

UNIVERSITATEA POLITEHNICA DIN BUCUREȘTI

FISA DE VERIFICARE A ÎNDEPLINIRII STANDARDELOR DE PREZENTARE LA CONCURS
(ABILITARE)

CANDIDAT: SAVA BOGDAN ALEXANDRU

CS2, INSTITUTUL PENTRU FIZICA LASERILOR, PLASMEI ȘI RADIAȚIEI MĂGURELE

Condiții	Îndeplinire condiții	
A. Doctor		DA
B. Îndeplinirea standardelor minime naționale conform OMENCS Nr. 6129/20.12.2016 (MO, I, 123/15.02.2017)		
Standarde minimale (cumulative)		
1. Număr total de articole în reviste ISI în top 25% (zona roșie) în calitate de autor principal (NTOP)	4	8
2. Număr articole în reviste ISI la care candidatul este autor principal (prim autor sau autor de corespondență) (NP)	20	29
3. Factor de impact cumulat (suma factorilor de impact ai revistelor la momentul înscrierii la concursul pentru ocuparea unei poziții didactice) (FIC)	30	62.9668
4. Număr total de citări (din baza SCOPUS) (se exclud autocitările candidatului) (NC)	120	247
5. Număr contracte de cercetare-dezvoltare-inovare obținute prin competiție la nivel național sau internațional ori contracte de cercetare-dezvoltare-inovare cu terții în valoare minimă de 10000 euro (NCO)	1	5
C. Atestarea studiilor (Diploma + Foi Matricole) și a altor realizări profesionale		DA

Sava

NTOP număr total de articole în reviste ISI din top 25% (zona roșie) în calitate de autor principal

Cotare reviste la data depunerii dosarului, 19.11.2020, excepție poziția 6, pentru care cotarea este pentru anul apariției articolului

Nr. Crt.	Titlu articol	Autori	Revista, nr., pagini, an	Autor principal	Cotare revistă
1	“Raman and ESR study of sol-gel materials from ZnO-TiO ₂ -B ₂ O ₃ system”	B. A. Sava, Adriana Diaconu, Lucica Boroica, Daniela Ursu, T. Visan, M. Elisa, Alina Balu	J.Non-Cryst.Solids 355 2020–2022 (2009) WOS:000270620900057	Prim autor	Rosu, IF si AIS, WOS category: Materials Science, Ceramics
2	“Structural and thermal characterization of SiO ₂ -P ₂ O ₅ sol-gel powders upon annealing at high temperatures”	M. Elisa, B.A. Sava, A. Volceanov, R.C.C. Monteiro, E. Alves, N. Franco, F.A. Costa Oliveira, H. Fernandes, M.C. Ferro	J. Non-Cryst. Solids 356 (9-10) 495-501 (2010) WOS:000275769800011	Autor de corespondență	Rosu, IF si AIS, WOS category: Materials Science, Ceramics
3	“Investigations on sol-gel process and structural characterization of SiO ₂ -P ₂ O ₅ powders”	B.A. Sava, M. Elisa, I.C. Vasiliu, F. Nastase, S. Simon	J. Non-Cryst. Solids 358 2877-2885 (2012) WOS:000309845800006	Prim autor	Rosu, IF si AIS, WOS category: Materials Science, Ceramics
4	"Optical and structural characterization of samarium and europium-doped phosphate glasses"	Mihai Elisa, Bogdan Alexandru Sava, Ileana Cristina Vasiliu, Regina Monteiro, J.P. Veiga Luminita Ghervase, Ionut Feraru, Raluca Iordanescu	Journal of Non-Crystalline Solids 369 , 55-60 (2013) WOS:000319492200010	Autor de corespondență	Rosu, IF si AIS, WOS category: Materials Science, Ceramics
5	“Non-isothermal free-models kinetic analysis on crystallization of europium-doped phosphate glasses”	Sava, Bogdan; Elisa, Mihai; Bartha, Cristina; Iordanescu, Raluca; Feraru, Ionut; Plapcianu, Carmen; Patrascu Roxana	Ceramics International 40 (8 PART A) 12387-12395 (2014) WOS:000340328600111	Prim autor	Rosu, IF si AIS, WOS category: Materials Science, Ceramics
6	“Sol-gel preparation and structural investigations of silico-phosphate glasses doped with Fe ions”	B. A. Sava, M. Elisa, L. Boroica, V. Kuncser, M. Valeanu, I. C. Vasiliu, I. Feraru, R. Iordanescu	Journal of Sol-Gel Science and Technology 81 (2017) 294–302 WOS:000395030100034	Prim autor	Rosu, IF, WOS category: Materials Science, Ceramics
7	“Bismuth and lead oxides codoped boron phosphate glasses for Faraday rotators”	B.A. Sava, Lucica Boroica, M. Elisa, O. Shikimaka, D. Grabco, M. Popa, Z. Barbos, R. Iordanescu, A.M. Niculescu, V. Kuncser,	Ceramics International, DOI: https://doi.org/10.1016/j.ceramint.2017.12.205 , Reference: CER117085,	Prim autor	Rosu, IF si AIS, WOS category: Materials

		A.C. Galca, M. Eftimie, R.C.C. Monteiro	44 (6) 6016-6025 (2018) WOS:000427215100029		Science, Ceramics
8	„Structural and luminescence characterization of a Dy/Tb co-doped borophosphate glass”,	J.F.C. Carreira, B.A. Sava, L. Boroica, M. Elisa, R. Stefan, R.C.C. Monteiro, T. Monteiro, L. Rino	Journal of Non-Crystalline Solids 526, 119719, 1-9, 2019. https://doi.org/10.1016/j.jnoncrysol.2019.119719 WOS:000504782900011	Autor de corespondență	Rosu, IF si AIS, WOS category: Materials Science, Ceramics

