

**FISA DE INDEPLINIRE A STANDARDELOR MINIMALE**

**CS I, dr. POLOSAN Silviu Pavel**

Domeniul de abilitare: **Fizică**

**I. Activitatea didactica si profesionala**

Nr. crt.	Tipul activitatii	Indicatori
1	<b>Carti in edituri internationale recunoscute de Web of Science in calitate de autor</b>	$A_1 = \sum_i 4/n_{ef}$
	<b>A<sub>1</sub>=</b>	<b>0</b>
2	<b>Capitole de carti in edituri internationale recunoscute de Web of Science in calitate de autor /Review-uri in reviste cotate ISI</b>	$A_2 = \sum_i 1/n_{ef}$
	<i>Effects Induced in Complex Biological Systems by High Density Green Photons</i> S.Comorosan, <b>S.Polosan</b> , M. Apostol, I. Popescu, I. Farcasanu, L. Paslaru, E. Ionescu Volume 7, 2014, pp 419-428, ISSN: 2195-9994, Editura: Springer International Publishing, <a href="https://doi.org/10.1007/978-3-319-02057-0_22">https://doi.org/10.1007/978-3-319-02057-0_22</a>	0.15
	<b>A<sub>2</sub>=</b>	<b>0.15</b>
3	<b>Carti in edituri internationale recunoscute de Web of Science in calitate de editor</b>	$A_3 = \sum_i 0.5/n_{ef}$
	<b>A<sub>3</sub>=</b>	<b>0</b>
4	<b>Carti, manuale, indrumare de laborator in edituri nationale sau alte edituri internationale ca autor, note interne, prezentari sustinute pentru aprobarea analizelor de date in cadrul colaborarilor mari</b>	$A_4 = \sum_i 0.5/n_{ef}$
	<b>A<sub>4</sub>=</b>	<b>0</b>
5	<b>Capitole de carti in edituri nationale sau alte edituri internationale ca autor</b>	$A_5 = \sum_i 0.2/n_{ef}$
	Capitolul 1: Materiale și tehnologii pentru secretizarea documentelor oficiale și echipamente de verificare a acestora, Pintilie, L; Secu, M; Galca, AC; <b>Polosan, S.</b> ; Dobrescu, G; Secu, C; Enuica, A Materiale Multifuncționale pentru Aplicații de Înaltă Tehnologie Pro Universitaria, 2022, ISBN/ISSN 978-606-26149-0-4	0.033
	Capitolul 7: Instalație de nanoșlefuire și nanoaliere cu electroni de joasă energie Capitolul 1: Materiale și tehnologii pentru secretizarea documentelor oficiale și echipamente de verificare a acestora, Pintilie, L; Ciobotaru, CC; Ciobotaru, CI; Iosub, DG; Nitescu, A; <b>Polosan, S</b> Materiale Multifuncționale pentru Aplicații de Înaltă Tehnologie Pro Universitaria, 2022, ISBN/ISSN 978-606-26149-0-4	0.036
	<b>A<sub>5</sub>=</b>	<b>0.069</b>
6	<b>Lucrari in Extenso (cel puțin 3 pagini) publicate in Proceedings-uri indexate ISI</b>	$A_6 = \sum_i 0.2/n_{ef}$
	<b>A<sub>6</sub>=</b>	<b>0</b>
7	<b>Brevete de inventie internationale acordate</b>	$A_7 = \sum_i 3/n_{ef}$
	<b>A<sub>7</sub>=</b>	<b>0</b>
8	<b>Brevete de inventie nationale acordate</b>	$A_8 = \sum_i 0.5/n_{ef}$
	Metoda de obtinere si material scintilator <b>S. Polosan, O. Pacala, M. Pacala</b>	

	RO 126160 A0	
		<b>A<sub>8</sub>=</b> 0.166
9	<b>Director/ Responsabil/coordonator pentru programe de studii, programe de formare continua, proiecte internationale si proiecte de infrastructura (proiectele de cercetare se exclud)</b>	A <sub>9</sub> =Σ <sub>i</sub> 0.5
		<b>A<sub>9</sub>=</b> 0
10	<b>Director/ Responsabil de proiecte</b>	A <sub>10</sub> =Σ <sub>i</sub> V <sub>i</sub> /100000
	<b>Director de proiect</b> PN II 71-007/2007 Materiale de tip eulytite pentru detectia de radiatii (2007-2010) <b>Total proiect: 2.000.000 RON/599.987 euro (curs 3,3373)</b>	5.99987
	<b>Director de proiect</b> PN-II-ID-PCE-2011-3-0620 (2011-2013) IDEI 78/2011 Emitori duali pentru afisaje bazate pe compusi de tip OLED <b>Total proiect: 1.500.000 RON/353.949 euro (curs 4,2379)</b>	5.353949
	<b>Director de proiect</b> <b>Contract CERES 21/2001</b> Medii active laser cu ioni negativi de plumb functionabili la temperatura camerei (2001-2003) <b>Total proiect: 684.000.000 lei/ 26,295 euro (curs 26012 lei)</b>	0.26295
	<b>Responsabi proiect</b> <b>PCCDI 47</b> , Noi direcții de dezvoltare tehnologică și de utilizare a materialelor nanocompozite avansate (2020-2023) <b>Total proiect: 291.611 RON/62.741 euro (curs 4.6478)</b>	0.62741
	<b>Responsabil proiect</b> <b>POC 54/05.09.2016</b> , Materiale multifunctionale inteligente pentru aplicatii de inalta tehnologie-MATI2IT (2016-2020) <b>Total proiect: 468.940 RON/103.265 euro (curs 4.5411)</b>	1.03265
	<b>Director proiect</b> <b>726PED/21.06.2022</b> , Electrozi metalici transparenti si conductori pentru Diode Organice Electroluminescente (2022-2024) <b>Total proiect: 598.795 lei/120.472 euro (curs 4.9704)</b>	1.20475
	<b>Director de proiect</b> <b>98PED/05.05.2024</b> Dezvoltarea detectorilor pe baza de absorbanti de volum pentru masurare a energiei laserilor cu CO <sub>2</sub> (2025-2027) <b>Total proiect: 750.000 lei/148.107 euor (curs 5.0639)</b>	1.48107
	<b>Responsabil proiect</b> Romania-Japonia ( <b>JSPS</b> ), Spectroscopic study of highly functional optical materials <b>Total proiect: 80.000 euro</b>	0.8
		<b>A<sub>10</sub>=</b> 16.762
		<b>TOTAL A I=</b> 17.147

## II. Activitatea de cercetare

Nr. crt.	Tipul activitatii	Indicatori	
1	Articole stiintifice originale in extenso ca autor.	AIS	I=Σ <sub>i</sub> AIS <sub>i</sub> /n <sub>ef</sub>

1.	<p>Bilayered metallic cathodes consisting of pure Mg and Zn:Al thin films optimized by Laser-induced Thermionic Vacuum Arc (LTVA) technology  A.Mandes, R. Vladioiu, V. Dinca, M. Tichy, P. Kudrna, E. Matei, <b>S. Polosan</b>  <i>Applied Surface Science Advances</i>, <b>28</b>, 100787, (2025)  <a href="https://doi.org/10.1016/j.apsadv.2025.100787">https://doi.org/10.1016/j.apsadv.2025.100787</a></p>	1.265	0.23
2.	<p>Phase Transitions in Dimer/Layered Sb-Based Hybrid Halide Perovskites: An In-Depth Analysis of Structural and Spectroscopic Properties  IC Ciobotaru, CC Ciobotaru, C Bartha, M Enculescu, M Secu, <b>S. Polosan</b>, C Besleaga,  <i>Advanced Optical Materials</i>, <b>13(4)</b>, 2402242 (2025)  <a href="https://doi.org/10.1002/adom.202402242">https://doi.org/10.1002/adom.202402242</a></p>	1.648	0.274
3.	<p>Versatile techniques based on the Thermionic Vacuum Arc (TVA) and laser-induced TVA methods for Mg/Mg:X thin films deposition-A review  R. Vladioiu, A. Mandes, V. Dinca, M. Tichy, P. Kudrna, C.C. Ciobotaru, <b>S. Polosan</b>  <i>J. Magnesium&amp;Alloys</i>, <b>12(8)</b>, 3115-3134 (2024)  <a href="https://doi.org/10.1016/j.jma.2024.08.012">https://doi.org/10.1016/j.jma.2024.08.012</a></p>	2.051	0.341
4.	<p>Structural and magneto-optical investigations of citrate sol-gel derived barium hexaferrite nanocrystalline powder  M. Secu, C.E. Secu, E. Matei, C. Negrila, V. Turchenko, <b>S. Polosan</b>  <i>J. Alloys&amp;Comp</i>, <b>983</b>, 173897 (2024)  <a href="https://doi.org/10.1016/j.jallcom.2024.173897">https://doi.org/10.1016/j.jallcom.2024.173897</a></p>	0.871	0.158
5.	<p>Microstructural and Morphological Characterization of the Cobalt-Nickel Thin Films Deposited by the Laser-Induced Thermionic Vacuum Arc Method  Dinca, V; Mandes, A; Vladioiu, R; Prodan, G ; Ciupina, V; <b>Polosan, S</b>  <i>Coatings</i>, <b>13(6)</b>, 984 (2023)  <a href="https://doi.org/10.3390/coatings13060984">https://doi.org/10.3390/coatings13060984</a></p>	0.418	0.076
6.	<p>Organic Light-Emitting Diodes with Electrospun Electrodes for Double-Side Emissions  Ciobotaru, IC; Enculescu, M; <b>Polosan, S</b>; Enculescu, I ; Ciobotaru, CC  <i>Micromachines</i>, <b>14(3)</b>, 543 (2023)  <a href="https://doi.org/10.3390/mi14030543">https://doi.org/10.3390/mi14030543</a></p>	0.490	0.098
7.	<p>Synthesis of Cobalt-Nickel Aluminate Spinel Using the Laser-Induced Thermionic Vacuum Arc Method and Thermal Annealing Processes  Vladioiu, R, Mandes, A , Dinca, V, Matei, E, <b>Polosan, S</b>  <i>Nanomaterials</i>, <b>12(21)</b>, 3895 (2022)  <a href="https://doi.org/10.3390/nano12213895">https://doi.org/10.3390/nano12213895</a></p>	0.712	0.142
8.	<p>Microscopic mechanism of ferroelectric properties in barium hexaferrites  Turchenko, V; Bondyakov, AS; Trukhanov, S ; Fina, I ; Korovushkin, VV;  Balasoiu, M; <b>Polosan, S</b> ; Bozzo, B; Lupu, N; Trukhanov, A  <i>J. Alloys&amp;Comp</i>, <b>931</b>, 167433 (2023)</p>	0.738	0.098

