

Razvan Stefan

List of Publications by Year in descending order

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60
papers

1,306
citations

430874

18
h-index

361022

35
g-index

61
all docs

61
docs citations

61
times ranked

1415
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural investigations of copper doped B ₂ O ₃ -Bi ₂ O ₃ glasses with high bismuth oxide content. Journal of Non-Crystalline Solids, 2002, 303, 379-386.	3.1	213
2	Vibrational spectroscopy of highly iron doped B ₂ O ₃ -Bi ₂ O ₃ glass systems. Journal of Non-Crystalline Solids, 2003, 324, 109-117.	3.1	167
3	Mechanical and structural properties of phosphate glasses. Journal of Non-Crystalline Solids, 2001, 288, 8-17.	3.1	103
4	The effect of copper ions addition on structural and optical properties of zinc borate glasses. Journal of Non-Crystalline Solids, 2012, 358, 839-846.	3.1	67
5	IR and Raman Investigation of Some Poly(acrylic) Acid Gels in Aqueous and Neutralized State. Acta Physica Polonica A, 2015, 128, 128-135.	0.5	64
6	The Effect of the Housing System on the Welfare Quality of Dairy Cows. Italian Journal of Animal Science, 2014, 13, 2940.	1.9	43
7	Bioactive and biocompatible copper containing glass-ceramics with remarkable antibacterial properties and high cell viability designed for future in vivo trials. Biomaterials Science, 2016, 4, 1252-1265.	5.4	42
8	Structural modifications induced by addition of copper oxide to lead-phosphate glasses. Journal of Non-Crystalline Solids, 2012, 358, 3170-3174.	3.1	41
9	The study of the structure and bioactivity of the B ₂ O ₃ -CaO-Na ₂ O-CaO-P ₂ O ₅ system. Journal of Raman Spectroscopy, 2013, 44, 1187-1194.	3.1	35
10	XRD and EPR structural investigation of some zinc borate glasses doped with iron ions. Journal of Physics and Chemistry of Solids, 2012, 73, 221-226.	4.0	35
11	Ability of a montmorillonitic clay to interact with cationic and anionic dyes in aqueous solutions. Journal of Molecular Structure, 2018, 1154, 187-195.	3.6	28
12	The silver influence on the structure and antibacterial properties of the bioactive 10B ₂ O ₃ -30Na ₂ O-60P ₂ O ₅ glass. Journal of Non-Crystalline Solids, 2014, 402, 182-186.	3.1	25
13	An FTIR and ESR study of iron doped calcium borophosphate glass-ceramics. Journal of Molecular Structure, 2015, 1101, 170-175.	3.6	25
14	Influence of Sm ³⁺ :Ag codoping on structural and spectroscopic properties of lead tellurite glass ceramics. Ceramics International, 2015, 41, 2931-2939.	4.8	23
15	Novel bioactive glass-AuNP composites for biomedical applications. Materials Science and Engineering C, 2017, 76, 752-759.	7.3	20
16	Comparative FT-IR Prospecting for Cellulose in Stems of Some Fiber Plants: Flax, Velvet Leaf, Hemp and Jute. Applied Sciences (Switzerland), 2021, 11, 8570.	2.5	20
17	Effects of Er ³⁺ :Ag codoping on structural and spectroscopic properties of lead tellurite glass ceramics. Ceramics International, 2014, 40, 11001-11007.	4.8	19
18	Bioactivity evolution of calcium-free borophosphate glass with addition of titanium dioxide. Journal of Non-Crystalline Solids, 2015, 410, 112-117.	3.1	18

