

# Aly Abouhaswa

## List of Publications by Year in descending order

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61  
papers

2,075  
citations

185998

28  
h-index

243296

44  
g-index

61  
all docs

61  
docs citations

61  
times ranked

633  
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of Crystal Structure, Electrical and Magnetic Properties of Spinel Mn-Cd Ferrite Nanoparticles. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2022, 32, 486-498.	1.9	14
2	Influence of increasing SnO <sub>2</sub> content on the mechanical, optical, and gamma-ray shielding characteristics of a lithium zinc borate glass system. <i>Scientific Reports</i> , 2022, 12, 1800.	1.6	6
3	Structural, Optical, Magnetic and Photon Attenuation of Novel Potassium Lead Borate Glasses Doped with MnO. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2022, 32, 2113-2122.	1.9	3
4	A comprehensive study on crystal structure, magnetic, and electrical properties of Ni-doped Fe <sup>2+</sup> /Cd spinel nano-ferrites. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 15652-15664.	1.1	5
5	A closer look at the impacts of MnO <sub>2</sub> on the optical, mechanical, and radiation shielding properties of the B <sub>2</sub> O <sub>3</sub> -BaF <sub>2</sub> -Li <sub>2</sub> O glass system of 40B <sub>2</sub> O <sub>3</sub> -(40-x) BaF <sub>2</sub> -5MgO-15Li <sub>2</sub> O-xMnO <sub>2</sub> . <i>Applied Materials Science and Processing</i> , 2022, 128, .		
6	Synthesis, physical, optical, mechanical, and radiation attenuation properties of TiO <sub>2</sub> -Na <sub>2</sub> O-Bi <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> glasses. <i>Ceramics International</i> , 2021, 47, 185-204.	2.3	55
7	Synthesis, optical and radiation shielding capacity of the Sm <sub>2</sub> O <sub>3</sub> doped borate glasses. <i>Journal of Non-Crystalline Solids</i> , 2021, 553, 120505.	1.5	10
8	Structural and nuclear shielding qualities of B <sub>2</sub> O <sub>3</sub> -PbO-Li <sub>2</sub> O glass system with different Ag <sub>2</sub> O substitution ratios. <i>Radiation Physics and Chemistry</i> , 2021, 179, 109262.	1.4	13
9	Structural, optical, and gamma-ray shielding properties of a newly fabricated P <sub>2</sub> O <sub>5</sub> -B <sub>2</sub> O <sub>3</sub> -Bi <sub>2</sub> O <sub>3</sub> -Li <sub>2</sub> O-ZrO <sub>2</sub> glass system. <i>European Physical Journal Plus</i> , 2021, 136, 1.	1.2	5
10	Phase Segregation and Alteration in Superconducting Properties Caused by Substitution of Palladium for Iron in Fe <sub>1.02</sub> Se <sub>0.5</sub> Te <sub>0.5</sub> . <i>Physics of the Solid State</i> , 2021, 63, 405-413.	0.2	1
11	Responsibility of Bi <sub>2</sub> O <sub>3</sub> Content in Photon, Alpha, Proton, Fast and Thermal Neutron Shielding Capacity and Elastic Moduli of ZnO/B <sub>2</sub> O <sub>3</sub> /Bi <sub>2</sub> O <sub>3</sub> Glasses. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021, 31, 3505-3524.	1.9	53
12	Bi <sub>2</sub> O <sub>3</sub> reinforced B <sub>2</sub> O <sub>3</sub> -Sb <sub>2</sub> O <sub>3</sub> -Li <sub>2</sub> O: composition, physical, linear optical characteristics, and photon attenuation capacity. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 12439-12452.	1.1	8
13	Characterization of optical and radiation shielding behaviors of ferric oxide reinforced bismuth borate glass. <i>Physica Scripta</i> , 2021, 96, 075801.	1.2	18
14	B <sub>2</sub> O <sub>3</sub> -Bi <sub>2</sub> O <sub>3</sub> -Li <sub>2</sub> O <sub>3</sub> -Cr <sub>2</sub> O <sub>3</sub> glasses: fabrication, structure, mechanical, and gamma radiation shielding qualities. <i>Journal of the Australian Ceramic Society</i> , 2021, 57, 1057-1069.	1.1	17
15	Optical and nuclear radiation protection characteristics of lithium bismo-borate glasses: Role of ZrO <sub>2</sub> substitution. <i>Radiation Physics and Chemistry</i> , 2021, 183, 109428.	1.4	13
16	Synthesis, physical, linear optical and nuclear radiation shielding characteristics of B <sub>2</sub> O <sub>3</sub> -BaO-PbO-SrO <sub>2</sub> glasses. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 18163-18177.	1.1	4
17	Structural, optical, mechanical and simulating the gamma-ray shielding competencies of novel cadmium bismo-borate glasses: The impact of bismuth oxide. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 24381-24393.	1.1	7
18	Developed barium fluoride-based borate glass: Ag <sub>2</sub> O impacts on optical and gamma-ray attenuation properties. <i>Optik</i> , 2021, 244, 167479.	1.4	3