	<a href="https://doi.org/10.1016/j.jallcom.2022.167433">https://doi.org/10.1016/j.jallcom.2022.167433</a>		
9. Charge transport mechanisms in free-standing devices with electrospun electrodes Ciobotaru, IC; <b>Polosan, S</b> ; Enculescu, M; Nitescu, A; Enculescu, I; Beregoi, M; Ciobotaru, CC <i>Nanotechnology</i> , <b>33(39)</b> , 395203 (2022) <a href="https://doi.org/10.1088/1361-6528/ac7ac1">https://doi.org/10.1088/1361-6528/ac7ac1</a>	0.555	0.092	
10. Mud and burnt Roman bricks from Romula Badica, P; Alexandru-Dinu, A; Grigoroscuta, MA; Burdusel, M ; Aldica, GV ; Sandu, V; Bartha, C; <b>Polosan, S</b> ; Galatanu, A; Kuncser, V; Enculescu, M; Locovei, C; Porosnicu, I; Tiseanu, I; Ferbinteanu, M; Savulescu, I; Negru, M; Batalu, ND <i>Scientific Reports</i> , <b>12(1)</b> , 15864 (2022) <a href="https://doi.org/10.1038/s41598-022-19427-7">https://doi.org/10.1038/s41598-022-19427-7</a>	1.132	0.072	
11. Magnetic Core-Shell Iron Oxides-Based Nanophotocatalysts and Nanoadsorbents for Multifunctional Thin Films Musat, V; Stanica, N; Anghel, EM; Atkinson, I; Culita, DC; Polosan, S; Crintea, L; Ceuromila, AC; Buruiana, CT ; Carp, O <i>Membranes</i> , <b>12(5)</b> , 466 (2022) <a href="https://doi.org/10.3390/membranes12050466">https://doi.org/10.3390/membranes12050466</a>	0.530	0.070	
12. The Synergistic Effect of the Laser Beam on the Thermionic Vacuum Arc Method for Titanium-Doped Chromium Thin Film Deposition Vladoiu, R; Mandes, A; Dinca, V; Ciupina, V; Matei, E; <b>Polosan, S</b> <i>Coatings</i> , <b>12(4)</b> , 470 (2022) <a href="https://doi.org/10.3390/coatings12040470">https://doi.org/10.3390/coatings12040470</a>	0.439	0.079	
13. Electron Irradiation of Titanium-Doped Chromium Nanostructured Thin Films for Higher Conductive Electrodes <b>Polosan, S</b> , Ciobotaru, CC , Ciobotaru, IC , Enculescu, M, Iosub, D , Mandes, A, Vladoiu, R <i>IEEE Trans.Nanotech.</i> , <b>21</b> , 823 (2022) <a href="https://doi.org/10.1109/TNANO.2022.3227366">https://doi.org/10.1109/TNANO.2022.3227366</a>	0.474	0.079	
14. The origin of the dual ferroic properties in quasi-centrosymmetrical SrFe <sub>12-x</sub> In <sub>x</sub> O <sub>19</sub> hexaferrites Trukhanov, AV; Turchenko, VA; Kostishin, VG ; Damay, F; Porcher, F; Lupu, N; Bozzo, B; Fina, I; <b>Polosan, S</b> ; Silibin, MV; Salem, MM; Tishkevich, DI; Trukhanov, SV <i>J. Alloys&amp;Comp.</i> , <b>886</b> , 161249 (2021) <a href="https://doi.org/10.1016/j.jallcom.2021.161249">https://doi.org/10.1016/j.jallcom.2021.161249</a>	0.700	0.077	
15. Highly Conductive Carbon-Based Thin Films Produced by Low-Energy Electron Irradiation Ciobotaru, CC, Ciobotaru, IC, Iosub, DG, <b>Polosan, S</b> <i>J. Electr. Mater.</i> , <b>50(10)</b> , 5529 (2021) <a href="https://doi.org/10.1007/s11664-021-09058-5">https://doi.org/10.1007/s11664-021-09058-5</a>	0.259	0.065	
16. Structural, magneto-optical and dielectric properties of phosphate tellurite glasses <b>Polosan, S</b> , Ganea, P, Nitescu, A <i>Mater. Res. Bull.</i> , <b>143</b> , 111455 (2021)	0.515	0.171	

	<a href="https://doi.org/10.1016/j.materresbull.2021.111455">https://doi.org/10.1016/j.materresbull.2021.111455</a>		
	17. Electronic and transport properties of the dual-emitter organometallic compound IrQ(ppy) <sub>2</sub> <b>Polosan S.</b> <i>J. Organomet. Chem.</i> , <b>942</b> , 121814 (2021) DOI10.1016/j.jorganchem.2021.121814	0.281	0.281
	18. Magnesium-silver cathodes for efficient charge injection into Organic Light Emitting Diodes deposited by LTVA method Vladoiu, R, Mandes, A; Dinca, V Kudrna, P, Tichy, M, <b>Polosan, S</b> <i>J. Alloys&amp;Comp.</i> , <b>869</b> , 159364 (2021) <a href="https://doi.org/10.1016/j.jallcom.2021.159364">https://doi.org/10.1016/j.jallcom.2021.159364</a>	0.700	0.140
	19. Structural features, magnetic and ferroelectric properties of SrFe <sub>10.8</sub> In <sub>1.2</sub> O <sub>19</sub> compound Turchenko, V; Kostishin, VG; Trukhanov, S; Damay, F; Balasoiu, M; Bozzo, B; Fina, I; Burkhovetsky,; <b>Polosan, S</b> ; Zdorovets, MV; Kozlovskiy, AL; Astapovich, KA; Trukhanov, A <i>Mater. Res. Bull.</i> , <b>138</b> , 111236 (2021) <a href="https://doi.org/10.1016/j.materresbull.2021.111236">https://doi.org/10.1016/j.materresbull.2021.111236</a>	0.515	0.057
	20. Synthesis and characterization of magnetic oxide nanoparticles and corresponding thin films for wastewaters treatment Critea, L; Musat, V; <b>Polosan, S</b> ; Cantaragiu, A ; Basliu, V; Dediu, A; Dinica, R <i>Ovidius Univ. Annals Chem.</i> <b>31(2)</b> , 122 (2020) <a href="https://doi.org/10.2478/auoc-2020-0021">https://doi.org/10.2478/auoc-2020-0021</a>	0.085	0.014
	21. Crystal and magnetic structures, magnetic and ferroelectric properties of strontium ferrite partially substituted with in ions Turchenko, V; Kostishyn, VG; Trukhanov, S; Damay, F; Porcher, F; Balasoiu, M; Lupu, N; Bozzo, B; Fina, I; Trukhanov, A; Waliszewski, J; Recko, K; <b>Polosan, S</b> <i>J. Alloys&amp;Compounds</i> , <b>821</b> , 153412 (2020) <a href="https://doi.org/10.1016/j.jallcom.2019.153412">https://doi.org/10.1016/j.jallcom.2019.153412</a>	0.716	0.079
	22. Detailed Molecular and Structural Analysis of Dual Emitter IrQ(ppy) <sub>2</sub> Complex Ciobotaru, IC, Crisan, DN, Sket, P Ciobotaru, CC, <b>Polosan, S</b> <i>Materials</i> , <b>13(7)</b> , 1617 (2020) <a href="https://doi.org/10.3390/ma13071617">https://doi.org/10.3390/ma13071617</a>	0.597	0.119
	23. ZnO nanostructures grown on ITO coated glass substrate by hybrid microwave-assisted hydrothermal method Filip, A; Musat, V; Tigau, N; <b>Polosan, S</b> ; Pimentel, A; Ferreira, S; Gomes, D; Calmeiro, T; Martins, R; Fortunato, E <i>Optik</i> , <b>208</b> , 164372 (2020) <a href="https://doi.org/10.1016/j.ijleo.2020.164372">https://doi.org/10.1016/j.ijleo.2020.164372</a>	0.266	0.035
	24. Magnetic and ferroelectric properties, crystal and magnetic structures of SrFe <sub>11.9</sub> In <sub>0.1</sub> O <sub>19</sub> Turchenko, VA; Trukhanov, A; Trukhanov, S; Damay, F ; Porcher, F; Balasoiu, M; Lupu, N; Chiriac, H; Bozzo, B; Fina, I; Waliszewski, J; Kostishyn, VG; Recko, K; <b>Polosan, S</b>	0.520	0.055

