

# Viorica Simon

## List of Publications by Year in descending order

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120  
papers

1,951  
citations

218677

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120  
docs citations

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times ranked

2311  
citing authors

#	ARTICLE	IF	CITATIONS
1	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</i> , 2009, 263, 56-66.	6.2	106
2	XPS study of protein adsorption onto nanocrystalline aluminosilicate microparticles. <i>Applied Surface Science</i> , 2011, 257, 2346-2352.	6.1	90
3	FTIR and XPS studies of protein adsorption onto functionalized bioactive glass. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2012, 1824, 873-881.	2.3	82
4	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 Communications</i> , 1997, 102, 341-346.	1.9	70
5	Structural characterization of phosphate glasses doped with silver. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 425-429.	3.1	59
6	Structural and magnetic properties of lead-bismuthate oxide glasses containing S-state paramagnetic ions. <i>Journal of Non-Crystalline Solids</i> , 2003, 331, 1-10.	3.1	57
7	Silver effect on the structure of SiO <sub>2</sub> -CaO-P <sub>2</sub> O <sub>5</sub> ternary system. <i>Materials Science and Engineering C</i> , 2012, 32, 178-183.	7.3	53
8	Silver release from hydroxyapatite self-assembling calcium—phosphate glasses. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 1751-1755.	3.1	47
9	Synthesis, characterisation and in vitro evaluation of sol—gel derived SiO <sub>2</sub> —P <sub>2</sub> O <sub>5</sub> —CaO—B <sub>2</sub> O <sub>3</sub> bioactive system. <i>Ceramics International</i> , 2014, 40, 9517-9524.	4.8	39
10	Novel selenium containing boro-phosphate glasses: Preparation and structural study. <i>Materials Science and Engineering C</i> , 2014, 39, 61-66.	7.3	38
11	XPS study on silica—bismuthate glasses and glass ceramics. <i>Solid State Communications</i> , 2007, 141, 42-47.	1.9	37
12	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 Communications</i> , 1998, 105, 339-344.	1.9	36
13	EPR and magnetic susceptibility investigations of some vanadate—lithium—borate glasses. <i>Journal of Alloys and Compounds</i> , 2001, 326, 124-127.	5.5	35
14	Structural and in vitro characterization of TiO <sub>2</sub> -CaO-P <sub>2</sub> O <sub>5</sub> bioglasses. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 2869-2874.	3.1	35
15	Bioactivity and protein attachment onto bioactive glasses containing silver nanoparticles. <i>Journal of Biomedical Materials Research - Part A</i> , 2012, 100A, 1179-1186.	4.0	34
16	Characterization of calcium phosphate powders originating from <i>Phyllacanthus imperialis</i> and <i>Trochidae Infundibulum concavus</i> marine shells. <i>Materials Science and Engineering C</i> , 2013, 33, 2569-2577.	7.3	34
17	The influence of local structure and surface morphology on the antibacterial activity of silver-containing calcium borosilicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2014, 404, 98-103.	3.1	34
18	XPS investigation of new solid forms of 5-fluorouracil with piperazine. <i>Journal of Molecular Structure</i> , 2018, 1165, 120-125.	3.6	34

