

# Shams A M Issa

## List of Publications by Year in descending order

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138  
papers

3,662  
citations

136950

32  
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182427

51  
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141  
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141  
docs citations

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times ranked

815  
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface hardness, thermal, optical, and photon attenuation coefficients assessment for dysprosium-doped tellurite glasses. <i>Journal of Rare Earths</i> , 2023, 41, 1083-1090.	4.8	6
2	Cerium (IV) oxide reinforced Lithium-Borotellurite glasses: A characterization study through physical, optical, structural and radiation shielding properties. <i>Ceramics International</i> , 2022, 48, 1152-1165.	4.8	27
3	Fabrication, FTIR, physical characteristics and photon shielding efficacy of CeO <sub>2</sub> /sand reinforced borate glasses: Experimental and simulation studies. <i>Radiation Physics and Chemistry</i> , 2022, 191, 109837.	2.8	46
4	Lithium-fluoro borotellurite glasses: Nonlinear optical, mechanical characteristics and gamma radiation protection characteristics. <i>Radiation Physics and Chemistry</i> , 2022, 190, 109819.	2.8	37
5	Fabrications a new family of samarium lead phosphate glasses, determination electrical, structural and optical properties under effect of different gamma doses. <i>Optik</i> , 2022, 249, 168266.	2.9	8
6	A closer-look on Copper(II) oxide reinforced Calcium-Borate glasses: Fabrication and multiple experimental assessment on optical, structural, physical, and experimental neutron/gamma shielding properties. <i>Ceramics International</i> , 2022, 48, 6780-6791.	4.8	32
7	Fabrication, physical, structural, and optical investigation of cadmium lead-borate glasses doped with Nd <sup>3+</sup> ions: An experimental study. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 1877-1887.	2.2	11
8	Structural characterization and gamma-ray attenuation properties of rice-like $\text{TeO}_2$ crystalline microstructures (CMS) grown rapidly on free surface of tellurite-based glasses. <i>Journal of Materials Research and Technology</i> , 2022, 16, 1179-1189.	5.8	8
9	Influence of Sintering Duration on Crystal Phase and Optical Band Gap of Mn <sup>3+</sup> -Doped Willemite-Based Glass-Ceramics. <i>Journal of Electronic Materials</i> , 2022, 51, 1163-1168.	2.2	4
10	Synthesis and characterization of vanadium(V) oxide reinforced calcium-borate glasses: Experimental assessments on Al <sub>2</sub> O <sub>3</sub> /BaO <sub>2</sub> /ZnO contributions. <i>Journal of Non-Crystalline Solids</i> , 2022, 580, 121397.	3.1	14
11	Gallium (III) oxide reinforced novel heavy metal oxide (HMO) glasses: A focusing study on synthesis, optical and gamma-ray shielding properties. <i>Ceramics International</i> , 2022, 48, 14261-14272.	4.8	14
12	A detailed investigation on highly dense CuZr bulk metallic glasses for shielding purposes. <i>Open Chemistry</i> , 2022, 20, 69-80.	1.9	45
13	Modelling and calculation of risk due to radon concentration in residential houses, Nicosia, Cyprus. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2022, 331, 1335-1341.	1.5	1
14	Thermal and Optical Characteristics of Synthesized Sand/CeO <sub>2</sub> Glasses: Experimental Approach. <i>Journal of Electronic Materials</i> , 2022, 51, 2070-2076.	2.2	6
15	Investigation of the elastic moduli, optical characteristics, and ionizing radiation attenuation capacity of specific strontium borosilicate glasses. <i>Journal of the Australian Ceramic Society</i> , 2022, 58, 495-510.	1.9	5
16	Tailoring variations in the linear optical and radiation shielding parameters of PVA polymeric composite films doped with rare-earth elements. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, 1.	2.3	22
17	Statistical analysis on the radiological assessment and geochemical studies of granite rocks in the north of Um Taghir area, Eastern Desert, Egypt. <i>Open Chemistry</i> , 2022, 20, 254-266.	1.9	12
18	Gamma, neutron, and heavy charged ion shielding properties of Er <sup>3+</sup> -doped and Sm <sup>3+</sup> -doped zinc borate glasses. <i>Open Chemistry</i> , 2022, 20, 130-145.	1.9	38