	<i>Physica Scripta</i> , <b>95(4)</b> , 044006 (2020) <a href="https://doi.org/10.1088/1402-4896/ab60fb">https://doi.org/10.1088/1402-4896/ab60fb</a>		
	25. Optical spectroscopy and dielectric properties of phosphate-tellurite glasses <b>Polosan, S</b> , Nitescu, A, Secu, M <i>Phys. Scripta</i> , <b>95(3)</b> , 034005 (2020) <a href="https://doi.org/10.1088/1402-4896/ab5263">https://doi.org/10.1088/1402-4896/ab5263</a>	0.520	0.173
	26. Organometallic Coatings for Electroluminescence Applications <b>Polosan, S</b> , Ciobotaru IC, Ciobotaru, CC <i>Coatings</i> , <b>10(3)</b> , 277 (2020) <a href="https://doi.org/10.3390/coatings10030277">https://doi.org/10.3390/coatings10030277</a>	0.406	0.135
	27. Sol-Gel Processing of Bismuth Germanate Thin-Films Secu, M, Secu, CE, Tite, T, Polosan, S <i>Coatings</i> , <b>10(3)</b> , 255 (2020) <a href="https://doi.org/10.3390/coatings10030255">https://doi.org/10.3390/coatings10030255</a>	0.406	0.101
	28. Structure and low field magnetic properties in phosphate-tellurite glasses <b>Polosan S.</b> <i>J. Non-Cryst. Solids</i> , <b>524</b> , 119651 (2019) <a href="https://doi.org/10.1016/j.inoncryso1.2019.119651">https://doi.org/10.1016/j.inoncryso1.2019.119651</a>	0.440	0.440
	29. Charge Transfer from Alq <sub>3</sub> -5Cl to Graphene Oxide in Donor-Acceptor Heterostructures <b>Polosan, S</b> , Ciobotaru, CC, Ciobotaru, IC <i>J. Electr. Mater.</i> <b>48(11)</b> , (2019) <a href="https://doi.org/10.1007/s11664-019-07531-w">https://doi.org/10.1007/s11664-019-07531-w</a>	0.274	0.091
	30. Crystallization processes in europium-doped Bi <sub>4</sub> Ge <sub>3</sub> O <sub>12</sub> glass materials <b>Polosan S.</b> <i>J. Luminescence</i> , <b>213</b> , 235 (2019) <a href="https://doi.org/10.1016/j.jlumin.2019.05.031">https://doi.org/10.1016/j.jlumin.2019.05.031</a>	0.412	0.412
	31. Efficiency enhancement of iridium-based organometallic light emitting diodes <b>Polosan S.</b> <i>Materials Research Express</i> , <b>6(5)</b> , 055104 (2019) <a href="https://doi.org/10.1088/2053-1591/ab0625">https://doi.org/10.1088/2053-1591/ab0625</a>	0.228	0.228
	32. Organometallic compounds for photovoltaic applications Ciobotaru, IC; <b>Polosan, S</b> ; Ciobotaru, CC <i>Inorganica Chimica Acta</i> , 483, 448 (2018) <a href="https://doi.org/10.1016/j.ica.2018.08.042">https://doi.org/10.1016/j.ica.2018.08.042</a>	0.272	0.091
	33. Low energy electron irradiation of carbon thin films Pacala, O, Ciuca, I, Logofatu, C, <b>Polosan, S</b> <i>Materials Research Express</i> , <b>5(5)</b> , 055607 (2018) <a href="https://doi.org/10.1088/2053-1591/aac472">https://doi.org/10.1088/2053-1591/aac472</a>	0.236	0.059
	34. Electroluminescence Properties of IrQ(ppy) <sub>2</sub> Dual-Emitter Organometallic Compound in Organic Light-Emitting Devices Ciobotaru, CC; <b>Polosan, S</b> ; Ciobotaru, IC <i>J. Electr. Mater.</i> , <b>47(2)</b> , 1490 (2018)	0.273	0.091

	<a href="https://doi.org/10.1007/s11664-017-5945-3">https://doi.org/10.1007/s11664-017-5945-3</a>		
	35. Charge carrier traps in tris-(8-hydroxyquinoline) aluminum Secu M, <b>Polosan S.</b> <i>J. Luminescence</i> , <b>194</b> , 91 (2018) <a href="https://doi.org/10.1016/j.jlumin.2017.10.003">https://doi.org/10.1016/j.jlumin.2017.10.003</a>	0.421	0.210
	36. Enhancement of the electroluminescence of organic light emitting devices based on Ir(ppy) <sub>3</sub> by doping with metallic and magnetic nanoparticles Ciobotaru, CC, Ciobotaru, IC, Schinteie, G , Negrea, R, <b>Polosan, S</b> <i>Mater. Sci. in Semicond. Processing</i> , <b>72</b> , 78 (2017) <a href="https://doi.org/10.1016/j.mssp.2017.09.019">https://doi.org/10.1016/j.mssp.2017.09.019</a>	0.379	0.075
	37. Crystallization of bismuth germanate glasses below their glass transition temperature <b>Polosan S.</b> <i>J. Non-Cryst. Solids</i> , <b>472</b> , 55 (2017) <a href="https://doi.org/10.1016/j.jnoncrysol.2017.07.010">https://doi.org/10.1016/j.jnoncrysol.2017.07.010</a>	0.427	0.427
	38. Crystallization properties of IrQ(ppy) <sub>2</sub> organometallic complex films <b>Polosan, S</b> , Ciobotaru, CC, Ciobotaru, IC, Tsuboi, T <i>J. Mater. Res.</i> , <b>32(9)</b> , 1735 (2017) <a href="https://doi.org/10.1557/jmr.2017.155">https://doi.org/10.1557/jmr.2017.155</a>	0.441	0.110
	39. Templateless electrodeposition ZnO nanowires for charge transport optimization in OLED structures <b>Polosan, S</b> , Matei, E, Ciobotaru, IC Ciobotaru, CC <i>Materials Research Express</i> , <b>3(10)</b> , 105018 (2016) <a href="https://doi.org/10.1088/2053-1591/3/10/105018">https://doi.org/10.1088/2053-1591/3/10/105018</a>	0.231	0.057
	40. Structural and morphological evolutions induced by the annealing of CaF <sub>2</sub> nanocrystalline powders by using Eu <sup>3+</sup> ion probe luminescence <b>Polosan, S</b> , Secu, M, Enculescu, M <i>Digest Journal of Nanomaterials &amp; Biostructures</i> , <b>11(2)</b> , 615 (2016)	0.150	0.05
	41. Absorption, phosphorescence and Raman spectra of IrQ(ppy) <sub>2</sub> organometallic compound <b>Polosan, S</b> , Ciobotaru, IC; Tsuboi, T <i>Materials Chemistry &amp; Physics</i> <b>162</b> , 822 (2015) <a href="https://doi.org/10.1016/j.matchemphys.2015.07.009">https://doi.org/10.1016/j.matchemphys.2015.07.009</a>	0.479	0.159
	42. Conformational changes and metastable states induced in proteins by green light Comorosan, S; Popescu, I; <b>Polosan, S</b> ; Pirvu, C; Ionescu, E; Paslaru, L; Apostol, M <i>Eur. Phys. J. B</i> , <b>88(1)</b> , 8 (2015) <a href="https://doi.org/10.1140/epjb/e2014-50717-8">https://doi.org/10.1140/epjb/e2014-50717-8</a>	0.198	0.033
	43. Embedding of IrQ(ppy) <sub>2</sub> organometallic compounds in polypyrrole conducting polymer for OLED's applications I.C. Ciobotaru, E. Matei, C.C. Ciobotaru, <b>S. Polosan</b> , <i>Synthetic Metals</i> <b>198</b> , 323 (2014) <a href="https://doi.org/10.1016/j.synthmet.2014.10.041">https://doi.org/10.1016/j.synthmet.2014.10.041</a>	0.438	0.1095
	44. Structural characteristics of iridium dual-emitter organometallic compound	0.575	0.1437

