



RECTORATUL

Universitatea Babeş-Bolyai Competiția Excelenței 2010

ANEXE Dosar individual

Notă: Toate datele se referă la perioada 2005-2009

Nume, prenume, grad did.	SIMION SIMON, PROFESOR DOCTOR
Facultatea, Catedra	FIZICA, FIZICA MATERIALELOR SI A TEHNOLOGIILOR AVANSATE
Domeniul științific	FIZICA
Adresa paginii web personale	http://www.phys.ubbcluj.ro/~simion.simon
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Criteriul I – Output

1. Articole științifice publicate în reviste indexate ISI (cu menționare factorului de impact în cazul celor cotate)

Nr. crt.	Articol științific	Nr. de autori	Factor de impact	Punctaj
1	D. Eniu, D. Căcaina, M. Coldea, M. Valeanu, <u>S. Simon</u> <i>Structural and magnetic properties of CaO-P₂O₅-SiO₂-F₂O₃ glass-ceramics for hyperthermia</i> J. Magn. Magn. Mater., 293, 1, 310-313 (2005)	5	0.985	59.100
2	L. Baia, R. Stefan, W. Kiefer and <u>S. Simon</u> . <i>Structural characteristics of B₂O₃-Bi₂O₃ glasses with high transition metal oxides content</i> Journal of Raman Spectroscopy, 36, 3 (2005) 262-266	4	1.884	141.300
3	L. Baia, W. Kiefer, <u>S. Simon</u> <i>Infrared absorption and Raman structural investigations of Bi₂O₃-PbO-B₂O₃ glasses</i> Physics and Chemistry of Glasses, 46, 3 (2005) 279-283	3	0.599	59.900
4	D. Căcaina, R. Vitala, M. Jojinen, H. Ylanem, M. Hupa, <u>S. Simon</u> <i>In vitro behaviour of yttrium-silica sol-gel</i> Bioceramics, Key Eng. Mat. 284-286, 411 (2005)	6	0.224	11.200
5	V. Simon, D. Eniu, A. Takács, K. Magyar, M. Neumann, <u>S. Simon</u> <i>Iron doping effect on the electronic structure in yttrium aluminosilicate glasses</i> J. Non-Cryst. Solids, 351, 30-32, 2365-2372 (2005)	6	1.264	63.200
6	V. Simon, M. Todea, <u>S. Simon</u> <i>Thermal investigation of SiO₂-Bi₂O₃ heavy metal glasses</i> Int. J. Mod. Phys. B, 19 (20), 3293-3301 (2005)	3	0.381	38.100
7	D. Muresan, D. Bathory, M. Keul, I. Balasz, <u>S. Simon</u> <i>Local structure and biological effects of vitreous calcium-sodium-phosphate system containing iron</i> JOAM, 7, 6, 2835-2839 (2005)	5	1.138	68.280
8	V. Simon, D. Eniu, A. Takács, K. Magyar, M. Neumann, <u>S. Simon</u> <i>X-ray photoemission study of yttrium contained in radiotherapy systems</i> JOAM, 7, 6, 2853-2859 (2005)	6	1.138	56.900

9	V. Simon , D. Muresan, C. Popa, <u>S. Simon</u> <i>Microscopic analysis of sintered titanium-hydroxyapatite implant materials</i> JOAM, 7, 6, 2823-2827 (2005)	4	1.138	85.350
10	<u>S. Simon</u> , V.R.F. Turcu, D. Cacaina, N. Malai <i>Structural behaviour of niobium phosphate vitroceraamics in simulated body fluid</i> JOAM, 7, 6, 2839-2845 (2005)	4	1.138	85.350
11	V. Chi , A. Pirnau, T. Jurca, M. Vasilescu, <u>S. Simon</u> , O. Cozar, L. David <i>Experimental and DFT study of pyrazinamide</i> Chem.Phys., 316, p. 153-163 (2005)	7	1.934	82.886
12	A. Radu, L. Baia, W. Kiefer, <u>S. Simon</u> <i>The influence of manganese cations on the structure of lead high bismuthate glasses and glass ceramics</i> Vibr. Spectr., 39, 2, p. 127-130 (2005)	4	1.758	131.850
13	A. Simon, T. Frentiu, S.D. Anghel, <u>S. Simon</u> <i>Investigation of a medium power radiofrequency capacitively coupled plasma and its application to high-temperature superconductor analysis via atomic emission spectrometry</i> J. Anal. At. Spectrom., 2005, 20 (9), 957-965	4	3.64	273.000
14	C. Popa, V. Simon, I. Vida Simiti, G. Batin, V. Candea, <u>S. Simon</u> <i>Titanium – Hydroxyapatite Porous Structures for Endosseous Applications</i> J. Mat. Sci.: Mat. in Medicine, 12 (2005) 1165-1171	6	1.248	62.400
15	E. Culea, Lidia Pop, <u>S. Simon</u> , Monica Culea <i>Magnetic and structural behaviour of $x\text{Eu}_2\text{O}_3(1-x)(3\text{Bi}_2\text{O}_3\text{PbO})$ glasses</i> Journal of Magnetism and Magnetic Materials, 290-291, p. 1465-1468 (2005)	4	0.985	73.875
16	<u>S.Simon</u> , D. Cacaina, I. Balasz <i>Theraml and structural investigation of niobium phosphate glasses</i> Mod. Phys. Lett. B, 20, 6, 281-289 (2006)	3	0.569	56.900
17	V. Simon, C. Popa, D. Muresan, <u>S. Simon</u> <i>Vibrational investigation of sintered titanium biomaterials</i> JOAM, 8, 2, 540-543 (2006)	4	1.106	82.950
18	D. Muresan, M. Vasilescu, I. Balasz, C. Popa, W. Kiefer, <u>S. Simon</u> <i>Structural investigation of calcium-soda-phosphate glasses with small content of silver oxide</i> JOAM, 8, 2, 558-561 (2006)	6	1.106	55.300
19	L. Baia, M. Baia, W. Kiefer, J. Popp, <u>S. Simon</u> <i>Structural and morphological properties of silver nanoparticles-phosphate glass composites</i> Chemical Physics, 327, p.63-69 (2006)	5	1.984	119.040
20	<u>S. Simon</u> , M. Todea <i>Spectroscopic study on iron doped silica bismuthate glasses and glass ceramics</i> J. Non-Cryst. Solids, 352, 28-29, p.2947-2951 (2006)	2	1.62	243.000
21	<u>S. Simon</u> , L. Baia, A. Radu <i>Vibrational and EPR spectroscopic investigation of heavy metal oxide glasses and vitroceraamics containing manganese</i> J. Raman Spectr., 37, 1-2, 183-189 (2006)	3	2.133	213.300
22	D. Cacaina, H. Ylänen, M. Hupa, <u>S. Simon</u> <i>Study of yttrium containing bioactive glasses behaviour in simulated body fluid</i> Journal of Materials Science: Materials in Medicine, 17, 8, 709-716 (2006)	4	1.562	117.150
23	<u>S.Simon</u> <i>EPR investigation of lanthanum aluminoborates doped with paramagnetic ions</i> J. Optoelectr. Adv. Mater., 8, 1, 99 (2006)	1	1.106	331.800
24	Felicia Iacomì, M. Vasilescu, <u>S. Simon</u> <i>Studies of MnS cluster formation in laumontite zeolite</i> Surface Science, 600, 18, 4323-4327 (2006)	3	1.88	188.000

