cercetare și recunoașterea impactului activității

Autori	Titlu	An	Revista	Vol.	Pag.	AIS	Nr. autori efectiv	I	P	Nr. citari	C
D. O. Dorohoi, D. E. Creanga, D. G. Dimitriu, A. C. Morosanu, A. Gritco-Todirascu, G. G. Mariciuc, N. Puica Melniciuc, E. Ardelean, C. Cheptea	Computational and spectral means for characterizing intermolecular interactions in solutions and for estimating excited state dipole moment of solute	2020	Symmetry	12	1299	0.303	7	0.0432	0	0	0
D. Babusca, A. C. Morosanu, D. G. Dimitriu, D. O. Dorohoi, C. Cheptea	Spectroscopic and quantum-chemical study of molecular interactions of iso-quinolinium ylids in polar solutions	2020	Molecular Crystals and Liquid Crystals	698	87	0.068	5	0.0136	0	0	0
M. Postolache, L. M. Ivan, N. Puica-Melniciuc, G. G. Mariciuc, D. G. Dimitriu, D. O. Dorohoi	Birefringence of binary liquid crystalline mixtures of MBBA and PPMAECOBA in TCM, interferometric assessment	2020	Molecular Crystals and Liquid Crystals	698	78	0.068	5.5	0.0123	0	0	0
L. M. Ivan, D. G. Dimitriu, A. Gritco-Todirascu, A. C. Morosanu, D. O. Dorohoi, C. Cheptea	Excited state dipole moment of two pyridazinium-p-nitro-phencylids estimated from solvatochromic study	2020	Spectroscopy Letters	53	1	0.174	5.5	0.0316	0.174	0	0
A. C. Luca, A. C. Morosanu, I. Macovei, D. G. Dimitriu, D. O. Dorohoi, I. S. Stratulat	Variational method for estimating the dipole moment in the second excited state of fluorescein molecule from its electronic UV absorption spectra	2019	Revista de Chimie	70	3538	0.064	5.5	0.0116	0	1	0.1818

I. S. Stratulat, A. Scripa (Tudose), A. I. Barzic, D. G. Dimitriu, D. O. Dorohoi, A. C. Luca	Dispersion of nicotine circular birefringence	2019	Revista de Chimie	70	3281	0.064	5.5	0.0116	0	0	0
A. C. Morosanu, D. G. Dimitriu, D. O. Dorohoi	Excited state dipole moment of the fluorescein molecule estimated from electronic absorption spectra	2019	Journal of Molecular Structure	1180	723	0.278	3	0.0926	0.278	2	0.6666
C. T. Teodorescu-Soare, S. A. Irimiciuc, C. Ionita, D. G. Dimitriu, B. Hodoroaba, T. O'Hara, O. Vasilovici, L. Amarandi, R. W. Schrittwieser	Concentric double hollow grid cathode discharges	2019	International Journal of Mass Spectrometry	436	83	0.443	7	0.0632	0	0	0
D. A. M. Androne, D. O. Dorohoi, D. G. Dimitriu, H. U. Kasper	Optical and chemical study of quartz from granitic pegmatites	2018	Revista de Chimie	69	1846	0.052	4	0.013	0	0	0
D. Babusca, A. C. Morosanu, A. C. Benchea, D. G. Dimitriu, D. O. Dorohoi	Spectral and quantum mechanical study of some azo-derivatives	2018	Journal of Molecular Liquids	269	940	0.58	5	0.116	0	1	0.2
V. B. Rusyn, L. Pribylova, D. G. Dimitriu	Control of the modified chaotic Chua's circuit using threshold method	2018	Visnik NTTU KPI Seriia – Radiotekhnika Radioaparatobuduvannia (Bulletin of National Technical University of Ukraine "Kyiv Polytechnic Institute" Seria Radiotechnique. Radioapparatus Building)	75	61	0	3	0	0	1	0.3333

A. C. Benchea, D. Babusca, A. C. Morosanu, D. G. Dimitriu, D. O. Dorohoi	Excited state molecular polarizability estimated by solvatochromic means	2017	AIP Conference Proceedings	1796	030013	0	5	0	0	1	0.2
M. Strat, E. Buruiana, D. Dumitriu, A. V. Sandu, S. Gurlui	Photophysical and photochemical properties of polyurethane coumarin studied by means of electronic spectra	2017	Revista de Chimie	68	1568	0.047	5	0.0094	0	2	0.4
A. E. Scripa (Tudose), D. G. Dimitriu, D. O. Dorohoi	Dispersion of the visible rotatory power for aqueous glucose solutions	2017	U.P.B. Scientific Bulletin A – Applied Mathematics and Physics	79	307	0.094	3	0.0313	0	0	0
D. Babusca, A. C. Benchea, D. G. Dimitriu, D. O. Dorohoi	Spectral and quantum mechanical characterization of 3-(2-benzothiazolyl)-7-(diethylamino) coumarin (coumarin 6) in binary solutions	2017	Analytical Letters	50	2740	0.195	4	0.0487	0	3	0.75
A. C. Benchea, D. Babusca, Č. Podlipnik, D. G. Dimitriu	Solvatochromic and quantum-mechanical characterization of methyl red	2017	Analytical Letters	50	2711	0.195	4	0.0487	0	1	0.25
R. W. Schrittwieser, C. Ionita, C. T. Teodorescu-Soare, O. Vasilovici, S. Gurlui, S. A. Irimiciuc, D. G. Dimitriu	Spectral and electrical diagnosis of complex space-charge structures excited by a spherical grid cathode with orifice	2017	Physica Scripta	92	044001	0.385	6	0.0641	0	4	0.6666
A. C. Morosanu, A. C. Benchea, D. Babusca, D. G. Dimitriu, D. O. Dorohoi	Quantum mechanical and solvatochromic characterization of quercetin	2017	Analytical Letters	50	2725	0.195	5	0.039	0.195	7	1.4
A. E. Scripa (Tudose), D. G. Dimitriu, D. O. Dorohoi	Linear birefringence of polymer foils determined by optical means	2017	Journal of Molecular Structure	1140	67	0.262	3	0.0873	0	2	0.6666
A. C. Benchea, D. Babusca, A. C. Morosanu, D. G. Dimitriu, D. O. Dorohoi	Spectral study of Rhodamine dyes in binary solutions	2017	Journal of Molecular Structure	1140	71	0.262	5	0.0524	0	3	0.6

