Aly Abouhaswa

List of Publications by Year
in descending order

61	2,075	185998 28	243296 44
papers	citations	h-index	g-index

61	61	61	633
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structure, optical, gamma-ray and neutron shielding properties of NiO doped B2O3â€“BaCO3â€“Li2O3 glass systems. Ceramics International, 2020, 46, 1711-1721.	2.3	117
2	Comprehensive study on the structural, optical, physical and gamma photon shielding features of B2O3-Bi2O3-PbO-TiO2 glasses using WinXCOM and Geant4 code. Journal of Molecular Structure, 2019, 1197, 656-665.	1.8	114
3	Effect of chromium oxide on the physical, optical, and radiation shielding properties of lead sodium borate glasses. Journal of Non-Crystalline Solids, 2020, 544, 120171.	1.5	108
4	ZnO-B2O3-PbO glasses: Synthesis and radiation shielding characterization. Physica B: Condensed Matter, 2018, 548, 20-26.	1.3	92
5	Structural, UV and shielding properties of ZBPC glasses. Journal of Non-Crystalline Solids, 2019, 509, 99-105.	1.5	89
6	Bi2O3 effect on physical, optical, structural and radiation safety characteristics of B2O3Na2O-ZnO CaO glass system. Journal of Non-Crystalline Solids, 2020, 535, 119993.	1.5	76
7	Photon and electron attenuation parameters of phosphate and borate bioactive glasses by using Geant4 simulations. Ceramics International, 2020, 46, 24435-24442.	2.3	74
8	B2O3â€“BaCO3â€“Li2O3 glass system doped with Co3O4: Structure, optical, and radiation shielding properties. Physica B: Condensed Matter, 2020, 576, 411717.	1.3	69
9	Optical and nuclear radiation shielding properties of zinc borate glasses doped with lanthanum oxide. Journal of Non-Crystalline Solids, 2020, 543, 120151.	1.5	68
10	Structural, optical, and electrical characterization of borate glasses doped with SnO2. Journal of Non-Crystalline Solids, 2018, 494, 59-65.	1.5	65
11	Influence of ZrO2 on gamma shielding properties of lead borate glasses. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	1.1	64
12	Physical, structural, optical, and radiation shielding properties of B2O3- 20Bi2O3- 20Na2O2- Sb2O3 glasses: Role of Sb2O3. Journal of Non-Crystalline Solids, 2020, 543, 120130.	1.5	64
13	A novel B2O3-Na2O-BaO-HgO glass system: Synthesis, physical, optical and nuclear shielding features. Ceramics International, 2020, 46, 16166-16177.	2.3	64
14	Synthesis, physical, structural and shielding properties of newly developed B2O3â€“ZnOâ€“PbOâ€“Fe2O3 glasses using Geant4 code and WinXCOM program. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	1.1	59
15	Synthesis, structure, optical and gamma radiation shielding properties of B2O3-PbO2-Bi2O3 glasses. Composites Part B: Engineering, 2019, 172, 218-225.	5.9	59
16	Synthesis, physical, optical, mechanical, and radiation attenuation properties of TiO2â€“Na2Oâ€“Bi2O3â€“B2O3 glasses. Ceramics International, 2021, 47, 185-204.	2.3	55
17	Responsibility of Bi2O3 Content in Photon, Alpha, Proton, Fast and Thermal Neutron Shielding Capacity and Elastic Moduli of ZnO/B2O3/Bi2O3 Glasses. Journal of Inorganic and Organometallic Polymers and Materials, 2021, 31, 3505-3524.	1.9	53
18	Direct influence of mercury oxide on structural, optical and radiation shielding properties of a new borate glass system. Ceramics International, 2020, 46, 17978-17986.	2.3	51