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	45. Ferromagnetic behaviour of bismuth germanate oxides glass-ceramic materials <b>S. Polosan</b> , R. Negrea, I.C. Ciobotaru, G. Schinteie, V. Kuncser <i>J. Alloys &amp; Comp.</i> <b>623</b> , 192, (2014) <a href="https://doi.org/10.1016/j.jallcom.2014.10.104">https://doi.org/10.1016/j.jallcom.2014.10.104</a>	0.557	0.111
	46. Covalent functionalization of single walled carbon nanotubes with doxorubicin for controlled drug delivery systems C.C. Ciobotaru, C.M. , Damian, <b>S. Polosan</b> , E. Matei, H. Iovu, <i>Dig J Nanomater Biostr.</i> <b>9(1)</b> , 413 (2014)	0.202	0.040
	47. Drug delivery study of single-wall carbon nanotubes covalent functionalized cisplatin C.C. Ciobotaru, C.M. , Damian, <b>S. Polosan</b> , M. Prodana, H. Iovu <i>Dig J Nanomater Biostr.</i> <b>9(2)</b> , 859 (2014)	0.202	0.040
	48. Electroluminescence of OLED based IrQ(ppy) <sub>2</sub> -5Cl organometallic compound: Theoretical considerations <b>S. Polosan</b> , I.C. Ciobotaru <i>J. Opt.&amp; Adv. Mater.</i> <b>16(1-2)</b> , 87 (2014)	0.089	0.044
	49. Thermally activated conversion of a silicate gel to an oxyfluoride glass ceramic: Optical study using Eu <sup>3+</sup> probe ion C.E. Secu, C. Bartha, <b>S. Polosan</b> , M. Secu <i>J. Luminescence</i> , <b>146</b> , 539, (2014) <a href="https://doi.org/10.1016/j.jlumin.2013.10.013">https://doi.org/10.1016/j.jlumin.2013.10.013</a>	0.506	0.126
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	51. Optical manipulation of complex molecular systems: experimental and theoretical evidence S. Comorosan, <b>S. Polosan</b> , I. Popescu, I. Stamatina, E. Ionescu, S. Avramescu, L.C. Cune, M. Apostol <i>European Physical Journal B</i> , <b>86</b> , 9.232 (2013) <a href="https://doi.org/10.1140/epjb/e2013-40049-8">https://doi.org/10.1140/epjb/e2013-40049-8</a>	0.616	0.094
	52. Lead incorporation mechanism in LiF crystals F. D' Acapito, P. Pochet , F. Somma , P. Aloe , R. M. Montereali , M. A. Vincenti , <b>S. Polosan</b> <i>Applied Physics Letters</i> <b>102</b> , 081107 (2013) <a href="https://doi.org/10.1063/1.4793751">https://doi.org/10.1063/1.4793751</a>	1.217	0.202
	53. Optical properties of T-centers under gamma irradiation <b>S.Polosan</b> , E.Apostol, C.Dragusin, V.Topa <i>Roum. Reports</i> , <b>5 (2)</b> , 253, (2003)	0.125	0.0312
	54. Antioxidant effects induced in biological macromolecular systems by high density photons through localized excitations	1.521	0.2687

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55. Mechanisms of the charge transfer in IrQ(ppy) <sub>2</sub> -5Cl dual-emitter compounds <b>S. Polosan</b> , I.C. Radu <i>J. Nanosci. Nanotechnol.</i> <b>13(7)</b> , 5203, (2013) <a href="https://doi.org/10.1166/jnn.2013.7513">https://doi.org/10.1166/jnn.2013.7513</a>	0.205	0.102
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57. High-density Green Photons Effects on NaCl Solutions Detected by Red Blood Cells Membranes R. Mitrica, I. Popescu, L. Paslaru, D. Badila, <b>S. Polosan</b> , L. Cristache, E. Ionescu, C. Tataru, S. Comorosan <i>Dig. J. Nanostruct. B</i> , <b>7(1)</b> , 227, (2012)	0.230	0.032
58. Investigations of the non-isothermal crystallization of Bi <sub>4</sub> Ge <sub>3</sub> O <sub>12</sub> (2:3) glasses G. Aldica, <b>S. Polosan</b> <i>J. Non-Cryst. Solids</i> , <b>358</b> , 1221, (2012) <a href="https://doi.org/10.1016/j.jnoncrysol.2012.02.025">https://doi.org/10.1016/j.jnoncrysol.2012.02.025</a>	0.45	0.2250
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60. Magneto-optical investigations of rare earth doped sol-gel derived silicate xerogels C.E. Secu, <b>S. Polosan</b> , M. Secu <i>J. Luminescence</i> , <b>131 (8)</b> , 1747, (2011) <a href="https://doi.org/10.1016/j.jlumin.2011.04.031">https://doi.org/10.1016/j.jlumin.2011.04.031</a>	0.503	0.167
61. Optical spectroscopy of heavily Ho <sup>3+</sup> -doped BaY <sub>2</sub> F <sub>8</sub> crystals T. Tsuboi, K. H. Jang, <b>S. Polosan</b> , K. Shimamura, M. Bettinelli, H. J. Seo <i>J. Luminescence</i> , <b>131(4)</b> , 695, (2011) <a href="https://doi.org/10.1016/j.jlumin.2010.11.020">https://doi.org/10.1016/j.jlumin.2010.11.020</a>	0.503	0.091
62. Structural changes during the crystallization of the Bi <sub>4</sub> Ge <sub>3</sub> O <sub>12</sub> glasses <b>S. Polosan</b> , F. Nastase, M. Secu <i>J. Non-Cryst. Solids</i> , <b>357</b> , 1110, (2011) <a href="https://doi.org/10.1016/j.jnoncrysol.2010.10.016">https://doi.org/10.1016/j.jnoncrysol.2010.10.016</a>	0.460	0.153
63. Band-gap correlations in Bi <sub>4</sub> Ge <sub>3</sub> O <sub>12</sub> amorphous and glass-ceramic materials <b>S. Polosan</b> , A.C. Galca, M. Secu <i>Solid State Science</i> , <b>13(1)</b> , 49-53, (2011) <a href="https://doi.org/10.1016/j.solidstatesciences.2010.10.007">https://doi.org/10.1016/j.solidstatesciences.2010.10.007</a>	0.540	0.180