NP, numar articole in reviste ISI la care candidatul este autor principal

Nr. Crt.	Titlu Lucrare	Autori	Revista	Autor principal
1	"The synthesis investigation of some vitreous materials in the ZnO-TiO ₂ -SiO ₂ system by sol-gel method"	B.A. Sava	Rev Chim-Bucharest 55 (4) 200-202 (2004) WOS:000222031500003	Prim autor
2	"The synthesis by the sol-gel method of glasses in the ZnO-TiO ₂ -B ₂ O ₃ system"	B.A. Sava	Rev Chim-Bucharest 56 (4) 387-389 (2005) WOS:000229981900015	Prim autor
3	"The study of the vitreous materials obtained by the sol-gel method, in the ternary ZnO-V ₂ O ₅ -B ₂ O ₃ system"	B.A. Sava	Revue Roumaine de Chimie 11 1079-1087 (2006) WOS:000246222000003	Prim autor
4	"Ceramic Composites with improved Thermo-Mechanical Properties"	Sava Bogdan Alexandru, Țârdei Christu, Stamatina Ioan, Năstase Claudia, Năstase Florin	J. Optoelectron. Adv. Mater. 9 (7) 2056-2062 (2007) WOS:000248583100020	Prim autor
5	"Structural characterization of the sol-gel oxide powders from the ZnO-TiO ₂ -SiO ₂ system"	B.A.Sava, Adriana.Diaconu, M.Elisa, C.E.A.Grigorescu, I.C.Vasiliiu, A.Manea	Superlattices and Microstructures 42 (1-6) 314-321 (2007) WOS:000250271200057	Prim autor
6	"Bio compatible glass for ionomeric cements"	B. A. Sava, A. Dinischiotu, A. Cîmpean	Optoelectronics and Advanced Materials – Rapid Communications 2 (5) 258 – 261 (2008) WOS:000256534200003	Prim autor
7	"Cadmium sulphide nanoparticles embedded in polymeric matrices"	S. Peretz, B. Sava, M. Elisa, G. Stanciu	Journal of Optoelectronics and Advanced Materials 11 (12) 2098-2104 (2009) WOS:000273490800038	Autor de corespondență
8	"Molecular Dynamics Simulation for Ternary Lithium-Aluminium-Phosphate Glass"	E. M. Rotiu, B. A. Sava, M. Elisa	Optoelectronics and Advanced Materials – Rapid Communications 3 (10) 1050-1055 (2009) WOS:000271576800019	Autor de corespondență
9	"Raman and ESR study of sol-gel materials from ZnO-TiO ₂ -B ₂ O ₃ system"	B. A. Sava, Adriana Diaconu, Lucica Boroica, Daniela Ursu, T. Visan, M. Elisa, Alina Balu	J.Non-Cryst.Solids 355 2020–2022 (2009) WOS:000270620900057	Prim autor

10	“Structure of ecological lead free silicate glasses”	B. A. Sava, A. Diaconu, D. Ursu, M. Elisa, I. Stamatina, F. Nastase, C. Nastase	Optoelectronics and Advanced Materials – Rapid Communications 3 (5) 435 – 438 (2009) WOS:000268622300010	Prim autor
11	„Obtaining and characterization of calcium/magnesium/iron lithium phosphate glasses”	M. Elisa, B. A. Sava, R. Iordanescu, I. Feraru, C. Vasiliu, M. Calin, A. Diaconu, L. D. Ursu, L. Boroica, Z. Plaiasu, F. Nastase, C. Nastase, A. Dumitru	Optoelectronics and Advanced Materials Rapid Communications 4 (9) 1301 – 1303 (2010) WOS:000283515100008	Autor de corespondență
12	“Model of complex energy and environmental analysis of processes from glass industry”	Roxana Patrascu, G. Darie, A. Volceanov, B. A. Sava, M. Elisa, Adina Stanculea	Romanian Journal of Materials 40 (2) 153-160 (2010) WOS:000279450600008	Autor de corespondență
13	“Structural and thermal characterization of SiO ₂ -P ₂ O ₅ sol-gel powders upon annealing at high temperatures”	M. Elisa, B.A. Sava, A. Volceanov, R.C.C. Monteiro, E. Alves, N. Franco, F.A. Costa Oliveira, H. Fernandes, M.C. Ferro	J. Non-Cryst. Solids 356 (9-10) 495-501 (2010) WOS:000275769800011	Autor de corespondență
14	“Potassium phosphate glasses used as agro-fertilizers with controlled solubility”	B. A. Sava, L. Boroica, M. Sava, M. Elisa, C. I. Vasiliu, F. Nastase, C. Nastase, R. Medianu	Journal of Optoelectronics and Advanced Materials 13 (11-12) 1534 – 1541 (2011) WOS:000298834200035	Prim autor
15	“Vitreous potassium-phosphate materials containing nitrogen as agricultural fertilizers”	B. A. Sava, Lucica Boroica, M. Sava, M. Elisa	Romanian Journal of Materials 41 (4) 371-382 (2011) WOS:000298204200009	Prim autor
16	“Optical and structural characterization of Eu ³⁺ , Dy ³⁺ , Ho ³⁺ and Tm ³⁺ -doped phosphate glasses”	M. Elisa, B. A. Sava, I. C. Vasiliu, E. M. Carstea, I. Feraru, C. Tanaselia, M. Senila, B. Abraham	Phys. Chem. Glasses: Eur. J. Glass Sci. Technol. B 53 (5) 219-224 (2012) WOS:000311182900006	Autor de corespondență
17	“Investigations on sol-gel process and structural characterization of SiO ₂ -P ₂ O ₅ powders”	B.A. Sava, M. Elisa, I.C. Vasiliu, F. Nastase, S. Simon	J. Non-Cryst. Solids 358 2877-2885 (2012) WOS:000309845800006	Prim autor
18	"Synthesis of rare-earth-doped phosphate glasses with improved optical properties"	Sava, B. A.; Boroica, L.; Elisa, M.	Romanian Journals of Materials 43 (3) 339-346 (2013) WOS:000324848100015	Prim autor

