



RECTORATUL

## Universitatea Babeş-Bolyai Competiția Excelenței 2010

### Dosar individual

Notă: Toate datele se referă la perioada 2005-2009

Nume, prenume, grad did.	VIORICA SIMON
Facultatea, Catedra	FIZICA, FIZICA BIOMEDICALA
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### Criteriaul 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	A. Gritco, M. Moldovan, R. Grecu, <u>V. Simon</u> <i>Thermal and IR analyses of aluminosilicate glass systems for dental implants</i> JOAM, 7, 6, 2845-2849 (2005)	4	1.138	85.35
2	C. Tamas, M. Moldovan, C. Prejmerean, A. Colceriu, G. Furtos, L. Vezensenyi, D. Prodan, R. Grecu, <u>V. Simon</u> <i>Structure and properties of inorganic fillers for dental composites</i> JOAM, 7, 6, 2849-2853 (2005)	9	1.138	37.93333
3	A. Griciuc, T. Popescu-Negreanu, R. Grecu, <u>V. Simon</u> <i>Corem composite matrix behaviour in simulated body fluid</i> JOAM, 7, 6, 2827-2831 (2005)	4	1.138	85.35
4	<u>V. Simon</u> , D. Eniu, A. Takács, K. Magyari, M. Neumann, S. Simon <i>X-ray photoemission study of yttrium contained in radiotherapy systems</i> JOAM, 7, 6, 2853-2859 (2005)	6	1.138	56.9
5	<u>V. Simon</u> , D. Muresan, C. Popa, S. Simon <i>Microscopic analysis of sintered titanium-hydroxyapatite implant materials</i> JOAM, 7, 6, 2823-2827 (2005)	4	1.138	85.35
6	<u>V. Simon</u> , M. Todea, S. Simon <i>Thermal investigation of SiO<sub>2</sub>-Bi<sub>2</sub>O<sub>3</sub> heavy metal glasses</i> Int. J. Mod. Phys. B, 19 (20), 3293-3301 (2005)	3	0.381	38.1
7	V. Simon, D. Eniu, A. Takacs, K. Magyari, M. Neumann, S. Simon <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	63.2
8	C. Popa, <u>V. Simon</u> , I. Vida-Simiti, G. Batin, V. Candea, S. Simon	6	1.248	62.4

	<i>Titanium – Hydroxyapatite Porous Structures for Endosseous Applications</i> J. Mat. Sci.: Mat. in Medicine, 12 (2005) 1165-1171			
9	K. Magyari, <u>V. Simon</u> , Gy. Varo <i>The influence of the halide ions on the photochemical reaction cycle of pharaonis halorhodopsin</i> J. Photochem. Photobiol. 82 (2006) 16-20	3	1.909	190.9
10	K. Magyari, Z. Bálint, <u>V. Simon</u> , Gy. Váró <i>The photochemical reaction cycle of retinal reconstituted bacteriorhodopsin</i> Journal of Photochemistry and Photobiology B: Biology, 85, 2, 140-144 (2006)	4	1.909	143.175
11	D. Muresan, <u>V. Simon</u> , D. Cacaina, S. Simon <i>Influence of CaO/P<sub>2</sub>O<sub>5</sub> 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
12	S. Cavalu, <u>V. Simon</u> <i>Microstructure and bioactivity of bone cement for prosthetic surgery</i> JOAM, 8, 4 1520 (2006)	2	1.106	165.9
13	<u>V. Simon</u> , C. Popa, D. Muresan, S. Simon <i>Vibrational investigation of sintered titanium biomaterials</i> JOAM, 8, 2, 540-543 (2006)	4	1.106	82.95
14	<u>V. Simon</u> , M. Spinu, R. Stefan <i>Structure and dissolution investigation of calcium-bismuth-borate glasses and vitroceraamics containing silver</i> J. Mat. Sci.: Mat. in Medicine, 18, 3, p. 507-512 (2007)	3	1.581	158.1
15	<u>V. Simon</u> , D. Muresan, A.F. Takács, M. Neumann, S. Simon <i>Local order changes induced in calcium-sodium-phosphate glasses by transition metals</i> Solid State Ionics, 178, 221-225 (2007)	5	2.012	120.72
16	<u>V. Simon</u> , D. Eniu <i>Yttrium effect on local structure of bismuth-borate glasses</i> MPLB, 21, 9, 567-571 (2007)	2	0.4	60
17	<u>V. Simon</u> , P. Riedl, E. Tataru <i>Glass stability effect of iron oxide added to alkaline earth borate glasses</i> IJMPB, 21, 5, 731-736 (2007)	3	0.647	64.7
18	<u>V. Simon</u> , M. Todea, A.F. Takács, M. Neumann, S. Simon <i>XPS study on silica-bismuthate glasses and glass ceramics</i> Solid State Commun., 141, p. 42–47 (2007)	5	1.535	92.1
19	<u>V. Simon</u> , D. Lazăr, C. Popa, A.F. Takács, M. Neumann, S. Simon <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	41.35
20	M. Streza, <u>V. Simon</u> , C. Neamtu, D. Dadarlat <i>High accuracy photopyroelectric calorimetry. Application to liquid mixtures and composites</i> J. Optoelectr. Adv. Mater., 9, 3, p. 595 – 598 (2007)	4	0.827	62.025
21	S. Cavalu, <u>V. Simon</u> , C. Albon, C. Hozan <i>Bioactivity evaluation of new silver doped bone cement for prosthetic surgery</i> J. Optoelectr. Adv. Mater., 9, 3, p. 690 – 693 (2007)	4	0.827	62.025
22	M. Baciut, G. Baciut, <u>V. Simon</u> , C. Albon, V. Coman, P. Prodan, St. I. Florian, S. Bran <i>Investigation of deer antler as a potential bone regenerating biomaterial</i> J. Optoelectr. Adv. Mat., 9, 8, 2547 – 2550 (2007)	8	0.827	31.0125
23	<u>V. Simon</u> , D. Muresan, S. Simon <i>Iron effect on glass stability of sodium-calcium-phosphate glasses</i> Eur. Phys. J. AP, 37, 2, 219-223 (2007)	3	0.778	77.8

