

# FIȘA PRIVIND ÎNDEPLINIREA STANDARDDELOR MINIMALE ALE UNIVERSITĂȚII – DOMENIUL FIZICĂ (CONFORM ANEXEI 1A DIN METODOLOGIA DE CONCURS)

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## Activitatea didactică și de cercetare

| Nr. ctr. | Tipul activităților                                                                                                                                                                                                                                                                                                                                                                                           | Indicatori                 | Punctaj |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------|
| 1        | Cărți 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 ISI                                                                                                                                                                                                                                                                                 | $A_2 = \sum_i 1/n_i^{ef}$  | 2.4871  |
| 2.1      | M. Agop, A. Zala, <u>D. Dimitriu</u> , S. Irimiciuc, A. Gavrilut, C. M. Rusu, G. Crumpei, L. Eva – Statistical Methods and Nonlinear Dynamics for Analyzing Brain Activity. Theoretical and Experimental Aspects, in <i>13th Chaotic modeling and Simulation International Conference</i> , Eds. C. H. Skiadas, Y. Dimotikalis, Springer Nature Switzerland AG, Cham, 2021, pp. 41-53, ISBN 978-3-030-70794-1 | $A_{21} = 1/6.5 = 0.15388$ | 0.1538  |
| 2.2      | <u>D. G. Dimitriu</u> , M. Agop – Analysis of Low-Frequency Instabilities in Low-Temperature Magnetized Plasma, Chapter 5 in <i>Fractional Dynamics, Anomalous Transport and Plasma Science</i> , Ed. C. H. Skiadas, Springer Nature Switzerland AG, Cham, 2018, pp. 93-106, ISBN 978-3-030-04482-4                                                                                                           | $A_{22} = 1/2 = 0.5$       | 0.5     |
| 2.3      | S. Irimiciuc, <u>D. G. Dimitriu</u> , M. Agop – Theoretical Modeling of the Interaction Between Two Complex Space Charge Structures in Low-Temperature Plasma, Chapter 6 in <i>Fractional Dynamics, Anomalous Transport and Plasma Science</i> , Ed. C. H. Skiadas, Springer Nature Switzerland AG, Cham, 2018, pp. 107-125, ISBN 978-3-030-04482-4                                                           | $A_{23} = 1/3 = 0.3333$    | 0.3333  |
| 2.4      | D. O. Dorohoi, <u>D. G. Dimitriu</u> – Spectral Insights on Intermolecular Interactions in Solutions of Some Zwitterionic Compounds, Chapter 3 in <i>Electromagnetic Radiation in Analysis and Design of Organic Materials: Electronic and Biotechnology Applications</i> , Eds. D. O. Dorohoi, A. I. Barzic, M. Aflori, CRC Press, Taylor and Francis Group, Boca                                            | $A_{24} = 1/2 = 0.5$       | 0.5     |

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|     | Raton, 2017, pp. 41-58, ISBN 978-1-4987-7580-9                                                                                                                                                                                                                                                                                                                                                                                                                                    |                             |        |
| 2.5 | D. G. Dimitriu, M. Agop – Chaos in Plasma Physics, Chapter 19 in <i>Handbook of Applications of Chaos Theory</i> , Eds. C. H. Skiadas, C. Skiadas, CRC Press, Taylor and Francis Group, Boca Raton, 2016, pp. 321-403, ISBN 978-1-4665-9043-4                                                                                                                                                                                                                                     | $A_{25} = 1/2 = 0.5$        | 0.5    |
| 2.6 | 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 <i>Chaos, Complexity and Transport – Theory and Applications</i> , eds. C. Chandre, X. Leoncini and G. Zaslavsky, World Scientific, 2008, pp. 237-244, ISBN 978-981-281-879-9;                                                                                                                                     | $A_{26} = 1/2 = 0.5$        | 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 <i>Self-organization in nanomaterials</i> , vol. 5 in seria <i>Optoelectronic Materials and Devices</i> , Eds. P. Boolchand, G. Lucovsky, INOE Publishing House, București, 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 <i>Complemente de fizică pentru studenții școlilor doctorale</i> , vol. I, Eds. L. Dumitrascu, I. Dumitrascu, D. O. Dorohoi, D. G. Dimitriu, G. Apreotesei, M. Aflori, Ed. Tehnopress, Iași, 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 ISI                                                                                                                                                                                                                                                                                                                                                                                                 | $A_6 = \sum_i 0.2/n_i^{ef}$ | 1.6565 |
| 6.1 | R. Schrittwieser, C. T. Teodorescu-Soare, F. Enescu, C. Ionita, D. G. Dimitriu, S. Gurlui, F. Mazzanti, S. A. Irimiciuc, B. Hodoroba, T. O'Hara, O. Vasilovici, L. Amarandi – Oscillatory behavior of hollow grid cathode discharge, <i>21<sup>st</sup> International Conference on Electromagnetics in Advanced Applications &amp; 9<sup>th</sup> IEEE-APS Technical Conference on Antennas and Propagation in Wireless Communications</i> , Granada, Spain, 2019, pp. 1359-1362 | $A_{61} = 0.2/8.5 = 0.0235$ | 0.0235 |