25	D. Muresan, V. Simon, D. Cacaina, <u>S. Simon</u> <i>Influence of CaO/P₂O₅ ratio on the corrosion behaviour of potassium-lime phosphate glasses in simulated biological media</i> MPLB, 20, 26 (2006) p.1685-1693	4	0.569	42.675
26	<u>S. Simon</u> <i>Magnetic resonance studies on amorphous and crystalline lanthanum aluminoborate</i> Phys. Chem. Glasses: Eur. J. Glass Sci. Technol. B, 47 (4), 489–492 (2006)	1	0.577	173.100
27	D.A. Udvar, P. Proposito, F. De Matteis, A. Quatela, S. Schutzmann, M. Casalboni, <u>S. Simon</u> <i>Planar polymeric multilayer structures for electro-optical applications</i> Proc. SPIE, vol. 6192, Article number 61922Y (2006)	7	0.86	36.857
28	V. Simon, M. Todea, A.F. Takács, M. Neumann, <u>S. Simon</u> <i>XPS study on silica-bismuthate glasses and glass ceramics</i> Solid State Commun., 141, p. 42–47 (2007)	5	1.535	92.100
29	C. Mirestean, H. Mocuta, R. V. F. Turcu, G. Borodi, <u>S. Simon</u> <i>Nanostructured materials for hyperthermia treatment of bone tumors</i> J. Optoelectr. Adv. Mater., 9, 3, p. 764 - 767 (2007)	5	0.827	49.620
30	D. Petrisor, G. Damian, <u>S. Simon</u> , G. Schmutzer, A. Hosu, V. Miclaus <i>EPR investigation of antioxidant characteristics of some irradiated natural extracts</i> J. Optoelectr. Adv. Mater., 9, 3 p. 764 – 767 (2007)	6	0.827	41.350
31	A. Pîrn u, V. Chi , M. Baias, O. Cozar, M. Vasilescu, O. Oniga, <u>S. Simon</u> <i>Experimental and DFT investigation of 5-para-nitro-benziliden-tiazolidin-2-tion-4-ona</i> J. Optoelectr. Adv. Mater., 9, 3, p. 547 – 550 (2007)	7	0.827	35.443
32	<u>S. Simon</u> , I. G. Deac, M. Coldea <i>Magnetic clusters development in (100 - x)[4Bi₂O₃ · PbO]xGd₂O₃ glasses</i> J. Optoelectr. Adv. Mater., 9, 3, p. 583 - 586 (2007)	3	0.827	82.700
33	V. Simon, D. Laz r, C. Popa, A.F. Takács, M. Neumann, <u>S. Simon</u> <i>Atomic environment changes in titanium-hydroxyapatite sintered powders induced by mechanical strain</i> J. Optoelectr. Adv. Mater., 9, 3, p. 587 – 590 (2007)	6	0.827	41.350
34	O. iprigan, A.A.Koós, P.Nemes-Incze, Z.E.Horváth, Zs.Sárközi, <u>S.Simon</u> , Al.Darabont, L.P.Biró <i>Obtaining bamboo-structured, multiwalled carbon nanotubes using the spray pyrolysis method</i> J. Optoelectr. Adv. Mater., 9, 3, p. 617 – 620 (2007)	8	0.827	31.013
35	M. Todea, <u>S. Simon</u> <i>Vibrational spectroscopic study on iron doped silica-bismuthate glasses and glass ceramics</i> J. Optoelectr. Adv. Mater., 9, 3, p. 621 – 624 (2007)	2	0.827	124.050
36	F. Toderas, S. Boca, M. Baia, L. Baia, D. Maniu, S. Astilean, <u>S. Simon</u> <i>Self-assembled multilayers of gold nanoparticles as versatile platforms for molecular sensing by Fourier transform-surface enhanced scattering (FT-SERS) and surface enhanced infrared absorption (SEIRA)</i> J. Optoelectr. Adv. Mater., 9, 3, p. 621 – 624 (2007)	7	0.827	35.443
37	D. A. Udvar, <u>S. Simon</u> <i>Structural investigation of bismuth germanium system doped with gadolinium</i> J. Optoelectr. Adv. Mater., 9, 3, p. 646 – 650 (2007)	2	0.827	124.050
38	D. Cacaina, H. Ylänen, D. A. Udvar, <u>S. Simon</u> <i>EPR study of gamma irradiated yttrium bioactive glasses and yttrium silica sol-gel microspheres</i> J. Optoelectr. Adv. Mater. 9, 3, p. 675 – 679 (2007)	4	0.827	62.025
39	L. Baia, D. Muresan, M. Baia, J. Popp, <u>S. Simon</u> <i>Structural properties of silver nanoclusters-phosphate glass composites</i> Vibr. Spectr., 43, 313-318 (2007)	5	1.78	106.800
40	V.Simon, D. Muresan, <u>S. Simon</u>	3	0.778	77.800

	<i>Iron effect on glass stability of sodium-calcium-phosphate glasses</i> Eur. Phys. J. AP, 37, 2, 219-223 (2007)			
41	V. Simon, D. Muresan, A.F. Takács, M. Neumann, <u>S. Simon</u> <i>Local order changes induced in calcium-sodium-phosphate glasses by transition metals</i> Solid State Ionics, 178, 221-225 (2007)	5	2.012	120.720
42	<u>S.Simon</u> , D. Eniu <i>Spectroscopic characterisation of local structure in Y₂O₃-B₂O₃-Bi₂O₃ glasses doped with gadolinium</i> J. Mat. Sci., 42, 15, 5949-5953 (2007)	2	1.081	162.150
43	D. Căcaina, R. V. F. Turcu, D. A. Udvar, M. Vaahtio, H. Ylänen, <u>S. Simon</u> <i>Structural characterization of yttrium silica sol-gel microspheres</i> JOAM, 9, 8 p. 2566 – 2570 (2007)	6	0.827	41.350
44	G. Borodi, I. Bratu, <u>S. Simon</u> <i>Formation of layered structure on bismuth borate glass surface</i> Mat. Lett., 61, 25, 4715-4717 (2007)	3	1.625	162.500
45	F. Dragan, I. Bratu, G. Borodi, M. Toma, A. Hernanz, S. Simon, Gh. Cristea, R. Peschar <i>Spectroscopic investigation of β-cyclodextrin-metoprolol tartrate inclusion complexes</i> J. Incl. Phenom. Macrocycl. Chem., 59, 125-130 (2007)	8	1.153	43.238
46	V. Simon, D. Eniu, A. Gritco, <u>S. Simon</u> <i>Thermal and spectroscopic investigation of sol-gel derived aluminosilicate bioglass matrices</i> J. Optoelectr. Adv. Mat., 9, 11, 3368-3371 (2007)	4	1.081	81.075
47	M. Aluas, C. Soica, Á. Gyéresi, C. <u>Dehelean</u> , <u>S. Simon</u> <i>Physico-chemical analysis of binary complexes of furosemide and randomly methylated β-cyclodextrin</i> Revista de Chimie, 58 (10), 891-894 (2007)	5	0.261	15.660
48	V. Simon, R.V.F. Turcu, D. Eniu, <u>S. Simon</u> <i>Short range order changes induced by heat treatment in yttrium aluminosilicate glasses</i> Physica B, 403, 139-144 (2008)	4	0.822	61.650
49	V. Simon, C. Albon, <u>S. Simon</u> <i>Silver release from hydroxyapatite self-assembling calcium-phosphate glasses</i> J. Non-Crystalline Solids, 354, 1751-1755 (2008)	3	1.449	144.900
50	V. Simon, O. Ponta, S. <u>Simon</u> , D.A. Udvar, M. Neumann <i>Gadolinium effect on local structure of Bi₂O₃-GeO₂ glasses and vitroceramics</i> Physica Status Solidi (a), 5, 1139-1143 (2008)	5	1.205	72.300
51	D. Petrisor, D. Damian, <u>S. Simon</u> <i>Gamma-irradiated ExtraVit M nutritive supplement studied by electron paramagnetic resonance spectroscopy</i> Radiation Physics and Chemistry, 77 (4), 463-466 (2008)	3	0.882	88.200
52	<u>S. Simon</u> <i>Structural investigation of gadolinium doped yttrium-aluminosilicate glasses and vitroceramics</i> Int. J. Mod. Phys. B, 22 (12), 1933-1939 (2008)	1	0.558	167.400
53	M. Tamasan, T. Radu, <u>S. Simon</u> , I. Barbur, H. Mocuta, V. Simon <i>Thermal analysis of sol-gel aluminosilicate systems</i> J. Optoelectr. Adv. Mat., 10, 4, 948-950 (2008)	6	0.577	28.850
54	T. Radu, <u>S. Simon</u> , C. Prejmorean, V. Simon, A. Colceriu, C. Tamas, L. Silaghi-Dumitrescu <i>Thermoanalytical characterisation of new dental ionomer biocomposites</i> J. Optoelectr. Adv. Mat., 10, 4, 958-960 (2008)	7	0.577	24.729
55	D. Căcaina, H. Ylanen, <u>S. Simon</u> , M. Hupa <i>The behaviour of selected yttrium containing bioactive glass microspheres in simulated body environments</i>	4	1.508	113.100