24	<u>V. Simon</u> , D. Eniu, A. Gritco, S. Simon <i>Thermal and spectroscopic investigation of sol-gel derived aluminosilicate bioglass matrices</i> J. Optoelectr. Adv. Mat., 9, 11, 3368-3371 (2007)	4	0.827	62.025
25	<u>V. Simon</u> , A. Colceriu, C. Prejmerean, M. Moldovan, M. Prinz, M. Neumann <i>X-ray photoelectron spectroscopic study of composite glass fillers</i> J. Optoelectr. Adv. Mat., 9, 11, 3350-3353 (2007)	6	0.827	41.35
26	S. Cavalu, <u>V. Simon</u> <i>Proteins adsorption to orthopaedic biomaterials: vibrational spectroscopy evidence</i> J. Optoelectr. Adv. Mat., 9, 11, 3297-3302 (2007)	2	0.827	124.05
27	V. Coman, R. Grecu, M. Băciuț, G. Băciuț, P. Prodan, <u>V. Simon</u> <i>Investigation of different bone matrices by vibrational spectroscopy</i> J. Optoelectr. Adv. Mat., 9, 11, 3372 – 3375 (2007)	6	0.827	41.35
28	G. Baciut, M. Baciut, <u>V. Simon</u> , S. Bran, R. Campian, H. Rotaru <i>Study of deer antler as a potential bone regenerating biomaterial</i> International Journal of Oral and Maxillofacial Surgery, <b>36</b> , 11, 1062 (2007)	6	1.78	89
29	<u>V. Simon</u> , R.V.F. Turcu, D. Eniu, S. Simon <i>Short range order changes induced by heat treatment in yttrium aluminosilicate glasses</i> Physica B, 403, 139-144 (2008)	4	0.822	61.65
30	<u>V. Simon</u> , O. Ponta, S. Simon, D.A. Udvar, M. Neumann <i>Gadolinium effect on local structure of Bi<sub>2</sub>O<sub>3</sub>-GeO<sub>2</sub> glasses and vitroceramics</i> Phys. Status Solidi (a), 205, 5, 1139-1143 (2008)	5	1.205	72.3
31	<u>V. Simon</u> , C. Albon, S. Simon <i>Silver release from hydroxyapatite self-assembling calcium-phosphate glasses</i> J. Non-Cryst. Solids, 354, 1751–1755 (2008)	3	1.449	144.9
32	M. Tamasan, T. Radu, S. Simon, I. Barbur, H. Mocuta, <u>V. Simon</u> <i>Thermal analysis of sol-gel aluminosilicate systems</i> J. Optoelectr. Adv. Mat., 10, 4, 948-950 (2008)	6	0.577	28.85
33	T. Radu, S. Simon, C. Prejmerean, <u>V. Simon</u> , 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	24.72857
34	K. Magyari, C. Tănăselia, <u>V. Simon</u> <i>Dynamics of calcium, phosphorus and sodium ions at the interface of sol-gel hydroxyapatite with simulated body fluid</i> J. Optoelectr. Adv. Mat., 10, 4, 951-953 (2008)	3	0.577	57.7
35	<u>V. Simon</u> , S Cavalu, M Prinz, E Vanea, M Neumann, S Simon <i>Albumin adsorption on the surface of iron containing aluminosilicates</i> European Cells & Materials, 16, S1, 55 (2008)	6	4.289	214.45
36	<u>V. Simon</u> , O. Ponta, S. Simon, 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
37	M. Todea, S. Simon, <u>V. Simon</u> <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	57.7
38	<u>V. Simon</u> , S. Cavalu, S. Simon, 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	103.9286

