

M S Gaafar

List of Publications by Year in descending order

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44
papers

1,331
citations

361413

20
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361022

35
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docs citations

45
times ranked

866
citing authors

#	ARTICLE	IF	CITATIONS
1	Elastic properties and structural studies on some zinc-borate glasses derived from ultrasonic, FT-IR and X-ray techniques. <i>Journal of Alloys and Compounds</i> , 2009, 475, 535-542.	5.5	134
2	Mechanical and structural studies on sodium borosilicate glasses doped with Er ₂ O ₃ using ultrasonic velocity and FTIR spectroscopy. <i>Physica B: Condensed Matter</i> , 2007, 388, 294-302.	2.7	124
3	Physical and structural properties of some bismuth borate glasses. <i>Materials Chemistry and Physics</i> , 2009, 115, 280-286.	4.0	112
4	Ultrasonic studies on network structure of ternary TeO ₂ -WO ₃ -K ₂ O glass system. <i>Physica B: Condensed Matter</i> , 2004, 348, 46-55.	2.7	79
5	Structural influence of PbO by means of FTIR and acoustics on calcium alumino-borosilicate glass system. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 1089-1095.	3.1	74
6	Structural studies and mechanical properties of some borate glasses doped with different alkali and cobalt oxides. <i>Current Applied Physics</i> , 2013, 13, 152-158.	2.4	67
7	Novel laser-assisted method for synthesis of SnO ₂ /MWCNTs nanocomposite for water treatment from Cu (II). <i>Diamond and Related Materials</i> , 2021, 113, 108287.	3.9	55
8	Judd-Ofelt analysis of spectroscopic properties of Er ³⁺ doped TeO ₂ -BaO-ZnO glasses. <i>Journal of Alloys and Compounds</i> , 2017, 723, 1070-1078.	5.5	48
9	Ultrasonic study on some borosilicate glasses doped with different transition metal oxides. <i>Solid State Communications</i> , 2007, 144, 478-483.	1.9	47
10	Structural studies of some phospho-borate glasses using ultrasonic pulse-echo technique, DSC and IR spectroscopy. <i>Physica B: Condensed Matter</i> , 2009, 404, 1668-1673.	2.7	45
11	Structural and elastic properties of eutectic Sn-Cu lead-free solder alloy containing small amount of Ag and In. <i>Journal of Alloys and Compounds</i> , 2011, 509, 7238-7246.	5.5	42
12	Ultrasonic studies on alkali borate tungstate glasses. <i>Journal of Physics and Chemistry of Solids</i> , 2009, 70, 173-179.	4.0	38
13	Structural investigation and simulation of acoustic properties of some tellurite glasses using artificial intelligence technique. <i>Journal of Alloys and Compounds</i> , 2011, 509, 3566-3575.	5.5	35
14	Polymer nanocomposites part 1. <i>Journal of Thermoplastic Composite Materials</i> , 2015, 28, 1343-1358.	4.2	31
15	Ultrasonic relaxation in Zinc-Borate glasses. <i>Current Applied Physics</i> , 2012, 12, 589-596.	2.4	30
16	Role of Neodymium on Some Acoustic and Physical Properties of Bi ₂ O ₃ - B ₂ O ₃ - SrO Glasses. <i>Journal of Materials Research and Technology</i> , 2020, 9, 7252-7261.	5.8	30
17	Elastic and structural properties of vanadium-lithium-borate glasses. <i>Philosophical Magazine</i> , 2008, 88, 1705-1722.	1.6	26
18	Ultrasonic and FT-IR studies on Bi ₂ O ₃ -Er ₂ O ₃ -PbO glasses. <i>Philosophical Magazine</i> , 2009, 89, 2213-2224.	1.6	26