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| 6.2  | A. C. Morosanu, A. Gritco (Todirascu), <u>D. G. Dimitriu</u> , D. O. Dorohoi, C. Cheptea – Quantum mechanical and spectral study of fluorescein, <i>6<sup>th</sup> IEEE International Conference on E-Health and Bioengineering</i> , June 22-24, 2017, Sinaia, Romania                                                                                                                                     | $A_{62} = 0.2/5 = 0.04$      | 0.04   |
| 6.3  | M. Gaina, A. C. Benchea, C. Podlipnik, <u>D. G. Dimitriu</u> – Quantum-mechanical characterization and spectral study of curcumin, <i>5<sup>th</sup> International Colloquium “Physics of Materials” PM-5</i> , November 10-11, 2016, Bucuresti, Romania, publicat în <i>U.P.B. Scientific Bulletin B</i> <b>79 (2)</b> (2017) 133-142                                                                      | $A_{63} = 0.2/4 = 0.05$      | 0.05   |
| 6.4  | A. C. Benchea, D. Babusca, A. C. Morosanu, <u>D. G. Dimitriu</u> , D. O. Dorohoi – Excited state molecular polarizability estimated by solvatochromic means, <i>TIM 2016 Physics Conference</i> , Timisoara, Romania, May 26-28, 2016, publicat în <i>AIP Conference Proceedings</i> <b>1796</b> (2017) 030013 1-6                                                                                          | $A_{64} = 0.2/5 = 0.04$      | 0.04   |
| 6.5  | D. Babusca, A. C. Benchea, A. C. Morosanu, <u>D. G. Dimitriu</u> , D. O. Dorohoi – Solvent empirical scales and their importance for the study of intermolecular interactions, <i>TIM 2016 Physics Conference</i> , Timisoara, Romania, May 26-28, 2016, publicat în <i>AIP Conference Proceedings</i> <b>1796</b> (2017) 030011 1-6                                                                        | $A_{65} = 0.2/5 = 0.04$      | 0.04   |
| 6.6  | A. E. Tudose, I. Dumitrascu, L. Dumitrascu, <u>D. G. Dimitriu</u> , D. O. Dorohoi – Methods for determining the linear birefringence of some inorganic uniax crystals, <i>TIM 2016 Physics Conference</i> , Timisoara, Romania, May 26-28, 2016, publicat în <i>AIP Conference Proceedings</i> <b>1796</b> (2017) 030007 1-5                                                                                | $A_{66} = 0.2/5 = 0.04$      | 0.04   |
| 6.7  | B. Albina, M. M. Cazacu, A. Timofte, <u>D. G. Dimitriu</u> , S. O. Gurlui – Studies of planetary boundary layer by infrared thermal imagery, <i>TIM 2013 Physics Conference</i> , Timisoara, Romania, November 21-24, 2013, publicat în <i>AIP Conference Proceedings</i> <b>1634</b> (2014) 174-179                                                                                                        | $A_{67} = 0.2/5 = 0.04$      | 0.04   |
| 6.8  | D. O. Dorohoi, <u>D. G. Dimitriu</u> , I. Cosutchi, I. Breaban – A new method for determining the optical rotatory dispersion of transparent crystalline layers, <i>2<sup>nd</sup> International Conference on Applications of Optics and Photonics</i> , Aveiro, Portugal, May 26-30, 2014, publicat în <i>Proceedings of SPIE</i> <b>9286</b> (2014) 92862Z                                               | $A_{68} = 0.2/4 = 0.05$      | 0.05   |
| 6.9  | S. Gurlui, O. Niculescu, <u>D. G. Dimitriu</u> , C. Ionita, R. Schrittwieser – Spectral investigations of two simultaneous fireballs in plasma, <i>12<sup>th</sup> TIM Physics Conference</i> , Timisoara, Romania, November 27-30, 2012, publicat în <i>AIP Conference Proceedings</i> <b>1564</b> (2013) 200-204                                                                                          | $A_{69} = 0.2/5 = 0.04$      | 0.04   |
| 6.10 | <u>D. G. Dimitriu</u> – Scenarios of transition to chaos competition in low-temperature plasma, <i>12<sup>th</sup> TIM Physics Conference</i> , Timisoara, Romania, November 27-30, 2012, publicat în <i>AIP Conference Proceedings</i> <b>1564</b> (2013) 211-216                                                                                                                                          | $A_{610} = 0.2/1 = 0.2$      | 0.2    |
| 6.11 | A. Timofte, M. M. Cazacu, R. Radulescu, L. Belegante, <u>D. G. Dimitriu</u> , S. Gurlui – Romanian LIDAR investigation of Eyjafjallajokull volcanic ash, <i>4<sup>th</sup> International Workshop on Optoelectronic Techniques for Environmental Monitoring</i> , Cluj-Napoca, Romania, October 19-21, 2010, publicat în <i>Environmental Engineering and Management Journal</i> <b>10 (1)</b> (2011) 91-97 | $A_{611} = 0.2/5.5 = 0.0363$ | 0.0363 |

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| 6.12 | M. M. Cazacu, A. Timofte, I. Balin, <u>D. G. Dimitriu</u> , S. Gurlui – Complementary atmospheric urban pollution studies in the north-east region of Romania, Iasi county, <i>4<sup>th</sup> International Workshop on Optoelectronic Techniques for Environmental Monitoring, Cluj-Napoca, Romania, October 19-21, 2010</i> , publicat în <i>Environmental Engineering and Management Journal</i> <b>10 (1)</b> (2011) 139-145                                                                                                                                                    | $A_{612} = 0.2/5 = 0.04$   | 0.04   |
| 6.13 | C. Stan, C. P. Cristescu, <u>D. G. Dimitriu</u> – Multifractal analysis of intermittency in a discharge plasma, <i>15<sup>th</sup> International Conference on Plasma Physics and Applications, Iasi, Romania, July 1-4, 2010</i> , publicat în <i>Romanian Journal of Physics</i> <b>56 (Suppl. S)</b> (2011) 79-82                                                                                                                                                                                                                                                                | $A_{613} = 0.2/3 = 0.0666$ | 0.0666 |
| 6.14 | O. Niculescu, <u>D. G. Dimitriu</u> – Experimental and theoretical study of nonlinear phenomena related to the double layer dynamics in plasma, <i>Physics Conference (TIM 2009), Timisoara, Romania, November 27-28, 2009</i> , publicat în <i>AIP Conference Proceedings</i> <b>1262</b> (2010) 178-183                                                                                                                                                                                                                                                                           | $A_{614} = 0.2/2 = 0.1$    | 0.1    |
| 6.15 | C. Stan, C. P. Cristescu, S. Chiriac, <u>D. G. Dimitriu</u> – Noise induced change in the dynamics of anodic double layers, <i>National Conference of Physics, Bucuresti, Romania, September 10-13, 2008</i> , publicat în <i>Romanian Journal of Physics</i> <b>54 (7-8)</b> (2009) 699-704                                                                                                                                                                                                                                                                                        | $A_{615} = 0.2/4 = 0.05$   | 0.05   |
| 6.16 | S. Gurlui, <u>D. G. Dimitriu</u> , C. Ionita, R. W. Schrittwieser – Spectral investigation of a complex space charge structure in plasma, <i>9<sup>th</sup> International Balkan Workshop on Applied Physics, Constanta, Romania, July 7-9, 2008</i> , publicat în <i>Romanian Journal of Physics</i> <b>54 (7-8)</b> (2009) 705-710                                                                                                                                                                                                                                                | $A_{616} = 0.2/4 = 0.05$   | 0.05   |
| 6.17 | O. Niculescu, <u>D. G. Dimitriu</u> – On the generation of stable complex oscillations in low-temperature plasma, <i>9<sup>th</sup> International Balkan Workshop on Applied Physics, Constanta, Romania, July 7-9, 2008</i> , publicat în <i>Romanian Journal of Physics</i> <b>54 (5-6)</b> (2009) 577-584                                                                                                                                                                                                                                                                        | $A_{617} = 0.2/2 = 0.1$    | 0.1    |
| 6.18 | S. Mijovic, M. Vuceljic, I. Vojvodic, R. Schrittwieser, M. Maljkovic, <u>D. G. Dimitriu</u> , C. Ionita – Determination of plasma space potential from a Langmuir probe by Tikhonov's regularization method, <i>24<sup>th</sup> Summer School and International Symposium on the Physics of Ionized Gases, Novi Sad, Serbia, August 25-29, 2008</i> , publicat în <i>Publication of the Astronomical Observatory of Belgrade – Series</i> <b>84</b> (2008) 313-316                                                                                                                  | $A_{618} = 0.2/6 = 0.0333$ | 0.0333 |
| 6.19 | <u>D. G. Dimitriu</u> , 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, <i>International Conference on Research and Applications of Plasma (PLASMA 2007) / 4<sup>th</sup> German-Polish Conference on Plasma Diagnostics for Fusion and Applications / 6<sup>th</sup> French-Polish Seminar on Thermal Plasma in Space and Laboratory, Greifswald, Germany, October 16-19, 2007</i> , publicat în <i>AIP Conference Proceedings</i> <b>993</b> (2008) 93-96 | $A_{619} = 0.2/2 = 0.1$    | 0.1    |
| 6.20 | <u>D. G. Dimitriu</u> , S. A. Chiriac – Transition to chaos by type I intermittency in plasma, <i>International Conference on Research and Applications of Plasma (PLASMA 2007) / 4<sup>th</sup> German-</i>                                                                                                                                                                                                                                                                                                                                                                        | $A_{620} = 0.2/2 = 0.1$    | 0.1    |