	Journal of Materials Science: Materials in Medicine 19 (3), 1225-1233 (2008)			
56	C. Albon, D. Muresan, R.E. Vandenberghe, <u>S. Simon</u> <i>Iron environment in calcium-soda-phosphate glasses and vitroceramics</i> J. Non-Crystalline Solids, 354, 4603-4608 (2008)	4	1.449	108.675
57	P. Pascuta, M. Bosca, M. Culea, <u>S. Simon</u> , E. Culea <i>EPR and magnetic susceptibility studies of Gd³⁺ ions-doped bismuth-germanate glass matrix</i> Mod. Phys. Lett. B, 22 (6), 447-453 (2008)	5	0.471	28.260
58	Dina Petrisor, G. Damian, <u>S. Simon</u> <i>Antioxidant activity of some types of white wines and juices investigated by EPR spectroscopy</i> Mod. Phys. Lett. B, 22 (27), 2689-2698 (2008)	3	0.471	47.100
59	V Simon, S Cavalu, M Prinz, E Vanea, M Neumann, <u>S Simon</u> <i>Albumin adsorption on the surface of iron containing aluminosilicates</i> European Cells & Materials, 16, S1, 55 (2008)	6	4.289	214.450
60	V. Simon, O. Ponta, <u>S. Simon</u> , M. Neumann <i>Atomic environment changes induced by rare earths addition to heavy metal glasses</i> JOAM, 10 (9) 2325-2328 (2008)	4	0.577	43.275
61	D. Petrisor, G. Damian, <u>S. Simon</u> , A. Hosu, V. Miclaus <i>Antioxidant activity of some types of white wines and juices investigated by EPR spectroscopy</i> Mod. Phys. Lett. B, 22 (7) 2689-2698 (2008)	5	0.471	28.260
62	F. Sima, C. Ristoscu, A. Popescu, I.N. Mihailescu, T. Kononenko, <u>S. Simon</u> , T. Radu, O. Ponta, R. Mustata, L.E. Sima, S.M. Petrescu <i>Bioglass –polymer thin coatings obtained by MAPLE for a new generation of implants</i> J. Optoelectr. Adv. Mater.	11	0.577	15.736
63	M. Todea, <u>S. Simon</u> , V. Simon <i>Site selectivity of iron doped in silica-bismuthate heavy metal glass systems</i> J. Optoelectr. Adv. Mater. 10 (12) 3336 – 3340 (2008)	3	0.577	57.700
64	V. Simon, S. Cavalu, <u>S. Simon</u> , H. Mocuta, E. Vanea, M. Prinz, M. Neumann <i>Surface functionalisation of sol-gel derived aluminosilicates in simulated body fluids</i> Solid State Ionics, 180 (2009) 764–769	7	2.425	103.929
65	M.Verziu, M. Florea, <u>S. Simon</u> , V. Simon, P. Filip, V.I. Parvulescu, C. Hardacre <i>Transesterification of vegetable oils on basic large mesoporous alumina supported alkaline fluorides-Evidences of the nature of the active site and catalytic performances</i> Journal of Catalysis, 263 (1) 56-66 (2009)	7	5.167	221.443
66	R.V.T. Turcu, S. Constantinescu, N. Grecu, D.Iuga, <u>S. Simon</u> <i>Structural changes of piezoelectric La₃Ga₃SiO₁₄ induced by paramagnetic ions revealed by ⁷¹Ga Multiple Quantum</i> Solid State Nuclear Magnetic Resonance, 36 (2) 92-95 (2009)	5	1.804	108.240
67	V. Simon, D. Laz r, R.V.F. Turcu, H. Mocuta, K. Magyari, M. Prinz, M. Neumann, <u>S. Simon</u> <i>Atomic environment in sol-gel derived nanocrystalline hydroxyapatite</i> Materials Science and Engineering B, 165 (3) 247–251 (2009)	8	1.577	59.138
68	C. Tiseanu, V.I. Parvulescu, M. Kumke, S. Dobroiu, A. Gessner, <u>S. Simon</u> <i>Effects of the support and ligand on the photoluminescence properties of siliceous grafted europium complexes</i> The Journal of Physical Chemistry C, 113 (14) 5784-5791 (2009)	6	3.396	169.800
69	<u>S. Simon</u> , R.V.F. Turcu, T. Radu, M. Moldovan, V. Simon <i>Multispectroscopic investigation of silanised glass particles for dental fillers</i> J. Optoelectr. Adv. Mater., 11 (11), p. 1660 – 1670 (2009)	5	0.577	34.620

2. Articole științifice publicate în ISI proceedings**3. Articole științifice indexate în BDI (din lista CNCISIS) și în reviste românești recunoscute de CNCISIS tip B și B⁺**

Nr. crt.	Articol	Nr. de autori	Punctaj
1	S. Simon, D. Muresan, C. Popa, I. Balasz, V. Simon Structural changes induced by simulated body fluid on sintered titanium-hydroxyapatite implant materials Studia, 50, 1, p. 67-73 (2005)	5	2.00
2	NMR and IR investigation of aluminosilicate glasses as components of dental materials S. Simon, M. Vasilescu, M. Moldovan, V. Simon Studia, 50, 2, p. 87-92 (2005)	4	2.50
3	Environment changes around the cations of yttrium-aluminosilicate glasses doped with gadolinium V. Simon, D. Eniu, R. Grecu, S. Simon Asian J. Phys., 15, 2, 247-253 (2006)	4	2.50
4	V. Simon, S. Simon, M. Prinz, M. Neumann, H. Mocuta, E. Vanea Synthesis and surface characterisation of biomaterials functionalised in protein enriched simulated body fluids. Studia, LIII, 1, 25-32 (2008)	6	1.67
5	M. Tamasan, S. Simon, M. Baciut, G. Baciut, V. Coman, V. Simon Thermal investigation of nanocrystalline bone phases Studia – Physica, LIII, 2, 9-17 (2008)	6	1.67
PUNCTAJ TOTAL			10,34

5. Cărți științifice publicate în edituri internaționale

1. **L. Baia**, S. Simon, *UV-VIS and TEM assessment of morphological features of silver nanoparticles from phosphate glass matrices*, Modern Research and Educational Topics in Microscopy, A. Mendez-Vilas, J. Diaz (eds.), Formatex, ISBN-13:978-84-611-9418-6, Spania, pp. 576-783, 2007.
8/2=4