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19	Fabrication, structure, physical and optical features of the $50\text{B}_2\text{O}_3 + 25\text{Bi}_2\text{O}_3 + (25-x)\text{Li}_2\text{O} + x\text{SrO}_2$ glasses. <i>Optik</i> , 2021, 244, 167485.	1.4	2
20	Fabrication, structural, optical, and dielectric properties of PVC-PbO nanocomposites, as well as their gamma-ray shielding capability. <i>Radiation Physics and Chemistry</i> , 2021, 189, 109753.	1.4	42
21	On $\text{B}_2\text{O}_3/\text{Bi}_2\text{O}_3/\text{Na}_2\text{O}/\text{Gd}_2\text{O}_3$ glasses: synthesis, structure, physical characteristics, and gamma-ray attenuation competence. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	1.1	3
22	$\text{B}_2\text{O}_3\text{-BaCO}_3\text{-Li}_2\text{O}_3$ glass system doped with $\text{Co}_3\text{O}_4$ : Structure, optical, and radiation shielding properties. <i>Physica B: Condensed Matter</i> , 2020, 576, 411717.	1.3	69
23	Structure, optical, gamma-ray and neutron shielding properties of NiO doped $\text{B}_2\text{O}_3\text{-BaCO}_3\text{-Li}_2\text{O}_3$ glass systems. <i>Ceramics International</i> , 2020, 46, 1711-1721.	2.3	117
24	Lead borate glasses doped by lanthanum: Synthesis, physical, optical, and gamma photon shielding properties. <i>Journal of Non-Crystalline Solids</i> , 2020, 527, 119731.	1.5	29
25	Tailoring the optical and dielectric properties of PVC/CuO nanocomposites. <i>Polymer Bulletin</i> , 2020, 77, 6005-6016.	1.7	48
26	Influence of $\text{ZrO}_2$ on gamma shielding properties of lead borate glasses. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	1.1	64
27	$\text{Nb}_2\text{O}_5\text{-Li}_2\text{O-Bi}_2\text{O}_3\text{-B}_2\text{O}_3$ novel glassy system: evaluation of optical, mechanical, and gamma shielding parameters. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 22039-22056.	1.1	31
28	Nuclear shielding properties of $\text{B}_2\text{O}_3\text{-Pb}_3\text{O}_4\text{-ZnO}$ glasses: Multiple impacts of $\text{Er}_2\text{O}_3$ additive. <i>Ceramics International</i> , 2020, 46, 27849-27859.	2.3	40
29	Characterization of zinc lead-borate glasses doped with $\text{Fe}^{3+}$ ions: optical, dielectric, and ac-conductivity investigations. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 17044-17054.	1.1	20
30	Lead borate glasses and synergistic impact of lanthanum oxide additive: optical and nuclear radiation shielding behaviors. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 14494-14501.	1.1	35
31	Synthesis and structural of $\text{Cd}_0.5\text{Zn}_0.5\text{F}_2\text{O}_4$ nanoparticles and its influence on the structure and optical properties of polyvinyl alcohol films. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 9666-9674.	1.1	29
32	Optical, structural and nuclear radiation security properties of newly fabricated $\text{V}_2\text{O}_5\text{-SrO-PbO}$ glass system. <i>Journal of Non-Crystalline Solids</i> , 2020, 538, 120045.	1.5	46
33	Physical, structural, optical, and radiation shielding properties of $\text{B}_2\text{O}_3\text{-}20\text{Bi}_2\text{O}_3\text{-}20\text{Na}_2\text{O}_2\text{-Sb}_2\text{O}_3$ glasses: Role of $\text{Sb}_2\text{O}_3$ . <i>Journal of Non-Crystalline Solids</i> , 2020, 543, 120130.	1.5	64
34	Effect of chromium oxide on the physical, optical, and radiation shielding properties of lead sodium borate glasses. <i>Journal of Non-Crystalline Solids</i> , 2020, 544, 120171.	1.5	108
35	Effect of $\text{WO}_3$ nanoparticle doping on the physical properties of PVC polymer. <i>Bulletin of Materials Science</i> , 2020, 43, 1.	0.8	26
36	Physical properties of anatase $\text{TiO}_2$ nanocrystallites: based photoanodes doped with $\text{Cr}_2\text{O}_3$ . <i>Optical and Quantum Electronics</i> , 2020, 52, 1.	1.5	9