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19	Structural and spectroscopic effects of Ag ⁺ Eu ³⁺ codoping of TeO ₂ -PbO glass ceramics. <i>Journal of Materials Science</i> , 2014, 49, 4620-4628.	3.7	17
20	EPR OF Mn ²⁺ AND Fe ³⁺ IONS DOPED IN BISMUTH-BORATE GLASSES. <i>Modern Physics Letters B</i> , 2001, 15, 111-117.	1.9	15
21	Copper ions influence on lead-phosphate glass network. <i>Journal of Molecular Structure</i> , 2014, 1056-1057, 314-318.	3.6	15
22	Structural, spectroscopic and magnetic properties of Nd ³⁺ doped lead tellurite glass ceramics containing silver. <i>Journal of Alloys and Compounds</i> , 2017, 692, 934-940.	5.5	15
23	Highlighting of structural units of B ₂ O ₃ -Li ₂ O-P ₂ O ₅ system under heat treatment. <i>Materials Chemistry and Physics</i> , 2014, 143, 1271-1277.	4.0	14
24	Fourier transform infrared spectroscopy of DNA from <i>Borrelia burgdorferi sensu lato</i> and <i>Ixodes ricinus</i> ticks. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 110, 185-192.	3.9	12
25	Strain dependent UV degradation of <i>Escherichia coli</i> DNA monitored by Fourier transform infrared spectroscopy. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2014, 130, 140-145.	3.8	12
26	Effects of Gd ³⁺ :Ag co-doping on structural and magnetic properties of lead tellurite glass ceramics. <i>Ceramics International</i> , 2016, 42, 1169-1176.	4.8	12
27	On the structural features of iron-phosphate glasses by Raman and EPR: Observation of superparamagnetic behavior differences in HfO ₂ or CeO ₂ containing glasses. <i>Journal of Molecular Structure</i> , 2019, 1191, 59-65.	3.6	12
28	Spectroscopic study of some new cobalt-doped tellurite glass-ceramics. <i>Journal of Materials Science</i> , 2020, 55, 9962-9971.	3.7	12
29	UV degradation of genomic DNA from <i>in vitro</i> grown plant species: A Fourier transform infrared spectroscopic assessment. <i>Polymer Degradation and Stability</i> , 2014, 108, 35-40.	5.8	11
30	Pharmacokinetics Evaluation of Carbon Nanotubes Using FTIR Analysis and Histological Analysis. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 2865-2869.	0.9	11
31	Structural and spectroscopic properties of some neodymium-boro-germanate glasses and glass ceramics embedded with silver nanoparticles. <i>Ceramics International</i> , 2017, 43, 12232-12238.	4.8	11
32	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
33	<i>In vitro</i> biological activity comparison of some hydroxyapatite-based composite materials using simulated body fluid. <i>Open Chemistry</i> , 2013, 11, 1583-1598.	1.9	9
34	The impact of Ag and Cu nanoparticles on optical and magnetic properties of new Tb ₂ O ₃ -PbO-TeO ₂ glass ceramic system. <i>Journal of Alloys and Compounds</i> , 2019, 799, 442-449.	5.5	9
35	Screening for Changes on <i>Iris germanica</i> L. Rhizomes Following Inoculation with Arbuscular Mycorrhiza Using Fourier Transform Infrared Spectroscopy. <i>Agronomy</i> , 2019, 9, 815.	3.0	9
36	FT-IR Characterization of Pollen Biochemistry, Viability, and Germination Capacity in <i>Saintpaulia</i> H. Wendl. Genotypes. <i>Journal of Spectroscopy</i> , 2015, 2015, 1-7.	1.3	8