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19	Tailoring the optical and dielectric properties of PVC/CuO nanocomposites. Polymer Bulletin, 2020, 77, 6005-6016.	1.7	48
20	Optical, structural and nuclear radiation security properties of newly fabricated V2O5-SrO-PbO glass system. Journal of Non-Crystalline Solids, 2020, 538, 120045.	1.5	46
21	Synthesis, structural, optical and radiation shielding features of tungsten trioxides doped borate glasses using Monte Carlo simulation and phy-X program. Journal of Non-Crystalline Solids, 2020, 543, 120134.	1.5	45
22	Preparation and optical properties of borate glass doped with MnO2. Journal of Materials Science: Materials in Electronics, 2018, 29, 8100-8106.	1.1	43
23	Fabrication, structural, optical, and dielectric properties of PVC-PbO nanocomposites, as well as their gamma-ray shielding capability. Radiation Physics and Chemistry, 2021, 189, 109753.	1.4	42
24	Nuclear shielding properties of B2O3â€“Pb3O4â€“ZnO glasses: Multiple impacts of Er2O3 additive. Ceramics International, 2020, 46, 27849-27859.	2.3	40
25	Lead borate glasses and synergistic impact of lanthanum oxide additive: optical and nuclear radiation shielding behaviors. Journal of Materials Science: Materials in Electronics, 2020, 31, 14494-14501.	1.1	35
26	Fabrication, physical characteristic, and gamma-photon attenuation parameters of newly developed molybdenum reinforced bismuth borate glasses. Physica Scripta, 2020, 95, 115703.	1.2	34
27	Nb2O5-Li2O-Bi2O3-B2O3 novel glassy system: evaluation of optical, mechanical, and gamma shielding parameters. Journal of Materials Science: Materials in Electronics, 2020, 31, 22039-22056.	1.1	31
28	Lead borate glasses doped by lanthanum: Synthesis, physical, optical, and gamma photon shielding properties. Journal of Non-Crystalline Solids, 2020, 527, 119731.	1.5	29
29	Synthesis and structural of Cd0.5Zn0.5F2O4 nanoparticles and its influence on the structure and optical properties of polyvinyl alcohol films. Journal of Materials Science: Materials in Electronics, 2020, 31, 9666-9674.	1.1	29
30	Evaluation of optical and gamma ray shielding features for tungsten-based bismuth borate glasses. Optical Materials, 2020, 106, 109981.	1.7	27
31	Optical and Electrical Properties of Lead Borate Glasses. Journal of Electronic Materials, 2019, 48, 5624-5631.	1.0	26
32	Effect of $$hbox {WO}_{3}$$ nanoparticle doping on the physical properties of PVC polymer. Bulletin of Materials Science, 2020, 43, 1.	0.8	26
33	Characterization of zinc lead-borate glasses doped with Fe3+ ions: optical, dielectric, and ac-conductivity investigations. Journal of Materials Science: Materials in Electronics, 2020, 31, 17044-17054.	1.1	20
34	Characterization of optical and radiation shielding behaviors of ferric oxide reinforced bismuth borate glass. Physica Scripta, 2021, 96, 075801.	1.2	18
35	Effect of Bi2O3 on some optical and gamma-photon-shielding properties of new bismuth borate glasses. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	1.1	17
36	B2O3-Bi2O3-Li2O3-Cr2O3 glasses: fabrication, structure, mechanical, and gamma radiation shielding qualities. Journal of the Australian Ceramic Society, 2021, 57, 1057-1069.	1.1	17