64. Synthesis of Eu-doped bismuth germanate nano-ceramic powder by solid state reaction <b>S. Polosan</b> , E. Matei, C. Logofatu <i>Opt. &amp; Adv. Mat.-Rapid Comm.</i> , <b>4(10)</b> , 1503, (2010)	0.078	0.026
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66. Growth and optical characterization of Pb, Tl doped LiF crystals F. Somma, R.M.Montereali, M.A.Vincenti, <b>S. Polosan</b> M. Secu <i>Opt. Mat.</i> , <b>32</b> , 1309, (2010) <a href="https://doi.org/10.1016/j.optmat.2010.04.038">https://doi.org/10.1016/j.optmat.2010.04.038</a>	0.567	0.1134
67. Structural studies on serum albumins under green light irradiations S. Comorosan, <b>S. Polosan</b> , I. Popescu, E. Ionescu, R. Mitrica, L.Cristache, A. E. State <i>Eur. Biophys. J.</i> <b>39(11)</b> , 1483, (2010) <a href="https://doi.org/10.1007/s00249-010-0606-y">https://doi.org/10.1007/s00249-010-0606-y</a>	0.935	0.155
68. Dynamics of energy absorption versus crystallization in Bi <sub>4</sub> Ge <sub>3</sub> O <sub>12</sub> (BGO) amorphous materials <b>S. Polosan</b> <i>Materials Research Bulletin</i> , <b>45</b> , 1492, (2010) <a href="https://doi.org/10.1016/j.materresbull.2010.06.017">https://doi.org/10.1016/j.materresbull.2010.06.017</a>	0.623	0.623
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70. Crystallization and spectroscopic properties of CaF <sub>2</sub> :Eu <sup>3+</sup> nanocrystals in transparent oxyfluoride glass ceramics M. Secu, C.E. Secu, <b>S. Polosan</b> , G. Aldica, C. Ghica <i>J. Non-Cryst. Solids</i> , <b>355 (37-42)</b> , 1869, (2009) <a href="https://doi.org/10.1016/j.jnoncrysol.2009.04.062">https://doi.org/10.1016/j.jnoncrysol.2009.04.062</a>	0.542	0.108
71. Characterization of BGO glass-ceramic materials <b>S. Polosan</b> <i>J. Non-Cryst. Solids</i> , <b>355 (37-42)</b> , 1900, (2009) <a href="https://doi.org/10.1016/j.jnoncrysol.2009.04.061">https://doi.org/10.1016/j.jnoncrysol.2009.04.061</a>	0.542	0.542
72. Optical spectroscopy and thermoluminescence of electrolytically colored KCl:Ti <sup>+</sup> crystals <b>S. Polosan</b> , M. Enculescu, M. Secu, E. Apostol <i>J. Opt.&amp; Adv. Mater.</i> , <b>10(11)</b> , 3008, (2008)	0.113	0.0275
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75. Optical properties of CaF <sub>2</sub> :Eu <sup>3+</sup> nanocrystals embedded in transparent oxyfluoride glass ceramic <b>S Polosan</b> , C.E. Secu <i>J. Opt. &amp; Adv. Mater.</i> <b>10 (8)</b> , 2134-2137, 2008	0.113	0.055
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77. The preparation of (8-hydroxyquinolinato) bis(2-phenylpyridyl) iridium complexes and their photophysical properties D.F. Huang, T.J.Chow, C.Y. Wu, S.S. Sun, S.H. Tsai, Y.S. Wen, <b>S.Polosan</b> , T.Tsuboi <i>J. Chinese Chemical Soc.</i> <b>55(2)</b> , 439, (2008) <a href="https://doi.org/10.1002/jccs.200800066">https://doi.org/10.1002/jccs.200800066</a>	0	0
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80. Lead nanocrystals in KCl matrix <b>S.Polosan</b> , E.Vasile, E.Apostol, V.Topa <i>J. Opt. &amp; Adv. Mater.</i> , <b>3</b> , 137, (2001)	0	0
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83. New perturbed Pb <sup>2+</sup> aggregate centers in electrolytically colored KBr: Pb <sup>2+</sup> (Ca, Ba) crystals <b>S. Polosan</b> , V. Topa, E. Apostol, T. Tsuboi <i>J. Luminescence</i> , <b>122</b> , 946, (2007) <a href="https://doi.org/10.1016/j.jlumin.2006.01.364">https://doi.org/10.1016/j.jlumin.2006.01.364</a>	0.57	0.1419
84. Electrolytic reduction of Tl <sup>+</sup> ions in KCl crystals <b>S.Polosan</b> , T.Tsuboi, E.Apostol, V.Topa <i>Optical Materials</i> , <b>30 (1)</b> , 95, (2007) <a href="https://doi.org/10.1016/j.optmat.2006.11.006">https://doi.org/10.1016/j.optmat.2006.11.006</a>	0.575	0.142
85. Emission properties of T <sub>a</sub> -centres in KCl V.Topa, T.Tsuboi, <b>S. Polosan</b>	0	0

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	86. Negatively charged Pb <sup>-</sup> ion produced by electrolytical colouration of KCl crystals containing Li <sup>+</sup> , Na <sup>+</sup> and Rb <sup>+</sup> ions T. Tsuboi, <b>S. Polosan</b> , V. Topa <i>J. Phys.: Condens. Matter</i> <b>14(1-8)</b> , 30, 7265, (2002) <a href="https://doi.org/10.1088/0953-8984/14/30/315">https://doi.org/10.1088/0953-8984/14/30/315</a>	0	0
	87. Chemical Composition of Structures Obtained inside Quartz Crystals by Sodium Electrodiffusion B. Iliescu, I. Enculescu, I. Pera, G. Alexe, <b>S. Polosan</b> , A. Stanculescu <i>Cryst. Res. Tech.</i> , <b>36</b> , 403, (2001) <a href="https://doi.org/10.1002/1521-4079(200106)36:4/5&lt;403::AID-CRAT403&gt;3.0.CO;2-H">https://doi.org/10.1002/1521-4079(200106)36:4/5&lt;403::AID-CRAT403&gt;3.0.CO;2-H</a>	0	0
	88. The Pb <sup>2+</sup> (Li) and Pb <sup>2+</sup> (Na) centers in KCl crystals T. Tsuboi, <b>S. Polosan</b> , V. Topa <i>Physica Status Solidi (b)</i> , <b>217</b> , 975, (2000) <a href="https://doi.org/10.1002/(SICI)1521-3951(200002)217:2&lt;975::AID-PSSB975&gt;3.0.CO;2-U">https://doi.org/10.1002/(SICI)1521-3951(200002)217:2&lt;975::AID-PSSB975&gt;3.0.CO;2-U</a>	0	0
	89. Silver nanocrystals obtained by ionization of Ag <sup>-</sup> ions E. Vasile, E. Apostol, M. Datcu, <b>S. Polosan</b> , V. Topa <i>Journal of Crystal Growth</i> , <b>198-199</b> , 806, (1999) <a href="https://doi.org/10.1016/S0022-0248(98)01112-9">https://doi.org/10.1016/S0022-0248(98)01112-9</a>	0	0
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		I=	11.15

Nr. crt.	Tipul activitatii	Indicatori	
		AIS	P=Σ <sub>i</sub> AIS <sub>i</sub>
2	<b>Articole stiintifice originale in extenso ca prim autor sau autor corespondent, conform mentiunilor de pe articol.</b>	AIS	P=Σ <sub>i</sub> AIS <sub>i</sub>
	1. Bilayered metallic cathodes consisting of pure Mg and Zn:Al thin films optimized by Laser-induced Thermionic Vacuum Arc (LTVA) technology A. Mandes, R. Vladioiu, V. Dinca, M. Tichy, P. Kudrna, E. Matei, <b>S. Polosan</b> <i>Applied Surface Science Advances</i> , <b>28</b> , 100787, (2025)	1.265	1.265
	2. Phase Transitions in Dimer/Layered Sb-Based Hybrid Halide Perovskites: An In-Depth Analysis of Structural and Spectroscopic Properties I.C. Ciobotaru, C.C. Ciobotaru, C. Bartha, M. Enculescu, M. Secu, <b>S. Polosan</b> , C. Besleaga, <i>Advanced Optical Materials</i> , <b>13(4)</b> , 2402242 (2025)	1.648	1.648
	3. Versatile techniques based on the Thermionic Vacuum Arc (TVA) and laser-induced TVA methods for Mg/Mg:X thin films deposition-A review	2.051	2.051

	R. Vladoiu, A. Mandes, V. Dinca, M. Tichy, P. Kudrna, C.C. Ciobotaru, <b>S. Polosan</b> <i>J. Magnesium&amp;Alloys</i> , <b>12(8)</b> , 3115, (2024)		
	4. Structural and magneto-optical investigations of citrate sol-gel derived barium hexaferrite nanocrystalline powder M. Secu, C.E. Secu, E. Matei, C. Negrila, V. Turchenko, <b>S. Polosan</b> <i>J. Alloys&amp;Comp</i> , <b>983</b> , 173897, (2024)	0.871	0.871
	5. Microstructural and Morphological Characterization of the Cobalt-Nickel Thin Films Deposited by the Laser-Induced Thermionic Vacuum Arc Method Dinca, V; Mandes, A; Vladoiu, R; Prodan, G ; Ciupina, V; <b>Polosan, S</b> <i>Coatings</i> , <b>13(6)</b> , 984, (2023)	0.418	0.418
	6. Synthesis of Cobalt-Nickel Aluminate Spinel Using the Laser-Induced Thermionic Vacuum Arc Method and Thermal Annealing Processes Vladoiu, R, Mandes, A , Dinca, V, Matei, E, <b>Polosan, S</b> <i>Nanomaterials</i> , <b>12(21)</b> , 3895, (2022)	0.712	0.712
	7. The Synergistic Effect of the Laser Beam on the Thermionic Vacuum Arc Method for Titanium-Doped Chromium Thin Film Deposition Vladoiu, R; Mandes, A; Dinca, V; Ciupina, V; Matei, E; <b>Polosan, S</b> <i>Coatings</i> , <b>12(4)</b> , 470, (2022)	0.439	0.439
	8. Electron Irradiation of Titanium-Doped Chromium Nanostructured Thin Films for Higher Conductive Electrodes <b>Polosan, S</b> , Ciobotaru, CC , Ciobotaru, IC , Enculescu, M, Iosub, D , Mandes, A, Vladoiu, R <i>IEEE Trans.Nanotech.</i> , <b>21</b> , 823, (2022)	0.474	0.474
	9. Highly Conductive Carbon-Based Thin Films Produced by Low-Energy Electron Irradiation Ciobotaru, CC, Ciobotaru, IC, Iosub, DG, <b>Polosan, S</b> <i>J. Electr. Mater.</i> , <b>50(10)</b> , 5529 (2021)	0.259	0.259
	10. Structural, magneto-optical and dielectric properties of phosphate tellurite glasses <b>Polosan, S</b> , Ganea, P, Nitescu, A <i>Mater. Res. Bull.</i> , <b>143</b> , 111455, (2021)	0.515	0.515
	11. Electronic and transport properties of the dual-emitter organometallic compound IrQ(pppy) <sub>2</sub> <b>Polosan S.</b> <i>J. Organomet. Chem.</i> , <b>942</b> , 121814, (2021)	0.281	0.281
	12. Magnesium-silver cathodes for efficient charge injection into Organic Light Emitting Diodes deposited by LTVA method Vladoiu, R, Mandes, A; Dinca, V Kudrna, P, Tichy, M, <b>Polosan, S</b> <i>J. Alloys&amp;Comp.</i> , <b>869</b> , 159364, (2021)	0.699	0.699
	13. Optical spectroscopy and dielectric properties of phosphate-tellurite glasses <b>Polosan, S</b> , Nitescu, A, Secu, M <i>Phys. Scripta</i> , <b>95(3)</b> , 034005, (2020)	0.520	0.520
	14. Organometallic Coatings for Electroluminescence Applications <b>Polosan, S</b> , Ciobotaru IC, Ciobotaru, CC	0.405	0.405