19	"Optical and structural characterization of samarium and europium-doped phosphate glasses"	Mihai Elisa, Bogdan Alexandru Sava, Ileana Cristina Vasiliu, Regina Monteiro, J.P. Veiga Luminita Ghervase, Ionut Feraru, Raluca Iordanescu	Journal of Non-Crystalline Solids 369 , 55-60 (2013) WOS:000319492200010	Autor de corespondență
20	"Structure and properties of phosphate glasses containing Mo, B, V and Fe"	L. Boroica, B. A. Sava, M. Sava, M. Elisa	Journal of Optoelectronics and Advanced Materials 15 (3 - 4)187-192 (2013) WOS:000319788000010	Autor de corespondență
21	"Preparation method and thermal properties of samarium and europium-doped alumino-phosphate glasses"	Sava, Bogdan Alexandru; Elisa, M; Boroica, L; Monteiro, RCC.	Materials Science and Engineering B-Advanced Functional Solid-State Materials 178, 1429-1435 (2013) WOS:000327830000011	Prim autor
22	"Non-isothermal free-models kinetic analysis on crystallization of europium-doped phosphate glasses"	Sava, Bogdan; Elisa, Mihai; Bartha, Cristina; Iordanescu, Raluca; Feraru, Ionut; Plapcianu, Carmen; Patrascu Roxana	Ceramics International 40 (8 PART A) 12387-12395 (2014) WOS:000340328600111	Prim autor
23	" Hydroxyapatite nanopowders obtained by sol-gel method, synthesis and properties",	Sava, B.A.; Tardei, C.; Simonescu, C. M.; Boroica, L.; Melinescu, A.	Optoelectronic and Advanced Materials-Rapid Communications, 9 (11-12) 1415 – 1424 (2015) WOS:000368046800015	Prim autor
24	"Densification contribution as a function of strain rate under indentation of terbium-doped aluminophosphate glass"	Shikimaka, O.; Grabco, D.; Sava B.A.; Elisa, M.; Boroica, L.; Harea, E.; Pyrtsac, C.; Prisacaru, A.; Barbos, Z.	Journal of Materials Science, 51(3) 1409-1417 (2016) WOS:000367612500024	Autor de corespondență
25	"Evaluation of lab scale nano-hydroxyapatites for lead ions removal from aqueous solutions"	Christu Tardei, C.M. Simonescu, Cristian Onose, B.A Sava, L. Boroica, B.G. Sbârcea	Romanian Journal of Materials, 46 (3) (2016) 289-295 WOS:000383730900005	Autor de corespondență
26	"Sol-gel preparation and structural investigations of silico-phosphate glasses doped with Fe ions"	B. A. Sava, M. Elisa, L. Boroica, V. Kuncser, M. Valeanu, I. C. Vasiliu, I. Feraru, R. Iordanescu	Journal of Sol-Gel Science and Technology 81 (2017) 294–302 WOS:000395030100034	Prim autor

27	“Bismuth and lead oxides codoped boron phosphate glasses for Faraday rotators”	B.A. Sava, Lucica Boroica, M. Elisa, O. Shikimaka, D. Grabco, M. Popa, Z. Barbos, R. Iordanescu, A.M. Niculescu, V. Kuncser, A.C. Galca, M. Eftimie, R.C.C. Monteiro	Ceramics International, DOI: https://doi.org/10.1016/j.ceramint.2017.12.205, Reference: CERI17085, 44 (6) 6016-6025 (2018) WOS:000427215100029	Prim autor
28	„Structural and luminescence characterization of a Dy/Tb co-doped borophosphate glass”,	J.F.C. Carreira, B.A. Sava, L. Boroica, M. Elisa, R. Stefan, R.C.C. Monteiro, T. Monteiro, L. Rino	Journal of Non-Crystalline Solids 526, 119719, 1-9, 2019. https://doi.org/10.1016/j.jnocrsol.2019.119719 WOS:000504782900011	Autor de corespondență
29	A New Zinc Phosphate-Tellurite Glass for Magneto-Optical Applications	Mihail Elisa, Raluca Constantina Stefan, Ileana Cristina Vasiliu, Stefan Marian Iordache, Ana-Maria Iordache, Bogdan Alexandru Sava, Lucica Boroica, Marius Catalin Dinca, Ana Violeta Filip, Aurelian Catalin Galca, Cristina Bartha, Nicusor Iacob, Madalin Ion Rusu, Mihai Eftimie; Victor Kuncser	Nanomaterials 10, 1875, 1-19, 2020. doi:10.3390/nano10091875 WOS:000579935000001	Autor de corespondență

FIC, factor de impact cumulat

Nr. Crt.	Titlu Lucrare	Autori	Revista	Nr. de autori	Factor de impact ISI	Autor principal	FIC
1	"The synthesis investigation of some vitreous materials in the ZnO-TiO ₂ -SiO ₂ system by sol-gel method"	B.A. Sava	Rev Chim-Bucharest 55 (4) 200-202 (2004) WOS:000222031500003	1	1.7550	Prim autor	1.7550
2	"AIBVI photoresistances by sintering-sublimation technics"	I. Nazarenco, Jaklovszky J., Ghiordănescu V., Sava B. A., Albeanu I., Dumitrescu M., Ulieru	Journal of Optoelectronics and Advanced Materials 7 (4) 2113-2118 (2005) WOS:000231406500055	7	0.6310	-	0.0901
3	"The synthesis by the sol-gel method of glasses in the ZnO-TiO ₂ -B ₂ O ₃ system"	B.A. Sava	Rev Chim-Bucharest 56 (4) 387-389 (2005) WOS:000229981900015	1	1.7550	Prim autor	1.7550
4	"The study of the vitreous materials obtained by the sol-gel method, in the ternary ZnO-V ₂ O ₅ -B ₂ O ₃ system"	B.A. Sava	Revue Roumaine de Chimie 11 1079-1087 (2006) WOS:000246222000003	1	0.3810	Prim autor	0.3810
5	"A Combined Sintering-Sublimation Method to Grow Light Responsive Polycrystalline Thin Films"	Nazarenco Igor, Sava Bogdan Alexandru, Aurelia Meghea, Dumitru Ulieru	Molecular Crystals and Liquid Crystals 448 (1) 211/(813)-221/(823) (2006) WOS:000235404700018	4	0.5120	-	0.128
6	"Optical transmission and Raman spectroscopy of aluminophosphate glasses containing chromium and manganese ions"	M. Elisa, C. Vasiliu, C. Grigorescu, B.A. Sava, A. Diaconu, H.J. Trodahl, M. Dalley	Glass Technology: European Journal of Glass Science and Technology Part A 48 (5) 247-251 (2007) WOS:000251516000006	7	0.8080	-	0.1154