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|      | <i>Polish Conference on Plasma Diagnostics for Fusion and Applications / 6<sup>th</sup> 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</i>                                                                                                                                                                                                                                                |                              |        |
| 6.21 | <u>D. G. Dimitriu</u> , C. Ionita, R. Schrittwieser – Simultaneous excitation and analysis of three instabilities in magnetized plasma, <i>International Conference on Research and Applications of Plasma (PLASMA 2007) / 4<sup>th</sup> German-Polish Conference on Plasma Diagnostics for Fusion and Applications / 6<sup>th</sup> 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</i> | $A_{621} = 0.2/3 = 0.0666$   | 0.0666 |
| 6.22 | S. Chiriac, L. M. Ivan, <u>D. G. Dimitriu</u> – Intermittency scenario of transition to chaos in plasma related to the non-concentric multiple double layers, <i>National Conference on Applied Physics, Galati, Romania, June 9-10, 2006, publicat în Romanian Journal of Physics 53 (1-2) (2008) 311-316</i>                                                                                                                                                                                                 | $A_{622} = 0.2/3 = 0.0666$   | 0.0666 |
| 6.23 | G. Amarandei, <u>D. G. Dimitriu</u> , 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, <i>National Conference on Applied Physics, Galati, Romania, June 9-10, 2006, publicat în Romanian Journal of Physics 53 (1-2) (2008) 311-316</i>                                                                                                                                                         | $A_{623} = 0.2/6.5 = 0.0307$ | 0.0307 |
| 6.24 | L. M. Ivan, S. A. Chiriac, G. Amarandei, <u>D. G. Dimitriu</u> – Experimental basis of a common physical mechanism for the concentric and non-concentric multiple double layers in plasma, <i>National Conference on Applied Physics, Galati, Romania, June 9-10, 2006, publicat în Romanian Journal of Physics 53 (1-2) (2008) 317-324</i>                                                                                                                                                                    | $A_{624} = 0.2/4 = 0.05$     | 0.05   |
| 6.25 | M. Mihai-Plugaru, L. M. Ivan, <u>D. G. Dimitriu</u> – Experimental investigation of a firerod in weakly magnetized diffusion plasma, <i>National Conference on Applied Physics, Galati, Romania, June 9-10, 2006, publicat în Romanian Journal of Physics 53 (1-2) (2008) 325-329</i>                                                                                                                                                                                                                          | $A_{625} = 0.2/3 = 0.0666$   | 0.0666 |
| 6.26 | <u>D. G. Dimitriu</u> , S. Gurlui, M. Aflori, M. Ivan – On the physical mechanism at the origin of multiple double layers appearance in plasma, <i>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</i>                                                                                                                                                                    | $A_{626} = 0.2/4 = 0.05$     | 0.05   |
| 6.27 | S. Gurlui, <u>D. G. Dimitriu</u> , G. Strat, M. Strat – Study of the anode plasma double layer: optogalvanic detectors, <i>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</i>                                                                                                                                                                                            | $A_{627} = 0.2/4 = 0.05$     | 0.05   |
| 6.28 | <u>D. Dimitriu</u> , V. Ignatescu, C. Ionita, E. Lozneau, M. Sanduloviciu, R. Schrittwieser – Nonlinear dynamical analysis of two current-driven low-frequency instabilities in a magnetised plasma column, <i>International Congress on Plasma</i>                                                                                                                                                                                                                                                            | $A_{628} = 0.2/5.5 = 0.0363$ | 0.0363 |

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|      | <i>Physics, Sydney, Australia, July 15-19, 2002, publicat în AIP Conference Proceedings 669 (2003) 719-722</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                       |        |
| 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 <a href="http://www.bnr.ro">www.bnr.ro</a> 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 plasmă magnetizată și nemagnetizată de temperatură joasă (INSTAPLAS), grant PNCDI III – IDEI, nr. 193/2017, 2017-2019, director de proiect <u>Dan-Gheorghe Dimitriu</u> , 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 <u>Dan-Gheorghe Dimitriu</u> , valoare 28400 RON (/4.4446 = 6389.77 EURO)                                                                                                                                                                                                                                                                                                                                                                 | $A_{102} = 6389.77/100000 = 0.0638$   | 0.0638 |
| 10.3 | Studiul interacțiunii plasmă cu sisteme complexe, grant PNCDI II – CAPACITĂȚI, bilateral Romania – Austria, nr. 557/2012, 2012-2013, director de proiect <u>Dan-Gheorghe Dimitriu</u> , 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 <u>Dan-Gheorghe Dimitriu</u> , 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 CEEEX modulul II tip ET, nr. 5912/2006, 2006-2008, director de proiect <u>Dan-Gheorghe Dimitriu</u> , 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 CEEEX modulul II tip ET, nr. 1499/2006, 2006-2008, director de proiect <u>Dan-Gheorghe Dimitriu</u> , 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 CNCISIS tip AT, nr. 60GR/2006, 2006-2007, director de proiect <u>Dan-Gheorghe Dimitriu</u> , valoare 69000 RON                                                                                                                                                                                                                                                                                                                                                                                       | $A_{107} = 19577.24/100000 =$         | 0.1957 |

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|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------|
|                | (/3.5245 = 19577.24 EURO)                                                                                                                                                                                                           | 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 <u>Dan-Gheorghe Dimitriu</u> , valoare 25000 RON (/4.0532 = 6167.96 EURO) | $A_{108} =$<br>6167.96/100000 =<br>0.0616 | 0.0616         |
| <b>TOTAL =</b> |                                                                                                                                                                                                                                     |                                           | <b>11.4422</b> |

## Activitatea de cercetare și recunoașterea impactului activității

| Autori                                                                                      | Titlu                                                                                                                                                             | An   | Revista                                | Vol. | Pag.   | AIS   | Nr. autori efectiv | I      | P     | Nr. citari | C |
|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------|------|--------|-------|--------------------|--------|-------|------------|---|
| N. Melniciuc Puica, <u>D. G. Dimitriu</u> , G. Apreotesei, A. C. Morosanu, D. O. Dorohoi    | Computational study of some 4'-aryl-1,2,4-triazol-1-ium-4-R <sub>2</sub> -phenacylid derivatives in vacuum and dimethylformamide                                  | 2022 | Symmetry                               | 14   | 2099   | 0.435 | 5                  | 0.087  | 0.435 | 0          | 0 |
| S. A. Irimiciuc, C. T. Konrad-Soare, <u>D. G. Dimitriu</u> , C. Ionita, R. W. Schrittwieser | On the interactions between three fireballs in low-temperature plasma                                                                                             | 2022 | Plasma Sources Science and Technology  | 31   | 084005 | 0.837 | 5                  | 0.1674 | 0     | 0          | 0 |
| D. Babusca, C. A. Morosanu, <u>D. G. Dimitriu</u> , C. Cheptea, D. O. Dorohoi               | Combined solvatochromism and quantum mechanical computations in study regarding the solute-solvent interactions in solutions of some azo-derivatives              | 2022 | Molecular Crystals and Liquid Crystals | 747  | 103    | 0.092 | 5                  | 0.0184 | 0     | 0          | 0 |
| C. Cheptea, V. Sunel, C. Popovici, I. Dumitrascu, <u>D. G. Dimitriu</u> , D. O. Dorohoi     | Synthesis and quantum mechanical characterization of three new 1-(5-nitro-benzimidazole-2'-yl-sulfonyl-acetyl)-4-aryl-thiosemicarbazide with biological potential | 2022 | Molecular Crystals and Liquid Crystals | 747  | 72     | 0.092 | 5.5                | 0.0167 | 0.092 | 0          | 0 |
| A. C. Benchea, <u>D. G. Dimitriu</u> , D. O. Dorohoi, I. Hurjui, L. Hurjui                  | Investigation of 8-hydroxyquinoline by quantum-mechanical modelling and visible absorption spectroscopy                                                           | 2022 | Molecular Crystals and Liquid Crystals | 748  | 99     | 0.092 | 5                  | 0.0184 | 0.092 | 0          | 0 |
| M. Dimitriu, D. Babusca, E. Angheluta, D. O. Dorohoi, <u>D. G. Dimitriu</u>                 | Spectral methods to estimate the strength of intermolecular interactions in liquids                                                                               | 2022 | Molecular Crystals and Liquid Crystals | 747  | 91     | 0.092 | 5                  | 0.0184 | 0     | 0          | 0 |
| D. O. Dorohoi, <u>D. G. Dimitriu</u>                                                        | Binary and ternary solutions of zwitterionic compounds: theoretical and spectral studies                                                                          | 2022 | Molecular Crystals and Liquid Crystals | 748  | 36     | 0.092 | 2                  | 0.046  | 0     | 0          | 0 |