PUNCTAJ TOTAL: 4**6. Cărți științifice publicate în edituri naționale acreditate**

L. Baia, S. Simon
The structure of glasses and glass-ceramics by vibrational spectroscopy
Casa Cartii de Stiinta, Cluj-Napoca, 150p., 2007, ISBN 978-973-133-183-6

PUNCTAJ TOTAL: 15**7. Editor de volume publicate în edituri naționale și internaționale**

Advanced Spectroscopie son Biomedical and nanostructured Systems
Editura INOE Bucuresti, ISSN 1454, 2007, 305 pag.
Editor Simion Simon

PUNCTAJ TOTAL: 45,75

Criteriul II – Prestigiu profesional

1. Citări ale articolelor ISI listate la Criteriul I

Nr. crt.	Articol științific	Nr. de citari	Factor de impact	Punctaj
1	<p>L. Baia, R. Stefan, W. Kiefer and <u>S. Simon</u>. <i>Structural characteristics of B_2O_3-Bi_2O_3 glasses with high transition metal oxides content</i> <i>Journal of Raman Spectroscopy</i>, 36, 3 (2005) 262-266</p> <p>Wan, S., Teng, B., Zhang, X., You, J., Zhou, W., Zhang, Q., Yin, S. Investigation of a BiB_3O_6 crystal growth mechanism by high-temperature Raman spectroscopy (2009) <i>CrystEngComm</i>, 12 (1), pp. 211-215.</p> <p>Gao, G., Hu, L., Fan, H., Wang, G., Li, K., Feng, S., Fan, S., Chen, H. Effect of Bi_2O_3 on physical, optical and structural properties of boron silicon bismuthate glasses (2009) <i>Optical Materials</i>, 32 (1), pp. 159-163.</p> <p>Saddeek, Y.B., Gaafar, M.S. Physical and structural properties of some bismuth borate glasses (2009) <i>Materials Chemistry and Physics</i>, 115 (1), pp. 280-286. Cited 1 time.</p> <p>Gao, G.-J., Wang, G.-N., Hu, L.-L. Effect of SiO_2 on thermal stability, optical properties and structural characteristic of Bi_2O_3-B_2O_3 binary glasses (2008) <i>Guangzi Xuebao/Acta Photonica Sinica</i>, 37 (SUPPL.), pp. 49-52.</p> <p>Moustafa, E.S., Saddeek, Y.B., Shaaban, E.R. Structural and optical properties of lithium borobismuthate glasses (2008) <i>Journal of Physics and Chemistry of Solids</i>, 69 (9), pp. 2281-2287.</p> <p>Ticha, H., Knoblochova, K., Tichy, L. Raman studies and optical properties of lead-bismuth metaborate glasses (2008) <i>Journal of Optoelectronics and Advanced Materials</i>, 10 (8), pp. 2117-2122. Cited 1 time.</p> <p>Shaaban, E.R., Shapaan, M., Saddeek, Y.B. Structural and thermal stability criteria of Bi_2O_3-B_2O_3 glasses (2008) <i>Journal of Physics Condensed Matter</i>, 20 (15), art. no. 155108, . Cited 3 times.</p> <p>Mercadelli, E., Galassi, C., Costa, A.L., Albonetti, S., Sanson, A. Sol-gel combustion synthesis of BNBT powders (2008) <i>Journal of Sol-Gel Science and Technology</i>, 46 (1), pp. 39-45. Cited 5 times.</p> <p>Saddeek, Y.B., Abousehly, A.M., Hussien, S.I. Synthesis and several features of the Na_2O-B_2O_3-Bi_2O_3-MoO_3 glasses (2007) <i>Journal of Physics D: Applied Physics</i>, 40 (15), art. no. 048, pp. 4674-4681. Cited 4 times.</p> <p>Veerabhadra Rao, A., Laxmikanth, C., Appa Rao, B., Veeraiah, N. Dielectric relaxation and a.c. conduction phenomena of PbO-PbF_2-B_2O_3 glasses doped with FeO (2006) <i>Journal of Physics and Chemistry of Solids</i>, 67 (11), pp. 2263-2274. Cited 14 times.</p>	10	1.884	100

2	<p>D. Eniu, D. Căcaina, M. Coldea, M. Valeanu, <u>S. Simon</u> <i>Structural and magnetic properties of CaO-P_2O_5-SiO_2-F_2O_3 glass-ceramics for hyperthermia</i> <i>J. Magn. Magn. Mater.</i>, 293, 1, 310-313 (2005)</p> <p>Singh, R.K., Srinivasan, A., Kothiyal, G.P. Evaluation of CaO-SiO_2-P_2O_5-Na_2O-Fe_2O_3 bioglass-ceramics for hyperthermia application (2009) <i>Journal of Materials Science: Materials in Medicine</i>, 20 (SUPPL. 1), pp. S147-S151.</p> <p>Singh, R.K., Srinivasan, A. EPR and magnetic properties of MgO-CaO-SiO_2-P_2O_5-CaF_2-Fe_2O_3 glass-ceramics (2009) <i>Journal of Magnetism and Magnetic Materials</i>, 321 (18), pp. 2749-2752. Cited 2 times.</p> <p>Singh, R.K., Kothiyal, G.P., Srinivasan, A.</p>	10	0.985	100
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3	<p>L. Baia, W. Kiefer, <u>S. Simon</u> <i>Infrared absorption and Raman structural investigations of Bi₂O₃-PbO-B₂O₃ glasses</i> <i>Physics and Chemistry of Glasses</i>, 46, 3 (2005) 279-283</p> <p>Pop, L., Culea, E., Bosca, M., Neumann, M., Muntean, R., Pascuta, P., Rada, S. X-ray photoelectron spectroscopic studies of lead-bismuthate glasses with rare earths (2008) Journal of Optoelectronics and Advanced Materials, 10 (3), pp. 619-622. Cited 4 times.</p> <p>Pop, L., Culea, E., Muntean, R., Culea, M., Bosca, M. Structural characteristics of terbium - Lead - bismuthate glasses (2007) Journal of Optoelectronics and Advanced Materials, 9 (6), pp. 1687-1689. Cited 4 times.</p> <p>Zhao, D., Qiao, X., Fan, X., Wang, M. Local vibration around rare earth ions in SiO₂-PbF₂ glass and glass ceramics using Eu³⁺ probe (2007) Physica B: Condensed Matter, 395 (1-2), pp. 10-15. Cited 5 times.</p>	3	0.599	30
4	<p>V. Simon, D. Eniu, A. Takács, K. Magyari, M. Neumann, <u>S. Simon</u> <i>Iron doping effect on the electronic structure in yttrium aluminosilicate glasses</i> <i>J. Non-Cryst. Solids</i>, 351, 30-32, 2365-2372 (2005)</p> <p>Cozar, O., Magdas, D.A., Vedeanu, N., Ardelean, I. EPR study of some iron-lead-phosphate glasses (2008) Journal of Optoelectronics and Advanced Materials, 10 (12), pp. 3202-3204.</p> <p>Cozar, O., Magdas, D.A., Vedeanu, N., Ardelean, I. EPR Study of some lead-phosphate glasses (2008) Journal of Optoelectronics and Advanced Materials, 10 (11), pp. 3038-3040.</p> <p>Li, J.-F., Kuang, X.-Y., Mao, A.-J., Wang, H. Local molecular structure and thermal expansion coefficient for octahedral Fe³⁺ center in AlF₃:Fe³⁺ system (2008) Journal of Alloys and Compounds, 456 (1-2), pp. 10-15.</p>	3	1.264	30