7	"Ceramic Composites with improved Thermo-Mechanical Properties"	Sava Bogdan Alexandru, Târdei Christu, Stamatina Ioan, Năstase Claudia, Năstase Florin	J. Optoelectron. Adv. Mater. 9 (7) 2056-2062 (2007) WOS:0002485831 00020	5	0.6310	Prim autor	0.6310
8	"Structural characterization of the sol-gel oxide powders from the ZnO-TiO ₂ -SiO ₂ system"	B.A.Sava, Adriana.Diaconu, M.Elisa, C.E.A.Grigorescu, I.C.Vasilu, A.Manea	Superlattices and Microstructures 42 (1-6) 314-321 (2007) WOS:0002502712 00057	6	2.1200	Prim autor	2.1200
9	"Bio compatible glass for ionomeric cements"	B. A. Sava, A. Dinischiotu, A. Cîmpean	Optoelectronics and Advanced Materials – Rapid Communications 2 (5) 258 – 261 (2008) WOS:0002565342 00003	3	0.4450	Prim autor	0.4450
10	"Thermal properties of ecological phosphate and silicate glasses"	M. Elisa, B. A. Sava, A. Diaconu, L.Boroica, D. Ursu, I Stamatina, F. Nastase, C. Nastase	Glass Physics and Chemistry 35 (6) 596–601 (2009) WOS:0002734000 00007	8	0.6680	-	0.0835
11	"Cadmium sulphide nanoparticles embedded in polymeric matrices"	S. Peretz, B. Sava, M. Elisa, G. Stanciu	Journal of Optoelectronics and Advanced Materials 11 (12) 2098-2104 (2009) WOS:0002734908 00038	4	0.6310	Autor de corespondență	0.6310
12	"Molecular Dynamics Simulation for Ternary Lithium-Aluminium-Phosphate Glass"	E. M. Rotiu, B. A. Sava, M. Elisa	Optoelectronics and Advanced Materials – Rapid Communications 3 (10) 1050-1055 (2009) WOS:0002715768 00019	3	0.4450	Autor de corespondență	0.4450
13	"Raman and ESR study of sol-gel materials from ZnO-TiO ₂ -B ₂ O ₃ system"	B. A. Sava, Adriana Diaconu, Lucica Boroica, Daniela Ursu, T. Visan, M. Elisa, Alina Balu	J.Non-Cryst.Solids 355 2020–2022 (2009) WOS:0002706209 00057	7	2.9290	Prim autor	2.9290

14	„Fluorescence of copper, manganese and antimony ions in phosphate glass host”	M.Elisa, B.Sava, A.Diaconu, D.Ursu, R.Patrascu	J.Non-Cryst.Solids 355 (37-42) 1877–1879 (2009) WOS:000270620900023	5	2.9290	-	0.5858
15	“Structure of ecological lead free silicate glasses”	B. A. Sava, A. Diaconu, D. Ursu, M. Elisa, I. Stamatina, F. Nastase, C. Nastase	Optoelectronics and Advanced Materials – Rapid Communications 3 (5) 435 – 438 (2009) WOS:000268622300010	7	0.4450	Prim autor	0.4450
16	“Structural and morphological characterization of silicophosphate thin films containing Nd ³⁺ ions”	M. Elisa, I. C. Vasiliu, B. A. Sava, F. Nastase, C. Nastase, A. Volceanov, V. Dima, S. Stoleriu, M. Eftimie	Phys. Chem. Glasses: Eur. J. Glass Sci. Technol. B 51 (6) 309–317 (2010) WOS:000286076400003	9	1.0000	-	0.1111
17	„Obtaining and characterization of calcium/magnesium/iron lithium phosphate glasses”	M. Elisa, B. A. Sava, R. Iordanescu, I. Feraru, C. Vasiliu, M. Calin, A. Diaconu, L. D. Ursu, L. Boroica, Z. Plaiasu, F. Nastase, C. Nastase, A. Dumitru	Optoelectronics and Advanced Materials Rapid Communications 4 (9) 1301 – 1303 (2010) WOS:000283515100008	13	0.4450	Autor de corespondență	0.4450
18	“Model of complex energy and environmental analysis of processes from glass industry”	Roxana Patrascu, G. Darie, A. Volceanov, B. A. Sava, M. Elisa, Adina Stanculea	Romanian Journal of Materials 40 (2) 153-160 (2010) WOS:000279450600008	6	0.5420	Autor de corespondență	0.5420
19	“Structural and thermal characterization of SiO ₂ –P ₂ O ₅ sol–gel powders upon annealing at high temperatures”	M. Elisa, B.A. Sava, A. Volceanov, R.C.C. Monteiro, E. Alves, N. Franco, F.A. Costa Oliveira, H. Fernandes, M.C. Ferro	J. Non-Cryst. Solids 356 (9-10) 495-501 (2010) WOS:000275769800011	9	2.9290	Autor de corespondență	2.9290
20	“Potassium phosphate glasses used as agro-fertilizers	B. A. Sava, L. Boroica, M. Sava, M. Elisa, C. I. Vasiliu, F. Nastase, C. Nastase, R. Medianu	Journal of Optoelectronics and Advanced Materials 13 (11-12) 1534 – 1541 (2011)	8	0.6310	Prim autor	0.6310

	with controlled solubility”		WOS:000298834200035				
21	“Vitreous potassium-phosphate materials containing nitrogen as agricultural fertilizers”	B. A. Sava, Lucica Boroica, M. Sava, M. Elisa	Romanian Journal of Materials 41 (4) 371-382 (2011) WOS:000298204200009	4	0.5420	Prim autor	0.5420
22	“Optical and structural investigations on iron-containing phosphate glasses”	M. Elisa, R. Iordanescu, B. A. Sava, G. Aldica, V. Kuncser, C. Valsangiacom, G. Schinteie, F. Nastase, C. Nastase, V. Bercu, A. Volceanov, S. Peretz	J Mater Sci 46 1563-1570 (2011) WOS:000286632600001	12	3.5530	-	0.2961
23	“Optical and structural characterization of Eu ³⁺ , Dy ³⁺ , Ho ³⁺ and Tm ³⁺ -doped phosphate glasses”	M. Elisa, B. A. Sava, I. C. Vasiliu, E. M. Carstea, I. Feraru, C. Tanaselia, M. Senila, B. Abraham	Phys. Chem. Glasses: Eur. J. Glass Sci. Technol. B 53 (5) 219-224 (2012) WOS:000311182900006	8	1.0000	Autor de corespondență	1.0000
24	“The Surface Morphology and Strength Properties of SiO ₂ -P ₂ O ₅ -Nd ₂ O ₃ Glassy Films”	D. Z. Grabko, O. A. Shikimaka, M. Elisa, B. A. Sava, L. Boroica, E. Harea, C. Pirtac, A. Prisacaru, I. Feraru, D. Ursu	Surface Engineering and Applied Electrochemistry 48 (5) 430-438 (2012) WOS:000312061900005	10	0.2890	-	0.0289
25	“Features of the Mechanical Properties of Phosphate Glasses Doped with Rare Earth Elements under Indentation”	D. Z. Grabko, O. A. Shikimaka, M. Elisa, B. A. Sava, L. Boroica, K. Pyrtsak, A. Prisacaru, Z. Danitsa, I. Feraru, D. Ursu	Surface Engineering and Applied Electrochemistry 48 (4) 365-374 (2012) WOS:000309356900012	10	0.2890	-	0.0289
26	“Investigations on sol-gel process and structural characterization of SiO ₂ -P ₂ O ₅ powders”	B.A. Sava, M. Elisa, I.C. Vasiliu, F. Nastase, S. Simon	J. Non-Cryst. Solids 358 2877-2885 (2012) WOS:000309845800006	5	2.9290	Prim autor	2.9290
27	“Structural and morphological	M. Elisa, B. A. Sava, I. C. Vasiliu, F.	Materials Chemistry and	7	3.4080	-	0.4869