|                                                                                                                                                       |                                                                                                                                     |      |                                             |     |        |       |     |        |       |   |        |
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| N. Melniciuc-Puica, <u>D. G. Dimitriu</u> , V. Closca, L. Dumitrascu, D. O. Dorohoi                                                                   | 1,2,4-triazol-1-ium-p-chlorophenacylids in hydroxyl binary solvent mixtures. Computational and solvatochromic study                 | 2022 | Molecular Crystals and Liquid Crystals      | 748 | 112    | 0.092 | 5   | 0.0184 | 0     | 0 | 0      |
| M. Postolache, D. G. <u>Dimitriu</u> , C. D. Nechifor, S. Condurache Bota, V. Closca, D. O. Dorohoi                                                   | Birefringence of thin uniaxial polymer films estimated using the light polarization ellipse                                         | 2022 | Polymers                                    | 14  | 1063   | 0.611 | 5.5 | 0.111  | 0.611 | 0 | 0      |
| C. Popovici, C. M. Pavel, V. Sunel, C. Cheptea, <u>D. G. Dimitriu</u> , D. O. Dorohoi, D. David, V. Closca, M. Popa                                   | Optimized synthesis of new thiosemicarbazide derivatives with tuberculostatic activity                                              | 2021 | International Journal of Molecular Sciences | 22  | 12139  | 1.064 | 7   | 0.152  | 0     | 3 | 0.4285 |
| D. O. Dorohoi, <u>D. G. Dimitriu</u> , A. C. Morosanu, N. Puica-Melniciuc, I. Hurjui, M. Miron, G. G. Mariciuc, V. Closca, C. Cheptea                 | Some aryl-1,2,4-triazol-1-ium phenacylids in binary hydroxyl solvent mixtures. Computational and spectral study                     | 2021 | Symmetry                                    | 13  | 1656   | 0.435 | 7   | 0.0621 | 0.435 | 0 | 0      |
| D. O. Dorohoi, <u>D. G. Dimitriu</u> , M. M. Dulcescu-Oprea, A. C. Morosanu, N. Puica-Melniciuc, E. Ardelean, A. Gritco-Todirascu, C. Cheptea         | Solvatochromic study of two carbanion monosubstituted 4-tolyl-1,2,4-triazol-1-ium phenacylids in binary hydroxylsolvent mixtures    | 2021 | Molecules                                   | 26  | 3910   | 0.671 | 6.5 | 0.1032 | 0.671 | 0 | 0      |
| C. T. Konrad-Soare, F. Enescu, <u>D. G. Dimitriu</u> , M. Dobromir, E. G. Teodorescu-Soare, F. Mazzanti, S. A. Irimiciuc, C. Ionita, R. Schrittwieser | Concentric double hollow grid cathode discharges. Spectral investigationa and phenomenological approach                             | 2021 | Plasma Sources Science and Technology       | 30  | 085006 | 0.837 | 7   | 0.1195 | 0     | 0 | 0      |
| S. A. Irimiciuc, A. Zala, <u>D. Dimitriu</u> , L. M. Himiniuc, M. Agop, B. F. Toma, L. G. Gavril, D. Vasincu, L. Eva                                  | Novel approach for EEG signal analysis in a multifractal paradigm of motions. Epileptic and eclamptic seizures as scale transitions | 2021 | Symmetry                                    | 13  | 1024   | 0.435 | 7   | 0.0621 | 0     | 3 | 0.4285 |

|                                                                                                                                                              |                                                                                                                                                       |      |                                        |      |        |       |     |        |       |   |        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------|------|--------|-------|-----|--------|-------|---|--------|
| A. Zala, <u>D. Dimitriu</u> , M. Agop, D. N. Tesloianu, M. L. Cobzeanu, B. M. Cobzeanu, M. C. Rusu, V. Ghizdovat                                             | Evaluating atrial fibrillation through strange attractors                                                                                             | 2021 | General Physiology and Biophysics      | 40   | 377    | 0.245 | 6.5 | 0.0376 | 0     | 0 | 0      |
| C. Cheptea, V. Sunel, A. C. Morosanu, <u>D. G. Dimitriu</u> , M. M. Dulcescu-Oprea, M. D. Angheluta, M. Miron, C. D. Nechifor, D. O. Dorohoi, R. N. Malancus | Optimized synthesis of new N-mustards based on 2-mercaptobenzoxazole derivatives with antitumor activity                                              | 2021 | Biomedicines                           | 9    | 476    | 0.798 | 7.5 | 0.1064 | 0.798 | 0 | 0      |
| M. Agop, S. Irimiciuc, <u>D. Dimitriu</u> , C. M. Rusu, A. Zala, L. Dobreci, A. V. Cotirlet, T. C. Petrescu, V. Ghizdovat, L. Eva, D. Vasincu                | Novel approach for EKG signals analysis based on Markovian and non-Markovian fractalization type in scale relativity theory                           | 2021 | Symmetry                               | 13   | 456    | 0.435 | 8   | 0.0543 | 0.435 | 1 | 0.125  |
| M. M. Dulcescu-Oprea, A. C. Morosanu, <u>D. G. Dimitriu</u> , A. Gritco-Todirascu, D. O. Dorohoi, C. Cheptea                                                 | Solvatochromic study of Pyridinium-acetyl-benzoyl methylid (PABM) in ternary protic solutions                                                         | 2021 | Journal of Molecular Structure         | 1227 | 129539 | 0.315 | 5.5 | 0.0572 | 0.315 | 0 | 0      |
| D. O. Dorohoi, D. E. Creanga, <u>D. G. Dimitriu</u> , 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   | 0.394 | 7   | 0.0562 | 0     | 0 | 0      |
| D. Babusca, A. C. Morosanu, <u>D. G. Dimitriu</u> , 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     | 0.097 | 5   | 0.0194 | 0     | 1 | 0.2    |
| 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 PPMAECOBBA in TCM, interferometric assessment                                         | 2020 | Molecular Crystals and Liquid Crystals | 698  | 78     | 0.097 | 5.5 | 0.0176 | 0     | 1 | 0.1818 |