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37	A novel B <sub>2</sub> O <sub>3</sub> -Na <sub>2</sub> O-BaO-HgO glass system: Synthesis, physical, optical and nuclear shielding features. <i>Ceramics International</i> , 2020, 46, 16166-16177.	2.3	64
38	Bi <sub>2</sub> O <sub>3</sub> effect on physical, optical, structural and radiation safety characteristics of B <sub>2</sub> O <sub>3</sub> Na <sub>2</sub> O-ZnO CaO glass system. <i>Journal of Non-Crystalline Solids</i> , 2020, 535, 119993.	1.5	76
39	Direct influence of La on structure, optical and gamma-ray shielding properties of lead borate glasses. <i>Radiation Physics and Chemistry</i> , 2020, 177, 109085.	1.4	15
40	Photon and electron attenuation parameters of phosphate and borate bioactive glasses by using Geant4 simulations. <i>Ceramics International</i> , 2020, 46, 24435-24442.	2.3	74
41	Direct influence of mercury oxide on structural, optical and radiation shielding properties of a new borate glass system. <i>Ceramics International</i> , 2020, 46, 17978-17986.	2.3	51
42	Synthesis, structural, optical and radiation shielding features of tungsten trioxides doped borate glasses using Monte Carlo simulation and phy-X program. <i>Journal of Non-Crystalline Solids</i> , 2020, 543, 120134.	1.5	45
43	Optical and nuclear radiation shielding properties of zinc borate glasses doped with lanthanum oxide. <i>Journal of Non-Crystalline Solids</i> , 2020, 543, 120151.	1.5	68
44	Evaluation of optical and gamma ray shielding features for tungsten-based bismuth borate glasses. <i>Optical Materials</i> , 2020, 106, 109981.	1.7	27
45	Fabrication, physical characteristic, and gamma-photon attenuation parameters of newly developed molybdenum reinforced bismuth borate glasses. <i>Physica Scripta</i> , 2020, 95, 115703.	1.2	34
46	Crystal structure, optical and electrical characteristics of rutile $\text{TiO}_2$ nanocrystallite-based photoanodes doped with $\text{GeO}_2$ . <i>Bulletin of Materials Science</i> , 2019, 42, 1.	0.8	3
47	Synthesis, physical, structural and shielding properties of newly developed B <sub>2</sub> O <sub>3</sub> -ZnO-PbO-Fe <sub>2</sub> O <sub>3</sub> glasses using Geant4 code and WinXCOM program. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	1.1	59
48	Comprehensive study on the structural, optical, physical and gamma photon shielding features of B <sub>2</sub> O <sub>3</sub> -Bi <sub>2</sub> O <sub>3</sub> -PbO-TiO <sub>2</sub> glasses using WinXCOM and Geant4 code. <i>Journal of Molecular Structure</i> , 2019, 1197, 656-665.	1.8	114
49	Optical and Electrical Properties of Lead Borate Glasses. <i>Journal of Electronic Materials</i> , 2019, 48, 5624-5631.	1.0	26
50	Effect of Bi <sub>2</sub> O <sub>3</sub> on some optical and gamma-photon-shielding properties of new bismuth borate glasses. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	1.1	17
51	Synthesis, structure, optical and gamma radiation shielding properties of B <sub>2</sub> O <sub>3</sub> -PbO <sub>2</sub> -Bi <sub>2</sub> O <sub>3</sub> glasses. <i>Composites Part B: Engineering</i> , 2019, 172, 218-225.	5.9	59
52	Optical, magnetic characterization, and gamma-ray interactions for borate glasses using XCOM program. <i>Journal of Theoretical and Applied Physics</i> , 2019, 13, 155-164.	1.4	15
53	Structural, UV and shielding properties of ZBPC glasses. <i>Journal of Non-Crystalline Solids</i> , 2019, 509, 99-105.	1.5	89
54	Preparation and optical properties of borate glass doped with MnO <sub>2</sub> . <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 8100-8106.	1.1	43

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55	Structural, optical, and electrical characterization of borate glasses doped with SnO <sub>2</sub> . Journal of Non-Crystalline Solids, 2018, 494, 59-65.	1.5	65
56	Effect of MnO <sub>2</sub> doping on the structure and optical proprieties of rutile TiO <sub>2</sub> -based photoanodes. Journal of Materials Science: Materials in Electronics, 2018, 29, 11566-11574.	1.1	3
57	ZnO-B <sub>2</sub> O <sub>3</sub> -PbO glasses: Synthesis and radiation shielding characterization. Physica B: Condensed Matter, 2018, 548, 20-26.	1.3	92
58	Phase relations and structureâ€“properties correlations in Fe(S,Se,Te). Physica C: Superconductivity and Its Applications, 2017, 539, 19-24.	0.6	3
59	Phase relations and superconductivity in the Fe <sub>7</sub> (Se <sub>1-x</sub> Te <sub>x</sub> ) <sub>8</sub> system: Effect of phase coexistence. Solid State Sciences, 2016, 61, 136-145.	1.5	4
60	Characterization of the phase composition, crystal structure and superconducting properties of Fe <sub>1.02</sub> Se <sub>y</sub> Te <sub>1-y</sub> S <sub>x</sub> . Physica C: Superconductivity and Its Applications, 2016, 527, 21-27.	0.6	6
61	Properties of FeSe-type superconductors with ternary mixture of chalcogens. Physica C: Superconductivity and Its Applications, 2014, 502, 10-13.	0.6	6