	<i>Coatings</i> , <b>10(3)</b> , 277, (2020)		
15.	Sol-Gel Processing of Bismuth Germanate Thin-Films Secu, M, Secu, CE, Tite, T, <b>Polosan, S</b> <i>Coatings</i> , <b>10(3)</b> , 255, (2020)	0.405	0.405
16.	Structure and low field magnetic properties in phosphate-tellurite glasses <b>Polosan S.</b> <i>J. Non-Cryst. Solids</i> , <b>524</b> , 119651, (2019)	0.440	0.440
17.	Charge Transfer from Alq <sub>3</sub> -5Cl to Graphene Oxide in Donor-Acceptor Heterostructures <b>Polosan, S</b> , Ciobotaru, CC, Ciobotaru, IC <i>J. Electr. Mater.</i> <b>48(11)</b> , (2019)	0.274	0.274
18.	Crystallization processes in europium-doped Bi <sub>4</sub> Ge <sub>3</sub> O <sub>12</sub> glass materials <b>Polosan S.</b> <i>J. Luminescence</i> , <b>213</b> , 235, (2019)	0.412	0.412
19.	Efficiency enhancement of iridium-based organometallic light emitting diodes <b>Polosan S.</b> <i>Materials Research Express</i> , <b>6(5)</b> , 055104, (2019)	0.229	0.229
20.	Low energy electron irradiation of carbon thin films Pacala, O, Ciuca, I, Logofatu, C, <b>Polosan, S</b> <i>Materials Research Express</i> , <b>5(5)</b> , 055607, (2018)	0.236	0.236
21.	Charge carrier traps in tris-(8-hydroxyquinoline) aluminum Secu M, <b>Polosan S.</b> <i>J. Luminescence</i> , <b>194</b> , 91, (2018)	0.421	0.421
22.	Enhancement of the electroluminescence of organic light emitting devices based on Ir(ppy) <sub>3</sub> by doping with metallic and magnetic nanoparticles Ciobotaru, CC, Ciobotaru, IC, Schinteie, G, Negrea, R, <b>Polosan, S</b> <i>Mater. Sci. in Semicond. Processing</i> , <b>72</b> , 78, (2017)	0.379	0.379
23.	Crystallization of bismuth germanate glasses below their glass transition temperature <b>Polosan S.</b> <i>J. Non-Cryst. Solids</i> , <b>472</b> , 55, (2017)	0.427	0.427
24.	Crystallization properties of IrQ(ppy) <sub>2</sub> organometallic complex films <b>Polosan, S</b> , Ciobotaru, CC, Ciobotaru, IC, Tsuboi, T <i>J. Mater. Res.</i> , <b>32(9)</b> , 1735, (2017)	0.441	0.441
25.	Templateless electrodeposition ZnO nanowires for charge transport optimization in OLED structures <b>Polosan, S</b> , Matei, E, Ciobotaru, IC Ciobotaru, CC <i>Materials Research Express</i> , <b>3(10)</b> , 105018, (2016)	0.231	0.231
26.	Structural and morphological evolutions induced by the annealing of CaF <sub>2</sub> nanocrystalline powders by using Eu <sup>3+</sup> ion probe luminescence <b>Polosan, S</b> , Secu, M, Enculescu, M <i>Digest Journal of Nanomaterials &amp; Biostructures</i> , <b>11(2)</b> , 615, (2016)	0.150	0.150

27. Absorption, phosphorescence and Raman spectra of IrQ(ppy) <sub>2</sub> organometallic compound <b>Polosan, S</b> , Ciobotaru, IC; Tsuboi, T <i>Materials Chemistry &amp; Physics</i> , <b>162</b> , 822, (2015)	0.479	0.479
28. Embedding of IrQ(ppy) <sub>2</sub> organometallic compounds in polypyrrole conducting polymer for OLED's applications I.C. Ciobotaru, E. Matei, C.C. Ciobotaru, <b>S. Polosan</b> <i>Synthetic Metals</i> , <b>198</b> , 323, (2014)	0.437	0.437
29. Structural characteristics of iridium dual-emitter organometallic compound <b>Polosan, S.</b> , Ciobotaru, I.C., Enculescu, I., Ciobotaru, C.C. <i>J. Mater. Research</i> , <b>29 (23)</b> , 2898 (2014)	0.575	0.575
30. Ferromagnetic behaviour of bismuth germanate oxides glass-ceramic materials <b>Polosan, S.</b> Negrea, R. Ciobotaru, I.C. Schinteie, G. Kuncser V. <i>J. Alloys &amp; Comp.</i> <b>623</b> , 192, (2015)	0.557	0.557
31. Electroluminescence of OLED based IrQ(ppy) <sub>2</sub> -5Cl organometallic compound: Theoretical considerations <b>S. Polosan</b> , I.C. Ciobotaru <i>J. Opt. &amp; Adv. Mater.</i> <b>16(1-2)</b> , 87, (2014)	0.089	0.089
32. Dual emitter IrQ(ppy) <sub>2</sub> for OLED applications: Synthesis and spectroscopic analysis I.C. Ciobotaru, <b>S. Polosan</b> , C.C. Ciobotaru <i>J. Luminescence</i> , <b>145</b> , 259, (2014)	0.506	0.506
33. Optical properties of T-centers under gamma irradiation <b>S. Polosan</b> , E. Apostol, C. Dragusin, V. Topa <i>Roum. Reports</i> , <b>55(2)</b> , 253, (2003)	0.125	0.125
34. Mechanisms of the charge transfer in IrQ(ppy) <sub>2</sub> -5Cl dual-emitter compounds <b>S. Polosan</b> , I.C. Radu <i>J. Nanosci. Nanotech.</i> <b>13(7)</b> , 5203, (2013)	0.205	0.205
35. Cathodoluminescence and Raman analysis of the finite-size effects in mer-Alq <sub>3</sub> structure I.C. Radu, <b>S. Polosan</b> , I. Enculescu, H. Iovu, <i>Opt. Mat.</i> <b>35(2)</b> , 268, (2012)	0.547	0.547
36. High-density Green Photons Effects on NaCl Solutions Detected by Red Blood Cells Membranes R. Mitrica, I. Popescu, L. Paslaru, D. Badila, <b>S. Polosan</b> , L. Cristache, E. Ionescu, C. Tataru, S. Comorosan <i>Dig J Nanomater Biostr.</i> , <b>7(1)</b> , 227, (2012)	0.202	0.202
37. Investigations of the non-isothermal crystallization of Bi <sub>4</sub> Ge <sub>3</sub> O <sub>12</sub> (2:3) glasses G. Aldica, <b>S. Polosan</b> <i>J. Non-Cryst. Solids</i> , <b>358</b> , 1221, (2012)	0.45	0.45
38. Photoluminescence and magnetic circular dichroism of IrQ(ppy) <sub>2</sub> -5Cl <b>S. Polosan</b> , I.C. Radu, T. Tsuboi <i>J. Luminescence</i> , <b>132</b> , 998, (2012)	0.497	0.497