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19	Spectroscopic and magnetic behavior of $x\text{Nd}_2\text{O}_3(1-x)(3\text{Bi}_2\text{O}_3\text{-PbO})$ glasses. Journal of Non-Crystalline Solids, 2004, 337, 62-67.	3.1	33
20	New solid state forms of antineoplastic 5-fluorouracil with anthelmintic piperazine. Journal of Molecular Structure, 2017, 1150, 37-43.	3.6	32
21	Local order changes induced in calcium-sodium-phosphate glasses by transition metals. Solid State Ionics, 2007, 178, 221-225.	2.7	30
22	Spark plasma sintered $\text{Al}_2\text{O}_3\text{-YSZ-TiO}_2$ composites: Processing, characterization and in vivo evaluation. Materials Science and Engineering C, 2014, 40, 16-23.	7.3	30
23	Bioactivity evolution of the surface functionalized bioactive glasses. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2015, 103, 261-272.	3.4	30
24	FTIR and EPR spectroscopic investigation of calcium-silicate glasses with iron and dysprosium. Journal of Molecular Structure, 2015, 1084, 23-27.	3.6	30
25	Atomic environment in sol-gel derived nanocrystalline hydroxyapatite. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2009, 165, 247-251.	3.5	29
26	Microscopic and spectroscopic investigation of bioactive glasses for antibiotic controlled release. Journal of Molecular Structure, 2013, 1040, 47-52.	3.6	29
27	Addressing the optimal silver content in bioactive glass systems in terms of BSA adsorption. Journal of Materials Chemistry B, 2014, 2, 5799-5808.	5.8	27
28	Titanium-hydroxyapatite porous structures for endosseous applications. Journal of Materials Science: Materials in Medicine, 2005, 16, 1165-1171.	3.6	25
29	XPS and Raman study of zinc containing silica microparticles loaded with insulin. Applied Surface Science, 2013, 280, 144-150.	6.1	24
30	Surface functionalisation of sol-gel derived aluminosilicates in simulated body fluids. Solid State Ionics, 2009, 180, 764-769.	2.7	23
31	The effect of synthesis route and magnesium addition on structure and bioactivity of sol-gel derived calcium-silicate glasses. Ceramics International, 2014, 40, 14741-14748.	4.8	23
32	EPR AND MAGNETIC SUSCEPTIBILITY STUDIES OF $\text{B}_2\text{O}_3\text{-SrO-Fe}_2\text{O}_3$ GLASSES. Modern Physics Letters B, 1999, 13, 801-808.	1.9	22
33	Initial characterization, dosimetric benchmark and performance validation of Dynamic Wave Arc. Radiation Oncology, 2016, 11, 63.	2.7	21
34	Iron doping effect on the electronic structure in yttrium aluminosilicate glasses. Journal of Non-Crystalline Solids, 2005, 351, 2365-2372.	3.1	20
35	The local structure and interactions between $\text{V}^{4+}$ ions in soda-phosphate glasses. Applied Magnetic Resonance, 1999, 16, 529-537.	1.2	19
36	Synthesis, structure, bioactivity and biocompatibility of melt-derived $\text{P}_2\text{O}_5\text{-CaO-B}_2\text{O}_3\text{-K}_2\text{O-MoO}_3$ glasses. Journal of Non-Crystalline Solids, 2016, 439, 67-73.	3.1	19