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19	Dielectric, structural, optical and radiation shielding properties of newly synthesized $\text{CaO} \cdot \text{SiO}_2 \cdot \text{Na}_2\text{O} \cdot \text{Al}_2\text{O}_3$ glasses: experimental and theoretical investigations on impact of Tungsten(III) oxide. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, 1.	2.3	7
20	Synthesis and structural, electrical, optical, and gamma-ray attenuation properties of ZnO-multi-walled carbon nanotubes (MWCNT) composite separately incorporated with CdO, TiO <sub>2</sub> , and Fe <sub>2</sub> O <sub>3</sub> . <i>Ceramics International</i> , 2022, 48, 16251-16262.	4.8	12
21	A Comprehensive Evaluation of the Attenuation Characteristics of Some Sliding Bearing Alloys under 0.015–15 MeV Gamma-Ray Exposure. <i>Materials</i> , 2022, 15, 2464.	2.9	1
22	Molecular Polar Surface Area, Total Solvent Accessible Surface Area (SASA), Heat of Formation, and Gamma-Ray Attenuation Properties of Some Flavonoids. <i>Frontiers in Physics</i> , 2022, 10, .	2.1	6
23	A thorough examination of gadolinium (III)-containing silicate bioactive glasses: synthesis, physical, mechanical, elastic and radiation attenuation properties. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, 1.	2.3	11
24	Fabrication of newly developed tungsten III-oxide glass family: Physical, structural, mechanical, radiation shielding effectiveness. <i>Optik</i> , 2022, 259, 169025.	2.9	9
25	MnCl <sub>2</sub> incorporated PVA polymers: A closer-look on behavioural changes as a function of reinforcement. <i>Optical Materials</i> , 2022, 125, 112142.	3.6	3
26	Transmission Factor (TF) Behavior of $\text{Bi}_2\text{O}_3 \cdot \text{TeO}_2 \cdot \text{Na}_2\text{O} \cdot \text{TiO}_2 \cdot \text{ZnO}$ Glass System: A Monte Carlo Simulation Study. <i>Sustainability</i> , 2022, 14, 2893.	3.2	15
27	Analysis of the Radiological, Mineralogical and Long-Term Sustainability of Several Commercial Aswan Granites Used as Building Materials. <i>Sustainability</i> , 2022, 14, 3553.	3.2	4
28	Evaluating the optical and gamma-ray protection properties of bismo-tellurite sodium titanium zinc glasses. <i>Journal of the Australian Ceramic Society</i> , 2022, 58, 851-866.	1.9	8
29	Investigations of mechanical and radiation shielding properties of BaTiO <sub>3</sub> -modified cadmium alkali borate glass. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, 1.	2.3	22
30	Multiple Assessments on the Gamma-Ray Protection Properties of Niobium-Doped Borotellurite Glasses: A Wide Range Investigation Using Monte Carlo Simulations. <i>Science and Technology of Nuclear Installations</i> , 2022, 2022, 1-17.	0.8	7
31	An experimental evaluation of CdO/PbO-B <sub>2</sub> O <sub>3</sub> glasses containing neodymium oxide: Structure, electrical conductivity, and gamma-ray resistance. <i>Materials Research Bulletin</i> , 2022, 151, 111828.	5.2	33
32	Nuclear shielding performances of borate/sodium/potassium glasses doped with Sm <sup>3+</sup> ions. <i>Journal of Materials Research and Technology</i> , 2022, 18, 1424-1435.	5.8	12
33	Binary contributions of Dy <sup>3+</sup> ions on the mechanical and radiation resistance properties of oxyfluoroborotellurite Dy <sub>x</sub> -glasses. <i>Journal of Materials Research and Technology</i> , 2022, 18, 820-829.	5.8	3
34	Heavy metal oxide (HMO) glasses as an effective member of glass shield family: A comprehensive characterization on gamma ray shielding properties of various structures. <i>Journal of Materials Research and Technology</i> , 2022, 18, 231-244.	5.8	23
35	Experimental and FLUKA evaluation on structure and optical properties and <sup>137</sup> I-radiation shielding capacity of bismuth borophosphate glasses. <i>Progress in Nuclear Energy</i> , 2022, 148, 104219.	2.9	31
36	Mechanical properties, elastic moduli, transmission factors, and gamma-ray-shielding performances of $\text{Bi}_2\text{O}_3 \cdot \text{P}_2\text{O}_5 \cdot \text{B}_2\text{O}_3 \cdot \text{V}_2\text{O}_5$ quaternary glass system. <i>Open Chemistry</i> , 2022, 20, 314-329.	1.9	17