A. C. Benchea, D. Babusca, D. G. Dimitriu, D. O. Dorohoi	Quantum-mechanical study and spectral analysis on some derivatives of Rhodamine in solutions	2017	Spectrochimica Acta A – Molecular and Biomolecular Spectroscopy	172	91	0.382	4	0.0955	0	2	0.5
D. Babusca, A. C. Benchea, D. G. Dimitriu, D. O. Dorohoi	Solvatochromic characterization of sudan derivatives in binary and ternary solutions	2016	Analytical Letters	49	2615	0.197	4	0.0492	0	3	0.75
C. T. Teodorescu-Soare, D. G. Dimitriu, C. Ionita, R. W. Schrittwieser	Experimental investigations of the nonlinear dynamics of a complex space-charge configuration inside and around a grid cathode with hole	2016	Physica Scripta	91	034002	0.358	4	0.0895	0	5	1.25
A. C. Benchea, D. Babusca, D. G. Dimitriu, D. O. Dorohoi	Quantum mechanical and absorption spectral characterization of Rhodamine B in ternary solution	2016	Analytical Letters	49	2606	0.197	4	0.0492	0	0	0
D. G. Dimitriu, S. A. Irimiciuc, S. Popescu, M. Agop, C. Ionita, R. W. Schrittwieser	On the interaction between two fireballs in low-temperature plasma	2015	Physics of Plasmas	22	113511	0.592	5.5	0.1076	0.592	6	1.0909
D. O. Dorohoi, D. G. Dimitriu, I. Dumitrascu, C. B. Zelinschi, I. Breaban	Interferential method to determine the optical rotatory dispersion of crystalline layers	2015	U.P.B. Scientific Bulletin A – Applied Mathematics and Physics	77	253	0.064	5	0.0128	0	0	0
V. Nedeff, G. Lazar, M. Agop, L. Eva, L. Ochiuz, D. Dimitriu, L. Vrajitoriu, C. Popa	Solid components separation from heterogeneous mixtures through turbulence control	2015	Powder Technology	284	170	0.587	6.5	0.0903	0	4	0.6153
A. I. Barzic, D. G. Dimitriu, D. O. Dorohoi	Optical rotatory dispersion of Poly(propylene oxide) in Benzene solution determined from channelled spectra	2015	International Journal of Polymer Analysis and Characterization	20	565	0.172	3	0.0573	0	1	0.3333

I. A. Cosutchi, D. G. Dimitriu, C. B. Zelinschi, I. Breaban, D. O. Dorohoi	Optical activity of transparent polymer layers characterized by spectral means	2015	Journal of Molecular Structure	1090	39	0.29	5	0.0580	0.29	0	0
S. A. Irimiciuc, O. Vasilovici, D. G. Dimitriu	Chua's circuit: control and synchronization	2015	International Journal of Bifurcation and Chaos	25	1550050	0.421	3	0.1403	0	0	0
A. Barzic, D. Dimitriu, D. Dorohoi	New method for determining the optical rotatory dispersion of hydroxypropyl cellulose polymer solutions in water	2015	Polymer Engineering & Science	55	1077	0.328	3	0.1093	0	1	0.3333
D. G. Dimitriu, D. O. Dorohoi	New method to determine the optical rotatory dispersion of inorganic crystals applied to some samples of Carpathian Quartz	2014	Spectrochimica Acta A – Molecular and Biomolecular Spectroscopy	131	674	0.358	2	0	0.358	3	1.5
M. Agop, D. G. Dimitriu, L. Vrajitoriu, M. Boicu	Order to chaos transition in plasma via non-differentiability. Experimental and theoretical investigations	2014	Journal of the Physical Society of Japan	83	054501	0.644	4	0.1610	0.644	2	0.5
S. Gurlui, O. Niculescu, D. G. Dimitriu, C. Ionita, R. W. Schrittwieser	Elementary processes in the dynamics of two simultaneously excited fireballs in plasma	2014	International Journal of Mass Spectrometry	365-366	42	0.666	5	0.1332	0	3	0.6
D. O. Dorohoi, D. G. Dimitriu, I. Cosutchi, I. Breaban	A new method for determining the optical rotatory dispersion of transparent crystalline layers	2014	Proceedings of SPIE	9286	92862Z	0	4	0	0	3	0.75
M. Drobota, D. G. Dimitriu, B. Simionescu, I. Titorencu, M. Olariu, M. Aflori	Cytocompatibility of PET films after DC helium plasma treatments and collagen immobilization	2013	Revista de Chimie	64	761	0.056	5.5	0.0101	0	1	0.1818