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37	Optical, magnetic characterization, and gamma-ray interactions for borate glasses using XCOM program. Journal of Theoretical and Applied Physics, 2019, 13, 155-164.	1.4	15
38	Direct influence of La on structure, optical and gamma-ray shielding properties of lead borate glasses. Radiation Physics and Chemistry, 2020, 177, 109085.	1.4	15
39	Investigation of Crystal Structure, Electrical and Magnetic Properties of Spinel Mn-Cd Ferrite Nanoparticles. Journal of Inorganic and Organometallic Polymers and Materials, 2022, 32, 486-498.	1.9	14
40	Structural and nuclear shielding qualities of B2O3â€“PbOâ€“Li2O glass system with different Ag2O substitution ratios. Radiation Physics and Chemistry, 2021, 179, 109262.	1.4	13
41	Optical and nuclear radiation protection characteristics of lithium bismo-borate glasses: Role of ZrO2 substitution. Radiation Physics and Chemistry, 2021, 183, 109428.	1.4	13
42	Synthesis, optical and radiation shielding capacity of the Sm2O3 doped borate glasses. Journal of Non-Crystalline Solids, 2021, 553, 120505.	1.5	10
43	Physical properties of anatase TiO2 nanocrystallites: based photoanodes doped with Cr2O3. Optical and Quantum Electronics, 2020, 52, 1.	1.5	9
44	Bi2O3 reinforced B2O3â€‰+â€‰Sb2O3â€‰+â€‰Li2O: composition, physical, linear optical characteristics, and photon attenuation capacity. Journal of Materials Science: Materials in Electronics, 2021, 32, 12439-12452.	1.1	8
45	Structural, optical, mechanical and simulating the gamma-ray shielding competencies of novel cadmium bismo-borate glasses: The impact of bismuth oxide. Journal of Materials Science: Materials in Electronics, 2021, 32, 24381-24393.	1.1	7
46	Properties of FeSe-type superconductors with ternary mixture of chalcogens. Physica C: Superconductivity and Its Applications, 2014, 502, 10-13.	0.6	6
47	Characterization of the phase composition, crystal structure and superconducting properties of Fe 1.02 Se y Te 1â˜ y â˜ x S x. Physica C: Superconductivity and Its Applications, 2016, 527, 21-27.	0.6	6
48	Influence of increasing SnO2 content on the mechanical, optical, and gamma-ray shielding characteristics of a lithium zinc borate glass system. Scientific Reports, 2022, 12, 1800.	1.6	6
49	Structural, optical, and gamma-ray shielding properties of a newly fabricated P2O5â€“B2O3â€“Bi2O3â€“Li2Oâ€“ZrO2 glass system. European Physical Journal Plus, 2021, 136, 1.	1.2	5
50	A comprehensive study on crystal structure, magnetic, and electrical properties of Ni-doped Feâ€“Cd spinel nano-ferrites. Journal of Materials Science: Materials in Electronics, 2022, 33, 15652-15664.	1.1	5
51	Phase relations and superconductivity in the Fe7(Se1â˜Te)8 system: Effect of phase coexistence. Solid State Sciences, 2016, 61, 136-145.	1.5	4
52	Synthesis, physical, linear optical and nuclear radiation shielding characteristics of B2O3â€“BaOâ€“PbOâ€“SrO2 glasses. Journal of Materials Science: Materials in Electronics, 2021, 32, 18163-18177.	1.1	4
53	Phase relations and structureâ€“properties correlations in Fe(S,Se,Te). Physica C: Superconductivity and Its Applications, 2017, 539, 19-24.	0.6	3
54	Effect of MnO2 doping on the structure and optical proprieties of rutile TiO2-based photoanodes. Journal of Materials Science: Materials in Electronics, 2018, 29, 11566-11574.	1.1	3

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55	Crystal structure, optical and electrical characteristics of rutile $$hbox {TiO}_{2}$$ nanocrystallite-based photoanodes doped with $$hbox {GeO}_{2}$$. Bulletin of Materials Science, 2019, 42, 1.	0.8	3
56	Developed barium fluoride-based borate glass: Ag2O impacts on optical and gamma-ray attenuation properties. Optik, 2021, 244, 167479.	1.4	3
57	On B2O3/Bi2O3/Na2O/Gd2O3 glasses: synthesis, structure, physical characteristics, and gamma-ray attenuation competence. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	1.1	3
58	Structural, Optical, Magnetic and Photon Attenuation of Novel Potassium Lead Borate Glasses Doped with MnO. Journal of Inorganic and Organometallic Polymers and Materials, 2022, 32, 2113-2122.	1.9	3
59	Fabrication, structure, physical and optical features of the 50B2O3 +Â25Bi2O3 +Â(25-x) Li2OÂ+ÂxSrO2 glasses. Optik, 2021, 244, 167485.	1.4	2
60	Phase Segregation and Alteration in Superconducting Properties Caused by Substitution of Palladium for Iron in Fe1.02Se0.5Te0.5. Physics of the Solid State, 2021, 63, 405-413.	0.2	1
61	A closer look at the impacts of MnO2 on the optical, mechanical, and radiation shielding properties of the B2O3â€“BaF2â€“Li2O glass system of 40B2O3â€‰+â€‰(40-x) BaF2â€‰+â€‰5MgOâ€‰+â€‰15Li2Oâ€‰+â€‰xMnO2. Applied Physics A: Materials Science and Processing, 2022, 128, .	1.1	1