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37	Corrigendum to "Statistical analysis on the radiological assessment and geochemical studies of granite rocks in the north of Um Taghir area, Eastern Desert, Egypt". Open Chemistry, 2022, 20, 330-330.	1.9	1
38	Effect of PbO on the elastic and radiation shielding properties of B <sub>2</sub> O <sub>3</sub> -Bi <sub>2</sub> O <sub>3</sub> -Al <sub>2</sub> O <sub>3</sub> -CuO glasses. Radiation Physics and Chemistry, 2022, 196, 110129.	2.8	12
39	Shielding features, to non-ionizing and ionizing photons, of FeCr-based composites. Applied Radiation and Isotopes, 2021, 167, 109470.	1.5	26
40	Structure, optical, and radiation shielding properties of PVA-BaTiO <sub>3</sub> nanocomposite films: An experimental investigation. Radiation Physics and Chemistry, 2021, 180, 109281.	2.8	73
41	Physical, thermal, optical, structural and nuclear radiation shielding properties of Sm <sub>2</sub> O <sub>3</sub> reinforced borotellurite glasses. Ceramics International, 2021, 47, 6154-6168.	4.8	35
42	Alteration of optical, structural, mechanical durability and nuclear radiation attenuation properties of barium borosilicate glasses through BaO reinforcement: Experimental and numerical analyses. Ceramics International, 2021, 47, 5587-5596.	4.8	95
43	PbO-Sb <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> -CuO glassy system: Evaluation of optical, gamma and neutron shielding properties. Materials Chemistry and Physics, 2021, 258, 123937.	4.0	43
44	A journey for exploration of Eu <sub>2</sub> O <sub>3</sub> reinforcement effect on zinc-borate glasses: Synthesis, optical, physical and nuclear radiation shielding properties. Ceramics International, 2021, 47, 2572-2583.	4.8	44
45	Prediction of mechanical and radiation parameters of glasses with high Bi <sub>2</sub> O <sub>3</sub> concentration. Results in Physics, 2021, 21, 103839.	4.1	31
46	Mechanical, structural and nuclear radiation shielding competencies of some tellurite glasses reinforced with molybdenum trioxide. Physica Scripta, 2021, 96, 045702.	2.5	9
47	Control optical characterizations of Ta <sub>2</sub> O <sub>5</sub> -doped B <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> -CaO-BaO glasses by irradiation dose. Optical Materials, 2021, 112, 110613.	3.6	39
48	Multiple characterization of some glassy-alloys as photon and neutron shields: In-silico Monte Carlo investigation. Materials Research Express, 2021, 8, 035202.	1.6	9
49	In-Silico Monte Carlo Simulation Trials for Investigation of V <sub>2</sub> O <sub>5</sub> Reinforcement Effect on Ternary Zinc Borate Glasses: Nuclear Radiation Shielding Dynamics. Materials, 2021, 14, 1158.	2.9	9
50	A Systematical Characterization of TeO <sub>2</sub> -V <sub>2</sub> O <sub>5</sub> Glass System Using Boron (III) Oxide and Neodymium (III) Oxide Substitution: Resistance Behaviors against Ionizing Radiation. Applied Sciences (Switzerland), 2021, 11, 3035.	2.5	32
51	Synthesis, optical, structural and physical properties of newly developed dolomite reinforced borate glasses for nuclear radiation shielding utilizations: An experimental and simulation study. Optical Materials, 2021, 114, 110942.	3.6	68
52	Characterization of optical and radiation shielding behaviors of ferric oxide reinforced bismuth borate glass. Physica Scripta, 2021, 96, 075801.	2.5	18
53	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. Journal of the Australian Ceramic Society, 2021, 57, 1057-1069.	1.9	17
54	Effects of Nd <sub>2</sub> O <sub>3</sub> substitution on the mechanical and radiation shielding properties of alumino-borobismuthate glasses. European Physical Journal Plus, 2021, 136, 1.	2.6	5