M. Aflori, M. Drobota, D. G. Dimitriu, I. Stoica, B. Simionescu, V. Harabagiu	Collagen immobilization on polyethylene terephthalate surface after helium plasma treatment	2013	Materials Science and Engineering B – Advanced Functional Solid-State Materials	178	1303	0.465	5.5	0.0845	0	21	3.8181
D. G. Dimitriu, M. Aflori, L. M. Ivan, V. Radu, E. Poll, M. Agop	Experimental and theoretical investigations of plasma multiple double layers and their evolution to chaos	2013	Plasma Sources Science and Technology	22	035007	0.89	5.5	0.1618	0.89	10	1.8181
F. Unga, M. M. Cazacu, A. Timofte, D. Bostan, A. Mortier, D. G. Dimitriu, S. Gurlui, P. Goloub	Study of the tropospheric aerosol types over Iasi, Romania, during summer of 2012	2013	Environmental Engineering and Management Journal	12	297	0.066	6.5	0.0101	0	9	1.3846
M. Agop, D. G. Dimitriu, O. Niculescu, E. Poll, V. Radu	Experimental and theoretical evidence of the chaotic dynamics of complex structures	2013	Physica Scripta	87	045501	0.41	5	0.0820	0	5	1
D. O. Dorohoi, D. G. Dimitriu, M. Dimitriu, V. Closca	Specific interactions in N-ylid solutions, studied by nuclear magnetic resonance and electronic absorption spectroscopy	2013	Journal of Molecular Structure	1044	79	0.289	4	0.0722	0.289	8	2
I. Topala, N. Dumitrascu, D. G. Dimitriu	Experimental and theoretical investigations of dielectric-barrier plasma jet in helium	2012	IEEE Transactions on Plasma Science	40	2811	0.363	3	0.1210	0	6	2
M. M. Cazacu, A. Timofte, C. Talianu, D. Nicolae, M. N. Danila, F. Unga, D. G. Dimitriu, S. Gurlui	Grímsvötn Volcano: atmospheric volcanic ash cloud investigations, modelling-forecast and experimental environmental approach upon the Romanian area	2012	Journal of Optoelectronics and Advanced Materials	14	517	0.102	6.5	0.0156	0	7	1.0769
M. Agop, P. Nica, O. Niculescu, D. G. Dimitriu	Experimental and theoretical investigations of the negative differential resistance in a discharge plasma	2012	Journal of the Physical Society of Japan	81	064502	0.922	4	0.2305	0.922	13	3.25
F. Unga, M. N. Danila, S. Gurlui, D. Dimitriu, N. Ajtai, A. Timofte, M. M. Cazacu	Optical parameters characterization of a volcanic ash intrusion over Northern Romania following the Grimsvötn volcanic eruption in May 2011	2012	International Student Conference on Photonics, Sinaia, 8-11 mai 2012	-	63	0	6	0	0	1	0.1666

D. G. Dimitriu, M. Aflori, L. M. Ivan, M. Agop	Experimental and modeling results on multiple double layers in low-temperature discharge plasma	2011	IEEE Transactions on Plasma Science	39	2316	0.424	4	0.1060	0.424	0	0
D. G. Dimitriu, C. Ionita, R. Schrittwieser	Nonlinear effects related to the simultaneous excitation of three instabilities in magnetized plasma	2011	Contributions to Plasma Physics	51	554	0.513	3	0.1710	0.513	0	0
C. Stan, C. P. Cristescu, D. G. Dimitriu	Multifractal analysis of intermittency in a discharge plasma	2011	Romanian Journal of Physics	56	79	0	3	0	0	6	2
A. Timofte, M. M. Cazacu, R. Radulescu, L. Belegante, D. G. Dimitriu, S. Gurlui	Romanian LIDAR investigation of the Eyjafjallajokull volcanic ash	2011	Environmental Engineering and Management Journal	10	91	0	5.5	0	0	7	1.2727
M. M. Cazacu, A. Timofte, I. Balin, D. G. Dimitriu, S. Gurlui	Complementary atmospheric urban pollution studies in the north-east region of Romania, Iasi county	2011	Environmental Engineering and Management Journal	10	139	0	5	0	0	8	1.6
M. M. Cazacu, A. Timofte, C. Talianu, D. Nicolae, D. G. Dimitriu, S. Gurlui	Iasi county: Atmospheric volcanic ash cloud investigations. Modeling-forecast and experimental environmental approach	2011	5th International Workshop on Optoelectronic Techniques for Environmental Monitoring, Bucuresti-Magurele, 28-30 septembrie 2011	-	49	0	5.5	0	0	1	0.1818
C. Stan, C. P. Cristescu, D. G. Dimitriu	Analysis of the intermittent behavior in a low-temperature discharge plasma by recurrence plot quantification	2010	Physics of Plasmas	17	042115	0.82	3	0.2733	0	21	7
O. Niculescu, D. G. Dimitriu, V. P. Paun, P. D. Matasaru, D. Scurtu, M. Agop	Experimental and theoretical investigations of a plasma fireball dynamics	2010	Physics of Plasmas	17	042305	0.82	5.5	0.1490	0.82	15	2.7272