39	M.Verziu, M. Florea, S. Simon, <u>V. Simon</u> , 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	221.4429
40	M. Streza, M. N. Pop, K. Kovacs, <u>V. Simon</u> , S. Longuemart, D. Dadarlat <i>Thermal Effusivity Investigations of Solid Materials by Using the Thermal-Wave-Resonator-Cavity (TWRC) Configuration. Theory and Mathematical Simulations</i> Laser Phys. 19 (6) 1330-1344 (2009)	6	0.777	38.85
41	M. Tămășan, M. Băciuț, V. Coman, <u>V. Simon</u> <i>Thermal kinetics analysis of bone tissue organic phase</i> J. Optoelectr. Adv. Mater., 11 (4) 479 – 483 (2009)	4	0.577	43.275
42	C. Alb, M. Moldovan, C. Prejmerean, M. Trif, C. Sarosi, D. Dudea, <u>V. Simon</u> <i>Microstructure, mechanical properties and tissue/biomaterial interface behaviour of new dental restorative composites</i> Optoelectr. Adv. Mater. – Rapid Commun., 3 (4) 350 – 355 (2009)	7	0.224	9.6
43	M. Streza, D. Dadarlat, C. Socaciu, C. Bele, F. Dulf, <u>V. Simon</u> <i>Photopyroelectric detection of vegetable oils' adulteration</i> Food Biophysics, 4 (3) 147-150 (2009)	6	1.537	76.85
44	<u>V. Simon</u> , D. Lazăr, R.V.F. Turcu, H. Mocuta, K. Magyari, M. Prinz, M. Neumann, S. Simon <i>Atomic environment in sol-gel derived nanocrystalline hydroxyapatite</i> Materials Science and Engineering B, 165 (3) (2009) 247–251	8	1.577	59.1375
45	<u>V. Simon</u> , O. Ponta, D. Trandafir, H. Mocuta <i>Spectroscopic studies on vitreous and polycrystalline heavy metal gallium-bismuthates</i> J. Non-Cryst. Solids 355 (2009) 2451-2455	4	1.449	108.675
46	S. Simon, R.V.F. Turcu, T. Radu, M. Moldovan, <u>V. Simon</u> <i>Multispectroscopic investigation of silanised glass particles for dental fillers</i> J. Optoelectr. Adv. Mater., 11 (11), p. 1660 – 1670 (2009)	5	0.577	34.62
47	R. Ciceo Lucacel, A.O. Hulpus, <u>V. Simon</u> , I. Ardelean <i>Structural characterization of phosphate glasses doped with silver</i> J. Non-Cryst. Solids 355 (2009) 425–429	4	1.449	108.675
<b>PUNCTAJ TOTAL (ARTICOLE COTATE ISI)</b>				<b>3778.398</b>

## 2. Articole științifice publicate în ISI proceedings

## 3. Articole științifice indexate în BDI (din lista CNCIS)

Nr. crt.	Articol	Nr. de autori	Punctaj
1	S. Simon, D. Muresan, C. Popa, I. Balasz, <u>V. Simon</u> Structural changes induced by simulated body fluid on sintered titanium-hydroxyapatite implant materials Studia, 50, 1, p. 67-73 (2005)	5	2.00
2	Corrosion properties of calcium-bismuth-borate glasses with silver <u>V. Simon</u> , M. Spinu, R. Stefan Rom. J. Biophysics, 15, 1-4, 85-93 (2005)	3	3.33
3	NMR and IR investigation of aluminosilicate glasses as components of dental materials	4	2.50

	S. Simon, M. Vasilescu, M. Moldovan, <u>V. Simon</u> Studia, 50, 2, p. 87-92 (2005)		
4	IR and EPR investigation of copper complexes of tolbutamide E. Marian, T. Jurca, V. Simon, L. Vicas, F. Banica Tim. Med. J., 55, 5 130-134 (2005)	5	2.00
5	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
6	Iodide influence on the photochemical reaction cycle of pharaonis halorhodopsin K. Magyari, V. Simon, Gy. Varo Studia, 58 S, 725-730 (2005)	3	3.33
7	DTA investigation of Fe <sub>2</sub> O <sub>3</sub> -Ca(Ba,Sr)O-B <sub>2</sub> O <sub>3</sub> glasses P. Riedl, E. Tătaru, V. Simon Studia, LI, 1, p. 33-39 (2006)	3	3.33
8	V. Simon Corrosion of alkali calcium phosphate bioglasses European Cells and Materials, 11, 2, 12 (2006)	1	10.00
9	C. Popa, P. Berce, <u>V. Simon</u> , N. Balc Titanium-base Composite for Medical Applications of Rapid Prototyping Academic Journal of Manufacturing Engineering, 4(2), 2006, 55	4	2.50
10	K. Magyari, V. Simon, Y. Fan, L. S. Brown, G. Váró Absorption kinetics and electric signals measured on <i>leptosphaeria</i> rhodopsin Digest Journal of Nanomaterials and Biostructures Vol. 2, No. 3, 2007, p. 265 - 269	5	2.00
11	Spectroscopic and electric signal measurements of retinal reconstituted bacteriorhodopsin K. Magyari, Z. Bálint, V. Simon, Gy. Váró Studia, Physica, LII, 2, p. 47-53 (2007)	4	2.50
12	S. Cavalu, <u>V. Simon</u> , F. Banica, C. Deleanu Fibrinogen adsorption onto bioglass aluminosilicates Rom. J. Biophys, 17, 4, 237-245 (2007)	4	2.50
13	<u>V. Simon</u> , 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
14	Emilia S. Vanea, <u>V. Simon</u> EPR Study of Radiation Induced Paramagnetic Species in Aluminosilicate Compounds Studia, LIII, 2, 3-9 (2008)	2	5.00
15	M. Tamasan, S. Simon, M. Baciut, G. Baciut, V. Coman, <u>V. Simon</u> Thermal investigation of nanocrystalline bone phases Studia – Physica, LIII, 2, 9-17 (2008)	6	1.67
16	M. Streza, D. Dadarlat, <u>V. Simon</u> , C. Prejmerean, L. Silaghi-Dumitrescu Thermal diffusivity investigations of some dental materials by using photopyroelectric calorimetry J. Optoelectr. Adv. Mater. – Symposia, 1 (1) 2009, p. 70 – 73	5	2.00
17	E. Lászlóffi, K. Magyari, <u>V. Simon</u> UV-vis and fluorescence study on protein enriched simulated body fluid Studia, Physica, LIV (1), 3-9 (2009)	3	3.33
18	A. Vulpoi, C. Ionescu, <u>V. Simon</u> Specific surface area of heat treated illitic mineral clay Studia, Physica, LIV (1), 11-16 (2009)	3	3.33
19	R. Stefan, M. Spinu, M. Niculae, <u>V. Simon</u> Iron containing glass and vitroceramic powders used for medical applications Bulletin UASVM, Medicine 66 (1) 226-229 (2009)	4	2.50
20	M. Tămășan, H. Mocuța, C. Ionescu, <u>V. Simon</u> Structural changes induced in mineral clays by high temperature heat treatments Studia, Physica, LIV (2) 3-8 (2009)	4	2.50
21	G. Melinte, M. Tămășan, L. Baia, <u>V. Simon</u>	4	2.50