5	<p>V. Simon, D. Muresan, C. Popa, <u>S. Simon</u> <i>Microscopic analysis of sintered titanium-hydroxyapatite implant materials</i> <i>JOAM</i>, 7, 6, 2823-2827 (2005)</p> <p>Ionita, D., Miculescu, F., Bojin, D., Demetrescu, I. Various procedures in electrochemical evaluation of hydroxyapatite films on titanium (2007) Journal of Optoelectronics and Advanced Materials, 9 (11), pp. 3316-3319.</p> <p>Trif, M., Moldovan, M., Prejmerean, C., Musat, O., Prodan, D., Tamas, C., Colceriu, A., Furtos, G., Silaghi, L. Micro-crystalline hydroxyapatite. Preparation and investigation (2007) Journal of Optoelectronics and Advanced Materials, 9 (11), pp. 3312-3315.</p>	2	1.138	20
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12	<p>L. Baia, M. Baia, W. Kiefer, J. Popp, S. <u>Simon</u> <i>Structural and morphological properties of silver nanoparticles-phosphate glass composites</i> <i>Chemical Physics</i>, 327, p.63-69 (2006)</p> <p>Kakati, N., Mahapatra, S.S., Karak, N. Silver nanoparticles in polyacrylamide and hyperbranched polyamine matrix (2008) <i>Journal of Macromolecular Science, Part A: Pure and Applied Chemistry</i>, 45 (8), pp. 658-663. Cited 1 time.</p> <p>Moss, R.M., Pickup, D.M., Ahmed, I., Knowles, J.C., Smith, M.E., Newport, R.J. Structural characteristics of antibacterial bioresorbable phosphate glass (2008) <i>Advanced Functional Materials</i>, 18 (4), pp. 634-639. Cited 1 time.</p> <p>Agoudjil, B., Ibos, L., Majesté, J.C., Candau, Y., Mamunya, Ye.P. Correlation between transport properties of Ethylene Vinyl Acetate/glass, silver-coated glass spheres composites (2008) <i>Composites Part A: Applied Science and Manufacturing</i>, 39 (2), pp. 342-351. Cited 3 times.</p>	3	1.984	30
13	<p>S. <u>Simon</u>, M. Todea <i>Spectroscopic study on iron doped silica bismuthate glasses and glass ceramics</i> <i>J. Non-Cryst. Solids</i>, 352, 28-29, p.2947-2951 (2006)</p> <p>Simon, V., Ponta, O., Trandafir, D., Mocuta, H.</p>	13	1.62	130

	<p>Spectroscopic studies on vitreous and polycrystalline heavy metal gallium-bismuthates (2009) <i>Journal of Non-Crystalline Solids</i>, 355 (50-51), pp. 2451-2455.</p> <p>Majhi, K., Varma, K.B.R., Rao, K.J. Possible mechanism of charge transport and dielectric relaxation in SrO-Bi₂O₃-B₂O₃ glasses (2009) <i>Journal of Applied Physics</i>, 106 (8), art. no. 084106, .</p> <p>Duhan, S., Sanghi, S., Agarwal, A., Sheoran, A., Rani, S. Dielectric properties and conductivity enhancement on heat treatment of bismuth silicate glasses containing TiO₂ (2009) <i>Physica B: Condensed Matter</i>, 404 (12-13), pp. 1648-1654.</p> <p>Rani, S., Sanghi, S., Agarwal, A., Ahlawat, N. Influence of Bi₂O₃ on optical properties and structure of bismuth lithium phosphate glasses (2009) <i>Journal of Alloys and Compounds</i>, 477 (1-2), pp. 504-509. Cited 3 times.</p> <p>Doweidar, H., Saddeek, Y.B. FTIR and ultrasonic investigations on modified bismuth borate glasses (2009) <i>Journal of Non-Crystalline Solids</i>, 355 (6), pp. 348-354. Cited 1 time.</p> <p>Cozar, O., Magdas, D.A., Vedeanu, N., Ardelean, I. EPR study of some iron-lead-phosphate glasses (2008) <i>Journal of Optoelectronics and Advanced Materials</i>, 10 (12), pp. 3202-3204.</p> <p>Pascuta, P., Pop, L., Rada, S., Bosca, M., Culea, E. The local structure of bismuth germanate glasses and glass ceramics doped with europium ions evidenced by FT-IR spectroscopy (2008) <i>Vibrational Spectroscopy</i>, 48 (2), pp. 281-284. Cited 4 times.</p> <p>Cozar, O., Magdas, D.A., Vedeanu, N., Ardelean, I. EPR Study of some lead-phosphate glasses (2008) <i>Journal of Optoelectronics and Advanced Materials</i>, 10 (11), pp. 3038-3040.</p> <p>Moustafa, E.S., Saddeek, Y.B., Shaaban, E.R. Structural and optical properties of lithium borobismuthate glasses (2008) <i>Journal of Physics and Chemistry of Solids</i>, 69 (9), pp. 2281-2287.</p> <p>Ahlawat, N., Sanghi, S., Agarwal, A., Kishore, N., Rani, S. Investigation of near constant loss contribution to conductivity in lithium bismo-silicate glasses (2008) <i>Journal of Non-Crystalline Solids</i>, 354 (31), pp. 3767-3772.</p> <p>Bale, S., Rahman, S., Awasthi, A.M., Sathe, V. Role of Bi₂O₃ content on physical, optical and vibrational studies in Bi₂O₃-ZnO-B₂O₃ glasses (2008) <i>Journal of Alloys and Compounds</i>, 460 (1-2), pp. 699-703. Cited 12 times.</p> <p>Saddeek, Y.B., Shaaban, E.R., Moustafa, E.S., Moustafa, H.M. Spectroscopic properties, electronic polarizability, and optical basicity of Bi₂O₃-Li₂O-B₂O₃ glasses (2008) <i>Physica B: Condensed Matter</i>, 403 (13-16), pp. 2399-2407. Cited 4 times.</p> <p>Bale, S., Purnima, M., Srinivasu, Ch., Rahman, S. Vibrational spectra and structure of bismuth based quaternary glasses (2008) <i>Journal of Alloys and Compounds</i>, 457 (1-2), pp. 545-548. Cited 4 times.</p>			
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15	<p>V. Simon, M. Todea, A.F. Takács, M. Neumann, <u>S. Simon</u> <i>XPS study on silica-bismuthate glasses and glass ceramics</i> <i>Solid State Commun.</i>, 141, p. 42–47 (2007)</p> <p>Duhan, S., Sanghi, S., Agarwal, A., Sheoran, A., Rani, S. Dielectric properties and conductivity enhancement on heat treatment of bismuth silicate glasses containing TiO₂ (2009) <i>Physica B: Condensed Matter</i>, 404 (12-13), pp. 1648-1654.</p>	3	1.535	30