S. Gurlui, D. G. Dimitriu, C. Ionita, R. W. Schrittwieser	Spectral investigation of a complex space charge structure in plasma	2009	Romanian Journal of Physics	54	705	0	4	0	0	2	0.5
C. Stan, C. P. Cristescu, S. Chiriac, D. G. Dimitriu	Noise induced change in the dynamics of anodic double layers	2009	Romanian Journal of Physics	54	699	0	4	0	0	4	1
M. Dimitriu, D. G. Dimitriu, D. O. Dorohoi	Supply to the spectral shifts of each type of intermolecular interactions in binary solutions	2008	Optoelectronics and Advanced Materials – Rapid Communications	2	867	0.028	3	0.0093	0	3	1
M. Aflori, D. O. Dorohoi, D. G. Dimitriu	Spectrophotometric measurements in an rf capacitively-coupled oxygen discharge	2008	Optoelectronics and Advanced Materials – Rapid Communications	2	478	0.028	3	0.0093	0	0	0
L. M. Ivan, D. G. Dimitriu, M. Sanduloviciu, O. Niculescu	On the complex self-organized systems created in laboratory	2008	Journal of Optoelectronics and Advanced Materials	10	1950	0.113	4	0.0282	0.113	1	0.25
L. M. Ivan, M. Aflori, G. Amarandei, D. G. Dimitriu	Simultaneous excitation of concentric and nonconcentric multiple double layers in plasma	2008	IEEE Transactions on Plasma Science	36	1396	0.493	4	0.1232	0.493	0	0
M. Mihai-Plugaru, L. M. Ivan, D. G. Dimitriu	Experimental investigation of a firerod in weakly magnetized diffusion plasma	2008	Romanian Journal of Physics	53	325	0	3	0	0	2	0.6666
G. Amarandei, D. G. Dimitriu, A. K. Sarma, P. C. Balan, T. Klinger, O. Grulke, C. Ionita, R. Schrittwieser	Studies on the suitable materials for a laser-heated electron-emissive plasma probe	2008	Romanian Journal of Physics	53	311	0	6.5	0	0	2	0.3076
S. Chiriac, L. M. Ivan, D. G. Dimitriu	Intermittency scenario of transition to chaos in plasma related to the non-concentric multiple double layers	2008	Romanian Journal of Physics	53	303	0	3	0	0	1	0.3333

S. A. Chiriac, D. G. Dimitriu, M. Sanduloviciu	Type I intermittency related to the spatio-temporal dynamics of double layers and ion-acoustic instabilities in plasma	2007	Physics of Plasmas	14	072309	0.806	3	0.2686	0.806	12	4
D. G. Dimitriu, M. Aflori, L. M. Ivan, C. Ionita, R. Schrittwieser	Common physical mechanism for concentric and non-concentric multiple double layers in plasma	2007	Plasma Physics and Controlled Fusion	49	237	1.102	5	0.2204	1.102	27	5.4
C. Ionita, D. G. Dimitriu, R. W. Schrittwieser	Complex space charge structures in laboratory and natural plasmas	2007	Journal of Optoelectronics and Advance Materials	9	2954	0.161	3	0.0536	0	0	0
M. Dimitriu, D. G. Dimitriu, D. O. Dorohoi	Polarizabilities and electric dipole moments in the excited states of some cycloaducts	2007	AIP Conference Proceedings	899	245	0	3	0	0	1	0.3333
D. G. Dimitriu, E. Lozneanu, M. Sanduloviciu	Plasma experiments with relevance for nano-science	2006	Journal of Optoelectronics and Advance Materials	8	967	0.13	3	0.0433	0.13	0	0
M. Mihai-Plugaru, L. M. Ivan, D. G. Dimitriu	Space charge configuration formed in weakly magnetized diffusion plasma	2006	Journal of Optoelectronics and Advanced Materials	8	156	0.13	3	0.0433	0.13	0	0
S. Chiriac, M. Aflori, D. G. Dimitriu	Investigation of the bistable behaviour of multiple anodic structures in dc discharge plasma	2006	Journal of Optoelectronics and Advanced Materials	8	135	0.13	3	0.0433	0.13	2	0.6666
D. G. Dimitriu	Plasma fusion torus as a complex space charge structure	2006	Journal of Optoelectronics and Advanced Materials	8	128	0.13	1	0.1300	0.13	0	0
M. Aflori, L. M. Ivan, M. Mihai-Plugaru, D. G. Dimitriu	Estimating electrons and ions energies in an RF capacitively-coupled argon discharge	2006	Romanian Journal of Physics	51	225	0	4	0	0	2	0.5