|                                                                                                                                                      |                                                                                                                                                   |      |                                            |      |      |       |     |        |       |   |        |
|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------------------------------|------|------|-------|-----|--------|-------|---|--------|
| 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    | 0.176 | 5.5 | 0.032  | 0.176 | 1 | 0.1818 |
| A. C. Luca, A. C. Morosanu, I. Macovei, <u>D. G. Dimitriu</u> , 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, <u>D. G. Dimitriu</u> , 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 | 5 | 1.6666 |
| C. T. Teodorescu-Soare, S. A. Irimiciuc, C. Ionita, <u>D. G. Dimitriu</u> , 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     | 1 | 0.1428 |
| D. A. M. Androne, D. O. Dorohoi, <u>D. G. Dimitriu</u> , 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, <u>D. G. Dimitriu</u> , 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, <u>D. G. Dimitriu</u>                                 | Control of the modified chaotic Chua's circuit using threshold method                                                                                                                                                                                                   | 2018 | Visnik NTTU KPI Seriiia – Radiotekhnika Radioaparato buduvannia (Bulletin of National Technical University of Ukraine "Kyiv Polytechnic Institute" Seria Radiotechnique. Radioapparatus Building) | 75   | 61     | 0     | 3 | 0      | 0 | 3 | 1   |
| D. O. Dorohoi, <u>D. G. Dimitriu</u>                                             | Spectral Insights on Intermolecular Interactions in Solutions of Some Zwitterionic Compounds, in <i>Electromagnetic Radiation in Analysis and Design of Organic Materials – Electronic and Biotechnology Applications</i> , eds. D. O. Dorohoi, A. I. Barzic, M. Aflori | 2017 | CRC Press, Taylor and Francis Group                                                                                                                                                               |      | 41-58  |       | 2 |        |   | 1 | 0.5 |
| A. C. Benchea, D. Babusca, A. C. Morosanu, <u>D. G. Dimitriu</u> , D. O. Dorohoi | Excited state molecular polarizability estimated by solvatochromic means                                                                                                                                                                                                | 2017 | AIP Conference Proceedings                                                                                                                                                                        | 1796 | 030013 | 0     | 5 | 0      | 0 | 1 | 0.2 |
| D. Babusca, A. C. Benchea, A. C. Morosanu, <u>D. G. Dimitriu</u> , D. O. Dorohoi | Solvent empirical scales and their importance for the study of intermolecular interactions                                                                                                                                                                              | 2017 | AIP Conference Proceedings                                                                                                                                                                        | 1796 | 030011 | 0     | 5 | 0      | 0 | 3 | 0.6 |
| A. E. Tudose, I. Dumitrascu, L. Dumitrascu, D. G. Dimitriu, D. O. Dorohoi        | Methods for determining the linear birefringence of some inorganic uniax crystals                                                                                                                                                                                       | 2017 | AIP Conference Proceedings                                                                                                                                                                        | 1796 | 030007 | 0     | 5 | 0      | 0 | 1 | 0.2 |
| M. Strat, E. Buruiana, <u>D. Dumitriu</u> , 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 |

|                                                                                                                          |                                                                                                                                     |      |                                                                 |      |        |       |   |        |       |    |        |
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| A. E. Scripa (Tudose), <u>D. G. Dimitriu</u> , 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, <u>D. G. Dimitriu</u> , 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     | 6  | 1.5    |
| A. C. Benchea, D. Babusca, Č. Podlipnik, <u>D. G. Dimitriu</u>                                                           | Solvatochromic and quantum-mechanical characterization of methyl red                                                                | 2017 | Analytical Letters                                              | 50   | 2711   | 0.195 | 4 | 0.0487 | 0     | 3  | 0.75   |
| R. W. Schrittwieser, C. Ionita, C. T. Teodorescu-Soare, O. Vasilovici, S. Gurlui, S. A. Irimiciuc, <u>D. G. Dimitriu</u> | 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     | 11 | 1.8333 |
| A. C. Morosanu, A. C. Benchea, D. Babusca, <u>D. G. Dimitriu</u> , 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), <u>D. G. Dimitriu</u> , D. O. Dorohoi                                                             | Linear birefringence of polymer foils determined by optical means                                                                   | 2017 | Journal of Molecular                                            | 1140 | 67     | 0.262 | 3 | 0.0873 | 0     | 4  | 1.3333 |
| A. C. Benchea, D. Babusca, A. C. Morosanu, <u>D. G. Dimitriu</u> , D. O. Dorohoi                                         | Spectral study of Rhodamine dyes in binary solutions                                                                                | 2017 | Journal of Molecular Structure                                  | 1140 | 71     | 0.262 | 5 | 0.0524 | 0     | 6  | 1.2    |
| A. C. Benchea, D. Babusca, <u>D. G. Dimitriu</u> , 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     | 4  | 1      |
| D. Babusca, A. C. Benchea, <u>D. G. Dimitriu</u> , 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, <u>D.</u>                                                                                        | Experimental investigations of the                                                                                                  | 2016 | Physica Scripta                                                 | 91   | 034002 | 0.358 | 4 | 0.0895 | 0     | 7  | 1.75   |

|                                                                                              |                                                                                                                  |      |                                                                |      |         |       |     |        |       |    |        |
|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------|------|---------|-------|-----|--------|-------|----|--------|
| <u>G. Dimitriu</u> , C. Ionita, R. W. Schrittwieser                                          | nonlinear dynamics of a complex space-charge configuration inside and around a grid cathode with hole            |      |                                                                |      |         |       |     |        |       |    |        |
| A. C. Benchea, D. Babusca, <u>D. G. Dimitriu</u> , 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      |
| <u>D. G. Dimitriu</u> , 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 | 15 | 2.7272 |
| D. O. Dorohoi, <u>D. G. Dimitriu</u> , I. Dumitrascu, C. B. Zelinski, 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, <u>D. Dimitriu</u> , 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     | 6  | 0.9230 |
| A. I. Barzic, <u>D. G. Dimitriu</u> , 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, <u>D. G. Dimitriu</u> , C. B. Zelinski, 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, <u>D. G. Dimitriu</u>                                        | 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, <u>D. Dimitriu</u> , 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     | 2  | 0.6666 |
| <u>D. G. Dimitriu</u> , D. O.                                                                | New method to determine the optical                                                                              | 2014 | Spectrochimica                                                 | 131  | 674     | 0.358 | 2   | 0.179  | 0.358 | 5  | 2.5    |

|                                                                                                        |                                                                                                            |      |                                                                                 |         |        |       |     |        |       |    |        |
|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------|---------|--------|-------|-----|--------|-------|----|--------|
| Dorohoi                                                                                                | rotatory dispersion of inorganic crystals applied to some samples of Carpathian Quartz                     |      | Acta A – Molecular and Biomolecular Spectroscopy                                |         |        |       |     |        |       |    |        |
| M. Agop, <u>D. G. Dimitriu</u> , 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, <u>D. G. Dimitriu</u> , 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     | 4  | 0.8    |
| D. O. Dorohoi, <u>D. G. Dimitriu</u> , 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     | 4  | 1      |
| 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, <u>D. G. Dimitriu</u> , 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     | 23 | 4.1818 |
| <u>D. G. Dimitriu</u> , 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  | 12 | 2.1818 |
| F. Unga, M. M. Cazacu, A. Timofte, D. Bostan, A. Mortier, <u>D. G. Dimitriu</u> , 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     | 10 | 1.5384 |
| M. Agop, <u>D. G. Dimitriu</u> , 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, <u>D. G. Dimitriu</u> , M. Dimitriu, V.                                                 | Specific interactions in N-ylid solutions, studied by nuclear magnetic                                     | 2013 | Journal of Molecular                                                            | 1044    | 79     | 0.289 | 4   | 0.0722 | 0.289 | 8  | 2      |