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55	In-depth survey of nuclear radiation attenuation efficacies for high density bismuth lead borate glass system. Results in Physics, 2021, 23, 104030.	4.1	27
56	The impact of samarium (III) oxide on structural, optical and radiation shielding properties of thallium-borate glasses: Experimental and numerical investigation. Optical Materials, 2021, 114, 110948.	3.6	40
57	Structural, surface morphology and radiation shielding properties of barium ferrite powder. Physica Scripta, 2021, 96, 095805.	2.5	4
58	Developed selenium dioxide-based ceramics for advanced shielding applications: Au <sub>2</sub> O <sub>3</sub> impact on nuclear radiation attenuation. Results in Physics, 2021, 24, 104099.	4.1	9
59	Erbium (III)- and Terbium (III)-containing silicate-based bioactive glass powders: physical, structural and nuclear radiation shielding characteristics. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	18
60	Probing of nuclear radiation attenuation and mechanical features for lithium bismuth borate glasses with improving Bi <sub>2</sub> O <sub>3</sub> content for B <sub>2</sub> O <sub>3</sub> +Al <sub>2</sub> O <sub>3</sub> amounts. Results in Physics, 2021, 25, 104246.	4.1	30
61	The impact of Nd <sup>3+</sup> ions on linear/nonlinear and the ionizing radiation attenuation parameters of TeO <sub>2</sub> -PbO-Y <sub>2</sub> O <sub>3</sub> glasses. Journal of Materials Science: Materials in Electronics, 2021, 32, 17200-17219.	2.2	3
62	Exploring the FTIR, Optical and Nuclear Radiation Shielding Properties of Samarium-Borate Glass: A Characterization through Experimental and Simulation Methods. Nanomaterials, 2021, 11, 1713.	4.1	21
63	Municipal waste slag for dyes photocatalytic and metal recovery applications through structural analysis and experimental characterization. International Journal of Energy Research, 2021, 45, 17691-17708.	4.5	4
64	Characterization of synthesized xBaO-(40-x)Li <sub>2</sub> O-60B <sub>2</sub> O <sub>3</sub> glass system: a multi-dimensional research on optical and physical properties. Journal of Materials Science: Materials in Electronics, 2021, 32, 16990-17008.	2.2	6
65	Effect of Ag <sub>2</sub> O substituted in bioactive glasses: a synergistic relationship between antibacterial zone and radiation attenuation properties. Journal of Materials Research and Technology, 2021, 13, 2194-2201.	5.8	11
66	Natural Radioactivity, Radiological Hazard and Petrographical Studies on Aswan Granites Used as Building Materials in Egypt. Applied Sciences (Switzerland), 2021, 11, 6471.	2.5	18
67	Newly Developed Vanadium-Based Glasses and Their Potential for Nuclear Radiation Shielding Aims: A Monte Carlo Study on Gamma Ray Attenuation Parameters. Materials, 2021, 14, 3897.	2.9	15
68	Cadmium oxide reinforced 46V <sub>2</sub> O <sub>5</sub> -(46P <sub>2</sub> O <sub>5</sub> -(8~x)B <sub>2</sub> O <sub>3</sub> -xCdO semiconducting oxide glasses and resistance behaviors against ionizing gamma rays. Journal of Materials Research and Technology, 2021, 13, 2336-2349.	5.8	18
69	An experimental investigation on structural, mechanical and physical properties of Strontium-Silicon Borate glass system through Bismuth-Aluminum substitution. Optical Materials, 2021, 117, 111124.	3.6	10
70	Gamma, Fast Neutron, Proton, and Alpha Shielding Properties of Borate Glasses: A Closer Look on Lead (II) Oxide and Bismuth (III) Oxide Reinforcement. Applied Sciences (Switzerland), 2021, 11, 6837.	2.5	25
71	Ytterbium (III) oxide reinforced novel TeO <sub>2</sub> -B <sub>2</sub> O <sub>3</sub> -V <sub>2</sub> O <sub>5</sub> glass system: Synthesis and optical, structural, physical and thermal properties. Ceramics International, 2021, 47, 18517-18531.	4.8	52
72	The effect of composition and <sup>137</sup> Cs-irradiation on the Vickers hardness, structural and optical properties of xLiNbO <sub>3</sub> -25CaO-35PbO-(40-x) waste systems. Ceramics International, 2021, 47, 18751-18760.	4.8	20