	characterization of Pr ³⁺ and Er ³⁺ -containing SiO ₂ -P ₂ O ₅ sol-gel thin films”	Nastase, C. Nastase, A. Volceanov, S. Stoleriu	Physics 131 647–665 (2012) WOS:000300120600013				
28	"Synthesis of rare-earth-doped phosphate glasses with improved optical properties"	Sava, B. A.; Boroica, L.; Elisa, M.	Romanian Journals of Materials 43 (3) 339-346 (2013) WOS:000324848100015	3	0.5420	Prim autor	0.5420
29	"Optical and structural characterization of samarium and europium-doped phosphate glasses"	Mihai Elisa, Bogdan Alexandru Sava, Ileana Cristina Vasiliu, Regina Monteiro, J.P. Veiga Luminita Ghervase, Ionut Feraru, Raluca Iordanescu	Journal of Non-Crystalline Solids 369 , 55-60 (2013) WOS:000319492200010	8	2.9290	Autor de corespondență	2.9290
30	“Structure and properties of phosphate glasses containing Mo, B, V and Fe”	L. Boroica, B. A. Sava, M. Sava, M. Elisa	Journal of Optoelectronics and Advanced Materials 15 (3 - 4)187-192 (2013) WOS:000319788000010	4	0.6310	Autor de corespondență	0.6310
31	"Preparation method and thermal properties of samarium and europium-doped aluminophosphate glasses"	Sava, Bogdan Alexandru; Elisa, M; Boroica, L; Monteiro, RCC.	Materials Science and Engineering B-Advanced Functional Solid-State Materials 178, 1429-1435 (2013) WOS:000327830000011	4	4.7060	Prim autor	4.7060
32	"Effects of ultraviolet excitation on the spectroscopic properties of Sm ³⁺ and Tb ³⁺ doped aluminophosphate glasses"	C. Nico, M.P.F. Graça, M. Elisa, B.A. Sava, R.C.C. Monteiro, L. Rino, T. Monteiro.	Optical Materials 35(12):2382-2388 (2013) WOS:000326660500056	7	2.7790	-	0.397
33	"Eu ³⁺ luminescence in aluminophosphate glasses"	C. Nico, R. Fernandes, M.P.F. Graça, M.Elisa, B.A.Sava, R.C.C.Monteiro, L. Rino, T.Monteiro	Journal of Luminescence 145, 582–587 (2014) WOS:000330821200094	8	3.2800	-	0.41

34	“Phase transformation and microstructural evolution after heat treatment of a terbium-doped lithium–aluminum phosphate glass”	Soares, R. S.; Monteiro, R. C. C.; Lima, M. M. R. A.; Sava, B. A.; Elisa, M.	Journal of Materials Science 49 (13) 4601-4611 (2014) WOS:000334492000023	5	3.5530	-	0.7106
35	“Crystallization and microstructure of Eu ³⁺ -doped lithium aluminophosphate glass”	Soares, R. S.; Monteiro, R. C. C.; Lopes, A. A. S.; Lima, M. M. R. A.; Sava, B. A.; Elisa, M.	J. Non-Cryst. Solids 403 9-17 (2014) WOS:000342548700003	6	2.9290	-	0.4882
36	“Non-isothermal free-models kinetic analysis on crystallization of europium-doped phosphate glasses”	Sava, Bogdan; Elisa, Mihai; Bartha, Cristina; Iordanescu, Raluca; Feraru, Ionut; Plapcianu, Carmen; Patrascu Roxana	Ceramics International 40 (8 PART A) 12387-12395 (2014) WOS:000340328600111	7	3.8300	Prim autor	3.8300
37	“FTIR and RAMAN structural studies of glasses with copper and nikel wastes”	Ursu, L. D.; Vasiliu, I. C.; Feraru, I.; Boroica, L.; Sava B. A.	Romanian Journal of Materials 44 (3) 311 – 316 (2014) WOS:000342262200013	5	0.5420	-	0.1084
38	“Protective coatings for the silicate glasses containing Fe ₂ O ₃ ”	Mocioiu, O.A.; Atkinson, I.; Pandele, J.; Boroica, L.; Sava, B.A.; Mocioiu, A.M.; Zaharescu, M.	Rev. Roum. Chim., 59(3-4) 267-272 (2014) WOS:000345109700014	7	0.3810	-	0.0544
39	“Rapid determination of Faraday rotation in optical glasses by means of secondary Faraday modulator”	Sofronie, M.; Elisa, M.; Sava, B. A.; Boroica, L.; Valeanu, M.; Kuncser, V.	Review of Scientific Instruments 86, 053905, 1-7 (2015) WOS:000355923700028	6	1.480	-	0.2467
40	“ Hydroxyapatite nanopowders obtained by sol-gel method, synthesis and properties”,	Sava, B.A.; Tardei, C.; Simonescu, C. M.; Boroica, L.; Melinescu, A.	Optoelectronic and Advanced Materials-Rapid Communications, 9 (11-12) 1415 – 1424 (2015) WOS:000368046800015	5	0.4450	Prim autor	0.4450