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37	Structural effect of cobalt ions added to a borophosphate-based glass system. Journal of Non-Crystalline Solids, 2018, 481, 562-567.	3.1	19
38	Short-range structure and in vitro behavior of ZnO-CaO-P2O5 bioglasses. Journal of Non-Crystalline Solids, 2012, 358, 2803-2809.	3.1	18
39	The anchoring of fibrinogen to a bioactive glass investigated by FT-IR spectroscopy. Vibrational Spectroscopy, 2012, 62, 172-179.	2.2	18
40	Gold nanoparticles developed in sol-gel derived apatite-bioactive glass composites. Journal of Materials Science: Materials in Medicine, 2012, 23, 1193-1201.	3.6	18
41	Surface Modification of Alumina/ Zirconia Ceramics Upon Different Fluoride-Based Treatments. International Journal of Applied Ceramic Technology, 2014, 11, 402-411.	2.1	18
42	Thermal effusivity investigations of solid materials by using the thermal-wave-resonator-cavity (TWRC) configuration. Theory and mathematical simulations. Laser Physics, 2009, 19, 1340-1344.	1.2	16
43	Synthesis and characterisation of a new composite aluminosilicate bioceramic. Journal of Non-Crystalline Solids, 2011, 357, 3791-3796.	3.1	16
44	Magnetic properties of $x\text{MnO} \cdot (1-x)[\text{Bi}_2\text{O}_3 \cdot \text{PbO}]$ glasses. Solid State Communications, 1996, 98, 651-653.	1.9	14
45	Structural and magnetic properties of $\text{MnO-B}_2\text{O}_3\text{-SrO}$ glasses. Journal of Materials Science, 1999, 34, 6063-6068.	3.7	14
46	PHOTOELECTRON SPECTROSCOPY ON IRON-CONTAINING $\text{CaO-SiO}_2\text{-P}_2\text{O}_5$ GLASS CERAMICS. Modern Physics Letters B, 2000, 14, 767-772.	1.9	14
47	Combined FPPE-PTR Calorimetry Involving TWRC Technique II. Experimental: Application to Thermal Effusivity Measurements of Solids. International Journal of Thermophysics, 2011, 32, 2092-2101.	2.1	14
48	Hydrogen peroxide versus water synthesis of bioglass-nanocrystalline hydroxyapatite composites. Journal of Materials Science, 2011, 46, 7393-7400.	3.7	13
49	Spectroscopic characterisation and in vitro behaviour of kaolinite polyvinyl alcohol nanocomposite. Applied Clay Science, 2013, 72, 147-154.	5.2	12
50	Structure and Dynamics of Spin-Labeled Insulin Entrapped in a Silica Matrix by the Sol-Gel Method. Biomacromolecules, 2013, 14, 2582-2592.	5.4	12
51	Development and in vitro assessment of bioactive glass/polymer nanostructured composites with silver. Journal of Composite Materials, 2014, 48, 63-70.	2.4	12
52	Effect of selenium addition on network connectivity in $\text{P}_2\text{O}_5\text{-CaO-MgO-Na}_2\text{O}$ glasses. Journal of Non-Crystalline Solids, 2018, 488, 10-13.	3.1	12
53	In vitro short-time stability of a bioactive glass-chitosan composite coating evaluated by using electrochemical methods. Electrochimica Acta, 2015, 182, 707-714.	5.2	11
54	Magnetic susceptibility studies on $\text{Bi}_2\text{O}_3\text{-PbO-As}_2\text{O}_3\text{-MnO}$ glasses. Materials Letters, 1999, 39, 42-45.	2.6	10

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55	Thermal characterisation of gallium-bismuthate oxide glasses. <i>Materials Letters</i> , 2004, 58, 3778-3781.	2.6	10
56	Structure and dissolution investigation of calcium-bismuth-borate glasses and vitroceramics containing silver. <i>Journal of Materials Science: Materials in Medicine</i> , 2007, 18, 507-512.	3.6	10
57	Treating patients with Dynamic Wave Arc: First clinical experience. <i>Radiotherapy and Oncology</i> , 2017, 122, 347-351.	0.6	10
58	Structural and magnetic investigations of the $x\text{CuO}(100-x)[70\text{TeO}_2\cdot 25\text{B}_2\text{O}_3\cdot 5\text{SrF}_2]$ glasses. <i>Applied Physics A: Materials Science and Processing</i> , 2001, 73, 481-484.	2.3	9
59	Structural investigation of $\text{Fe}_2\text{O}_3\text{-TeO}_2\text{-B}_2\text{O}_3\text{-SrO}$ glasses by EPR. <i>Journal of Materials Science Letters</i> , 2001, 20, 947-949.	0.5	9
60	ATOMIC ENVIRONMENT IN LEAD-BISMUTHATE GLASSES CONTAINING MANGANESE. <i>Modern Physics Letters B</i> , 2003, 17, 291-301.	1.9	9
61	Combined FPPEâ€“PTR Calorimetry Involving TWRC Technique. Theory and Mathematical Simulations. <i>International Journal of Thermophysics</i> , 2010, 31, 2275-2282.	2.1	9
62	Freeze-dried and spray-dried zinc-containing silica microparticles entrapping insulin. <i>Journal of Biomaterials Applications</i> , 2014, 28, 1190-1199.	2.4	9
63	The effects of PEG assisted synthesis and zinc addition on gamma irradiated bioactive glasses. <i>Composites Part B: Engineering</i> , 2014, 66, 83-88.	12.0	9
64	Synthesis and characterisation of nanostructured silica-powellite-HAP composites. <i>Journal of Materials Science</i> , 2015, 50, 577-586.	3.7	9
65	Composition, technology and provenance of Roman pottery from <i>Napoca</i> (Cluj-Napoca,) Tj ETQq1 1 0.784314 rgBT /Qverlock 10	0.6	9
66	Photopyroelectric Detection of Vegetable Oils' Adulteration. <i>Food Biophysics</i> , 2009, 4, 147-150.	3.0	8
67	Synthesis, characterisation and in vitro testing of macroporous zinc containing scaffolds obtained by solâ€“gel and sacrificial template methods. <i>Journal of Non-Crystalline Solids</i> , 2013, 373-374, 57-64.	3.1	8
68	Structure-composition correlation in niobium containing borophosphate glasses. <i>Journal of Non-Crystalline Solids</i> , 2020, 542, 120102.	3.1	8
69	Valence states of uranium and gamma irradiation defects in sodaphosphate glasses. <i>Journal of Materials Science Letters</i> , 1996, 15, 784-785.	0.5	7
70	SPECTROSCOPIC PROPERTIES OF $\text{B}_2\text{O}_3\text{-PbO-Nd}_2\text{O}_3$ GLASSES. <i>Modern Physics Letters B</i> , 1999, 13, 879-884	1.9	7
71	EPR and magnetic susceptibility studies on $\text{V}_2\text{O}_5\text{-P}_2\text{O}_5\text{-PbO}$ glasses. <i>Journal of Materials Science: Materials in Electronics</i> , 2000, 11, 401-404.	2.2	7
72	Short-range order changes induced by heat treatment in yttriumâ€“aluminosilicate glasses. <i>Physica B: Condensed Matter</i> , 2008, 403, 139-144.	2.7	7