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X-ray photoelectron spectroscopic studies of lead-bismuthate glasses with rare earths
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	<p>Upconversion fluorescence property of Er³⁺/Yb³⁺-codoped novel bismuth-germanium glass (2005) Solid State Communications, 133 (12), pp. 781-784. Cited 4 times.</p> <p>Sun, H., Yang, J., Zhang, L., Zhang, J., Hu, L., Jiang, Z. Composition dependent frequency upconversion luminescence in Er³⁺-doped oxychloride germanate glasses (2005) Solid State Communications, 133 (12), pp. 753-757. Cited 1 time.</p> <p>Sun, H., Zhang, L., Zhao, S., Zhang, J., Yu, C., He, D., Duan, Z., Hu, L., Jiang, Z. Structural and upconversion fluorescence properties of Er³⁺/Yb³⁺-codoped oxychloride lead-germanium-bismuth glass (2005) Solid State Communications, 133 (6), pp. 357-361. Cited 8 times.</p>		
31	<p>Simon S., Pop R., Simon V., Coldea M. <i>Structural and magnetic properties of lead-bismuthate oxide glasses containing S-state paramagnetic ions</i> Journal of Non-Crystalline Solids, 331, 1-3, 2003</p>	4	40
	<p>Pop, L., Bosca, M., Neamtu, C., Culea, M., Muntean, R., Culea, E. Structural and optical characteristics of some bismuthate glass with rare earth ions (2008) Journal of Optoelectronics and Advanced Materials, 10 (11), pp. 3033-3037.</p> <p>Kliava, J., Berger, R., Potseluyko, A., Edelman, I., Petrakovskaja, E., Zarubina, T. Electron paramagnetic resonance and Gd³⁺ clustering in the {xGd₂O₃-(1 - X)(La₂O₃-Al₂O₃-B₂O₃-SiO₂-GeO₂)} glasses (2006) Physics of Metals and Metallography, 102 (SUPPL. 1), pp. S39-S41.</p> <p>Malchukova, E., Boizot, B., Ghaleb, D., Petite, G. -Irradiation effects in Gd-doped borosilicate glasses studied by EPR and Raman spectroscopies (2006) Journal of Non-Crystalline Solids, 352 (4), pp. 297-303. Cited 10 times.</p> <p>Kliava, J., Malakhovskii, A., Edelman, I., Potseluyko, A., Petrakovskaja, E., Melnikova, S., Zarubina, T., Petrovskii, G., Bruckental, Y., Yeshurun, Y. Unusual magnetic transitions and nature of magnetic resonance spectra in oxide glasses containing gadolinium (2005) Physical Review B - Condensed Matter and Materials Physics, 71 (10), pp. 1-9. Cited 6 times.</p>		
32	<p>Culea E., Pop L., Simon S. <i>Spectroscopic and magnetic behaviour of xGd₂O₃ (1 - x)(Bi₂O₃-PbO) glasses</i> Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 112, 1, 2004</p>	12	120
	<p>Simon, V., Ponta, O., Trandafir, D., Mocuta, H. Spectroscopic studies on vitreous and polycrystalline heavy metal gallium-bismuthates (2009) Journal of Non-Crystalline Solids, 355 (50-51), pp. 2451-2455.</p> <p>Rudramadevi, B.H., Buddhudu, S. Spectral properties of Cu²⁺, Ni²⁺, Co²⁺, Mn²⁺ + Cr³⁺ + ions doped B₂O₃-BaO-LiF Glasses (2009) Ferroelectrics, Letters Section, 36 (3-4), pp. 82-91.</p> <p>Reddy, B.S., Buddhudu, S., Rao, S.R.K., Babu, P.N. Spectral analysis of Nd³⁺ & Er³⁺: B₂O₃-(TeO₂/CdO/ZnO)-Li₂O-AlF₃ glasses (2008) Journal of Optoelectronics and Advanced Materials, 10 (10), pp. 2777-2781.</p> <p>Lakshminarayana, G., Vidya Sagar, R., Buddhudu, S. Emission analysis of Dy³⁺ and Pr³⁺:Bi₂O₃-ZnF₂-B₂O₃-Li₂O-Na₂O glasses (2008) Physica B: Condensed Matter, 403 (1), pp. 81-86. Cited 2 times.</p> <p>Ardelean, I., Griguta, L. EPR and magnetic susceptibility studies of B₂O₃-Bi₂O₃-Gd₂O₃ glasses (2007) Journal of Non-Crystalline Solids, 353 (24-25), pp. 2363-2366. Cited 1 time.</p> <p>Ardelean, I., Griguta, L. FT-IR and EPR spectroscopic studies of B₂O₃-Bi₂O₃-Gd₂O₃ glasses (2007) Journal of Optoelectronics and Advanced Materials, 9 (7), pp. 2068-2070. Cited 1 time.</p> <p>Lakshminarayana, G., Buddhudu, S. Spectral analysis of Eu³⁺ and Tb³⁺:B₂O₃-ZnO-PbO glasses (2007) Materials Chemistry and Physics, 102 (2-3), pp. 181-186. Cited 5 times.</p> <p>Reddy, B.S., Buddhudu, S. Spectral analysis of Cu²⁺: B₂O₃-(TeO₂/CdO/ZnO)-Li₂O-AlF₃ glasses (2006) Indian Journal of Pure and Applied Physics, 44 (12), pp. 887-895. Cited 1 time.</p>		

	<p>Bhaskar, D.U., Buddhudu, S. Absorption and emission spectral analysis of Sm³⁺: Bi₂O₃-B₂O₃-Li₂O glasses (2006) Ferroelectrics, Letters Section, 33 (3-4), pp. 57-73.</p> <p>Lakshminarayana, G., Buddhudu, S. Spectral analysis of Sm³⁺ and Dy³⁺: B₂O₃-ZnO-PbO glasses (2006) Physica B: Condensed Matter, 373 (1), pp. 100-106. Cited 19 times.</p> <p>Lakshminarayana, G., Buddhudu, S. Spectral analysis of Mn²⁺, Co²⁺ and Ni²⁺: B₂O₃-ZnO-PbO glasses (2006) Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 63 (2), pp. 295-304. Cited 22 times.</p> <p>Murali, A., Sreekanth Chakradhar, R.P., Lakshmana Rao, J. EPR studies of Gd³⁺ ions in lithium tetra boro-tellurite and lithium lead tetra boro-tellurite glasses (2005) Physica B: Condensed Matter, 364 (1-4), pp. 142-149. Cited 10 times.</p>		
33	<p><u>Simon S.</u>, Van Der Pol A., Reijerse E.J., Kentgens A.P.M., Van Moorsel G.J., De Boer E. <i>EPR and NMR studies of amorphous aluminium borates</i> 1994, <i>Journal of the Chemical Society, Faraday Transactions</i>, (18) 2663-2670</p> <p>Zhang, J., Klasky, M., Letellier, B.C. The aluminum chemistry and corrosion in alkaline solutions (2009) Journal of Nuclear Materials, 384 (2), pp. 175-189. Cited 4 times.</p> <p>Scott, J.F., Fan, H.J., Kawasaki, S., Banys, J., Ivanov, M., Krotkus, A., Macutkevic, J., Blinc, R., Laguta, V.V., Cevc, P., Liu, J.S., Kholkin, A.L. Terahertz emission from tubular Pb(Zr, Ti)O₃ nanostructures (2008) Nano Letters, 8 (12), pp. 4404-4409. Cited 3 times.</p>	2	20
34	<p><u>Simon S.</u>, van Moorsel G.J.M.P., Kentgens A.P.M., de Boer E. High fraction of penta-coordinated aluminium in amorphous and crystalline aluminium borates 1995, <i>Solid State Nuclear Magnetic Resonance</i>, (2) 163-173</p> <p>Florian, P., Anghel, E.M., Bessada, C. Structural description of the Na₂B₄O₇-Na₃AlF₆-TiO₂ system. 2. A multinuclear NMR approach of melts and solids (2007) Journal of Physical Chemistry B, 111 (5), pp. 968-978. Cited 1 time.</p> <p>Bhattacharya, G., Zhang, S., Lee, W.E., Kemp, T.F., Smith, M.E. Mineralizing spinel formation with B₂O₃ (2006) UNITECR '05 - Proceedings of the Unified International Technical Conference on Refractories: 9th Biennial Worldwide Congress on Refractories, pp. 345-349.</p>	2	20
PUNCTAJ TOTAL			2210