|                                                                                                            |                                                                                                                                                     |      |                                                                      |    |        |       |     |        |       |    |        |
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| Closca                                                                                                     | resonance and electronic absorption spectroscopy                                                                                                    |      | Structure                                                            |    |        |       |     |        |       |    |        |
| M. N. Danila, F. Unga, M. M. Cazacu, A. Timofte, M. Strat, <u>D. G. Dimitriu</u> , S. Gurlui               | LIDAR measurements comparison of two volcanic eruptions: Environmental influences upon the Romanian territory                                       | 2012 | Analele Universitatii de Vest din Timisoara                          | 56 | 68     | 0     | 6   | 0      | 0     | 1  | 0.1666 |
| I. Topala, N. Dumitrascu, <u>D. G. Dimitriu</u>                                                            | 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     | 8  | 2.6666 |
| M. M. Cazacu, A. Timofte, C. Talianu, D. Nicolae, M. N. Danila, F. Unga, <u>D. G. Dimitriu</u> , 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     | 8  | 1.2307 |
| M. Agop, P. Nica, O. Niculescu, <u>D. G. Dimitriu</u>                                                      | 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 | 16 | 4      |
| F. Unga, M. N. Danila, S. Gurlui, <u>D. Dimitriu</u> , N. Ajtai, A. Timofte, M. M. Cazacu                  | Optical parameters characterization of a volcanic ash intrusion over Northern Romania following the Grímsvötn volcanic eruption in May 2011         | 2012 | International Student Conference on Photonics, Sinaia, 8-11 mai 2012 | -  | 63     | 0     | 6   | 0      | 0     | 1  | 0.1666 |
| <u>D. G. Dimitriu</u> , 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      |
| <u>D. G. Dimitriu</u> , 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, <u>D. G. Dimitriu</u>                                                            | 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,                                                      | Romanian LIDAR investigation of the Eyjafjallajökull volcanic ash                                                                                   | 2011 | Environmental Engineering and                                        | 10 | 91     | 0     | 5.5 | 0      | 0     | 8  | 1.4545 |



|                                                                                      |                                                                                                                       |      |                                                                                                                                             |    |        |       |     |        |      |    |        |
|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------|----|--------|-------|-----|--------|------|----|--------|
| <u>D. G. Dimitriu</u> , S. Gurlui                                                    |                                                                                                                       |      | Management Journal                                                                                                                          |    |        |       |     |        |      |    |        |
| M. M. Cazacu, A. Timofte, I. Balin, <u>D. G. Dimitriu</u> , 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    | 10 | 2      |
| M. M. Cazacu, A. Timofte, C. Talianu, D. Nicolae, <u>D. G. Dimitriu</u> , S. Gurlui  | Iasi county: Atmospheric volcanic ash cloud investigations. Modeling-forecast and experimental environmental approach | 2011 | 5 <sup>th</sup> 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, <u>D. G. Dimitriu</u>                                      | 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    | 25 | 8.3333 |
| O. Niculescu, <u>D. G. Dimitriu</u> , 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 | 19 | 3.4545 |
| S. Gurlui, <u>D. G. Dimitriu</u> , 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, <u>D. G. Dimitriu</u>                          | 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, <u>D. G. Dimitriu</u> , 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    | 4  | 1.3333 |
| M. Aflori, D. O. Dorohoi, <u>D. G. Dimitriu</u>                                      | Spectrophotometric measurements in an rf capacitively-coupled oxygen discharge                                        | 2008 | Optoelectronics and Advanced Materials – Rapid                                                                                              | 2  | 478    | 0.028 | 3   | 0.0093 | 0    | 0  | 0      |

|                                                                                                                                       |                                                                                                                                 |      |                                                            |     |        |       |     |        |       |    |        |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------|-----|--------|-------|-----|--------|-------|----|--------|
|                                                                                                                                       |                                                                                                                                 |      | Communications                                             |     |        |       |     |        |       |    |        |
| L. M. Ivan, <u>D. G. Dimitriu</u> ,<br>M. Sanduloviciu, O.<br>Niculescu                                                               | On the complex self-organized<br>systems created in laboratory                                                                  | 2008 | Journal of<br>Optoelectronics<br>and Advanced<br>Materials | 10  | 1950   | 0.113 | 4   | 0.0282 | 0.113 | 1  | 0.25   |
| L. M. Ivan, M. Aflori, G.<br>Amarandei, <u>D. G. Dimitriu</u>                                                                         | Simultaneous excitation of concentric<br>and nonconcentric multiple double<br>layers in plasma                                  | 2008 | IEEE<br>Transactions on<br>Plasma Science                  | 36  | 1396   | 0.493 | 4   | 0.1232 | 0.493 | 0  | 0      |
| M. Mihai-Plugaru, L. M.<br>Ivan, <u>D. G. Dimitriu</u>                                                                                | Experimental investigation of a<br>firerod in weakly magnetized<br>diffusion plasma                                             | 2008 | Romanian<br>Journal of<br>Physics                          | 53  | 325    | 0     | 3   | 0      | 0     | 2  | 0.6666 |
| G. Amarandei, <u>D. G.</u><br><u>Dimitriu</u> , A. K. Sarma, P.<br>C. Balan, T. Klinger, O.<br>Grulke, C. Ionita, R.<br>Schrittwieser | Studies on the suitable materials for a<br>laser-heated electron-emissive plasma<br>probe                                       | 2008 | Romanian<br>Journal of<br>Physics                          | 53  | 311    | 0     | 6.5 | 0      | 0     | 2  | 0.3076 |
| S. Chiriac, L. M. Ivan, <u>D.</u><br><u>G. Dimitriu</u>                                                                               | Intermittency scenario of transition to<br>chaos in plasma related to the non-<br>concentric multiple double layers             | 2008 | Romanian<br>Journal of<br>Physics                          | 53  | 303    | 0     | 3   | 0      | 0     | 1  | 0.3333 |
| S. A. Chiriac, <u>D. G.</u><br><u>Dimitriu</u> , M. Sanduloviciu                                                                      | Type I intermittency related to the<br>spatio-temporal dynamics of double<br>layers and ion-acoustic instabilities in<br>plasma | 2007 | Physics of<br>Plasmas                                      | 14  | 072309 | 0.806 | 3   | 0.2686 | 0.806 | 15 | 5      |
| <u>D. G. Dimitriu</u> , M. Aflori,<br>L. M. Ivan, C. Ionita, R.<br>Schrittwieser                                                      | Common physical mechanism for<br>concentric and non-concentric<br>multiple double layers in plasma                              | 2007 | Plasma Physics<br>and Controlled<br>Fusion                 | 49  | 237    | 1.102 | 5   | 0.2204 | 1.102 | 28 | 5.6    |
| C. Ionita, <u>D. G. Dimitriu</u> , R.<br>W. Schrittwieser                                                                             | Complex space charge structures in<br>laboratory and natural plasmas                                                            | 2007 | Journal of<br>Optoelectronics<br>and Advanced<br>Materials | 9   | 2954   | 0.161 | 3   | 0.0536 | 0     | 0  | 0      |
| M. Dimitriu, <u>D. G.</u><br><u>Dimitriu</u> , D. O. Dorohoi                                                                          | Polarizabilities and electric dipole<br>moments in the excited states of some<br>cycloaducts                                    | 2007 | AIP Conference<br>Proceedings                              | 899 | 245    | 0     | 3   | 0      | 0     | 1  | 0.3333 |

