

Mohamed A Marzouk

List of Publications by Citations

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papers

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15
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27
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79
ext. papers

1,181
ext. citations

3
avg, IF

5.05
L-index

#	Paper	IF	Citations
77	Gamma rays interaction with bismuth borate glasses doped by transition metal ions. <i>Journal of Materials Science</i> , 2011 , 46, 5140-5152	4.3	77
76	Comparative spectral and shielding studies of binary borate glasses with the heavy metal oxides SrO, CdO, BaO, PbO or Bi ₂ O ₃ before and after gamma irradiation. <i>Journal of Non-Crystalline Solids</i> , 2014 , 387, 155-160	3.9	73
75	UV/Visible and infrared absorption spectra of gamma irradiated V ₂ O ₅ -doped in sodium phosphate, lead phosphate, zinc phosphate glasses: A comparative study. <i>Journal of Non-Crystalline Solids</i> , 2011 , 357, 1027-1036	3.9	73
74	Optical characterization of some rare earth ions doped bismuth borate glasses and effect of gamma irradiation. <i>Journal of Molecular Structure</i> , 2012 , 1019, 80-90	3.4	52
73	Ultraviolet, visible, ESR, and infrared spectroscopic studies of CeO ₂ -doped lithium phosphate glasses and effect of gamma irradiation. <i>Journal of Molecular Structure</i> , 2011 , 997, 94-102	3.4	43
72	Ultraviolet and infrared absorption spectra of Cr ₂ O ₃ doped-sodium metaphosphate, lead metaphosphate and zinc metaphosphate glasses and effects of gamma irradiation: a comparative study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013 , 114, 658-67	4.4	42
71	Photoluminescence and semiconducting behavior of Fe, Co, Ni and Cu implanted in heavy metal oxide glasses. <i>Journal of Materials Research and Technology</i> , 2016 , 5, 226-233	5.5	34
70	The Effects of Bi ₂ O ₃ on Optical, FTIR and Thermal Properties of SrO-B ₂ O ₃ Glasses. <i>Silicon</i> , 2016 , 8, 123-131	3.1	29
69	Photoluminescence and spectral performance of manganese ions in zinc phosphate and barium phosphate host glasses. <i>Journal of Non-Crystalline Solids</i> , 2017 , 458, 1-14	3.9	29
68	Optical, structural and thermal properties of sodium metaphosphate glasses containing BiO with interactions of gamma rays. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017 , 171, 454-460	4.4	26
67	Spectroscopic Studies and Luminescence Spectra of Dy ₂ O ₃ Doped Lead Phosphate Glasses. <i>Silicon</i> , 2012 , 4, 221-227	2.4	23
66	Photoluminescence and spectroscopic dependence of fluorophosphate glasses on samarium ions concentration and the induced defects by gamma irradiation. <i>Journal of Luminescence</i> , 2015 , 166, 295-303	3.8	21
65	Bismuth silicate glass as host media for some selected rare-earth ions and effects of gamma irradiation. <i>Philosophical Magazine</i> , 2013 , 93, 2465-2484	1.6	17
64	Optical and FT Infrared Absorption Spectra of 3d Transition Metal Ions Doped in NaF-CaF ₂ -B ₂ O ₃ Glass and Effects of Gamma Irradiation. <i>Journal of Solid State Physics</i> , 2014 , 2014, 1-8		17
63	Optical and crystallization studies of titanium dioxide doped sodium and potassium silicate glasses. <i>Journal of Molecular Structure</i> , 2016 , 1121, 54-59	3.4	17
62	Effect of P ₂ O ₅ and MnO ₂ on crystallization of magnetic glass ceramics. <i>Journal of Advanced Research</i> , 2014 , 5, 543-50	13	15
61	Optical stability of 3d transition metal ions doped-cadmium borate glasses towards β rays interaction. <i>Indian Journal of Physics</i> , 2016 , 90, 781-791	1.4	14