5. Studenți naționali atrași (activități de coordonare științifică și didactică)

- Îndrumare lucrari de licență (număr lucrări susținute): 10 **PUNCTAJ TOTAL: 30**

- Îndrumare lucrări de disertație (număr lucrări susținute): 10 **PUNCTAJ TOTAL: 40**

- Doctoranzi (lista nominală a doctoranzilor înmatriculați resp. lista nominală a tezelor susținute)

a) Lista nominală a doctoranzilor înmatriculați în perioada 2005-2009

Nr. crt.	Doctorand	Anul înmatriculării	Punctaj
1	Oana Ponta	2005	6
2	Maria Maier	2007	6
3	Frentiu Bogdan	2005	6
4	Marieta Muresan-Pop	2008	6
5	Florentina Talos	2009	6
6	Cristina Gruian	2008	6
7	Georgescu Dumitru	2008	6
		PUNCTAJ TOTAL	42

b) Lista nominală a doctoranzilor care au susținut teza în perioada 2005-2009

Nr. crt.	Doctorand	Anul sustinerii tezei	Punctaj
1	Udvar Alexandru	2007	10
2	Dana Cacaina	2006	10
3	Turcu Romulus Valeriu Flaviu	2007	10
4	Vasilescu Mihai	2007	10
5	Dina Petrisor	2007	10
6	Milica Todea	2009	10
7	Dorina Muresan	2007	10
8	Felicia Toderas	2008	10
		PUNCTAJ TOTAL	80

- Post-doctoranzi (lista nominal)

Nr. crt.	Post -Doctorand	Punctaj
1	Radu Teodora	8
2	Aluas Mihaela	8
	PUNCTAJ TOTAL	16

6. Studenți internaționali atrasi (activități de coordonare științifică și didactică)

- Îndrumare lucrări de disertație (număr lucrări susținute): 1 **PUNCTAJ TOTAL: 8**
- Doctoranzi (lista nominală a doctoranzilor înmatriculați resp. lista nominală a tezelor susținute):

Nr. crt.	Doctorand	Punctaj
1	Awatef Cheniti	12
	PUNCTAJ TOTAL	12

- 8. Membru în comitetul de redacție la reviste BDI:**
- Studia Physica
 - Romanian Report in Physics

PUNCTAJ TOTAL: 10

10. Participări la programe/granturi finanțate din sursă națională (se menționează și valoarea)

Nr. crt.	PROGRAM /GRANT DE CERCETARE	Valoare	PUNCTAJ
1	STUDIUL UNOR MATERIALE OXIDICE NANOSTRUCTURATE DE INTERES BIOMEDICAL, TIP A - COD CNC SIS 192 (2005-2007)	600000	120
2	BIOMATERIALE COMPOZITE PENTRU RADIOTERAPIE SI HIPERTERMIE SIMULTANA, CEEX (2006-2008) 100/2006 PROGRAMUL MATNANTECH	750000	150
3	NOI BIOCOMPOZITE IONOMERE BAZATE PE ACIZI POLIALCHENOICI MODIFICATI CU RASINI SI STICLE SUPERFICIAL ACTIVE CU APLICATII MULTIPLE IN MEDICINA, CEEX (2006-2008) 32/2006 PROGRAMUL RELANSIN	120000	24
4	POTENTIALUL OSTEOINDUCTIV AL CORNULUI CADUC DE CERB UTILIZABIL IN REGENERAREA OSOASA, CEEX (2006-2008) 73/2006 PROGRAMUL VIASAN	150000	30
5	APLICATII ALE UNOR TEHNICI INOVATIVE DE INGINERIE TISUALARA IN	250000	50

	PATOLOGIA TUBULUI DIGESTIV - ABORDARE MULTIDISCIPLINARA, CNMP - PNCDI2 - PARTENERIATE IN DOMENIILE PRIORITARE (2008-2011) 42118/2008		
		PUNCTAJ TOTAL	374

12. Coordonări de programe/granturi finanțate din sursă națională (se menționează și valoarea)

Nr. crt.	PROGRAM/GRANT DE CERCETARE	Valoare	PUNCTAJ
1	EFECTE STATICE SI DINAMICE DE DEZORDINE. DIMENSIUNE SI DIMENSIONALITATE REDUSA IN MEDII CRISTALINE, CEEEX 05-D11-7/3.10.2005	74600	14.92
2	PROCESE DE CLUSTERIZARE IN SISTEME VITROASE OXIDICE CU IONI 4F, CEEEX 47/28.07.2006	288500	57.70
3	STUDIUL CLINIC I EXPERIMENTAL AL UNOR FACTORI PRIVIND INCIDEN A. ETIOPATOGENIA I TRATAMENTUL NEINVAZIV AL MODIFIC RILOR DE CULOARE DENTAR , CEEEX 152/2006	180000	36.00
4	NANOCOMPOZITE CU IONI DE LANTANIDE: RELATII STRUCTURA-PROPRIETATI, 2-CEX-06-11-31/25.07.0	140000	28.00
5	FORME POLIMORFICE SI INCAPSULAREA SUBSTANTELOR BIOACTIVE IN CICLODEXTRINE PENTRU IMBUNATATIREA CALITATII MEDICAMENTELOR, CEEEX 7/2005	199500	39.90
6	FOTOCATALIZATORI PENTRU PRODUCTIA DE HIDROGEN SI COMBUSTIBILI DIN BIOMASA SI APE REZIDUALE, 21-048/2007	143950	28.79
7	ADAPATAREA DE SECVENTE DE PULSURI SI INTERCONECTARE NATIONALA A LABORATOARELOR DE SPECTROSCOPIE RMN SUPRACONDUCTOARE, 2-CEX 06-11-41 / 25.07.2006	634050	126.81
8	DINAMICA MOLECULARA IN NANOCAPSULE POLIMERICE. INVESTIGATII PRIN REZONANTA MAGNETICA NUCLEARA, CEEEX 58/28.07.2006	265000	53.00
9	DEZVOLTAREA STRATURILOR NANOSTRUCTURATE LA SUPRAFATA MICROSFERELOR SILICATICE NECRISTALINE, IDEI, ID 566	426650	85.33
10	STUDIUL FORMARII FAZELOR NANOCRISTALINE IN MATRICI OXIDICE NECRISTALINE, GRANT TIP A, NR. 53 COD CNCSIS 335	88000	17.60
11	PLATFORMA INSITUT CERCETARI EXPERIMENTALE INTERDISCIPLINARE AL UNIVERSITATII BABES-BOLYAI CLUJ-NAPOCA	4462500	892.50
12	DETERMINAREA STRUCTURII CRISTALINE SI MOLECULARE PE PULBERI: SOLUTII METODOLOGICE INOVATIVE CU APLICATII PRACTICE IN DEZVOLTAREA DE NOI COMPUSI BIOLOGIC ACTIVI, 61-003/14.10.2007	161000	32.20
	PUNCTAJ TOTAL	7063700	1412.74

16. Membru în comitete de organizare sau științifice ale unor conferințe internaționale

Presedinte al comitetului de organizare a Conferintei " Advanced Spectroscopies on Biomedical and Nanostructured Systems" editiile 2004, 2006, 2008.