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19	Structural investigations on some cadmium-borotellurate glasses using ultrasonic, FT-IR and X-ray techniques. <i>Journal of Alloys and Compounds</i> , 2014, 616, 625-632.	5.5	25
20	High UV-shielding Performance of Zinc Oxide/High-Density Polyethylene Nanocomposites. <i>Spectroscopy Letters</i> , 2015, 48, 646-652.	1.0	23
21	Structural Analysis of Some Alkali Diborate Glasses. <i>Acta Physica Polonica A</i> , 2009, 116, 211-216.	0.5	19
22	Compatibility studies on some rubber blend systems by ultrasonic techniques. <i>Materials Chemistry and Physics</i> , 2002, 74, 23-32.	4.0	18
23	Role of dysprosium on some acoustic and physical properties of PbO-B ₂ O ₃ -SiO ₂ glasses. <i>Results in Physics</i> , 2021, 22, 103944.	4.1	18
24	Effect of Doping by Different Transition Metals on the Acoustical Properties of Alkali Borate Glasses. <i>Acta Physica Polonica A</i> , 2009, 115, 671-678.	0.5	18
25	The spectroscopic and elastic properties of borosilicate glasses doped with NdF ₃ . <i>Journal of Non-Crystalline Solids</i> , 2018, 490, 22-30.	3.1	17
26	Elastic properties of quaternary TeO ₂ -ZnO-Nb ₂ O ₅ -Gd ₂ O ₃ glasses. <i>Ceramics International</i> , 2015, 41, 9862-9866.	4.8	16
27	An ultrasonic study on ternary xPbO-(45-x)CuO-55B ₂ O ₃ glasses. <i>Ceramics International</i> , 2021, 47, 27351-27360.	4.8	15
28	Study of rigidity of semiconducting vanadate glasses and its importance in use of coatings. <i>Bulletin of Materials Science</i> , 2014, 37, 661-667.	1.7	14
29	Study the influence of oxygen-deficient ($\delta = 0.135$) in SrFeO _{3-δ} nanoparticles perovskite on structural, electrical and magnetic properties. <i>Philosophical Magazine</i> , 2021, 101, 710-728.	1.6	12
30	Structural investigation and interpretation of some alkali lead borate glasses as radiation shielding materials. <i>Journal of the Australian Ceramic Society</i> , 2019, 55, 865-872.	1.9	11
31	Dosimetric impact of some gamma radiation-induced polymeric materials incorporated silicate using thermoluminescence and ultrasonic techniques. <i>Silicon</i> , 2022, 14, 4391-4400.	3.3	11
32	Effect of different types of carbon black on the mechanical and acoustic properties of ethylene-propylene diene rubber. <i>Journal of Applied Polymer Science</i> , 2010, 117, 1502-1508.	2.6	8
33	Simulation of acoustic properties of some tellurite glasses. <i>Ceramics International</i> , 2014, 40, 7389-7394.	4.8	8
34	Acoustic relaxation of some lithium borate tungstate glasses at low temperatures. <i>Journal of Alloys and Compounds</i> , 2016, 657, 506-514.	5.5	8
35	Role of Sm ³⁺ ions on structural, optical and radiation shielding properties of lead borosilicate glasses. <i>Journal of Materials Research and Technology</i> , 2021, 13, 1032-1044.	5.8	8
36	Ultrasonic relaxation of some CdO boro-tellurate glasses. <i>Canadian Journal of Physics</i> , 2016, 94, 1008-1016.	1.1	6

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37	Influence of samarium on some acoustical, physical and radiation shielding characteristics of Bi ₂ O ₃ -ZnO-PbO glasses. Journal of Materials Science: Materials in Electronics, 2020, 31, 21502-21514.	2.2	6
38	Prediction of the Judd-Ofelt Parameters of Dy ³⁺ -Doped Lead Borosilicate Using Artificial Neural Network. Electronics (Switzerland), 2022, 11, 1045.	3.1	6
39	Elastic and spectroscopic properties of 0.7TeO ₂ -0.1ZnO-0.1NaF-(0.1-x) WO ₃ -xNd ₂ O ₃ tellurite glasses. Indian Journal of Physics, 2020, 94, 1633-1641.	1.8	5
40	Ultrasonic waves, mechanical properties and radiation shielding competence of Er ³⁺ doped lead borate glasses: experimental and theoretical investigations. Journal of the Australian Ceramic Society, 2021, 57, 1163-1176.	1.9	5
41	Optical properties and laser prediction of strontium bismuth borate glasses doped with neodymium ions. Physica Scripta, 2021, 96, 105804.	2.5	5
42	Gamma ray interactions with samarium doped strontium phosphate glasses. Journal of Materials Science: Materials in Electronics, 2018, 29, 20907-20913.	2.2	4
43	Acoustic relaxation of some lead niobium tellurite glasses. Bulletin of Materials Science, 2015, 38, 119-128.	1.7	2
44	Structural Investigation of Semi Crystalline LDPE Nano-polymer. Aljouf University Medical Journal, 0, , 24-29.	0.1	0