60	Optical and structural properties of WO ₃ -doped silicophosphate glasses for gamma-ray applications. <i>Journal of Molecular Structure</i> , 2014 , 1056-1057, 227-232	3.4	14
59	Magnetic glass ceramics for sustained 5-fluorouracil delivery: characterization and evaluation of drug release kinetics. <i>Materials Science and Engineering C</i> , 2014 , 44, 293-309	8.3	14
58	Spectroscopic properties of gamma irradiated TiO ₂ doped lithium phosphate glasses. <i>Indian Journal of Physics</i> , 2013 , 87, 39-47	1.4	14
57	Impact effects of gamma irradiation on the optical and FT infrared absorption spectra of some Nd ³⁺ -doped soda lime phosphate glasses. <i>Journal of Molecular Structure</i> , 2018 , 1157, 341-347	3.4	13
56	Investigation of ZnO-P ₂ O ₅ Glasses Containing Variable Bi ₂ O ₃ Contents Through Combined Optical, Structural, Crystallization Analysis and Interactions with Gamma Rays. <i>Silicon</i> , 2018 , 10, 615-625	2.4	13
55	Optical Properties and Effect of Gamma Irradiation on Bismuth Silicate Glasses Containing SrO, BaO or PbO. <i>Silicon</i> , 2013 , 5, 283-295	2.4	13
54	UV-visible, infrared absorption spectra of undoped and TiO ₂ -doped lead phosphate glasses and the effect of gamma irradiation. <i>Radiation Effects and Defects in Solids</i> , 2012 , 167, 256-267	0.9	13
53	Magnetic properties of nanoparticles glass-ceramic rich with copper ions. <i>Journal of Non-Crystalline Solids</i> , 2011 , 357, 3888-3896	3.9	13
52	In Vitro Bioactivity Behavior of Some Borophosphate Glasses Containing Dopant of ZnO, CuO or SrO Together with their Glass-Ceramic Derivatives and their Antimicrobial Activity. <i>Silicon</i> , 2019 , 11, 197-208	2.1	13
51	Correlation between luminescence and crystallization characteristics of Dy ³⁺ doped P ₂ O ₅ BaOBeO ₂ glasses for white LED applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 13101-13111	2.1	12
50	Optical, FT infrared and photoluminescence spectra of CeO ₂ doped Na ₂ O-ZnO-B ₂ O ₃ host glass and effects of gamma irradiation. <i>Journal of Non-Crystalline Solids</i> , 2018 , 485, 14-23	3.9	12
49	Structure-property correlations in the SiO ₂ -B ₂ O ₃ -Bi ₂ O ₃ glasses. <i>Journal of Materials Science: Materials in Electronics</i> , 2012 , 23, 1022-1030	2.1	12
48	Crystallization and photoluminescent properties of Eu, Gd, Sm, Nd co-doped SrAl ₂ B ₂ O ₇ nanocrystals phosphors prepared by glass-ceramic technique. <i>Journal of Luminescence</i> , 2019 , 205, 248-257	3.8	12
47	Structural Characteristics and Electrical Conductivity of Vanadium-doped lithium Ultraphosphate Glasses. <i>Silicon</i> , 2017 , 9, 403-410	2.4	11
46	Comparative optical, FTIR and photoluminescence spectral analysis of copper ions in BaO-B ₂ O ₃ , SrO-B ₂ O ₃ or Bi ₂ O ₃ -B ₂ O ₃ glasses and impact of gamma irradiation. <i>Journal of Luminescence</i> , 2020 , 223, 117242	3.8	11
45	Gamma irradiation and crystallization effects on the photoluminescence properties of soda lime fluorophosphates host glass activated with Ce ⁴⁺ , Dy ³⁺ or Pr ³⁺ ions. <i>Radiation Physics and Chemistry</i> , 2020 , 174, 108893	2.5	11
44	Influence of vanadium addition on the optical and photoluminescence properties of borate glasses and their glass-ceramic derivatives. <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	11
43	Sol-gel synthesis, paramagnetism, photoluminescence and optical properties of Gd-doped and Bi ³⁺ -codoped hybrid organo-silica glasses. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 2363-2373	2.1	11