L. Dumitrascu, I. Dumitrascu, D. O. Dorohoi, D. G. Dimitriu, G. Apreotesei, M. Aflori	Complemente de fizica pentru studentii scolilor doctorale, vol. I	2006	Ed. TEHNOPRESS, Iași	-	-	0	5.5	0	0	5	0.909
M. Aflori, G. Amarandei, L. M. Ivan, D. G. Dimitriu, M. Sanduloviciu	Experimental observation of multiple double layers structures in plasma. Part I: Concentric multiple double layers	2005	IEEE Transactions on Plasma Science	33	542	0.6	5	0.1200	0.6	9	1.8
L. M. Ivan, G. Amarandei, M. Aflori, M. Mihai-Plugaru, C. Gaman, D. G. Dimitriu, M. Sanduloviciu	Experimental observation of multiple double layers structures in plasma. Part II: Non-concentric multiple double layers	2005	IEEE Transactions on Plasma Science	33	544	0.6	6	0.1000	0.6	5	0.8333
M. Sanduloviciu, D. G. Dimitriu, L. M. Ivan, M. Aflori, C. Furtuna, S. Popescu, E. Lozneanu	Self-organization scenario relevant for nanoscale science and technology	2005	Journal of Optoelectronics and Advanced Materials	7	845	0.12	6	0.0200	0	10	1.6666
L. M. Ivan, G. Amarandei, M. Aflori, M. Mihai-Plugaru, D. G. Dimitriu, C. Ionita, R. Schrittwieser	Physical processes at the origin of the appearance and dynamics of multiple double layers	2005	Acta Physica Slovaca	55	501	0.1	6	0.0166	0	3	0.5
M. Aflori, G. Amarandei, L. M. Ivan, D. G. Dimitriu, D. Dorohoi	Estimating particle temperature for an argon-oxygen discharge by using Langmuir probe and optical emission spectroscopy	2005	Acta Physica Slovaca	55	491	0.1	5	0.0200	0	1	0.2
M. Aflori, G. Amarandei, L. M. Ivan, M. Mihai-Plugaru, D. G. Dimitriu, C. Ionita, R. Schrittwieser	Experimental control of the generation and dynamics of a complex space charge structure in a double plasma machine	2005	Acta Physica Slovaca	55	423	0.1	6	0.0166	0	0	0

M. Aflori, L. M. Ivan, M. Mihai-Plugaru, G. Amarandei, D. G. Dimitriu	Controlling the appearance and dynamics of a plasma ball of fire by using an additional electrode	2005	Romanian Journal of Physics	50	1107	0	5	0	0	1	0.2
S. Gurlui, D. G. Dimitriu	Straturi duble in plasma	2005	Ed. TEHNOPRESS, Iași	-	-	0	2	0	0	3	1.5
C. Ionita, D. G. Dimitriu, R. Schrittwieser	Elementary processes at the origin of the generation and dynamics of multiple double layers in DP machine plasma	2004	International Journal of Mass Spectrometry	233	343	0.8	3	0.2666	0	35	11.6666
D. G. Dimitriu	Physical processes related to the onset of low-frequency instabilities in magnetized plasma	2004	Czechoslovak Journal of Physics	54	C468	0.1	1	0.1	0	1	1
D. G. Dimitriu, C. Gaman, M. Mihai-Plugaru, G. Amarandei, C. Ionita, E. Lozneanu, M. Sanduloviciu, R. Schrittwieser	Simple experimental methods to control the chaos in DP machine plasma	2004	Acta Physica Slovaca	54	89	0.2	6.5	0.0307	0	2	0.3076
E. Lozneanu, D. G. Dimitriu, C. Gaman, C. Furtuna, E. Filep, M. Sanduloviciu	Self-organization at the origin of different states of plasma produced in dc and hf electric fields	2004	Acta Physica Slovaca	54	1	0.2	5.5	0.0363	0	0	0
M. Aflori, C. M. Gaman, L. M. Ivan, M. Mihai-Plugaru, D. G. Dimitriu	Mass-spectrometry measurements in an rf asymmetric capacitively-coupled oxygen discharge	2004	Bulletin of the American Physical Society	49	32	0	5	0	0	1	0.2
D. G. Dimitriu, V. Ignatescu, C. Ionita, E. Lozneanu, M. Sanduloviciu, R. Schrittwieser	The influence of electron impact ionizations on low frequency instabilities in a magnetized plasma	2003	International Journal of Mass Spectrometry	223-224	141	0.8	5.5	0.1454	0.8	2	0.3636
D. E. Creanga, D. G. Dimitriu, D. O. Dorohoi	Electric dipole moments of some benzo-[F]-quinolinium derivatives	2001	Studia Universitatis Babes-Bolyai, Physica	SI 2001	337	0	3	0	0	5	1.6666

D. O. Dorohoi, D. G. Dimitriu	Microscopic parameters in the excited states of some anthracene derivatives	2001	Studia Universitatis Babes-Bolyai, Physica	SI 2001	332	0	2	0	0	6	3
E. Lozneanu, C. Borcia, S. Popescu, M. Sanduloviciu, C. Avram, D. G. Dimitriu, V. Ignatescu, R. Schrittwieser	On the origin of flicker noise in various plasma	2001	Journal of Plasma and Fusion Research SERIES	4	331	0	6.5	0	0	5	0.7692
M. Sanduloviciu, R. Schrittwieser, C. Avram, E. Lozneanu, D. G. Dimitriu, V. Ignatescu	On the stimulation mechanism of low-frequency instabilities in magnetized plasma	2001	Journal of Plasma and Fusion Research SERIES	4	317	0	5.5	0	0	1	0.1818
D. Dorohoi, M. Postolache, D. Ionescu, D. Dimitriu, M. Postolache	Dipole moments and polarizabilities in the excited states of some carbanion disubstituted pyridinium ylids	2000	Studia Universitatis Babes-Bolyai, Physica	SI 2000	241	0	5	0	0	1	0.2
N. B. Mandache, A. M. Pointu, D. G. Dimitriu, M. Ganciu, G. Musa, I. I. Popescu, E. Dewald, M. Nistor	Transient electron beams created by dielectric hollow cathode as a tool for applications	1995	Le Vide: Science, Technique et Applications	275	337	0	6.5	0	0	6	0.923
								I	**P**		**C**
						TOTAL		**5.2746**	**11.423**		**88.8602**

