Huseyin O Tekin

List of Publications by Year
in descending order

289 papers	10,095 citations	19657 61 h-index	62596 80 g-index
297 all docs	297 docs citations	297 times ranked	1317 citing authors

#	Article	IF	Citations
1	Effects of micro-sized and nano-sized WO 3 on mass attenauation coefficients of concrete by using MCNPX code. Applied Radiation and Isotopes, 2017, 121, 122-125.	1.5	170
2	An extensive investigation on gamma ray shielding features of Pd/Ag-based alloys. Nuclear Engineering and Technology, 2019, 51, 853-859.	2.3	165
3	Shielding features of concrete types containing sepiolite mineral: Comprehensive study on experimental, XCOM and MCNPX results. Results in Physics, 2018, 11, 40-45.	4.1	127
4	Gamma radiation shielding properties of the hematite-serpentine concrete blended with WO3 and Bi2O3 micro and nano particles using MCNPX code. Radiation Physics and Chemistry, 2018, 150, 95-100.	2.8	126
5	Investigation of structural, thermal properties and shielding parameters for multicomponent borate glasses for gamma and neutron radiation shielding applications. Journal of Non-Crystalline Solids, 2017, 471, 222-237.	3.1	124
6	Amorphous alloys with high Fe content for radiation shielding applications. Radiation Physics and Chemistry, 2021, 183, 109386.	2.8	123
7	Investigations of radiation shielding using Monte Carlo method and elastic properties of PbO-SiO2-B2O3-Na2O glasses. Current Applied Physics, 2018, 18, 717-727.	2.4	118
8	Structure, optical, gamma-ray and neutron shielding properties of NiO doped B2O3â€“BaCO3â€“Li2O3 glass systems. Ceramics International, 2020, 46, 1711-1721.	4.8	117
9	Gamma, neutron shielding and mechanical parameters for lead vanadate glasses. Ceramics International, 2019, 45, 14058-14072.	4.8	116
10	Influence of Bi2O3 concentration on barium-telluro-borate glasses: Physical, structural and radiation-shielding properties. Ceramics International, 2021, 47, 329-340.	4.8	110
11	Optical properties and gamma-shielding features of bismuth borate glasses. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	106
12	Comparative study of gamma-ray shielding and elastic properties of BaOâ€“Bi2O3â€“B2O3 and ZnOâ€“Bi2O3â€“B2O3 glass systems. Materials Chemistry and Physics, 2018, 217, 11-22.	4.0	102
13	The Mass stopping power / projected range and nuclear shielding behaviors of barium bismuth borate glasses and influence of cerium oxide. Ceramics International, 2019, 45, 15348-15357.	4.8	102
14	Evaluation of gamma-ray and neutron shielding features of heavy metals doped Bi2O3-BaO-Na2O-MgO-B2O3 glass systems. Progress in Nuclear Energy, 2020, 118, 103118.	2.9	102
15	Radiation shielding and mechanical properties of Al2O3-Na2O-B2O3-Bi2O3 glasses using MCNPX Monte Carlo code. Materials Chemistry and Physics, 2019, 223, 209-219.	4.0	101
16	Shielding properties of 80TeO2â€“5TiO2â€“(15âˆ’x) WO3â€“xAnOm glasses using WinXCom and MCNP5 code. Radiation Physics and Chemistry, 2017, 141, 172-178.	2.8	98
17	Estimation of gamma radiation shielding qualification of newly developed glasses by using WinXCOM and MCNPX code. Progress in Nuclear Energy, 2019, 115, 12-20.	2.9	97
18	Simulation of shielding parameters for TeO2-WO3-GeO2 glasses using FLUKA code. Results in Physics, 2019, 13, 102199.	4.1	95