41	“Densification contribution as a function of strain rate under indentation of terbium-doped aluminophosphate glass”	Shikimaka, O.; Grabco, D.; Sava B.A.; Elisa, M.; Boroica, L.; Harea, E.; Pyrtsac, C.; Prisacaru, A.; Barbos, Z.	Journal of Materials Science, 51(3) 1409-1417 (2016) WOS:0003676125 00024	9	3.5530	Autor de corespondență	3.5530
42	“Relationship between magnetism and magneto-optical effects in Rare Earth doped aluminophosphate glasses”	Valeanu, Mihaela; Sofronie, Mihaela; Galca, Aurelian Catalin; Tolea, Felicia; Elisa, Mihai; Sava, Bogdan; Boroica, Lucica; Kuncser, Victor;	Journal of Physics D: Applied Physics, 49 075001, 1-10 (2016) WOS:0003694037 00004	8	3.1690	-	0.3961
43	“Evaluation of lab scale nano-hydroxyapatites for lead ions removal from aqueous solutions”	Christu Tardei, C.M. Simonescu, Cristian Onose, B.A Sava, L. Boroica, B.G. Sbârcea	Romanian Journal of Materials, 46 (3) (2016) 289-295 WOS:0003837309 00005	6	0.5420	Autor de corespondență	0.542
44	“Sol-gel preparation and structural investigations of silico-phosphate glasses doped with Fe ions”	B. A. Sava, M. Elisa, L. Boroica, V. Kuncser, M. Valeanu, I. C. Vasiliu, I. Feraru, R. Iordanescu	Journal of Sol-Gel Science and Technology 81 (2017) 294–302 WOS:0003950301 00034	8	2.008	Prim autor	2.008
45	“Magnetic and magneto-optical properties of Bi and Pb-doped aluminophosphate glass”	Mihail Elisa, Raluca Iordanescu, Cristina Vasiliu, Bogdan Alexandru Sava, Lucica Boroica, Mihaela Valeanu, Victor Kuncser, Aurelian Catalin Galca, Adrian Volceanov, Mihai Eftimie, Alina Melinescu, Anca Beldiceanu,	J. Non-Cryst. Solids 465 (2017) 55–58 WOS:0004031170 00008	12	2.9290	-	0.2441
46	“Bismuth and lead oxides codoped boron phosphate glasses for Faraday rotators”	B.A. Sava, Lucica Boroica, M. Elisa, O. Shikimaka, D. Grabco, M. Popa, Z. Barbos, R. Iordanescu, A.M. Niculescu, V. Kuncser, A.C. Galca,	Ceramics International, DOI: https://doi.org/10.1016/j.ceramint.2017.12.205 , Reference: CERII7085, 44 (6) 6016-6025	13	3.8300	Prim autor	3.830

		M. Eftimie, R.C.C. Monteiro	(2018) WOS:0004272151 00029				
47	Magneto-optical properties of Ce ³⁺ and Tb ³⁺ -doped silico-phosphate sol-gel thin films	C. R. Stefan, M. Elisa, I. C. Vasiliu, B. A. Sava, L. Boroica, M. Sofronie, F. Tolea, M. Enculescu, V. Kuncser, A. Beldiceanu, A. Volceanov, M. Eftimie	Applied Surface Science https://doi.org/10.1016/j.apsusc.2018.04.067 , 448, 474-480 (2018). WOS:0004327971 00053	12	6.182	-	0.5152
48	"Thermal, structural, magnetic and magneto-optical properties of dysprosium-doped phosphate glass"	M. Elisa, R. Stefan, I.C. Vasiliu, M.I. Rusu, B.A. Sava, L. Boroica, M. Sofronie, V. Kuncser, A.C. Galca, A. Beldiceanu, A. Volceanov, M. Eftimie	Journal of Non-Crystalline Solids 521 (1 octombrie 2019) 119545, 1-7, 2019, https://doi.org/10.1016/j.jnoncrysol.2019.119545 WOS:0004846447 00048	12	2.929	-	0.2441
49	„Structural and luminescence characterization of a Dy/Tb co-doped borophosphate glass”,	J.F.C. Carreira, B.A. Sava, L. Boroica, M. Elisa, R. Stefan, R.C.C. Monteiro, T. Monteiro, L. Rino	Journal of Non-Crystalline Solids 526, 119719, 1-9, 2019. https://doi.org/10.1016/j.jnoncrysol.2019.119719 WOS:0005047829 00011	8	2.929	Autor de corespondență	2.929
50	"Synthesis and characterization of a titanium phosphate-tellurite glass for Faraday rotators"	Mihail Elisa; Lucica Boroica; Bogdan Alexandru Sava; Stefan Marian Iordache; Ana-Maria Iordache; Ileana Cristina Vasiliu; Raluca Constantina Stefan; Aurelian Catalin Galca; Victor Kuncser; Mihai Eftimie	Journal of the American Ceramic Society, J Am Ceram Soc. 2020;103 (7):3978-3990. https://doi.org/10.1111/jace.17071 . WOS:0005335574 00008	10	3.502	-	0.3502
51	Non-Fourier Estimate of Electron Temperature in Case of Femtosecond Laser Pulses Interaction with Metals	Bucă, A.M., Oane, M., Mahmood, M.A., Mihăilescu, I.N., Popescu, A.C., Sava, B.A., Ristoscu, C.	Metals 10 (5), 606, 1-9, 2020. https://doi.org/10.3390/met10050606 WOS:0005402200 00054	7	2.117	-	0.3024

52	An Analytical Multiple-Temperature Model for Flash Laser Irradiation on Single-Layer Graphene	Anca M. Buca, Mihai Oane, Ion N. Mihailescu, Muhammad Arif Mahmood, Bogdan A. Sava, Carmen Ristoscu	Nanomaterials 2020, 10, 1319, 1-7; doi:10.3390/nano10071319 WOS:000558714400001	6	4.324	-	0.7207
53	A New Zinc Phosphate-Tellurite Glass for Magneto-Optical Applications	Mihail Elisa, Raluca Constantina Stefan, Ileana Cristina Vasiliu, Stefan Marian Iordache, Ana-Maria Iordache, Bogdan Alexandru Sava, Lucica Boroica, Marius Catalin Dinca, Ana Violeta Filip, Aurelian Catalin Galca, Cristina Bartha, Nicusor Iacob, Madalin Ion Rusu, Mihai Eftimie; Victor Kuncser	Nanomaterials 10, 1875, 1-19, 2020. doi:10.3390/nano10091875 WOS:000579935+000001	15	4.324	Autor de corespondență	4.324
	TOTAL FIC ARTICOLE						57.9668