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73	The Impact of PbF <sub>2</sub> -Based Glasses on Radiation Shielding and Mechanical Concepts: An Extensive Theoretical and Monte Carlo Simulation Study. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021, 31, 3934-3942.	3.7	10
74	Novel HMO-Glasses with Sb <sub>2</sub> O <sub>3</sub> and TeO <sub>2</sub> for Nuclear Radiation Shielding Purposes: A Comparative Analysis with Traditional and Novel Shields. <i>Materials</i> , 2021, 14, 4330.	2.9	17
75	Optical and physical behaviours of newly developed germanium-tellurium (GeTe) glasses: a comprehensive experimental and in-silico study with commercial glasses and ordinary shields. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 22953-22973.	2.2	11
76	A Closer Look on Nuclear Radiation Shielding Properties of Eu <sup>3+</sup> Doped Heavy Metal Oxide Glasses: Impact of Al <sub>2</sub> O <sub>3</sub> /PbO Substitution. <i>Materials</i> , 2021, 14, 5334.	2.9	12
77	Tailoring the structuralism in xBaO·(30-x)Li <sub>2</sub> O·70B <sub>2</sub> O <sub>3</sub> glasses for highly efficient shields of Gamma radiation and neutrons attenuators. <i>Physica Scripta</i> , 2021, 96, 125308.	2.5	4
78	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.	2.2	7
79	Novel Cu/Zn Reinforced Polymer Composites: Experimental Characterization for Radiation Protection Efficiency (RPE) and Shielding Properties for Alpha, Proton, Neutron, and Gamma Radiations. <i>Polymers</i> , 2021, 13, 3157.	4.5	19
80	Assessment of absorbed dose for Zr-89, Sm-153 and Lu-177 medical radioisotopes: IDAC-Dose2.1 and OLINDA experience. <i>Applied Radiation and Isotopes</i> , 2021, 176, 109841.	1.5	4
81	Fabrication, structural, optical, physical and radiation shielding characterization of indium (III) oxide reinforced 85TeO <sub>2</sub> -(15-x)ZnO-xIn <sub>2</sub> O <sub>3</sub> glass system. <i>Ceramics International</i> , 2021, 47, 27305-27315.	4.8	32
82	Synthesis and structural, optical, physical properties of Gadolinium (III) oxide reinforced TeO <sub>2</sub> ·B <sub>2</sub> O <sub>3</sub> ·(20-x)Li <sub>2</sub> O-xGd <sub>2</sub> O <sub>3</sub> glass system. <i>Journal of Alloys and Compounds</i> , 2021, 877, 160302.	5.5	32
83	An extended assessment of natural radioactivity in the sediments of the mid-region of the Egyptian Red Sea coast. <i>Marine Pollution Bulletin</i> , 2021, 171, 112658.	5.0	35
84	WS <sub>2</sub> /bioactive glass composites: Fabrication, structural, mechanical and radiation attenuation properties. <i>Ceramics International</i> , 2021, 47, 29739-29747.	4.8	16
85	Exploration of material characteristics of tantalum borosilicate glasses by experimental, simulation, and theoretical methods. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 159, 110282.	4.0	17
86	Material characterization of WO <sub>3</sub> /Bi <sub>2</sub> O <sub>3</sub> substituted calcium-borosilicate glasses: Structural, physical, mechanical properties and gamma-ray resistance competencies. <i>Journal of Alloys and Compounds</i> , 2021, 888, 161419.	5.5	31
87	Impact of Eye and Breast Shielding on Organ Doses During Cervical Spine Radiography: Design and Validation of MIRD Computational Phantom. <i>Frontiers in Public Health</i> , 2021, 9, 751577.	2.7	7
88	Trace elements assessment and natural radioactivity levels of infant formulas consumed in Egypt. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2021, 330, 1127-1136.	1.5	4
89	Trivalent Ions and Their Impacts on Effective Conductivity at 300 K and Radio-Protective Behaviors of Bismo-Borate Glasses: A Comparative Investigation for Al, Y, Nd, Sm, Eu. <i>Materials</i> , 2021, 14, 5894.	2.9	4
90	On B <sub>2</sub> O <sub>3</sub> /Bi <sub>2</sub> O <sub>3</sub> /Na <sub>2</sub> O/Gd <sub>2</sub> O <sub>3</sub> glasses: synthesis, structure, physical characteristics, and gamma-ray attenuation competence. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	2.3	3