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73	Photopyroelectric (PPE) calorimetry of composite materials. Journal of Thermal Analysis and Calorimetry, 2013, 111, 1129-1132.	3.6	7
74	Synthesis and characterization of composite SiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> -Fe <sub>2</sub> O <sub>3</sub> core-shell microspheres. Journal of Sol-Gel Science and Technology, 2020, 96, 395-404.	2.4	7
75	Magnetic properties of nickel-strontium-borate oxide glasses. Journal of Materials Science Letters, 1997, 16, 200-201.	0.5	6
76	IRON EFFECT ON DIELECTRIC PROPERTIES OF CALCIUM-SILICA-PHOSPHATE GLASSES. Modern Physics Letters B, 2002, 16, 677-683.	1.9	6
77	Homogeneous Ag <sub>2</sub> O-P <sub>2</sub> O <sub>5</sub> -CaO-GeO <sub>2</sub> glass formation, structural and in vitro studies. Journal of Alloys and Compounds, 2010, 491, 335-339.	5.5	6
78	<i>In vitro</i> evaluation of the effects of yttria-alumina-silica microspheres on human keratinocyte cells. Journal of Biomedical Materials Research - Part A, 2013, 101A, 472-477.	4.0	6
79	Thermoluminescence investigations on xY <sub>2</sub> O <sub>3</sub> (60-x)P <sub>2</sub> O <sub>5</sub> ·40SiO <sub>2</sub> vitroceramics. Applied Radiation and Isotopes, 2015, 98, 49-53.	1.5	6
80	Titania effect on the bioactivity of silicate bioactive glasses. Journal of Raman Spectroscopy, 2016, 47, 1102-1108.	2.5	6
81	Attachment and conformational changes of collagen on bioactive glass surface. Bio-Medical Materials and Engineering, 2016, 27, 63-74.	0.6	6
82	Gamma irradiation effect on bioactive glasses synthesized with polyethylene-glycol template. Ceramics International, 2016, 42, 1990-1997.	4.8	6
83	Network connectivity and dissolution properties of sodium calcium phosphate glasses. Journal of Molecular Structure, 2019, 1195, 364-368.	3.6	6
84	Histological findings in the Wistar rat cornea following UVB irradiation. Romanian Journal of Morphology and Embryology, 2013, 54, 247-52.	0.8	6
85	EPR AND PHOTOPYROELECTRIC INVESTIGATIONS OF Fe <sub>2</sub> O <sub>3</sub> -CaO-P <sub>2</sub> O <sub>5</sub> -SiO <sub>2</sub> GLASS AND GLASS-CERAMIC SYSTEMS. Modern Physics Letters B, 2001, 15, 921-928.	1.9	5
86	INFRARED SPECTROSCOPIC STUDIES ON AMORPHOUS AND CRYSTALLINE LANTHANUM ALUMINOBORATES. Modern Physics Letters B, 2002, 16, 291-298.	1.9	5
87	HEAT TREATMENT EFFECT ON CaO-P <sub>2</sub> O <sub>5</sub> -SiO <sub>2</sub> -Fe <sub>2</sub> O <sub>3</sub> GLASS-CERAMICS STRUCTURE. International Journal of Modern Physics B, 2004, 18, 2215-2221.	2.0	5
88	Interface processes between iron containing aluminosilicate systems and simulated body fluid enriched with protein. Journal of Materials Science: Materials in Medicine, 2010, 21, 1913-1920.	3.6	5
89	STRUCTURAL AND CORROSION PROPERTIES OF SODIUM-CALCIUM-PHOSPHATE GLASSES. International Journal of Modern Physics B, 2003, 17, 5849-5854.	2.0	4
90	ATOMIC ENVIRONMENT CHANGES INDUCED BY IRON ADDITION TO GALLIUM BISMUTHATE GLASSES. International Journal of Modern Physics B, 2004, 18, 45-52.	2.0	4