FIC brevete

Autori / Titlu brevet / Nr. Brevet	National/ Internation al	FIC
Sava Bogdan Alexandru, Dragoman Ion, Hanganu Maria, Grecicosei Constanta, Szabo Andrei/Procedeu de obtinere a unei compozitii refractare/RO 98719/ 2.06.1987	National	1
Sava Bogdan Alexandru, Niciu Horatiu/Procedeu de preparare a pigmentilor de sulfoseleniura de cadmiu, sulfura de cadmiu si zinc si sulfoseleniura de cadmiu si zinc, utilizati in obtinerea de sticle colorate, filtre optice din sticla, culori ceramice de puritate inalta si mase plastice colorate, pentru gama de culori galben-portocaliu-rosu/RO 121337 B1, 2007	National	1
Nazarenco Igor, Jaklovsky Jenő, Albeanu Ioana, Dumitrescu Mirela, Sava Bogdan Alexandru, Ulieru Dumitru/Comutatoare optoelectronice, acordabile/RO 122828 B1, 2010	National	1
Bogdan Alexandru Sava, Lucica Boroica, Mihai Sava, Mihail Elisa/Fertilizanti vitrosi fosfato-potasici si metoda de producere a acestora/RO 128736 B1, 28/09/2018	National	1
Mihail Elisa, Bogdan Alexandru Sava, Lucica Boroica, Raluca Iordanescu, Ionut Feraru, Mihai Eftimie, Anca Beldiceanu /Sticle aluminofosfatice care contin ioni de pamanturi rare, utilizate ca senzori optici, si procedeul de obtinere a acestora/RO 130686 B1, 30/07/2019	National	1
FIC TOTAL Brevete		5

NC, număr total de citări din baza SCOPUS (se exclud autocitările candidatului)

Nr. crt.	Autori / Titlu Lucrare / Revista	Articole care citeaza (*)/autori, titlu, revista, an,	Nr. Citari
1	Sava, B.A.; "The synthesis investigation of some vitreous materials in the ZnO-TiO ₂ -SiO ₂ system by sol-gel method"; Rev Chim-Bucharest 55 (4) 200-202 (2004).	Citarea 1; Dragomirescu, Monica; Oros, Beatrice; Pred+D18a, Gabriela; "Environmental parametres influence on immobilized alkalase by physical bonding and entrapment within silica gel obtained by sol-gel technique"; REVISTA DE CHIMIE 57 (6) 610-614 (2006). Citarea 2; Almeida, M.P.S., Nunes, L.M., Gonçalves, R.R., Ribeiro, S.J.L., Maia, L.J.Q.; "Structural properties and visible emission of Eu ³⁺ -activated SiO ₂ -ZnO-TiO ₂ powders prepared by a soft chemical process"; Optical Materials 62 438-446 (2016).	2
2	Sava, Bogdan Alexandru; Țârdei, Christu; Stamatiu, Ioan; Năstase, Claudia; Năstase, Florin; "Ceramic Composites with improved Thermo-Mechanical Properties"; J. Optoelectron. Adv. Mater. 9 (7) 2056-2062 (2007).	Citarea 1; Lam, K. W.; Chan, H. P.; Uddin, M. A.; "Failure analysis of adhesive bonded planar lightwave circuit (PLC) based optical splitter packages"; OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS 3 (10) 998-1004 (2009). Citarea 2; Zhang, H; Gao, PY; Chen, GY; Li, MY; Lu, XG; Li, CH; "Microstructure Evolution and Mechanism of Al ₂ O ₃ / BaZrO ₃ Double Ceramics"; JOURNAL OF INORGANIC MATERIALS, 32 (8) 819-824 (2017)	2
3	Sava, B.A.; Diaconu, Adriana; Elisa, M.; Grigorescu, C.E.A.; Vasiliu, I.C.; Manea, A.; "Structural characterization of the sol-gel oxide powders from the ZnO-TiO ₂ -SiO ₂ system"; Superlattices and Microstructures 42 (1-6) 314-321 (2007).	Citarea 1; Lukić, I.; Krstić, J.; Jovanović, D.; Skala, D.; "Alumina/silica supported K ₂ CO ₃ as a catalyst for biodiesel synthesis from sunflower oil"; Bioresource Technology 100 (20) 4690-4696 (2009). Citarea 2; Lukic, Ivana; Krstic, Jugoslav; Glisic, Sandra; "Biodiesel synthesis using K ₂ CO ₃ /Al-O-Si aerogel catalysts"; JOURNAL OF THE SERBIAN CHEMICAL SOCIETY 75 (6)789-801 (2010). Citarea 3; Moradi, S.; Aberoomand Azar; P., Raeis Farshid, S.; Abedini Khorrami, S.; Givianrad, M.H.; "Effect of additives on characterization and photocatalytic activity of TiO ₂ /ZnO nanocomposite prepared via sol-gel process"; International Journal of Chemical Engineering 215373 (2012). Citarea 4; Moradi, Shahram; Aberoomand-Azar, Parviz; Raeis-Farshid, Sanaz; "Synthesis and Characterization of Al-TiO ₂ /ZnO and Fe-TiO ₂ /ZnO Photocatalyst and Their Photocatalytic Behaviour"; ASIAN JOURNAL OF CHEMISTRY 25 (12) 6635-6638 Part: B (2013). Citarea 5; Maia, LJQ; Santos, JCV; Carvalho, JF; Goncalves, RR; Hernandez, AC; Ribeiro, SJL; "NIR luminescence from erbium doped (100-x)SiO ₂ :xZnO powders obtained by soft chemical synthesis"; JOURNAL OF LUMINESCENCE, 170 663-670 (2016). Citarea 6; Alhalawani, A.M.F.; Towler, M.R.; "The effect of ZnO & Ta ₂ O ₅ substitution on the structural and thermal properties of SiO ₂ -ZnO-SrO-CaO-P ₂ O ₅ glasses"; Materials Characterization 114 218-224 (2016). Citarea 7; Moradi, Shahram; Aberoomand-Azar, Parviz; Raeis-Farshid, Sanaz; "The effect of different molar ratios of ZnO on characterization and photocatalytic activity of TiO ₂ /ZnO nanocomposite"; JOURNAL OF SAUDI CHEMICAL SOCIETY, 20 (4) 373-378 (2016).	15