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91	Mechanical Properties, Elastic Moduli, and Gamma Radiation Shielding Properties of Some Zinc Sodium Tetraborate Glasses: A Closer Look at ZnO/CaO Substitution. <i>Journal of Electronic Materials</i> , 2021, 50, 6844-6853.	2.2	13
92	Glass fabrication using ceramic and porcelain recycled waste and lithium niobate: physical, structural, optical and nuclear radiation attenuation properties. <i>Journal of Materials Research and Technology</i> , 2021, 15, 4074-4085.	5.8	36
93	Analysis of physical and mechanical traits and nuclear radiation transmission aspects of Gallium(III) trioxide constituting Bi <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> glasses. <i>Results in Physics</i> , 2021, 30, 104899.	4.1	15
94	Fast Neutron and Gamma-Ray Attenuation Properties of Some HMO Tellurite-Tungstate-Antimonate Glasses: Impact of Sm <sup>3+</sup> Ions. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 10168.	2.5	9
95	Comparative study on application of <sup>177</sup> Lu-labeled rituximab, tetulomab, cetuximab and huA33 monoclonal antibodies to targeted radionuclide therapy. <i>Biomedical Physics and Engineering Express</i> , 2021, 7, 015015.	1.2	1
96	Gamma-Ray Protection Properties of Bismuth-Silicate Glasses against Some Diagnostic Nuclear Medicine Radioisotopes: A Comprehensive Study. <i>Materials</i> , 2021, 14, 6668.	2.9	22
97	The Influence of CoO/P <sub>2</sub> O <sub>5</sub> Substitutions on the Structural, Mechanical, and Radiation Shielding of Boro-Phosphate Glasses. <i>Materials</i> , 2021, 14, 6632.	2.9	3
98	Illustration of distinct nuclear radiation transmission factors combined with physical and elastic characteristics of barium boro-bismuthate glasses. <i>Results in Physics</i> , 2021, 31, 105067.	4.1	26
99	Enhancement of Gamma-ray Shielding Properties in Cobalt-Doped Heavy Metal Borate Glasses: The Role of Lanthanum Oxide Reinforcement. <i>Materials</i> , 2021, 14, 7703.	2.9	33
100	Newly developed tellurium oxide glasses for nuclear shielding applications: An extended investigation. <i>Journal of Non-Crystalline Solids</i> , 2020, 528, 119763.	3.1	56
101	Multi-objective optimization strategies for radiation shielding performance of BZBB glasses using Bi <sub>2</sub> O <sub>3</sub> : A FLUKA Monte Carlo code calculations. <i>Journal of Materials Research and Technology</i> , 2020, 9, 12335-12345.	5.8	53
102	Nb <sub>2</sub> O <sub>5</sub> -Li <sub>2</sub> O-Bi <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> novel glassy system: evaluation of optical, mechanical, and gamma shielding parameters. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 22039-22056.	2.2	31
103	Binary B <sub>2</sub> O <sub>3</sub> -Bi <sub>2</sub> O <sub>3</sub> glasses: scrutinization of directly and indirectly ionizing radiations shielding abilities. <i>Journal of Materials Research and Technology</i> , 2020, 9, 14549-14567.	5.8	63
104	Spectral, electrical, magnetic and radiation shielding studies of Mg-doped Ni-Cu-Zn nanoferrites. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 20210-20222.	2.2	33
105	Experimental investigations on elastic and radiation shielding parameters of WO <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> -TeO <sub>2</sub> glasses. <i>Journal of Non-Crystalline Solids</i> , 2020, 544, 120207.	3.1	35
106	Iron (III) oxide doped lithium borate glasses: structural and charged particles/photon shielding properties. <i>Journal of Non-Crystalline Solids</i> , 2020, 546, 120281.	3.1	20
107	Structural, mechanical and radiation shielding properties of newly developed tungsten lithium borate glasses: An experimental study. <i>Journal of Non-Crystalline Solids</i> , 2020, 532, 119882.	3.1	68
108	Optical, structural and gamma ray shielding properties of dolomite doped lithium borate glasses for radiation shielding applications. <i>Journal of Non-Crystalline Solids</i> , 2020, 539, 120049.	3.1	33