39. Structural changes during the crystallization of the Bi <sub>4</sub> Ge <sub>3</sub> O <sub>12</sub> glasses <b>S. Polosan</b> , F. Nastase, M. Secu <i>J. Non-Cryst. Solids</i> , <b>357</b> , 1110, (2011)	0.4604	0.4604
40. Band-gap correlations in Bi <sub>4</sub> Ge <sub>3</sub> O <sub>12</sub> amorphous and glass-ceramic materials <b>S. Polosan</b> , A.C. Galca, M. Secu <i>Solid State Science</i> , <b>13(1)</b> , 49, (2011)	0.5404	0.5404
41. Synthesis of Eu-doped bismuth germanate nano-ceramic powder by solid state reaction <b>S. Polosan</b> , E. Matei, C. Logofatu <i>Opt. &amp; Adv. Mat.-Rapid Comm.</i> , <b>4(10)</b> , 1503, (2010)	0.0783	0.0783
42. Growth and optical characterization of Pb, Tl doped LiF crystals F.Somma, RM.Montereali, M.A.Vincenti, <b>S. Polosan</b> M. Secu <i>Opt. Mater.</i> , <b>32</b> , 1309, (2010)	0.567	0.567
43. Dynamics of energy absorption versus crystallization in Bi <sub>4</sub> Ge <sub>3</sub> O <sub>12</sub> (BGO) amorphous materials <b>S. Polosan</b> <i>Mater. Res. Bull.</i> , <b>45</b> , 1492, (2010)	0.623	0.623
44. X-ray excited luminescence and photoluminescence of Bi <sub>4</sub> (GeO <sub>4</sub> ) <sub>3</sub> glass-ceramics <b>S.Polosan</b> , M. Secu <i>Rad. Meas.</i> , <b>45 (3-6)</b> , 409, (2010)	0.447	0.447
45. Characterization of BGO glass-ceramic materials <b>S. Polosan</b> <i>J. Non-Cryst. Solids</i> , <b>355 (37-42)</b> , 1900, (2009)	0.542	0.542
46. Optical spectroscopy and thermoluminescence of electrolytically colored KCl:Ti <sup>+</sup> crystals <b>S. Polosan</b> , M. Enculescu, M. Secu, E. Apostol <i>J. Opt.&amp; Adv. Mater.</i> , <b>10(11)</b> , 3008, (2008)	0.113	0.113
47. Photoluminescence processes in Er <sup>3+</sup> -doped Calcium Niobium Gallium Garnet (CNGG) crystals <b>S. Polosan</b> , K. Shimamura, T. Tsuboi <i>J. Opt.&amp; Adv. Mater.</i> <b>10(3)</b> , 528, (2008)	0.113	0.113
48. Optical properties of CaF <sub>2</sub> :Eu <sup>3</sup> nanocrystals embedded in transparent oxyfluoride glass ceramic <b>S Polosan</b> , C.E. Secu <i>J. Opt.&amp; Adv. Mater.</i> <b>10 (8)</b> , 2134, (2008)	0.113	0.113
49. Density Functional Theory Analysis of a Mixed-Ligand Iridium Compound for Multi-Color Organic Light Emitting Diodes <b>S. Polosan</b> , T. Tsuboi, T. Chow <i>J. Phys. Org. Chem.</i> <b>21(4)</b> , 315, (2008)	0.487	0.487
50. Lithium deposition on high energy irradiated LiF crystals <b>S.Polosan</b> <i>J. Opt.&amp; Adv. Mater.</i> , <b>9 (5)</b> , 1306, (2007)	0.161	0.161
51. Isolated Nanocrystals of Indium in KCl crystals <b>S. Polosan</b> , E. Apostol, E. Vasile, V. Topa	0	0

	<i>J. Opt.&amp; Adv. Mater.</i> <b>5(3)</b> , 699, (2003)		
	52. Lead nanocrystals in KCl matrix <b>S.Polosan</b> , E.Vasile, E.Apostol, V.Topa <i>J. Opt.&amp; Adv. Mater.</i> , <b>3</b> , 137, (2001)	0	0
	53. Properties of metal clusters embedded in KCl matrix <b>S.Polosan</b> , E.Apostol, V.Topa <i>J. Opt.&amp; Adv. Mater.</i> , <b>2(5)</b> , 639, (2000)	0	0
	54. New perturbed Pb <sup>2+</sup> aggregate centers in electrolytically colored KBr: Pb <sup>2+</sup> (Ca, Ba) crystals <b>S. Polosan</b> , V. Topa, E. Apostol, T. Tsuboi <i>J. Luminescence</i> , 122, 946, (2007)	0.57	0.57
	55. Electrolytic reduction of Tl <sup>+</sup> ions in KCl crystals <b>S.Polosan</b> , T.Tsuboi, E.Apostol, V.Topa <i>Optical Materials</i> , <b>30 (1)</b> , 95, (2007)	0.575	0.575
		<b>P=</b>	<b>24.548</b>

### III. Recunoasterea impactului activitatii

Nr	Tipul activitatilor	Indicatori		
		Autori ( $n_i^{ef}$ )	$c_i$	$c_i / n_i^{ef}$
	<b>Citari in reviste stiintifice cu factor de impact care se regasesc in InCites Journal Citation Reports sau in carti in edituri recunoscute Web of Science</b>			
1	<a href="#">Crystal and magnetic structures, magnetic and ferroelectric properties of strontium ferrite partially substituted with In ions</a> Turchenko, V; Kostishyn, VG; Trukhanov, S; Damay, F; Porcher, F; Balasoiu, M; Lupu, N; Bozzo, B; Fina, I; Trukhanov, A; Waliszewski, J; Recko, K; <b>Polosan, S</b> <i>J. Alloys&amp;Compounds</i> , <b>821</b> , (2020), 153412	9	107	11.88
	1. Effects of non-isovalent substitution on the structural and magnetic properties of SrFe <sub>12-x</sub> (CoSn) <sub>x</sub> O <sub>19</sub> solid solutions (x = 0–0.5) K.M. Hasanov, A.S. Abiyev, Sumnikov, V.G. Kostishyn, A.V. Trukhanov, S.V. Trukhanov, I.A. Hreka, M. Čebela, V.A. Turchenko <i>Journal of Alloys and Compounds</i> , 1037, (2025), 182512.			

2. Structural, magnetic, DC resistivity and dielectric properties of Ni-doped strontium hexaferrites SrNi <sub>x</sub> Fe <sub>12-x</sub> O <sub>19</sub> D. Parajuli, N. Murali, K. Samatha Ceramics International, 51(15), (2025), 20143-20163	
3. Preparation of strontium ferrite bulk magnets with high coercivity at low-temperature Y. Zhang, X. Ren, Q. Wang, Y. Ma, X. Luo, D. Guo J Mater Sci: Mater Electron 36, (2025), 947	
4. Hierarchical nanoengineered NiCo LDH@ $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> heterostructures for optimised electrochemical capacitive performance H. Rangaraju, P. Matheswaran, M. Govindasamy, B. Parasuraman, K. Shanmugaraj, P. Thangavelu Materials Chemistry & Physics, 340, (2025), 130822	
5. Structural, magnetic and dielectric features of Cu, Al substituted Ca-hexaferrites for magnetic and energy applications M. M. Moharam, I. Ahmad, G. F. B. Solre, S. U. Asif & E. A. M. Saleh. Indian J Phys 99, (2025), 2917–2928	
6. Thermal analysis and Magnetic characterization of M-type SrFe <sub>12</sub> O <sub>19</sub> nanodisks R.L. Palomino-Resendiz, A. Castañeda-Ovando, A. Conde-Gallardo, S.I. Palomino-Resendiz, Y. Jaguey-Hernández, C. Tapia-Ignacio Materialia, 39, (2025), 102352	
7. Impact of La-Bi co-substitution on the structural, morphological, and dielectric properties of SrFe <sub>12</sub> O <sub>19</sub> : a comprehensive study Gholizadeh, A. J Mater Sci: Mater Electron 36, 314 (2025).	
8. Influence of Diamagnetic Mg <sup>2+</sup> Ion Substitution on Crystal Structure, Optical Properties, Magnetic Features, and Magnetocaloric Effect in M-Type Ba-Ca Hexaferrites A. Homri, O. Jalled, A. Dhahri, A. Belkahla, J. Dhahri, E. K. Hlil & K. Taibi J Inorg Organomet Polym 35, 1117–1142 (2025).	
9. Exploring the impact of non-magnetic ion Mg <sup>2+</sup> into M- type Ba <sub>0.5</sub> Ca <sub>0.5</sub> Fe <sub>12-x</sub> O <sub>19</sub> (x = 0.0, 0.1 and 0.2) hexaferrites on structural, magnetic and magnetocaloric effect properties A. Homri, O. Jalled, A. Dhahri, A. Belkahla, J. Dhahri, E.K. Hlil Journal of Alloys and Compounds, 999, (2024), 174939	
10. Correlation between structural, optical, and dielectric properties of Ca <sub>0.5</sub> Sr <sub>0.5</sub> Al <sub>x</sub> Ti <sub>x</sub> Fe <sub>12-2x</sub> O <sub>19</sub> (x=0.0, 0.5, 1.0, 1.5, and 2.0) compound synthesized by hydrothermal method Mahapatro, J., Agrawal, S. J Mater Sci: Mater Electron 35, (2024), 1155	
11. Improved strontium hexaferrites: An overview of current progress in synthesis, properties, and applications A. Gupta, P.K. Roy Materials Science and Engineering: B, 306, (2024), 117458	
12. Investigation of multiferroic properties of binary compounds barium titanium yttrium ferric oxide M. N. Shah, D. D. Shah, P. N. Gajjar, R. B. Jotania & P. K. Mehta J Mater Sci: Mater Electron 35, (2024), 642	
13. Synthesis, phase structure and dielectric properties of MgTiTa <sub>2</sub> O <sub>8</sub> by molten salt method	