|                                                                                                          |                                                                                                                         |      |                                                   |    |     |      |     |        |      |    |        |
|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------|----|-----|------|-----|--------|------|----|--------|
| <u>D. G. Dimitriu</u> , E. Lozneanu, M. Sanduloviciu                                                     | Plasma experiments with relevance for nano-science                                                                      | 2006 | Journal of Optoelectronics and Advanced Materials | 8  | 967 | 0.13 | 3   | 0.0433 | 0.13 | 0  | 0      |
| M. Mihai-Plugaru, L. M. Ivan, <u>D. G. Dimitriu</u>                                                      | 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, <u>D. G. Dimitriu</u>                                                             | 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 |
| <u>D. G. Dimitriu</u>                                                                                    | 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, <u>D. G. Dimitriu</u>                                           | Estimating electrons and ions energies in an RF capacitively-coupled argon discharge                                    | 2006 | Romanian Journal of Physics                       | 51 | 225 | 0    | 4   | 0      | 0    | 3  | 0.75   |
| L. Dumitrascu, I. Dumitrascu, D. O. Dorohoi, <u>D. G. Dimitriu</u> , G. Apreotesei, M. Aflori            | Complemente de fizica pentru studentii scolilor doctorale, vol. I                                                       | 2006 | Ed. TEHNOPRESS, Iași                              | -  | -   | 0    | 5.5 | 0      | 0    | 6  | 1.0909 |
| M. Aflori, G. Amarandei, L. M. Ivan, <u>D. G. Dimitriu</u> , 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, <u>D. G. Dimitriu</u> , 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  | 6  | 1      |
| M. Sanduloviciu, <u>D. G. Dimitriu</u> , 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, <u>D. G. Dimitriu</u> , 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, <u>D. G. Dimitriu</u> , 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   | 2  | 0.4    |
| M. Aflori, G. Amarandei, L. M. Ivan, M. Mihai-Plugaru, <u>D. G. Dimitriu</u> , 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, <u>D. G. Dimitriu</u>                                               | 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, <u>D. G. Dimitriu</u>                                                                                           | Straturi duble in plasma                                                                                                | 2005 | Ed. TEHNOPRESS, Iași                       | -   | -    | 0   | 2   | 0      | 0   | 3  | 1.5    |
| L. M. Ivan, C. Gaman, M. Aflori, M. Mihai-Plugaru, <u>D. G. Dimitriu</u> , E. Lozneau, M. Sanduloviciu                     | Experimental investigation of multiple self-organized structure in plasma                                               | 2005 | Romanian Journal of Physics                | 50  | 1089 | 0   | 6   | 0      | 0   | 1  | 0.1666 |
| C. Ionita, <u>D. G. Dimitriu</u> , 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   | 39 | 13     |
| <u>D. G. Dimitriu</u>                                                                                                      | 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 | 2  | 2      |
| <u>D. G. Dimitriu</u> , C. Gaman, M. Mihai-Plugaru, G. Amarandei, C. Ionita, E. Lozneau, 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 | 2  | 0.3076 |

|                                                                                                                       |                                                                                                            |      |                                              |         |     |     |     |        |     |   |        |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|------|----------------------------------------------|---------|-----|-----|-----|--------|-----|---|--------|
| E. Lozneanu, <u>D. G. Dimitriu</u> , 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    |
| <u>D. G. Dimitriu</u> , 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, <u>D. G. Dimitriu</u> , 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, <u>D. G. Dimitriu</u>                                                                                  | 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, <u>D. G. Dimitriu</u> , 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   | 8 | 1.2307 |
| M. Sanduloviciu, R. Schrittwieser, C. Avram, E. Lozneanu, <u>D. G. Dimitriu</u> , 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, <u>D. Dimitriu</u> , 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, <u>D. G. Dimitriu</u> , M. Ganciu, G. Musa, I. I.                                       | 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  |

|                                  |  |  |  |  |  |              |               |               |          |  |               |
|----------------------------------|--|--|--|--|--|--------------|---------------|---------------|----------|--|---------------|
| Popescu, E. Dewald, M.<br>Nistor |  |  |  |  |  |              |               |               |          |  |               |
|                                  |  |  |  |  |  |              |               | <b>I</b>      | <b>P</b> |  | <b>C</b>      |
|                                  |  |  |  |  |  | <b>TOTAL</b> | <b>6.7342</b> | <b>15.609</b> |          |  | <b>112.48</b> |

## Lista citărilor lucrărilor științifice folosite pentru calculul indicatorului C

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$c_1 = 6$

$$C_1 = 6 / 6.5 = 0.923$$

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$c_2 = 1$

$$C_2 = 1 / 5 = 0.2$$

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$c_3 = 1$

$$C_3 = 1 / 5.5 = 0.1818$$

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$c_4 = 8$

$$C_4 = 8 / 6.5 = 1.2307$$

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$c_{47} = 12$

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$C_{59} = 3$

$C_{59} = 3 / 4 = 0.75$

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$C_{60} = 11$

$C_{60} = 11 / 6 = 1.8333$

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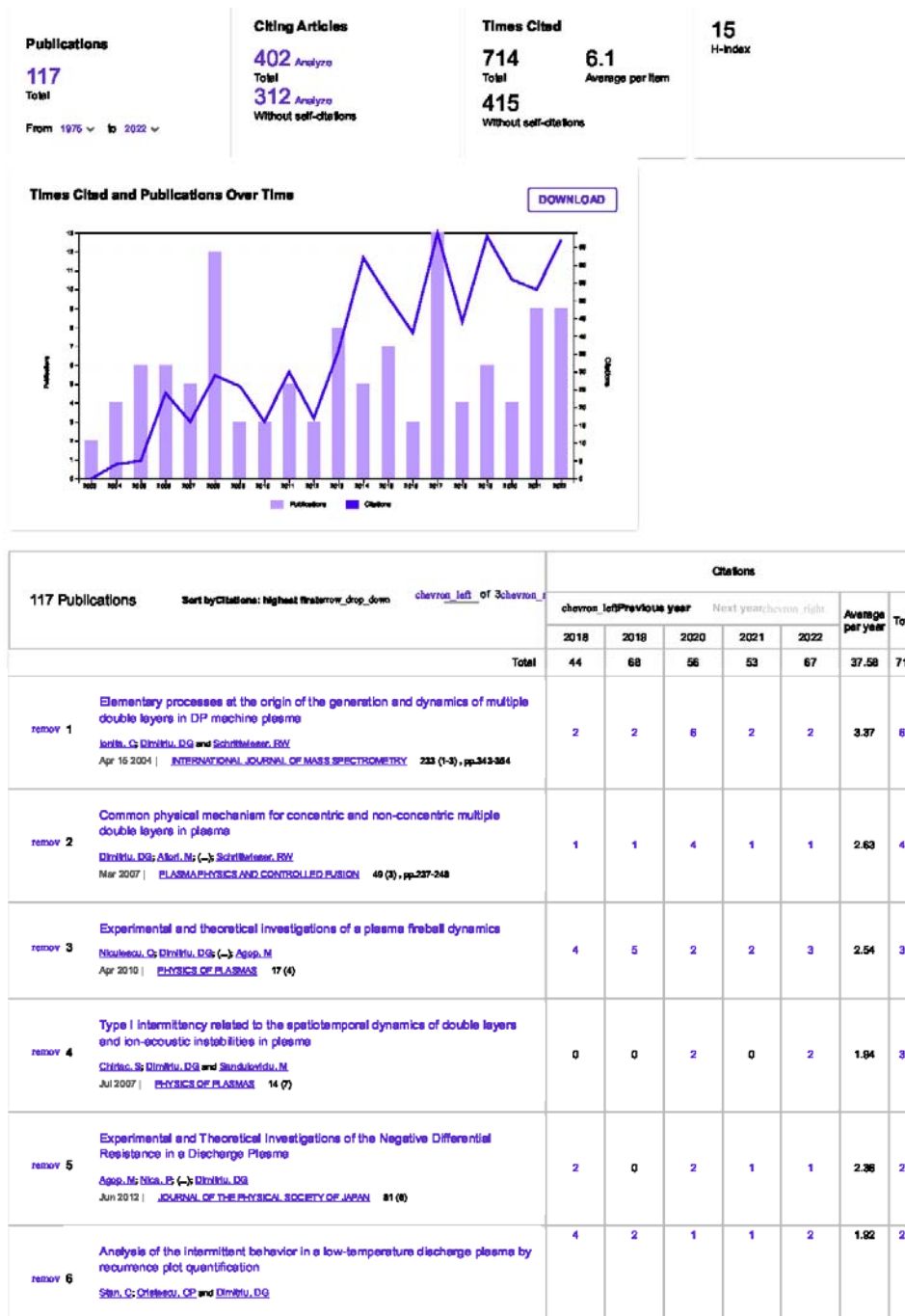
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## Indicele Hirsch conform bazei de date ISI Web of Science