42	Study on the reducing effect of β irradiation on Sm ³⁺ doped LiAl fluorophosphate glasses through optical, structural and luminescence analysis. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 1399-1411	2.1	11
41	UV-visible and infrared absorption spectra of Bi ₂ O ₃ in lithium phosphate glasses and effect of gamma irradiation. <i>Applied Physics A: Materials Science and Processing</i> , 2014 , 115, 903-912	2.6	10
40	Spectral properties and shielding behavior of gamma irradiated MoO ₃ -doped silicophosphate glasses. <i>Physica B: Condensed Matter</i> , 2013 , 429, 57-62	2.8	9
39	Preparation and characterization of nanostructured nickel oxide and its influence on the optical properties of sodium zinc borate glasses. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 15480-15487	2.1	9
38	Glass Former Effects on Photoluminescence and Optical Properties of Some Heavy Metal Oxide Glasses Doped with Transition Metal Ions. <i>Journal of Applied Spectroscopy</i> , 2017 , 84, 162-169	0.7	8
37	Bifunctional ferromagnetic Eu-Gd-Bi-codoped hybrid organo-silica red emitting phosphors synthesized by a modified Pechini sol-gel method. <i>Materials Chemistry and Physics</i> , 2017 , 194, 198-205	4.4	8
36	Luminescence efficiency growth in wide band gap semiconducting Bi ₂ O ₃ doped Cd _{0.4} Pb _{0.1} B _{0.5} glasses and effect of β irradiation. <i>Journal of Molecular Structure</i> , 2014 , 1076, 576-582	3.4	8
35	Preparation and characterization of mica glass-ceramics as hydrogen storage materials. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 6829-6839	6.7	7
34	Collective Optical, FTIR, and Photoluminescence Spectra of CeO ₂ and/or Sm ₂ O ₃ -Doped Na ₂ O-ZnO-B ₂ O ₅ Glasses. <i>International Journal of Optics</i> , 2019 , 2019, 1-11	0.9	7
33	Optical band gap and structural study on GeO ₂ - and Y ₂ O ₃ -doped barium aluminoborate glasses. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	7
32	Optical and FTIR Absorption Spectra of CeO ₂ Doped Cadmium Borate Glasses and Effects of Gamma Irradiation. <i>Silicon</i> , 2017 , 9, 105-110	2.4	6
31	Gamma Irradiation Effect on Structural and Spectral Properties of CeO ₂ , Nd ₂ O ₃ , Gd ₂ O ₃ or Dy ₂ O ₃ Doped Strontium Borate Glass. <i>Silicon</i> , 2018 , 10, 29-37	2.4	6
30	Crystallization and spectroscopic characterizations of binary SrO-B ₂ O ₃ glasses doped with LiF, NaF, CaF ₂ , or TiO ₂ . <i>Journal of the Australian Ceramic Society</i> , 2019 , 55, 1039-1049	1.5	5
29	Effect of MoO ₃ , MnO ₂ or mixed dopants on the spectral properties and crystallization behavior of sodium phosphate glasses containing either MgO or MgF ₂ . <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	5
28	Integration Between Optical and Structural Behavior of Heavy Metal Oxide Glasses Doped with Multiple Glass Formers. <i>Silicon</i> , 2018 , 10, 21-28	2.4	5
27	In vitro bioactivity behavior of modified multicomponent borate glasses containing dopants of Ag ₂ O, CuO, CeO ₂ or V ₂ O ₅ . <i>Applied Physics A: Materials Science and Processing</i> , 2018 , 124, 1	2.6	5
26	Photoluminescence behavior of MO ₃ -B ₂ O ₃ -CeO ₂ -Bi ₂ O ₃ (M = Mo or W) glasses and their counterparts nano-glass-ceramics. <i>Ceramics International</i> , 2018 , 44, 21800-21809	5.1	5
25	In vitro evaluation of some types of ferrimagnetic glass ceramics. <i>International Journal of Biomaterials</i> , 2014 , 2014, 415854	3.2	5