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37	Copper nanoparticles enhanced luminescence of Eu ³⁺ doped lead tellurite glass ceramics. <i>Journal of Non-Crystalline Solids</i> , 2019, 505, 9-17.	3.1	8
38	Effects of Copper Metallic Nanoparticles on Structural and Optical Properties of Antimony Phosphate Glasses Co-Doped with Samarium Ions. <i>Materials</i> , 2020, 13, 5040.	2.9	8
39	Structural properties of iron containing calcium-magnesium borophosphate glasses. <i>Journal of Molecular Structure</i> , 2014, 1071, 45-51.	3.6	7
40	Fluorophores advanced glycation end products (AGEs)-to-NADH ratio is predictor for diabetic chronic kidney and cardiovascular disease. <i>Journal of Diabetes and Its Complications</i> , 2015, 29, 893-897.	2.3	7
41	Structural investigation of V ₂ O ₅ –P ₂ O ₅ –K ₂ O glass system with antibacterial potential. <i>Bulletin of Materials Science</i> , 2016, 39, 697-702.	1.7	7
42	In Vivo Distribution of Poly(ethylene glycol) Functionalized Iron Oxide Nanoclusters: An Ultrastructural Study. <i>Nanomaterials</i> , 2021, 11, 2184.	4.1	7
43	The Role of Sequestrene 138 in Highbush Blueberry (<i>Vaccinium corymbosum</i> L.) Micropropagation. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2018, 53, 1487-1493.	1.0	6
44	Design, in vitro bioactivity and in vivo influence on oxidative stress and matrix metalloproteinases of bioglasses in experimental skin wound. <i>Journal of Trace Elements in Medicine and Biology</i> , 2021, 68, 126846.	3.0	6
45	XRD and IR Investigations of Some Commercial Polystyrene Samples Thermally Degraded. <i>Studia Universitatis Babeş-Bolyai Chimia</i> , 2018, 63, 63-70.	0.2	6
46	A spectroscopic study of the influence of CuO addition on the ZnO-TeO ₂ glass and glass ceramics. <i>Journal of Non-Crystalline Solids</i> , 2018, 498, 430-436.	3.1	5
47	Assessment of Genetic Relationships between <i>Streptocarpus x hybridus</i> V. Parents and F1 Progenies Using SRAP Markers and FT-IR Spectroscopy. <i>Plants</i> , 2020, 9, 160.	3.5	5
48	The Influence of UV Femtosecond Laser Pulses on Bacterial DNA Structure, as Proved by Fourier Transform Infrared (FT-IR) Spectroscopy. <i>ChemistrySelect</i> , 2021, 6, 6957-6972.	1.5	5
49	Investigations on Cationic Dye Degradation Using Iron-Doped Carbon Xerogel. <i>ChemEngineering</i> , 2019, 3, 61.	2.4	4
50	Structural Characterisation of Silver Containing Bismuth-Borate Glasses by X-Ray Scattering. <i>International Journal of Modern Physics B</i> , 2003, 17, 3857-3863.	2.0	3
51	Ambazone salt with p-aminobenzoic acid. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 120, 905-912.	3.6	3
52	The Influence of Storage Conditions on the Biochemical Composition and Morphology of <i>Dahlia</i> Tubers. <i>Notulae Botanicae Horti Agrobotanici Cluj-Napoca</i> , 2016, 44, 459-465.	1.1	3
53	The Effect of Therapeutic Horticulture on Depression and Kynurenine Pathways. <i>Notulae Botanicae Horti Agrobotanici Cluj-Napoca</i> , 2019, 47, 804-812.	1.1	3
54	In vivo fluorescence studies of whole blood after chitosan bio-functionalized gold nanorods administration. <i>Journal of Luminescence</i> , 2013, 143, 271-274.	3.1	2

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55	Identification of <i>Salmonella</i> Serovars before and after Ultraviolet Light Irradiation by Fourier Transform Infrared (FT-IR) Spectroscopy and Chemometrics. <i>Analytical Letters</i> , 2021, 54, 150-172.	1.8	2
56	A novel therapeutic phosphate-based glass improves full-thickness wound healing in a rat model. <i>Biotechnology Journal</i> , 2021, 16, e2100031.	3.5	2
57	Synthesis and Structural Characterization of CaO-P ₂ O ₅ -CaF ₂ :CuO Glasses with Antitumoral Effect on Skin Cancer Cells. <i>Materials</i> , 2022, 15, 1526.	2.9	1
58	IR and Fluorescence Investigation of Some PEG-Water Systems. <i>Materials Today: Proceedings</i> , 2018, 5, 15923-15928.	1.8	0
59	Characterization of the Structural Properties of Zinc Phosphate Glass Ceramics Doped with Manganese Ions Following Thermal Treatment. <i>Analytical Letters</i> , 2019, 52, 37-44.	1.8	0
60	Characterization and Evaluation of Natural Bearing and Iron-Enriched Montmorillonitic Clay as Catalysts for Wet Oxidation of Dye-Containing Wastewaters. <i>Catalysts</i> , 2022, 12, 652.	3.5	0