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91	Surface properties of collagen-functionalized aluminosilicate particles embedding iron and dysprosium designed for cancer therapy. Journal of Molecular Structure, 2021, 1236, 130341.	3.6	4
92	IRON OXIDATION STATES AND DISTRIBUTION IN THE 4Bi <sub>2</sub> O <sub>3</sub> ·PbO GLASS MATRIX. Modern Physics Letters B, 2002, 16, 41-46.	1.9	3
93	Structural Characterisation of Silver Containing Bismuth-Borate Glasses by X-Ray Scattering. International Journal of Modern Physics B, 2003, 17, 3857-3863.	2.0	3
94	TRANSITION METALS EFFECT ON THE STRUCTURE OF PYRAZINAMIDE COMPLEXES. International Journal of Modern Physics B, 2004, 18, 63-70.	2.0	3
95	INFLUENCE OF CaO/P <sub>2</sub> O <sub>5</sub> RATIO ON THE CORROSION BEHAVIOR OF POTASSIUM-LIME-PHOSPHATE GLASSES IN SIMULATED BIOLOGICAL MEDIA. Modern Physics Letters B, 2006, 20, 1685-1691.	1.9	3
96	The effect of gadolinium addition on the surface structure of Bi <sub>2</sub> O <sub>3</sub> ·GeO <sub>2</sub> glasses and vitroceramics. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 1139-1143.	1.8	3
97	Microscopic and spectroscopic investigation of an explanted opacified intraocular lens. Applied Surface Science, 2015, 325, 124-131.	6.1	3
98	Silica-based microspheres with aluminum-iron oxide shell for diagnosis and cancer treatment. Journal of Molecular Structure, 2021, 1246, 131149.	3.6	3
99	MAGNETIC BEHAVIOR OF LEAD-BISMUTATE GLASSES CONTAINING TRANSITION METAL ELEMENTS. Modern Physics Letters B, 2001, 15, 1231-1236.	1.9	2
100	STRUCTURAL INVESTIGATIONS ON CALCIUM-SILICA-PHOSPHATE GLASSES. Modern Physics Letters B, 2002, 16, 761-767.	1.9	2
101	THERMAL INVESTIGATION OF SiO <sub>2</sub> -Bi <sub>2</sub> O <sub>3</sub> HEAVY METAL GLASSES. International Journal of Modern Physics B, 2005, 19, 3293-3299.	2.0	2
102	Doping and calcination effect on nanostructured aluminosilicates processed by sol-gel route. EPJ Applied Physics, 2011, 55, 30401.	0.7	2
103	Co-Crystals of Etravirine by Mechanochemical Activation. Journal of Pharmaceutical Sciences, 2022, 111, 1178-1186.	3.3	2
104	Raman study of B <sub>2</sub> O <sub>3</sub> -PbO-Nd <sub>2</sub> O <sub>3</sub> glasses. Journal of Materials Science Letters, 1995, 14, 393-395.	0.5	2
105	A broad ferroelectric transition in superconducting Y <sub>1-x</sub> Gd <sub>x</sub> Ba <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> . Ferroelectrics, 1992, 128, 173-177.	0.6	1
106	THE INFLUENCE OF MELTING TEMPERATURE ON IRON ION DISTRIBUTION IN Bi <sub>2</sub> O <sub>3</sub> ·PbO·As <sub>2</sub> O <sub>3</sub> GLASS MATRIX STUDIED BY EPR. Modern Physics Letters B, 2000, 14, 785-790.	1.9	1
107	STRUCTURAL EFFECT OF THORIUM ON THE LOCAL ORDER IN A PHOSPHATE GLASS MATRIX. Modern Physics Letters B, 2000, 14, 473-477.	1.9	1
108	MAGNETIC AND ELECTRIC BEHAVIOUR OF SOME LEAD-BORATE GLASSES WITH MANGANESE IONS. International Journal of Modern Physics B, 2001, 15, 2359-2368.	2.0	1