	Synthesis and structural characterization of SiO <sub>2</sub> -CaO-P <sub>2</sub> O <sub>5</sub> sol-gel derived bioglasses Studia, Physica, LIV (2) 9-14 (2009)		
		<b>PUNCTAJ TOTAL</b>	<b>63.00</b>

**4. Alte articole științifice/capitole publicate în reviste/volume cu referenți (peer-reviewed)**

**5. Cărți științifice publicate în edituri internaționale**

C. Popa, V. Candea, V. Simon, D. Lucaciu, O. Rotaru  
 Știința Biomaterialelor – Biomateriale Metalice  
 UT Press, Cluj-Napoca, 2008, 277 pag. ISBN 978-973-662-372-1 55.4

**6. Cărți științifice publicate în edituri naționale acreditate**

**7. Editor de volume publicate în edituri naționale și internaționale**

**8. Brevete internaționale**

**9. Brevete naționale**

**10. Impact tehnologic al brevetelor: resurse financiare extrabugetare atrase în relație cu economia**

**11. Realizări artistice naționale și internaționale (Domeniul Arte)**

(Expoziții, spectacole, concerte, publicații, filme, înregistrări)

## Criteriul II – Prestigiu profesional

### 1. Citări ale articolelor ISI listate la Criteriul I

Nr. crt.	Articol științific	Nr. de citari	Punctaj
1	A. Gritco, M. Moldovan, R. Grecu, <u>V. Simon</u> <i>Thermal and IR analyses of aluminosilicate glass systems for dental implants</i> JOAM, 7, 6, 2845-2849 (2005)	2	20
2	<u>V. Simon</u> , D. Muresan, C. Popa, S. Simon <i>Microscopic analysis of sintered titanium-hydroxyapatite implant materials</i> JOAM, 7, 6, 2823-2827 (2005)	2	20
3	V. Simon, D. Eniu, A. Takacs, K. Magyari, M. Neumann, S. Simon <i>Iron doping effect on the electronic structure in yttrium aluminosilicate glasses</i> J. Non-Cryst. Solids, 351, 30-32, 2365-2372 (2005)	4	40
4	C. Popa, <u>V. Simon</u> , I. Vida-Simiti, G. Batin, V. Candea, S. Simon <i>Titanium – Hydroxyapatite Porous Structures for Endosseous Applications</i> J. Mat. Sci.: Mat. in Medicine, 12 (2005) 1165-1171	6	60
5	K. Magyari, <u>V. Simon</u> , Gy. Varo <i>The influence of the halide ions on the photochemical reaction cycle of pharaonis halorhodopsin</i> J. Photochem. Photobiol. 82 (2006) 16-20	3	30
6	K. Magyari, Z. Bálint, <u>V. Simon</u> , Gy. Váró <i>The photochemical reaction cycle of retinal reconstituted bacteriorhodopsin</i> Journal of Photochemistry and Photobiology B: Biology, <b>85</b> , 2, 140-144 (2006)	3	30
7	<u>V. Simon</u> , C. Popa, D. Muresan, S. Simon <i>Vibrational investigation of sintered titanium biomaterials</i> JOAM, 8, 2, 540-543 (2006)	1	10
8	<u>V. Simon</u> , D. Muresan, A.F. Takács, M. Neumann, S. Simon <i>Local order changes induced in calcium-sodium-phosphate glasses by transition metals</i> <u>Solid State Ionics</u> , 178, 221-225 (2007)	6	60
9	<u>V. Simon</u> , M. Todea, A.F. Takács, M. Neumann, S. Simon <i>XPS study on silica-bismuthate glasses and glass ceramics</i> Solid State Commun., 141, p. 42–47 (2007)	5	50
10	S. Cavalu, <u>V. Simon</u> , C. Albon, C. Hozan <i>Bioactivity evaluation of new silver doped bone cement for prosthetic surgery</i> J. Optoelectr. Adv. Mater., 9, 3, p. 690 – 693 (2007)	1	10
11	<u>V. Simon</u> , D. Muresan, S. Simon <i>Iron effect on glass stability of sodium-calcium-phosphate glasses</i> Eur. Phys. J. AP, 37, 2, 219-223 (2007)	1	10
12	V. Coman, R. Grecu, M. Băciuț, G. Băciuț, P. Prodan, <u>V. Simon</u> <i>Investigation of different bone matrices by vibrational spectroscopy</i> J. Optoelectr. Adv. Mat., 9, 11, 3372 – 3375 (2007)	1	10
13	<u>V. Simon</u> , R.V.F. Turcu, D. Eniu, S. Simon <i>Short range order changes induced by heat treatment in yttrium aluminosilicate glasses</i> Physica B, 403, 139-144 (2008)	1	10