	L. Liao, J. Ren, B. Zhang, Z. Peng & Xiuli Fu J Mater Sci: Mater Electron 35, (2024), 367	
	14. Tartrate-gel synthesized BaFe <sub>12-x</sub> Cu <sub>x</sub> O <sub>19</sub> (0 ≤ x ≤ 1) nanoceramics: Magnetic and catalytic properties H.M. Shashanka, R.V. Vaishali, S. Saha, P.N. Anantharamaiah Materials Chemistry and Physics, 314, (2024), 128896	
	15. Morphology, crystal structure and XPS depth profiling study of Ni-Zr co-doped M-type Sr-ferrite and adjustment of their magnetic properties C. Lei, S. Zhu, C. Xia, Q. Jia & Q. Ye J Mater Sci: Mater Electron 35, 127 (2024).	
	16. Influence of substitutional defects on the structural and magnetic properties of barium hexaferrites B. Aladerah, M. Gharaibeh and A. Obeidat Phys. Scr. 98 (2023) 125939	
	17. Electronic structure, and dielectric, magnetic and reflection-loss behaviors of BaFe <sub>12-x</sub> Mn <sub>x</sub> O <sub>19</sub> (0 < x ≤ 2) hexaferrites V. Dongquoc, S. Y. Park, J. R. Jeong, B.D. Tu, D.T. Huong Giang, N.T. Dang, T.L. Phan Journal of Magnetism and Magnetic Materials, 588, Part B, (2023), 171486	
	18. Effect of ferromagnetic cobalt on characteristics of coercive Aluminium substituted BaFe <sub>11.5</sub> Al <sub>0.5</sub> O <sub>19</sub> hexaferrites M. Ijaz, S. Ullah Asif, A. A El-Zahhar, E. Abdu Musad Saleh, H. Ullah Phys. Scr. 98 (2023) 105937	
	19. Impact of the Mg/Zn ratio on features of structural and magnetic properties in A-site stoichiometric nanosized spinel ferrites M. A. Darwish, M. M. Hussein, S. A. Saafan, W. Abd-Elaziem, D. Zhou, M. V. Silibin, S. V. Trukhanov, N. V. Abmiotka, M.I. Sayyed h, D. I. Tishkevich, A. V. Trukhanov Journal of Alloys and Compounds, 968, (2023), 172278	
	20. Crystal structure and peculiarities of microwave parameters of Co <sub>1-x</sub> Ni <sub>x</sub> Fe <sub>2</sub> O <sub>4</sub> nano spinel ferrites M. M. Hussein, S. A. Saafan, H. F. Abosheishasha, D. Zhou, M. G. Vakhitov, d S. V. Trukhanov, A. V. Trukhanov, D.S.Klygach, T. I. Zubar, K. A. Astapovich, H. M. H. Zakalyhi M. A. Darwish RSC Adv., 13, (2023) 26879	
	21. Temperature induced structural and polarization features in BaFe <sub>12</sub> O <sub>19</sub> D. B. Migas, Vitaliy A. Turchenko, A. V. Rutkauskas, S. V. Trukhanov, T. I. Zubar, D. I. Tishkevich, A. V. Trukhanov, N. V. Skorodumova J. Mater. Chem. C, 11, (2023), 12406	
	22. High entropy BaFe <sub>12-x</sub> (Ti/Mn/Ga/In) <sub>x</sub> O <sub>19</sub> (x=1-7) oxides: Correlation of the composition, entropy state, magnetic characteristics, and terahertz properties Y. Yao, V.E. Zhivulin, A.R. Zykova, N.A. Cherkasova, D.A. Vinnik, E.A. Trofimov, S.A. Gudkova, O.V. Zaitseva, S.V. Taskaev, L.N. Alyabyeva, B.P. Gorshunov, A.A. Gurchenko, Songtao Lu, S.V. Trukhanov, A.V. Trukhanov Ceramics International, 49 (19), 1 October 2023, Pages 31549-31558	
	23. Impacts of Sr <sup>2+</sup> and Annealing Temperature on the Composition, Structure, and Magnetic Properties of SrFe <sub>12</sub> O <sub>19</sub> Synthesized by Tartrate Precursor Route M. M. Hessien, M. Albogamy, M. Alsawat, A. Alhadhrami JOURNAL OF MAGNETICS, 28(2), (2023), 151	

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	<p>25. Correlation of the crystal features, magnetic parameters, and electronic structure of Bi-substituted BaFe<sub>12-x</sub>Bi<sub>x</sub>O<sub>19</sub> hexaferrites: Theoretical background B. Khongorzul, N. Jargalan, N. Tsogbadrakh, D. Odkhuu, S.V. Trukhanov, A.V. Trukhanov, D. Sangaa Ceramics International, 49(10), (2023), 15492-15499</p>	
	<p>26. Impact of Adsorption of Rare-Earth Elements on the Structure and Magnetic Parameters of Nanostructured Ceramic Oxides Containing Mg Nano Spinel Ferrite H. S. Refai, A. S. El-Shiekh, E. A. Haggag ECS J. Solid State Sci. Technol. 12, (2023), 044010</p>	
	<p>27. Optimizing Structural, Optical, Dielectric, and Magnetic Properties of (Bi<sub>1-x</sub>La<sub>x</sub>)FeO<sub>3</sub> (0.00 &lt; X &lt; 0.06) Sintered Ceramics A. Zaman, A. Ali, M. Anas, M. Kamran, A. Sohail Khan, V. Tirth, J. Y. Al-Humaidi, A. Arabi, M. S. Refat, R. Ullah ACS Omega 8, (2023), 13222–13231</p>	
	<p>28. Investigation of structural, morphological and magnetic properties of nanostructured strontium hexaferrite through co-precipitation technique: Impacts of annealing temperature and Fe/Sr ratio M. L. Rahman, S. Rahman, B. Biswas, Md. Farid Ahmed, M. Rahman, N. Sharmin Heliyon, 9(3), (2023), e14532</p>	
	<p>29. Significantly enhancing electromagnetic wave absorption properties of BaFe<sub>12</sub>O<sub>19</sub> hexaferrites via KOH mineralizer J. Wang, G. Chen, X. Bai, C. Chen, Z. Zhang, Z. Su, Z. Zhou, F.Chen, Y. Ma, W. Cai, R. Gao, C. Fu Journal of Alloys and Compounds, 947, 2023, 169539</p>	
	<p>30. Impact of the indium content on structural, magnetic, and electrodynamic properties of nanocomposites based on In-substituted Sr hexaferrite and Ni-Zn spinel ferrite with excellent absorption characteristics M. A. Almessiere, Y. Slimani, N. A. Algarou, M. G. Vakhitov, A. Demir Korkmaz, A. Baykal, D. S. Klygach, T. I. Zubar, A. Ul-Hamid, S. V. Trukhanov, A. V. Trukhanov Ceramics International, 49(8), (2023), 12885-12894</p>	
	<p>31. Effect of Zn<sup>2+</sup>-Sn<sup>4+</sup> co-substitution on structural and magnetic properties of SrFe<sub>12-2x</sub>Zn<sub>x</sub>Sn<sub>x</sub>O<sub>19</sub> (x=0-2) M-type strontium ferrite X. Yu , N. Zhou, R. Liu, L. Wang, Z. Xu, H. Gong, T. hao, J. Sun, F. Hu, B. Shen Physica B: Condensed Matter 653, (2023), 414676</p>	
	<p>32. Manganese substitution induced magnetic transformation and magnetoelectricity in SrFe<sub>12</sub>O<sub>19</sub> M. R. Sahoo, S. D. Kaushik, P. N. Vishwakarma, A.Barik, R. Ghosh, S. Kuila, S. Tiwary, P. D. Babu Phys. Chem. Chem. Phys., 25, (2023), 2386</p>	
	<p>33. Effects of MnO<sub>2</sub>-doping on growth, structure and electrical properties of lead-free piezoelectric K<sub>0.5</sub>Na<sub>0.5</sub>NbO<sub>3</sub>-BiAlO<sub>3</sub> single crystals Wang, T; Jiang, MH ; Li, L; Cheng, SA; Lu, HA; Ren, PH; Zhao, YG; Rao, GH Journal of Alloys&amp;Compounds, 935, (2023), 168126</p>	

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