Lista citărilor lucrărilor științifice folosite pentru calculul indicatorului C

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   b) E. Dewald, M. Ganciu, B. N. Mandache, G. S. Musa, M. G. Nistor, A. M. Pointu, I. I. Popescu, K. Frank, D. H. H. Hoffmann, R. Stark – The role of multielectrode geometry in the generation of pulsed intense electron beams in preionization-controlled open-ended hollow-cathode transient discharges, *IEEE Transactions on Plasma Science* **25** (1997) 279-283;
   c) M. V. Udrea, A. M. Pointu, G. Modreanu, M. Ganciu, I. I. Popescu, N. B. Mandache – Pulsed electron beams in long filamentary discharges, *Journal of Physics D: Applied Physics* **30** (1997) L33-L36;
   d) N. B. Mandache, A. M. Pointu, E. Dewald, M. Nistor, M. Ganciu, G. Musa, I. I. Popescu – The characterization of pre-ionization-controlled electron beams produced in open-ended hollow-cathode transient discharges, *Plasma Source Science and Technology* **6** (1997) 1-7;
   e) V. I. Zoran, M. Ganciu, A. M. Pointu, C. B. Collins, I. I. Popescu – X-ray generation in inverse capillary discharges for pumping, *Hyperfine Interactions* **107** (1997) 415-430;
   f) G. Modreanu, N. B. Mandache, A. M. Pointu, M. Ganciu, I. I. Popescu - Time-resolved measurement of the energy distribution function of an electron beam created by a transient hollow cathode discharge, *Journal of Physics D: Applied Physics* **33** (2000) 819-825;

   $c_1 = 6$ **$C_1 = 6 / 6.5 = 0.923$**

2. D. Dorohoi, M. Postolache, D. Ionescu, D. Dimitriu, M. Postolache – Dipole moments and polarizabilities in the excited states of some carbanion disubstituted pyridinium ylids, *Studia Universitatis Babes-Bolyai, Physica*, Special Issue (2000) 241-244;

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   a) D. Dorohoi – Electronic spectroscopy of N-ylids, *Journal of Molecular Structure* **704** (1-3) (2004) 31-43;

   $c_2 = 1$ **$C_2 = 1 / 5 = 0.2$**

3. M. Sanduloviciu, R. Schrittwieser, C. Avram, E. Lozneanu, D. G. Dimitriu, V. Ignatescu – On the stimulation mechanism of low-frequency instabilities in magnetized plasma, *Journal of Plasma and Fusion Research SERIES* **4** (2001) 317-321;

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   a) G. G. Lesnyakov, E. D. Volkov – Toroidal stellarator diode: discharge features and electron transport, *Plasma Devices and Operations* **14** (2) (2006) 111-136;

   $c_3 = 1$ **$C_3 = 1 / 5.5 = 0.1818$**

4. E. Lozneanu, C. Borcia, S. Popescu, M. Sanduloviciu, C. Avram, D. G. Dimitriu, V. Ignatescu, R. Schrittwieser – On the origin of flicker noise in various plasma, *Journal of Plasma and Fusion Research SERIES* **4** (2001) 331-334;

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   a) G. G. Lesnyakov, E. D. Volkov – Toroidal stellarator diode: discharge features and electron transport, *Plasma Devices and Operations* **14** (2) (2006) 111-136;
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   c) P. Alex, B. A. Carreras, S. Arumugam, S. K. Sinha – Self-organized criticality in a cold plasma, *Physics of Plasmas* **24** (2017) 120701;
   d) P. Alex, B. A. Carreras, S. Arumugam, S. K. Sinha – Self-organized criticality: An interplay between stable and turbulent regimes of multiple anodic double layers in glow discharge plasma, *Physics of Plasmas* **25** (2018) 053514;

e) P. Alex, M. Perumal, S. K. Sinha – Coexistence of chaotic and complexity dynamics of fluctuations with long-range temporal correlations under typical condition for formation of multiple anodic double layers in DC glow discharge plasma, *Nonlinear Dynamics* (2020) (early view https://doi.org/10.1007/s11071-020-05737-w);

$c_4 = 5$ **$C_4 = 5 / 6.5 = 0.7692$**

5. D. O. Dorohoi, D. G. Dimitriu – Microscopic parameters in the excited states of some anthracene derivatives, *Studia Universitatis Babes-Bolyai, Physica*, Special Issue (2001) 332-335;

Citari:

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b) I. R. Tigoianu, D. O. Dorohoi, A. Airinei – Solvent influence on the electronic absorption spectra of anthracene, *Revista de Chimie* **60** (1) (2009) 42-44;
c) D. O. Dorohoi – Electric dipole moments of the spectrally active molecules estimated from the solvent influence on the electronic spectra, *Journal of Molecular Structure* **792-793** (2006) 86-92;
d) R. I. Tigoianu, A. Airinei, D. O. Dorohoi – Solvent influence of the electronic fluorescence spectra of anthracene, *Revista de Chimie* **61** (5) (2010) 491-494;
e) A. M. Ciubara, A. C. Benchea, C. B. Zelinschi, D. O. Dorohoi – Excited state polarizability of some polycyclic polyenes, *Revista de Chimie* **68 (2)** (2017) 307-310;
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c_{70} = 1 **C_{70} = 1 / 5.5 = 0.1818**