14	M.Verziu, M. Florea, S. Simon, <u>V. Simon</u> , 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)	5	50
15	R. Ciceo Lucacel, A.O. Hulpus, <u>V. Simon</u> , I. Ardelean <i>Structural characterization of phosphate glasses doped with silver</i> J. Non-Cryst. Solids 355 (2009) 425–429	3	30
<b>PUNCTAJ TOTAL</b>			<b>440</b>

## 2. Alte citări ale lucrărilor listate mai sus

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

Formula de calcul: număr citari x 10 x factor impact ISI al revistei in care este publicat articolul citat

Nr. crt.	Articol științific	Nr. de citari	Punctaj
1	<u>V. Simon</u> <i>Ionic field strength changes in soda-phosphate glasses induced by thorium</i> Eur. Phys. J. Appl. Phys., 25, 2, 93-97 (2004)	2	
2	E. Culea, L. Pop, <u>V. Simon</u> , M. Neumann, I. Bratu <i>Spectroscopic and magnetic behaviour of <math>xNd_2O_3(1-x)[3Bi_2O_3 \cdot PbO]</math> glasses</i> J. Non-Cryst. Solids, 337 (2004) 62-67	7	
3	<u>V. Simon</u> , R.Pop, S.G.Chiuzbaian, M.Neumann, M.Coldea, S.Simon <i>Structural changes induced by <math>Fe_2O_3</math> addition to <math>4Bi_2O_3 \cdot PbO</math> glass matrix</i> Mat. Lett., 57, 13-14, 2044-2048 (2003)	1	
4	S.Simon, R.Pop, <u>V. Simon</u> , M.Coldea <i>Structural and magnetic properties of lead-bismuthate oxide glasses containing S-state paramagnetic ions</i> J. Non-Cryst. Solids, 331, 1-3, 1-10 (2003)	5	
5	<u>V. Simon</u> <i>Iron effect on dielectric properties of calcium-silica-phosphate glasses</i> Mod. Phys. Lett. B, 16, 18, 677-683 (2002)	3	
6	S. Simon, R. Grecu, V. Simon <i>Infrared spectroscopic studies on amorphous and crystalline lanthanum aluminoborates</i> Mod. Phys. Lett. B, 16, 8, 291-298 (2002)	1	
7	I.Ardelean, M.Peteanu, <u>V. Simon</u> , F.Ciorcas, V.Ioncu <i>Structural and magnetic investigations of <math>xCuO(100-x)[70TeO_2, 25B_2O_3, 5SrF_2]</math> glasses</i> Appl. Phys. A, 72, 1-4 (2001)	1	
8	S. Simon, D. Eniu, A. Pasca, D. Dadarlat and V. Simon <i>EPR and photopyroelectric investigations of <math>Fe_2O_3</math>-CaO-P2O5-SiO2 glass and glass-ceramic systems</i> Mod. Phys. Lett. B, 15, 21, 921 (2001)	2	
9	I.Ardelean, Gh.Ilonca, <u>V. Simon</u> , S.Filip, S.Simon <i>Magnetic susceptibility investigation of <math>CoO</math>-<math>Bi_2O_3</math>-<math>GeO_2</math> glasses</i> J. of Alloys and Compounds, 326, 121 (2001)	1	
10	O.Cozar, I.Ardelean, <u>V. Simon</u> , Gh.Ilonca, C.Craciun, C.Cefan <i>EPR and magnetic susceptibility investigations of some vanadate-lithium-borate glasses</i> J. of Alloys and Compounds, 326, 124 (2001)	10	
11	I.Ardelean, M.Peteanu, <u>V. Simon</u> , F.Ciorcas, V.Ioncu <i>Structural investigation of <math>Fe_2O_3</math>-<math>TeO_2</math>-<math>B_2O_3</math>-<math>SrO</math> glasses by EPR</i> J. Mat. Sci. Lett., 20, 947 (2001)	2	
12	<u>V. Simon</u> , S.G.Chiuzbaian, M.Neumann, D.Eniu, E.Indrea, A.Torok-Kiss, S.Simon <i>Photoelectron spectroscopy on iron containing <math>CaO</math>-<math>SiO_2</math>-<math>P_2O_5</math> glass-ceramics</i>	1	