24	Luminescent, semiconducting, thermal, and structural performance of Ho ³⁺ -doped lithium borate glasses with CaF ₂ or MgF ₂ . <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	5
23	Induced defects by gamma irradiation doses on the structure and optical behavior of undoped and TiO ₂ -, Cr ₂ O ₃ -, or MnO-doped heavy metal borate glasses. <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	4
22	In vitro bioactivity of silicophosphate glasses doped with ZnO, SrO or CuO. <i>Journal of Theoretical and Applied Physics</i> , 2020 , 14, 159-169	1.4	4
21	Optical characterization of heavy metal non-conventional binary PbO-ZnO glasses. <i>Applied Physics A: Materials Science and Processing</i> , 2014 , 116, 359-364	2.6	4
20	Photoluminescence of sol-gel synthesized transparent amorphous semiconducting La- and Sm-codoped organo-silicate hybrid material. <i>Journal of Materials Science: Materials in Electronics</i> , 2012 , 23, 2293-2300	2.1	4
19	Structure, optical and ferromagnetic properties of Zn _{1-x} Mn _x CryO nanoparticles diluted magnetic semiconductors synthesized by citrate sol-gel method. <i>Applied Physics A: Materials Science and Processing</i> , 2021 , 127, 1	2.6	4
18	Structure characterization and photoluminescence of sol-gel synthesized Ag-Dy-codoped silica phosphor. <i>Journal of Non-Crystalline Solids</i> , 2019 , 505, 292-300	3.9	4
17	Optical, FTIR and ESR Spectral Investigations of Tungsten Ions in Barium Phosphate Host Glass and Effects of Gamma Irradiation. <i>Silicon</i> , 2018 , 10, 959-965	2.4	4
16	Development and characterization of magnetic glass-ceramic: Correlation between phosphate and borate matrices and 5-fluorouracil delivery. <i>Journal of Drug Delivery Science and Technology</i> , 2017 , 38, 107-115	4.5	3
15	Spectroscopic Studies on Nano-Single Crystal BiVO ₄ Glass Ceramic as Dye Degradation for Wastewater Purification. <i>Silicon</i> , 2018 , 10, 509-517	2.4	3
14	Variable photoluminescence and magnetic behaviors of Mn-Ho-codoped silicate glasses synthesized by sol-gel processing. <i>Journal of Luminescence</i> , 2019 , 216, 116743	3.8	3
13	Efficiency of decolorizing agents in the production of colorless commercial glasses from municipal glass cullet wastes. <i>Glass Physics and Chemistry</i> , 2010 , 36, 190-198	0.7	3
12	Reddish orange phosphorescence of some types of zinc borosilicate glasses activated with Mn ²⁺ and/or Sm ³⁺ . <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 18234-18245	2.1	1
11	Bioactivity behavior of Ag ₂ O or CuO doped in glass systems of Na ₂ O-CaF ₂ -B ₂ O ₅ and Na ₂ O-CaO-B ₂ O ₅ and their glass-ceramic derivatives assessed by FTIR, X-ray diffraction and SEM measurements. <i>SN Applied Sciences</i> , 2019 , 1, 1	1.8	1
10	Antimicrobial activity and FTIR spectral properties of some phosphate glasses and glass-ceramics from the system P ₂ O ₅ -NaF-CaF ₂ and effects of dopants. <i>SN Applied Sciences</i> , 2019 , 1, 1	1.8	1
9	Heavy metal oxide glass responses for white light emission. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 14502-14511	2.1	1
8	Tunable blue and green emissions of sol-gel synthesized transparent nano-willemite codoped with nano-pyroxmangite and dysprosium. <i>Nano Structures Nano Objects</i> , 2021 , 26, 100685	5.6	1
7	Investigation of photoluminescence and spectroscopic properties of Sm ³⁺ -doped heavy phosphate glasses before and after gamma irradiation. <i>Applied Physics A: Materials Science and Processing</i> , 2021 , 127, 1	2.6	1

- 6 Photoluminescence, optical and structural properties of Pr³⁺-doped fluorophosphate glasses and their induced defects by gamma irradiation. *Journal of Materials Science: Materials in Electronics*, **2018**, 29, 10561-10572 2.1 0
- 5 Spectral and Luminescence Properties of Manganese-Ion-Doped Binary Lithium Fluoride-Phosphate (50 LiF₈₀ P₂₀O₅) Glasses: Impact of Gamma Irradiation. *Journal of Electronic Materials*, 1 1.9 0
- 4 Photoluminescence behavior of nano-structured sol-gel prepared zinc oxide activated with manganese and/or chromium ions. *Journal of Materials Science: Materials in Electronics*, **2021**, 32, 15491-15497 2.1 0
- 3 Gamma Irradiation Shielding Responses of Zinc Cadmium Phosphate Glasses Co-Doped with 3d Transition Metal Ions Assessed Through FTIR and Spectral Analysis. *Journal of Electronic Materials*, 1 1.9 0
- 2 Comparative Evaluation of Vanadium Ions in Na₂O-CaO-P₂O₅ and Na₂O-CaF₂-P₂O₅ Glasses by Spectroscopic Analysis and Effects of Gamma-Rays Interaction. *Silicon*, **2019**, 11, 15-23 2.4
- 1 Crystallization effects on the photoluminescence efficiency of SrO-BO glass activated by W, Eu, Dy or Pr ions.. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2022**, 274, 121079 4.4