Jamila S Alzahrani

List of Publications by Year
in descending order

31 papers	850 citations	516710 16 h-index	477307 29 g-index
31 all docs	31 docs citations	31 times ranked	206 citing authors

#	Article	IF	Citations
1	Simulating the radiation shielding properties of TeO2â€“Na2Oâ€“TiO glass system using PHITS Monte Carlo code. Computational Materials Science, 2021, 196, 110566.	3.0	87
2	Synthesis, physical and nuclear shielding properties of novel Pbâ€“Al alloys. Progress in Nuclear Energy, 2021, 142, 103992.	2.9	79
3	Significant influence of MoO3 content on synthesis, mechanical, and radiation shielding properties of B2O3-Pb3O4-Al2O3 glasses. Journal of Alloys and Compounds, 2021, 882, 160625.	5.5	76
4	Nuclear shielding properties of Ni-, Fe-, Pb-, and W-based alloys. Radiation Physics and Chemistry, 2022, 195, 110090.	2.8	60
5	Gamma-Ray Attenuation and Exposure Buildup Factor of Novel Polymers in Shielding Using Geant4 Simulation. Materials, 2021, 14, 5051.	2.9	57
6	Role of heavy metal oxides on the radiation attenuation properties of newly developed TBBE-X glasses by computational methods. Physica Scripta, 2021, 96, 075302.	2.5	55
7	Fabrication and characterization of barium based bioactive glasses in terms of physical, structural, mechanical and radiation shielding properties. Ceramics International, 2021, 47, 21730-21743.	4.8	52
8	Study of the radiation attenuation properties of MgO-Al2O3-SiO2-Li2O-Na2O glass system. Journal of the Australian Ceramic Society, 2022, 58, 267-273.	1.9	45
9	Nuclear shielding properties and buildup factors of Cr-based ferroalloys. Progress in Nuclear Energy, 2021, 141, 103956.	2.9	42
10	Synthesis, optical, structural, and radiation transmission properties of PbO/Bi2O3/B2O3/Fe2O3 glasses: An experimental and in silico study. Optical Materials, 2021, 117, 111173.	3.6	39
11	Conductive natural and waste rubbers composites-loaded with lead powder as environmental flexible gamma radiation shielding material. Materials Research Express, 2020, 7, 105309.	1.6	33
12	Ge20Se80-xBix (xâ€‰â‰‰â€‰12) chalcogenide glasses for infrared and gamma sensing applications: structural, optical and gamma attenuation aspects. Journal of Materials Science: Materials in Electronics, 2021, 32, 15509-15522.	2.2	28
13	Enhancement of Bentonite Materials with Cement for Gamma-Ray Shielding Capability. Materials, 2021, 14, 4697.	2.9	24
14	Physical, structural, mechanical, and radiation shielding properties of the PbOâ€“B2O3â€“Bi2O3â€“ZnO glass system. Journal of Materials Science: Materials in Electronics, 2021, 32, 18994-19009.	2.2	23
15	Optical and radiation shielding studies on tellurite glass system containing ZnO and Na2O. Optik, 2022, 257, 168821.	2.9	19
16	Evaluations of physical and mechanical properties, and photon attenuation characteristics on lithium-germanate glass containing ZnO. Optik, 2021, 248, 168078.	2.9	18
17	A synergistic effect of heavy metal oxides to enhance the physical, optical, and radiation-absorption properties of TeO2-Li2O-BaO glasses. Optik, 2022, 261, 169189.	2.9	16
18	Synthesis and properties of tellurite based glasses containing Na2O, BaO, and TiO2: Raman, UV and neutron/charged particle shielding assessments. Ceramics International, 2022, 48, 18330-18337.	4.8	15

#	Article	IF	Citations
19	Geant4 Tracks of NaI Cubic Detector Peak Efficiency, Including Coincidence Summing Correction for Rectangular Sources. Nuclear Science and Engineering, 2021, 195, 1008-1016.	1.1	14
20	Synthesis, optical properties and radiation shielding performance of TeO2-Na2O-BaO-WO3 glass system. Optik, 2022, 261, 169167.	2.9	12
21	Effects of reducing PbO content on the elastic and radiation attenuation properties of germanate glasses: a new nonâ€toxic candidate for shielding applications. Journal of Materials Science: Materials in Electronics, 2021, 32, 15080-15094.	2.2	11
22	Evaluation of the radiation shielding characteristics of WO₃â€“MoO₃â€“TeO₂/Sb₂O₃ glasses. Canadian Metallurgical Quarterly, 2022, 61, 418-428.	1.2	9
23	A Significant Role of Tb2O3 on the Optical Properties and Radiation Shielding Performance of Ga2O3â€“B2O3â€“Al2O3â€“GeO2 Glasses. Journal of Inorganic and Organometallic Polymers and Materials, 2021, 31, 4300-4312.	3.7	8
24	Effect of Calcination Temperature on the Structural and Optical Properties of (ZnO)0.8 (ZrO2)0.2 Nanoparticles. Journal of Inorganic and Organometallic Polymers and Materials, 2022, 32, 1755-1765.	3.7	7
25	Radiation shielding performance of Co2O3â€“TeO2â€“Li2Oâ€“ZrO2 glassâ€“ceramics. Journal of the Australian Ceramic Society, 2022, 58, 1199-1207.	1.9	7
26	Enhanced Î±-Mn2O3 nanorods synthesized by one-pot hydrothermal route for supercapacitors. Journal of Materials Science: Materials in Electronics, 2022, 33, 11067-11077.	2.2	4
27	Developed barium fluoride-based borate glass: Ag2O impacts on optical and gamma-ray attenuation properties. Optik, 2021, 244, 167479.	2.9	3
28	P2O5â€“Pb3O4â€“ZnOâ€“Li2CO3â€“CuO glasses and their radiation attenuation properties for shielding applications. Journal of the Australian Ceramic Society, 2022, 58, 1219-1229.	1.9	3
29	Radiological monitoring in some coastal regions of the Saudi Arabian Gulf close to the Iranian Bushehr nuclear plant. Marine Pollution Bulletin, 2021, , 113146.	5.0	2
30	A broad analysis of directly and indirectly ionizing radiation interaction parameters of PbF₂-CaF₂-Bi₂O₃-B₂O₃-Cr₂O₃ glass system. Physica Scripta, 2022, 97, 075306.	2.5	2
31	Peak Efficiency of NaI Detector and Coincidence Summing Factor for Different Cylindrical Sources Using Geant4 Simulation. Health Physics, 2021, 121, 202-208.	0.5	0