		<p>Citarea 8; Ma, W.; Li, J.; Liu, Y.; (...); Xie, Z.; Liang, J.; "Preparation and characterization of excellent antibacterial TiO₂/N-halamines nanoparticles"; Colloids and Surfaces A: Physicochemical and Engineering Aspects 506 284-290 (2016).</p> <p>Citarea 9; Almeida, M.P.S., Nunes, L.M., Gonçalves, R.R., Ribeiro, S.J.L., Maia, L.J.Q.; "Structural properties and visible emission of Eu³⁺-activated SiO₂-ZnO-TiO₂ powders prepared by a soft chemical process"; Optical Materials 62 438-446 (2016).</p> <p>Citarea 10; Morgani, M. Salehi; Saboori, R.; Sabbaghi, S.; "Hydrogen sulfide removal in water-based drilling fluid by metal oxide nanoparticle and ZnO/TiO₂ nanocomposite"; MATERIALS RESEARCH EXPRESS, 4 (7) 075501 (2017). 10.1088/2053-1591/aa707b.</p> <p>Citarea 11; Reddy, ASS; Ingram, A; Brik, MG; Kostrzewa, M; Bragiel, P; Kumar, VR; Veeraiah, N; "Insulating characteristics of zinc niobium borate glass-ceramics"; JOURNAL OF THE AMERICAN CERAMIC SOCIETY, 100 (9):4066-4080 (2017).</p> <p>Citarea 12; Bigdeli, T., Moradi Dehaghi, S.; "The effect of trace amount of Zr-doped TiO₂ on photocatalytic activity in degradation of organic waste"; Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 40 (3) 274-281 (2018).</p> <p>Citarea 13; da Silva, CN; Siqueira, JM; Veiga, AG; Muchave, GJ; Aranda, DAG; Afonso, JC; Ribeiro, ES; "CHARACTERIZATION OF SILICON-ALUMINUM-ZIRCONIUM OXIDE OBTAINED BY THE SOL-GEL PROCESS"; QUIMICA NOVA, 42 (5):513-521 (2019). 10.21577/0100-4042.20170364</p> <p>Citarea 14; Omri, K; Alonizan, N; "Effects of ZnO/Mn Concentration on the Micro-structure and Optical Properties of ZnO/Mn-TiO₂ Nano-composite for Applications in Photo-Catalysis"; JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, 29 (1) 203-212 (2019). 10.1007/s10904-018-0979-4</p> <p>Citarea 15; Masmali N.A., Osman Z., Arof A.K.; "Recent developments in zinc-based two-cation oxide spinels: From synthesis to applications"; Ceramics International (2020) DOI: 10.1016/j.ceramint.2020.09.249</p>	
4	<p>M. Elisa, C. Vasiliu, C. Grigorescu, B.A. Sava, A. Diaconu, H.J. Trodahl, M. Dalley; "Optical transmission and Raman spectroscopy of aluminophosphate glasses containing chromium and manganese ions"; Glass Technology: European Journal of Glass Science and Technology Part A 48 (5) 247-251 (2007).</p>	<p>Citarea 1; Abou-Baker, NH; Ouis, M; Abd-Eladl, M; "Appraisal of Agriglass in Promoting Maize Production Under Abiotic Stress Conditions"; SILICON, 10 (5) 1841-1849 (2018).</p>	1

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7	<p>Diaconu, A; Sava, B.A.; Ursu, L. D.; Mitiu, I.; Rosu, E.; Radu, D.; Dumitrescu, O.; Eftimie M.; "Study on the recycling of borate silicate vitreous waste with capitalization of heavy metals sludge"; GLASS - THE CHALLENGE FOR THE 21ST CENTURY, Advanced Materials Research 39-40 (2008).</p>	<p>Citarea 1; Aydin, A.A.; Aydin, A.; "Development of an immobilization process for heavy metal containing galvanic solid wastes by use of sodium silicate and sodium tetraborate"; Source of the Document Journal of Hazardous Materials 270, 35-44 (2014).</p> <p>Citarea 2; Dumitrescu, O.; Dima, V.; Eftimie, M.; Diaconu, A.; Ursu, L.D.; "Sticle realizate cu deșeuri vitreose și nămoluri cu nichel [Glasses obtained with vitreous wastes and sludges with nickel]"; Revista Romana de Materiale/ Romanian Journal of Materials 39 (3) 217-225 (2009).</p>	2
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	NUMĂR TOTAL CITĂRI		247

NCO, număr contracte de cercetare-dezvoltare-inovare obținute prin competiție în valoare minimă echivalentă cu 10000 Euro

Nr. crt.	Denumire proiect/Acrionim/ Numar contract/Finantator/Perioada	Valoare Proiect (euro)	Numele Directorului de proiect	NCO
1	New doped boro-phosphate vitreous materials, as nano-powders and nano-structured thin films, with high optical and magnetic properties, for photonics/MAGPHOGLASS/M-ERA.NET 7-081/2013/UE-UEFISCDI/2013-2015	250000	Sava Bogdan Alexandru	1
2	Compozite ceramice cu proprietati termomecanice superioare, pentru aplicatii in stomatologie/MATNANTECH 21/2004/MCT/2004-2006	200000	Sava Bogdan Alexandru	1
3	Ceramici ultradure pe baza de nitruri sintetizate si sinterizate in camp de microunde/MATNANTECH / MCT/2001-2004	100000	Sava Bogdan Alexandru	1
4	Cercetari privind obtinerea straturilor subtiri nanostructurate cu proprietati optice din precursori organometalici si monomeri organici prin copolimerizare/RELANSIN / 2001-2002	100000	Sava Bogdan Alexandru	1
5	Procedeu de fabricatie cu costuri reduse a pigmentilor pe baza de sulfuri si sulfoseleniuri de cadmiu si de zinc pentru obtinerea gamei de culori galben-portocaliu-rosu in industria sticlei/RELANSIN /2000-2001	100000	Sava Bogdan Alexandru	1
NCO TOTAL				5