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109	Optical and nuclear radiation shielding properties of zinc borate glasses doped with lanthanum oxide. <i>Journal of Non-Crystalline Solids</i> , 2020, 543, 120151.	3.1	68
110	An in-depth investigation from mechanical durability to structural and nuclear radiation attenuation properties: $B_{2O_3} \cdot Na_2O \cdot Bi_2O_3 \cdot Nb_2O_5$ glasses experience. <i>Physica Scripta</i> , 2020, 95, 105701.	2.5	10
111	Fabrication, physical characteristic, and gamma-photon attenuation parameters of newly developed molybdenum reinforced bismuth borate glasses. <i>Physica Scripta</i> , 2020, 95, 115703.	2.5	34
112	Radiation shielding features using MCNPX code and mechanical properties of the $PbO \cdot Na_2O \cdot B_2O_3 \cdot CaO \cdot Al_2O_3 \cdot SiO_2$ glass systems. <i>Composites Part B: Engineering</i> , 2019, 167, 231-240.	12.0	89
113	Radiation shielding and mechanical properties of $Al_2O_3 \cdot Na_2O \cdot B_2O_3 \cdot Bi_2O_3$ glasses using MCNPX Monte Carlo code. <i>Materials Chemistry and Physics</i> , 2019, 223, 209-219.	4.0	101
114	Variation in the structure and optical properties of gamma-irradiated Vanadyl 2,3-naphthalocyanine (VONc) nanostructure films. <i>Radiation Physics and Chemistry</i> , 2018, 148, 100-105.	2.8	11
115	Investigations of radiation shielding using Monte Carlo method and elastic properties of $PbO \cdot SiO_2 \cdot B_2O_3 \cdot Na_2O$ glasses. <i>Current Applied Physics</i> , 2018, 18, 717-727.	2.4	118
116	Radio-protective properties of some sunblock agents against ionizing radiation. <i>Progress in Nuclear Energy</i> , 2018, 107, 184-192.	2.9	4
117	Gamma ray shielding properties of $TeO_2 \cdot ZnF_2 \cdot As_2O_3 \cdot Sm_2O_3$ glasses. <i>Journal of Alloys and Compounds</i> , 2018, 765, 451-458.	5.5	141
118	Gamma ray shielding properties of $PbO \cdot B_2O_3 \cdot P_2O_5$ doped with $WO_3$ . <i>Journal of Alloys and Compounds</i> , 2017, 708, 294-300.	5.5	114
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