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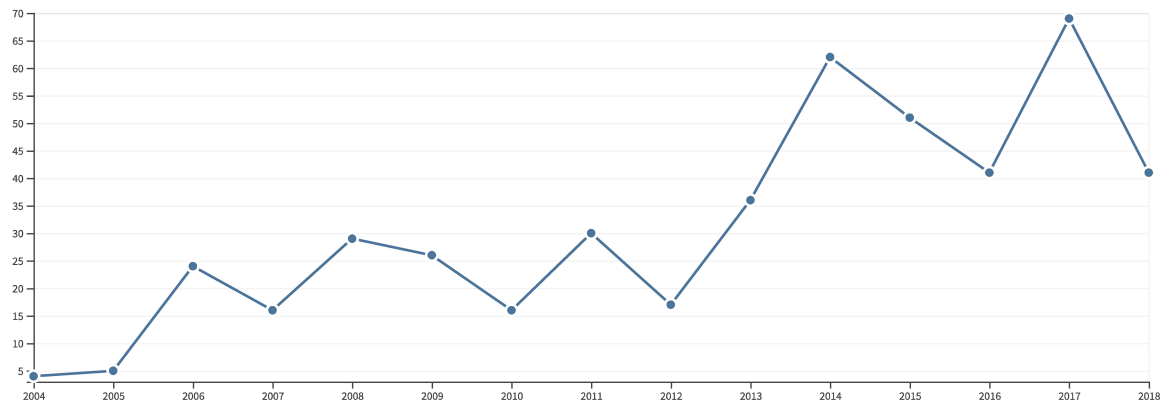

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By: Ionita, C; Dimitriu, DG; Schrittwieser, RW
INTERNATIONAL JOURNAL OF MASS SPECTROMETRY Volume: 233 Issue: 1-3 Pages: 343-354 Published: APR 15 2004

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8.	**Experimental observation of multiple double layers structures in plasma - Part I: Concentric multiple double layers** By: Aflori, M; Amarandei, G; Ivan, LM; et al. IEEE TRANSACTIONS ON PLASMA SCIENCE Volume: 33 Issue: 2 Pages: 542-543 Part: 1 Published: APR 2005	0	0	0	0	1	18	1.13
9.	**Specific interactions in N-ylid solutions, studied by nuclear magnetic resonance and electronic absorption spectroscopy** By: Dorohoi, Dana Ortansa; Dimitriu, Dan Gheorghe; Dimitriu, Mihaela; et al. Conference: 31st European Congress on Molecular Spectroscopy (EUCMOS) Location: Babes Bolyai Univ, Campus Economica, Cluj Napoca, ROMANIA Date: AUG 26-31, 2012 Sponsor(s): Babes Bolyai Univ, Fac Phys JOURNAL OF MOLECULAR STRUCTURE Volume: 1044 Special Issue: SI Pages: 79-86 Published: JUL 24 2013	4	1	1	5	1	16	2.00
10.	**Investigation of the bistable behaviour of multiple anodic structures in dc discharge plasma** By: Chiriac, S; Aflori, M; Dimitriu, DG Conference: 6th International Balkan Workshop on Applied Physics Location: Constanta, ROMANIA Date: JUL 05-07, 2005 Sponsor(s): Balkan Phys Union; Romanian Phys Soc; Romanian Minist Educ & Res; Ovidius Univ Constanta, Fac Phys, Chem & Petr Technol; Univ Bucharest, Fac Phys; Romanian Mat Sci; Crystal Growth Soc JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 8 Issue: 1 Pages: 135-138 Published: FEB 2006	2	2	0	0	0	16	1.07