	Mod. Phys. Lett. B., 14, 21, p.767 (2000)		
13	I.Ardelean, O.Cozar, Gh.Ilonca, <u>V.Simon</u> , V.Mih, C.Craciun, S.Simon <i>EPR and magnetic susceptibility studies on V<sub>2</sub>O<sub>5</sub>-P<sub>2</sub>O<sub>5</sub>-PbO glasses</i> J. Mat. Sci.: Mat. Electronics, 111, 401 (2000)	1	
14	I.Ardelean, M.Peteanu, <u>V.Simon</u> , S.Simon, M. Flora <i>EPR and magnetic susceptibility studies on MnO-B<sub>2</sub>O<sub>3</sub>-CdO glasses</i> Phys. Chem. Glasses, 41, 3, 153-157 (2000)	2	
15	I.Ardelean, M.Peteanu, <u>V.Simon</u> , S.Filip, M.Flora, S.Simon <i>Structural and magnetic properties of MnO-B<sub>2</sub>O<sub>3</sub>-SrO glasses.</i> J. Mater. Sci., 34, 24, 6063-6068 (1999)	2	
16	<u>V.Simon</u> , I.Ardelean, I.Milea, M.Peteanu, S.Simon <i>Spectroscopic properties of B<sub>2</sub>O<sub>3</sub>-PbO-Nd<sub>2</sub>O<sub>3</sub> glasses.</i> Mod. Phys. Lett. B, 13, 24, 879 (1999)	1	
17	I.Ardelean, G.Salvan, M.Peteanu, <u>V.Simon</u> , C.Himcinschi, F.Ciorcas <i>EPR and magnetic susceptibility study of B<sub>2</sub>O<sub>3</sub>-SrO-Fe<sub>2</sub>O<sub>3</sub> glasses</i> Mod. Phys. Lett. B, 13, 22-23, 801 (1999)	4	
18	I. Ardelean, M.Peteanu, <u>V. Simon</u> , O.Cozar, F.Ciorcas, S.Lupsor <i>Structural and magnetic properties of CuO-TeO<sub>2</sub>-B<sub>2</sub>O<sub>3</sub>-SrO glasses</i> J. Magn. Magn. Mater., 196, 253-254 (1999)	8	
19	Ardelean, M.Peteanu, <u>V.Simon</u> , S.Filip, F.Ciorcas, I.Todor <i>Electron paramagnetic resonance study of Fe<sub>2</sub>O<sub>3</sub>-Bi<sub>2</sub>O<sub>3</sub>-GeO<sub>2</sub> glasses</i> J. Magn. Magn. Mater. 196, 257-258 (1999)	3	
20	O.Cozar, I.Ardelean, <u>V.Simon</u> , V.Mih, N.Vedean <i>EPR study of phosphite glasses containing two types of transitional metal ions</i> J. Magn. Magn. Mater. 196, 269-271 (1999)	3	
21	I.Ardelean, S.Simon, M.Peteanu, <u>V.Simon</u> , F.Ciorcas, C.Bob <i>Magnetic properties of Bi<sub>2</sub>O<sub>3</sub>-PbO-As<sub>2</sub>O<sub>3</sub>-MnO glasses</i> Mat. Lett., 39, 42 (1999)	2	
	I.Ardelean, G. Ilonca, <u>V.Simin</u> , I. Barbur, S. Filip, T. Jurcut <i>Magnetic susceptibility study of CoO-Bi<sub>2</sub>O<sub>3</sub>-PbO glasses</i> J. Magn. Magn. Mater. 196, 255-256 (1999)	1	
22	S.Simon, I.Ardelean, I.Bratu, D.U.Reckert, <u>V.Simon</u> , <i>Nuclear activity and IR investigation of ThO<sub>2</sub>-P<sub>2</sub>O-Na<sub>2</sub>O glasses</i> Mat. Lett. 3, 227-230 (1998)	1	
23	I.Ardelean, M. Peteanu, S. Filip, <u>V. Simon</u> , I. Todor <i>EPR and magnetic susceptibility studies of manganese ions in Bi<sub>2</sub>O<sub>3</sub>-GeO<sub>2</sub> glasses</i> Solid State Commun., 105, 5, 339-344 (1998)	6	
24	I.Ardelean, M. Peteanu, <u>V. Simon</u> , C. Bob, S. Filip <i>EPR and magnetic susceptibility studies of Cr<sub>2</sub>O<sub>3</sub>-Bi<sub>2</sub>O<sub>3</sub>-GeO<sub>2</sub> glasses</i> J. Mater. Sci., 33, 2, 357-362 (1998)	6	
25	M.Peteanu, <u>V.Simon</u> , N.Muresan, I.Ardelean and S.Filip, <i>EPR and magnetic susceptibility studies of Cr<sup>3+</sup> ions in the 70TeO<sub>2</sub>-25B<sub>2</sub>O<sub>3</sub>-5PbO glass matrix</i> J. Mater. Sci. Technol. 13, 374-378 (1997)	1	
26	I.Ardelean, M.Peteanu, S.Filip, <u>V.Simon</u> and G.Györfy <i>EPR and magnetic susceptibility studies of iron ions in 70TeO<sub>2</sub>-25B<sub>2</sub>O<sub>3</sub>-5PbO glass matrix</i> Solid State Commun. 102, 341-346 (1997)	12	
27	I.Ardelean, O. Cozar, <u>V.Simon</u> , S.Filip <i>Magnetic properties of xCr(2)O(3)center dot(1-x)[Bi<sub>2</sub>O<sub>3</sub>-PbO] glasses</i> J. Magn. Magn. Mater. 157, 165-166 (1996)	4	
28	I.Ardelean, Gh.Ilonca, <u>V.Simon</u> , O.Cozar, V.Ioncu, S.Filip, <i>Magnetic Properties of xMnO·(1-x)[Bi<sub>2</sub>O<sub>3</sub>-PbO] Glasses</i> Solid State Commun. 98, 651-653 (1996)	1	
29	I.Barbur, E. Burzo, V. Pop, I. Ardelean, <u>V. Simon</u> , I. Stanca <i>A diffuse phase transition in superconducting Yba<sub>2</sub>(Cu<sub>1-x</sub>Mnx)<sub>3</sub>O<sub>7-d</sub> (M=Zn, Ni, Cr) compounds</i> Mater. Lett., 24, 1-3, 1995, p. 195-197	1	
30	T. Iliescu, I. Ardelean, V. Simon, D. Maniu <i>Raman study of B<sub>2</sub>O<sub>3</sub>-PbO-Nd<sub>2</sub>O<sub>3</sub> glasses</i> J. Mater. Sci. Lett., 14, 6, 393-395 (1995)	1	