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109	LOCAL ORDER AND THERMAL DIFFUSIVITY IN IRON CONTAINING LIME-PHOSPHO-SILICATE GLASS-CERAMICS. Modern Physics Letters B, 2002, 16, 621-629.	1.9	1
110	IRON INFLUENCE ON OPTICAL AND MAGNETIC PROPERTIES OF LEAD-BISMUTHATE GLASSES. Modern Physics Letters B, 2003, 17, 235-244.	1.9	1
111	Change in dielectric properties induced by iron addition to gallium-bismuthate glasses. Journal of Non-Crystalline Solids, 2004, 343, 48-53.	3.1	1
112	GLASS STABILITY EFFECT OF IRON OXIDE ADDED TO ALKALINE EARTH BORATE GLASSES. International Journal of Modern Physics B, 2007, 21, 731-736.	2.0	1
113	Spectroscopic studies on vitreous and polycrystalline heavy metal gallium-bismuthates. Journal of Non-Crystalline Solids, 2009, 355, 2451-2455.	3.1	1
114	Thermoluminescence properties of $30Y_2O_3 \cdot 30P_2O_5 \cdot 40SiO_2$ vitroceramics in mixed neutron-gamma fields. Applied Radiation and Isotopes, 2018, 135, 224-231.	1.5	1
115	Structural changes induced by long term storage of sodium phosphate glasses embedding uranium and thorium. Optical Materials, 2022, 124, 112022.	3.6	1
116	YTTRIUM EFFECT ON LOCAL STRUCTURE OF BISMUTH-BORATE GLASSES. Modern Physics Letters B, 2007, 21, 567-571.	1.9	0
117	Milling Effects on Hybrid Collagen / Inorganic Phase Composites. Materials Science Forum, 2011, 672, 129-132.	0.3	0
118	Adherence Properties of Acrylic Bone Cement to Alumina Ceramics Designed for Clinical Applications. Acta Physica Polonica A, 2014, 125, 603-605.	0.5	0
119	Heat treatment effect on nanostructured sol-gel derived lanthania doped with chromium. Journal of Non-Crystalline Solids, 2021, 555, 120624.	3.1	0
120	Synthesis and Preliminary Characterization of Modified 45s5 Bioglasses. Studia Universitatis Babeş-Bolyai Physica, 2020, 65, 19-25.	0.0	0