$$h = 15$$



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|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|---|------|----|
|          | Apr 2010   <a href="#">PHYSICS OF PLASMAS</a>   17 (4)                                                                                                                                                                                                                                                                                                               |   |   |   |   |   |      |    |
| remov 7  | Collagen immobilization on polyethylene terephthalate surface after helium plasma treatment<br><a href="#">Afroz, M; Dobele, M; (-); Hansbajlu, V</a><br>9th International Conference on Physics of Advanced Materials (ICPAM)<br>Nov 20 2013   <a href="#">MATERIALS SCIENCE AND ENGINEERING: ADVANCED FUNCTIONAL SOLID-STATE MATERIALS</a> 178 (16) , pp.1300-1310 | 0 | 3 | 2 | 1 | 2 | 2.4  | 24 |
| remov 8  | On the interaction between two fireballs in low-temperature plasma<br><a href="#">Dimitru, DG; Iorduc, S; (-); Schrittwieser, RW</a><br>Nov 2015   <a href="#">PHYSICS OF PLASMAS</a> 22 (11)                                                                                                                                                                        | 1 | 2 | 2 | 6 | 5 | 2.63 | 21 |
| remov 9  | Specific interactions in N-ylid solutions, studied by nuclear magnetic resonance and electronic absorption spectroscopy<br><a href="#">Dobele, M; Dimitru, DG; (-); Ciura, V</a><br>31st European Congress on Molecular Spectroscopy (EUCOMOS)<br>Jul 24 2013   <a href="#">JOURNAL OF MOLECULAR STRUCTURE</a> 1044 , pp.79-85                                       | 1 | 3 | 1 | 1 | 1 | 1.8  | 18 |
| remov 10 | Experimental observation of multiple double layers structures in plasma - Part I: Concentric multiple double layers<br><a href="#">Afroz, M; Amarnath, G; (-); Sanduloviciu, M</a><br>Apr 2005   <a href="#">IEEE TRANSACTIONS ON PLASMA SCIENCE</a> 33 (2) , pp.642-643                                                                                             | 1 | 1 | 1 | 0 | 0 | 1    | 10 |
| remov 11 | Experimental observation of multiple double layers structures in plasma - Part II: Nonconcentric multiple double layers<br><a href="#">Ivan, LM; Amarnath, G; (-); Sanduloviciu, M</a><br>Apr 2006   <a href="#">IEEE TRANSACTIONS ON PLASMA SCIENCE</a> 33 (2) , pp.644-646                                                                                         | 0 | 0 | 1 | 0 | 1 | 0.94 | 17 |
| remov 12 | Experimental and theoretical investigations of plasma multiple double layers and their evolution to chaos<br><a href="#">Dimitru, DG; Afroz, M; (-); Aspo, M</a><br>Jun 2013   <a href="#">PLASMA SOURCES SCIENCE &amp; TECHNOLOGY</a> 22 (6)                                                                                                                        | 1 | 2 | 4 | 0 | 0 | 1.6  | 16 |
| remov 13 | Investigation of the bistable behaviour of multiple anodic structures in dc discharge plasma<br><a href="#">Chiriac, S; Afroz, M; and Dimitru, DG</a><br>8th International Balkan Workshop on Applied Physics<br>Feb 2008   <a href="#">JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS</a> 8 (1) , pp.135-138                                                     | 0 | 0 | 1 | 0 | 0 | 0.94 | 16 |
| remov 14 | Self-organization scenario relevant for nanoscale science and technology<br><a href="#">Sanduloviciu, M; Dimitru, DG; (-); Lohmeyer, E</a><br>7th International Conference on Physics of Advanced Materials<br>Apr 2005   <a href="#">JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS</a> 7 (2) , pp.845-851                                                       | 0 | 0 | 0 | 0 | 0 | 0.86 | 16 |
| remov 15 | The influence of electron impact ionisations on low frequency instabilities in a magnetised plasma<br><a href="#">Dimitru, DG; Iorduc, S; (-); Schrittwieser, RW</a><br>Jan 15 2003   <a href="#">INTERNATIONAL JOURNAL OF MASS SPECTROMETRY</a> 223 (1-2) , pp.141-168                                                                                              | 0 | 2 | 0 | 0 | 0 | 0.8  | 16 |
| remov 16 | Solventochromic Characterization of Sudan Derivatives in Binary and Ternary Solution<br><a href="#">Babusca, D; Bencos, AC; (-); Dorobol, DO</a><br>2016   <a href="#">ANALYTICAL LETTERS</a> 49 (16) , pp.2815-2828                                                                                                                                                 | 3 | 4 | 0 | 3 | 2 | 2.14 | 15 |

$$\begin{aligned}
 T &= A + P/2 + I/2 + C/20 + h/5 = 11.4422 + 15.609/2 + 6.7342/2 + 112.48/20 + 15/5 = \\
 &= 11.4422 + 7.8045 + 3.3671 + 5.6073 + 3 = \\
 &= 31.2378
 \end{aligned}$$



| <b>Criterii minimale conform ORDIN nr. 6129 din 20 decembrie 2016</b> | <b>Punctaj realizat</b> |
|-----------------------------------------------------------------------|-------------------------|
| $A \geq 2$                                                            | $A = 11.4422$           |
| $I \geq 4$                                                            | $I = 6.7342$            |
| $P \geq 4$                                                            | $P = 15.609$            |
| $C \geq 40$                                                           | $C = 112.48$            |
| Indice Hirsch h (conform ISI Web of Science) $\geq 10$                | Indice Hirsch h = 15    |
| $T \geq 12$                                                           | $T = 31.2378$           |

19 decembrie 2022

Conf. univ. dr. habil. Dan-Gheorghe DIMITRIU