31	I.Ardelean, Gh.Ilonca, O.Cozar, <u>V.Simon</u> , S.Filip <i>The Valence States and Magnetic Interactions Between Iron Ions in Bi<sub>2</sub>O<sub>3</sub>-PbO Glasses</i> Mater. Lett., 21, 321-324 (1994)	1	
97x10			<b>970</b>

#### 4. Distincții, premii și alte recunoașteri naționale și internaționale

Premiul Academiei Romane, C. Miculescu, 2004.

Premiul Daniel Bunea, al Societatii Romane de Biomateriale, 2008

**20**

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

- Îndrumare lucrari de licență (număr lucrări susținute) 20
- Îndrumare lucrări de disertație (număr lucrări susținute) 10

**100**

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

1. Rad Veronica
2. Magyari Klara
3. Streza Mihaela
4. Vanea Emilia
5. Craciun Laura
6. Pop Goia Moisescu Cristina
7. Tamasan Monica
8. Zsejki Roxana
9. Lonca Andreea
10. Vulpoi Adriana
11. Veress Rozalia
12. Pop Mircea
13. Puscas Romulus

**78**

Teze sustinute : - Studiul unor proteine retinale cu potențial de biosenzori / K. Magyari  
- Studiul unor sisteme condensate prin metode fototermice / M. Streza

**20**

- Post-doctoranzi (lista nominală)

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

- Îndrumare lucrari de licență (număr lucrări susținute)
- Îndrumare lucrări de disertație (număr lucrări susținute)
- Doctoranzi (lista nominală a doctoranzilor înmatriculați resp. lista nominală a tezelor susținute)
- Post-doctoranzi (lista nominală)

#### 7. Membru in comitetul de redacție la reviste ISI

#### 8. Membru in comitetul de redacție la reviste BDI

Analele Științifice ale Universității "Al. I. Cuza" Iași **Biofizică, Fizică medicală și Fizica mediului**