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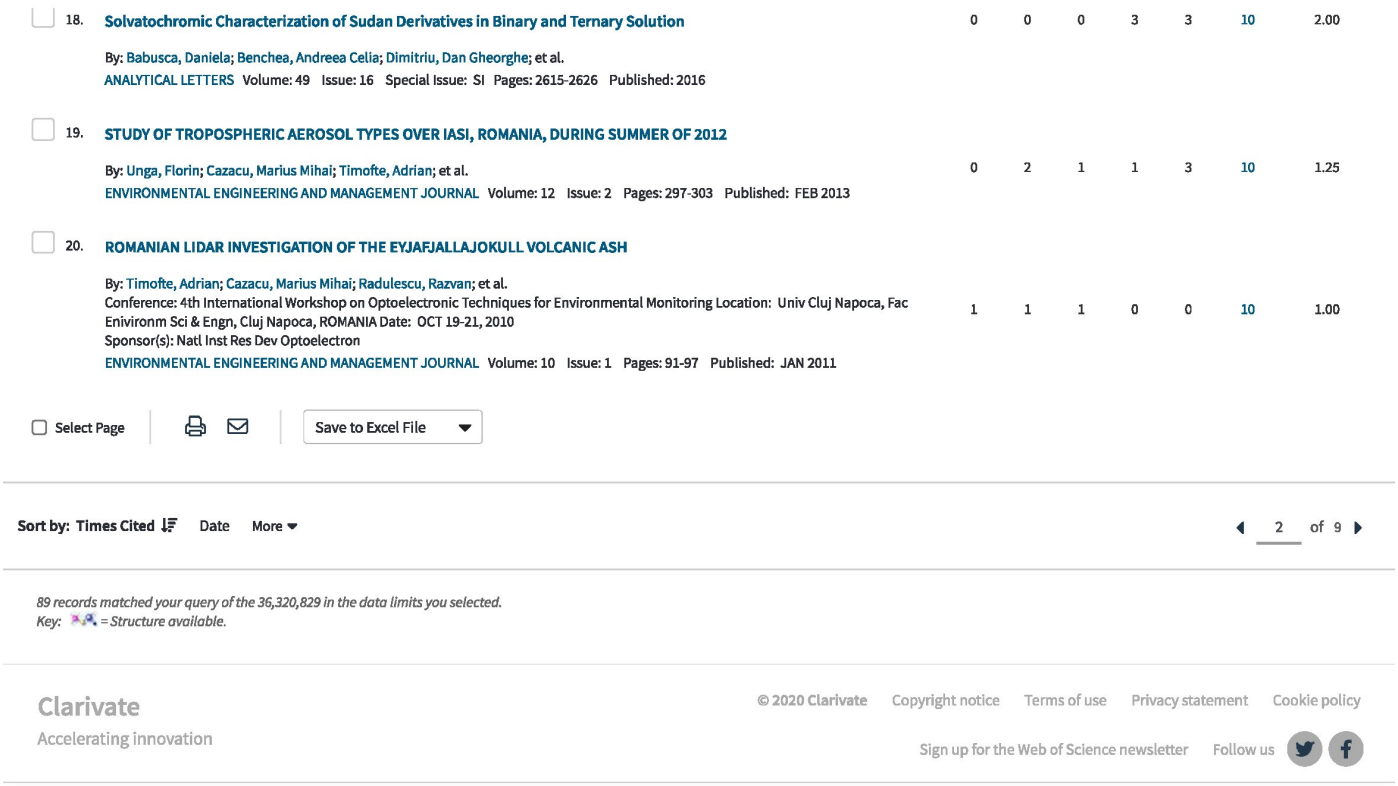
12. Self-organization scenario relevant for nanoscale science and technology By: Sanduloviciu, M; Dimitriu, DG; Ivan, LM; et al. Conference: 7th International Conference on Physics of Advanced Materials Location: Iasi, ROMANIA Date: JUN 10-12, 2004 Sponsor(s): Res Ctr Condenses Matter Phys, Fac Phys, Al I Cuza Univ; Minist Educ & res JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 7 Issue: 2 Pages: 845-851 Published: APR 2005	1	0	0	0	0	16	1.00
13. The influence of electron impact ionisations on low frequency instabilities in a magnetised plasma By: Dimitriu, DG; Ignatescu, V; Ionita, C; et al. INTERNATIONAL JOURNAL OF MASS SPECTROMETRY Volume: 223 Issue: 1-3 Pages: 141-158 Article Number: PII S1387-3806(02)00786-8 Published: JAN 15 2003	0	0	1	0	0	15	0.83
14. Experimental and theoretical investigations of plasma multiple double layers and their evolution to chaos By: Dimitriu, D. G.; Aflori, M.; Ivan, L. M.; et al. PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 22 Issue: 3 Article Number: 035007 Published: JUN 2013	1	2	2	4	1	14	1.75
15. New method to determine the optical rotatory dispersion of inorganic crystals applied to some samples of Carpathian Quartz By: Dimitriu, Dan Gheorghe; Dorohoi, Dana Ortansa SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY Volume: 131 Pages: 674-677 Published: OCT 15 2014	0	4	0	5	1	12	1.71
16. Experimental and theoretical evidence for the chaotic dynamics of complex structures By: Agop, M.; Dimitriu, D. G.; Niculescu, O.; et al. PHYSICA SCRIPTA Volume: 87 Issue: 4 Article Number: 045501 Published: APR 2013	2	2	2	2	1	12	1.50
17. COMPLEMENTARY ATMOSPHERIC URBAN POLLUTION STUDIES IN THE NORTH-EAST REGION OF ROMANIA, IASI COUNTY By: Cazacu, Marius Mihai; Timofte, Adrian; Balin, Ioan; et al. Conference: 4th International Workshop on Optoelectronic Techniques for Environmental Monitoring Location: Univ Cluj Napoca, Fac Environm Sci & Engn, Cluj Napoca, ROMANIA Date: OCT 19-21, 2010 Sponsor(s): Natl Inst Res Dev Optoelectron ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL Volume: 10 Issue: 1 Pages: 139-145 Published: JAN 2011	1	1	2	1	2	12	1.20



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ANALYTICAL LETTERS Volume: 49 Issue: 16 Special Issue: SI Pages: 2615-2626 Published: 2016

19. **STUDY OF TROPOSPHERIC AEROSOL TYPES OVER IASI, ROMANIA, DURING SUMMER OF 2012** — 0 2 1 1 3 10 1.25

By: Unga, Florin; Cazacu, Marius Mihai; Timofte, Adrian; et al.
ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL Volume: 12 Issue: 2 Pages: 297-303 Published: FEB 2013

20. **ROMANIAN LIDAR INVESTIGATION OF THE EYJAFJALLAJOKULL VOLCANIC ASH** — 1 1 1 0 0 10 1.00

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T = A + P/2 + I/2 + C/20 + h/5 = 11.2649 + 11.423/2 + 5.2746/2 + 88.8602/20 + 14/5 =

= 11.2649 + 5.7115 + 2.6373 + 4.4430 + 2.8 =

= 26.8567

Criterii minimale conform ORDIN nr. 6129 din 20 decembrie 2016	**Punctaj realizat**
$A \geq 2$	A = 11.2649
$I \geq 4$	I = 5.2746
$P \geq 4$	P = 11.423
$C \geq 40$	C = 88.8602
Indice Hirsch h (conform ISI Web of Science) ≥ 10	Indice Hirsch h = 14
$T \geq 12$	T = 26.8567

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