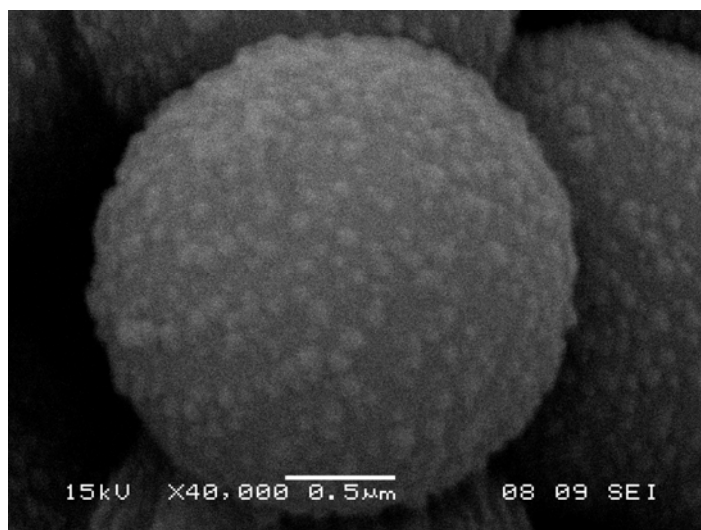
PUNCTAJ TOTAL: 60

III. Realizare remarcabilă

Una dintre cele mai apreciate realizari ale grupului nostru, inclusiv prin citari in literatura de specialitate cat si prin acceptarea prezentarii rezultatelor noastre la importante conferinte internationale, consta din stabilirea parametrilor fizico-chimici adecvati pentru sinteza unor materiale cu suprafete nanostructurate si caracterizarea completa prin metode fizice moderne [XPS, AFM, SEM, MAS-NMR] a proprietatilor acestora la interfata cu fluide biologice simulate.

Modelarea formarii de nanocristale in si la suprafata unor matrici necristaline, compacte sau poroase, sub forma de microparticule sau microsfera, au adus o contributie decisiva la intelegerea si controlul proprietatilor de suprafata ale materialelor cu aplicatii biomedicale sau in depoluarea mediului.

Prezentam spre ilustrare imaginea SEM a unor microsfera cu nanocristale de oxizi ai pamanturilor rare, imagine extrem de sugestiva pentru multiplele aplicatii ale acestora atat in procese de radioterapie interna cat si in cele de fotocataliza in procese de depoluare a mediului.



Data: 22.03.2010

Semn tura:

Certific validitatea datelor prezentate

Sef de catedr ,



ROMÂNIA
UNIVERSITATEA BABEȘ-BOLYAI CLUJ-NAPOCA

Str. Mihail Kogălniceanu, nr. 1, 400084 Cluj-Napoca
Tel. (00) 40 - 264 - 40.53.00*; 40.53.01; 40.53.02 ; 40.53.22
Fax: 40 - 264 - 59.19.06
E-mail: staff@staff.ubbcluj.ro

RECTORATUL

Universitatea Babeș-Bolyai Competiția Excelenței 2010

Dosar individual

Notă: Toate datele se referă la perioada 2005-2009

Nume, prenume, grad did.	SIMION SIMON, PROFESOR DOCTOR
Facultatea, Catedra	FIZICA, FIZICA MATERIALELOR SI A TEHNOLOGIILOR AVANSATE
Domeniul științific	FIZICA
Adresa paginii web personale	http://www.phys.ubbcluj.ro/~simion.simon
Adresa e-mail	simion.simon@phys.ubbcluj.ro

Criteriul I – Output (60%)

Total punctaj criteriul I = 6500,042

1. Articole științifice publicate în reviste indexate ISI (cu menționare factorului de impact în cazul celor cotate)

69 lucrari PUNCTAJ: 6424.952

3. Articole științifice publicate în reviste indexate în BDI (din lista CNCSIS) și în reviste românești recunoscute de CNCSIS tip B și B⁺

5 lucrari PUNCTAJ: 10.34

5. Cărți științifice publicate în edituri internaționale

1 capitol PUNCTAJ: 4

6. Cărți științifice publicate în edituri naționale acreditate

1 carte PUNCTAJ: 15

7. Editor de volume publicate în edituri naționale și internaționale

1 volum PUNCTAJ TOTAL: 45,75

Criteriul II – Prestigiu profesional 30% (aplicat la total punctaj Criteriul II)

Total punctaj criteriul II = 5354,74

1. Citări ale articolelor ISI listate la Criteriul I

106 citari PUNCTAJ: 1060

3. Citări în perioada 2005-2009 ale articolelor anterioare anului 2005

214 citari PUNCTAJ: 2140

5. Studenți naționali atrași (activități de coordonare științifică și didactică)

20 studenti, 15 doctoranzi PUNCTAJ: 208

6. Studenți internaționali atrași (activități de coordonare științifică și didactică)

1 student PUNCTAJ: 20

8. Membru in comitetul de redacție la reviste BDI

1 comitet PUNCTAJ: 10

10. Participări la programe/granturi finanțate din sursă națională (se menționează și valoarea)

5 granturi in valoare totala 1870000 lei PUNCTAJ: 374

12. Coordonări de programe/granturi finanțate din sursă națională (se menționează și valoarea)

12 granturi in valoare totala 7063700 lei PUNCTAJ: 1412,74

16. Membru în comitete de organizare sau științifice ale unor conferințe internaționale

3 comitete PUNCTAJ TOTAL: 60

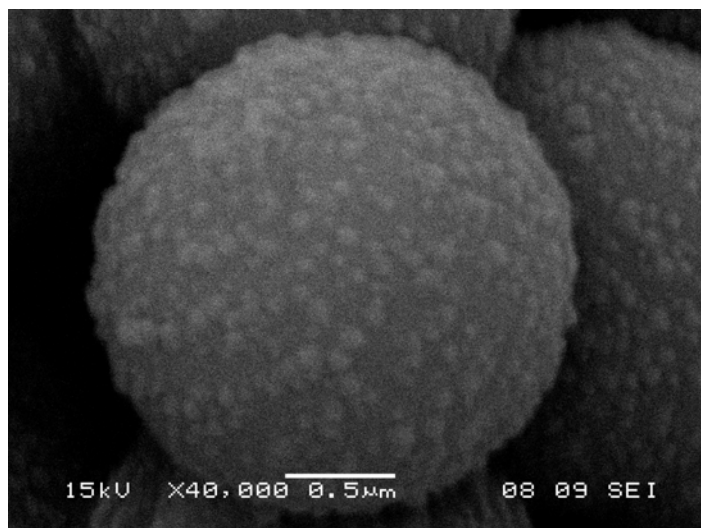
Total punctaj criteriul I si II = 5506,445

III. Realizare remarcabilă

Una dintre cele mai apreciate realizări ale grupului nostru, inclusiv prin citări în literatura de specialitate cât și prin acceptarea prezentării rezultatelor noastre la importante conferințe internaționale, constă din stabilirea parametrilor fizico-chimici adecvați pentru sinteza unor materiale cu suprafețe nanostructurate și caracterizarea completă prin metode fizice moderne [XPS, AFM, SEM, MAS-NMR] a proprietăților acestora la interfața cu fluide biologice simulate.

Modelarea formării de nanocristale în și la suprafața unor matrici necristaline, compacte sau poroase, sub forma de microparticule sau microsferă, au adus o contribuție decisivă la înțelegerea și controlul proprietăților de suprafață ale materialelor cu aplicații biomedicale sau în depoluarea mediului.

Prezentăm spre ilustrare imaginea SEM a unor microsferă cu nanocristale de oxizi ai pământurilor rare, imagine extrem de sugestivă pentru multiplele aplicații ale acestora atât în procese de radioterapie internă cât și în cele de fotocataliză în procese de depoluare a mediului.



Data: 22.03.2010

Semn tura:

Certific validitatea datelor prezentate

Sef de catedr ,