**5**

9. Participări la programe/granturi de cercetare finanțate din sursă internațională (se menționează și valoarea)

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

Nr.	PROGRAM/GRANT DE CERCETARE	PUNCTAJ
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<b>crt.</b>		
1	EFECTE STATICE SI DINAMICE DE DEZORDINE. DIMENSIUNE SI DIMENSIONALITATE REDUSA IN MEDII CRISTALINE, CEE X 05-D11-7/ 3.10.2005	7.46
2	PROCESE DE CLUSTERIZARE IN SISTEME VITROASE OXIDICE CU IONI 4F, CEE X 47/28.07.2006	28.85
3	STUDIUL CLINIC ŞI EXPERIMENTAL AL UNOR FACTORI PRIVIND INCIDENŢA. ETIOPATOGENIA ŞI TRATAMENTUL NEINVAZIV AL MODIFICĂRILOR DE CULOARE DENTARĂ, CEE X 152/2006	18
4	NANOCOMPOZITE CU IONI DE LANTANIDE: RELATII STRUCTURA-PROPRIETATI, 2-CEX-06-11-31/25.07.0	13.998
5	FORME POLIMORFICE SI INCAPSULAREA SUBSTANTELOR BIOACTIVE IN CICLODEXTRINE PENTRU IMBUNATATIREA CALITATII MEDICAMENTELOR, CEE X 7/2005	19.951
6	FOTOCATALIZATORI PENTRU PRODUCTIA DE HIDROGEN SI COMBUSTIBILI DIN BIOMASA SI APE REZIDUALE, 21-048/2007	14.394
7	ADAPATAREA DE SECVENTE DE PULSURI SI INTERCONECTARE NATIONALA A LABORATOARELOR DE SPECTROSCOPIE RMN SUPRACONDUCTOARE, 2-CEX 06-11-41 / 25.07.2006	63.405
8	DINAMICA MOLECULARA IN NANOCAPSULE POLIMERICE. INVESTIGATII PRIN REZONANTA MAGNETICA NUCLEARA, CEE X 58/28.07.2006	26.5
9	DEZVOLTAREA STRATURILOR NANOSTRUCTURATE LA SUPRAFATA MICROSFERELOR SILICATICE NECRISTALINE, IDEI, ID 566	42.663
10	STUDIUL FORMARII FAZELOR NANOCRISTALINE IN MATRICI OXIDICE NECRISTALINE, GRANT TIP A, NR. 53 COD CNCSIS 335	8.799
11	PLATFORMA INSITUT CERCETARI EXPERIMENTALE INTERDISCIPLINARE AL UNIVERSITATII BABES-BOLYAI CLUJ-NAPOCA	446.25
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	16.101
	<b>TOTAL PUNCTAJ</b>	<b>706.371</b>

**11. Coordonări de programe/granturi finanțate din sursă internațională (se menționează și valoarea)**

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

<b>Nr. crt.</b>	<b>PROGRAM /GRANT DE CERCETARE</b>	<b>PUNCTAJ</b>
1	STUDIUL UNOR MATERIALE OXIDICE NANOSTRUCTURATE DE INTERES BIOMEDICAL, TIP A - COD CNCSIS 192 (2005-2007)	120
2	BIOMATERIALE COMPOZITE PENTRU RADIOTERAPIE SI HIPERTERMIE SIMULTANA, CEE X (2006-2008) 100/2006 PROGRAMUL MATNANTECH	150
3	NOI BIOCOMPOZITE IONOMERE BAZATE PE ACIZI POLIALCHENOICI MODIFICATI CU RASINI SI STICLE SUPERFICIAL ACTIVE CU APLICATII MULTIPLE IN MEDICINA, CEE X (2006-2008) 32/2006 PROGRAMUL RELANSIN	24
4	POTENTIALUL OSTEOINDUCTIV AL CORNULUI CADUC DE CERB UTILIZABIL IN REGENERAREA OSOASA, CEE X (2006-2008) 73/2006 PROGRAMUL VIASAN	30
5	APLICATII ALE UNOR TEHNICI INOVATIVE DE INGINERIE TISUALARA IN PATOLOGIA TUBULUI DIGESTIV - ABORDARE MULTIDISCIPLINARA, <u>CNMP - PNCDI2</u> _ PARTENERIATE IN DOMENIILE PRIORITARE (2008-2011) 42118/2008	50
	<b>PUNCTAJ TOTAL</b>	<b>374</b>

**13. Profesor invitat la universitati de prestigiu, cu titlu oficial**

#### 14. Membru în comisii profesionale relevante, cu titlu oficial

membru referent in comisii de doctorat / 13 comisii **65**  
Editor regional al revistei electronice **Recent Patents on Corrosion Science** **5**

#### 15. Conferințe invitate internaționale

*12th Swiss Conference on Biomaterials, May 10th, 2006, Grenchen, CH*

V. Simon, Corrosion of alkali calcium phosphate bioglasses

*3rd International Conference on Materials Science and Condensed Matter Physics*

*October 3-6, 2006, Chisinau, Moldova*

V. Simon, Influence of silver addition on bioactive layer selfassembled on bioglasses

*ScanBalt Biomaterials Days, 26 - 28 September 2007, Turku, Finland*

V. Simon, Biomaterials research area in Romania

*Seminar Surface Science - University of Osnabrück, January 25, 2008*

V. Simon

**Biomaterials - a challenge for the 21st century. The wide possibility of nanotechnologies**

*8th International Conference on Physics of Advanced Materials, June 4-7, 2008, Iasi*

V. Simon, S. Simon, E. Vanea, S. Cavalu, M. Prinz, M. Neumann, Spectroscopic studies on biofunctionalised aluminosilicate nano- and microparticles

*1st International Congress on Side Effects in Medicine, Iasi, March 19-22, 2009*

V. Simon, Biocompatibility enhancement and side effects diminishing in silver containing biomaterials

**103**

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

5 comitete

**100**

### **III. Realizare remarcabilă**

Formarea Centrului de Biomateriale si a colectivului implicat in cercetari de sisteme noi pentru suporturi compozite in ingineria tisulara.

Data: 16 martie 2010

Semnătura:

**TOTAL:  $0.6 \times 3890.798 + 0.3 \times 2986.371 = 3230.4$**

**Certific validitatea datelor prezentate**

Sef de catedră,