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19	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
20	A comparative study on gamma photon shielding features of various germanate glass systems. Composites Part B: Engineering, 2019, 165, 636-647.	12.0	94
21	Investigation of photon shielding performances of some selected alloys by experimental data, theoretical and MCNPX code in the energy range of 81â€¯keVâ€“1333â€¯keV. Journal of Alloys and Compounds, 2019, 772, 516-524.	5.5	94
22	Characterization of SiO2â€“PbOâ€“CdOâ€“Ga2O3 glasses for comprehensive nuclear shielding performance: Alpha, proton, gamma, neutron radiation. Ceramics International, 2019, 45, 19206-19222.	4.8	93
23	Experimental studies and Monte Carlo simulations on gamma ray shielding competence of (30+x)PbO 10WO3 10Na2Oâ€¯â˜â€¯10MgO â€“ (40-x)B2O3 glasses. Progress in Nuclear Energy, 2020, 119, 103047.	2.9	93
24	ZnO-B2O3-PbO glasses: Synthesis and radiation shielding characterization. Physica B: Condensed Matter, 2018, 548, 20-26.	2.7	92
25	Photon and neutron shielding performance of boron phosphate glasses for diagnostic radiology facilities. Results in Physics, 2019, 12, 1457-1464.	4.1	92
26	Nuclear radiation shielding using barium borosilicate glass ceramics. Journal of Physics and Chemistry of Solids, 2020, 142, 109437.	4.0	92
27	Effect of Bi2O3 content on mechanical and nuclear radiation shielding properties of Bi2O3-MoO3-B2O3-SiO2-Na2O-Fe2O3 glass system. Results in Physics, 2019, 13, 102165.	4.1	91
28	Photon shielding characterizations of bismuth modified borate â€“silicateâ€“tellurite glasses using MCNPX Monte Carlo code. Materials Chemistry and Physics, 2018, 211, 9-16.	4.0	89
29	Radiation shielding study of tellurite tungsten glasses with different antimony oxide as transparent shielding materials using MCNPX code. Journal of Non-Crystalline Solids, 2018, 498, 167-172.	3.1	89
30	Structural, UV and shielding properties of ZBPC glasses. Journal of Non-Crystalline Solids, 2019, 509, 99-105.	3.1	89
31	Radiation shielding features using MCNPX code and mechanical properties of the PbO Na2O B2O3CaO Al2O3SiO2 glass systems. Composites Part B: Engineering, 2019, 167, 231-240.	12.0	89
32	Comparative investigations of gamma and neutron radiation shielding parameters for different borate and tellurite glass systems using WinXCom program and MCNPX code. Materials Chemistry and Physics, 2018, 215, 183-202.	4.0	88
33	FTIR, electronic polarizability and shielding parameters of B2O3 glasses doped with SnO2. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	87
34	Evaluation of the shielding parameters of alkaline earth based phosphate glasses using MCNPX code. Results in Physics, 2019, 12, 101-106.	4.1	87
35	Photon attenuation coefficients of different rock samples using MCNPX, Geant4 simulation codes and experimental results: a comparison study. Radiation Effects and Defects in Solids, 2018, 173, 900-914.	1.2	86
36	An investigation on shielding properties of BaO, MoO3 and P2O5 based glasses using MCNPX code. Results in Physics, 2019, 12, 629-634.	4.1	85

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37	MCNP-X Monte Carlo Code Application for Mass Attenuation Coefficients of Concrete at Different Energies by Modeling 3 Ã— 3 Inch NaI(Tl) Detector and Comparison with XCOM and Monte Carlo Data. Science and Technology of Nuclear Installations, 2016, 2016, 1-7.	0.8	84
38	Experimental investigation of photon attenuation behaviors for concretes including natural perlite mineral. Results in Physics, 2019, 12, 237-243.	4.1	84
39	The influence of gallium (Ga) additive on nuclear radiation shielding effectiveness of Pd/Mn binary alloys. Journal of Alloys and Compounds, 2020, 815, 152484.	5.5	84
40	The impact of Cr2O3 additive on nuclear radiation shielding properties of LiFâ€"SrOâ€"B2O3 glass system. Materials Chemistry and Physics, 2020, 242, 122481.	4.0	83
41	The investigation of gamma-ray and neutron shielding parameters of Na2O-CaO-P2O5-SiO2 bioactive glasses using MCNPX code. Results in Physics, 2019, 12, 1797-1804.	4.1	81
42	Er2O3 effects on photon and neutron shielding properties of TeO2-Li2O-ZnO-Nb2O5 glass system. Results in Physics, 2019, 13, 102277.	4.1	80
43	Influence of Bi2O3/WO3 substitution on the optical, mechanical, chemical durability and gamma ray shielding properties of lithium-borate glasses. Ceramics International, 2021, 47, 5286-5299.	4.8	80
44	A comprehensive study of the energy absorption and exposure buildup factors of different bricks for gamma-rays shielding. Results in Physics, 2017, 7, 2528-2533.	4.1	79
45	An extensive investigation on gamma-ray and neutron attenuation parameters of cobalt oxide and nickel oxide substituted bioactive glasses. Ceramics International, 2019, 45, 9934-9949.	4.8	78
46	Radiological parameters of bismuth oxide glasses using the Phy-X/PSD software. Emerging Materials Research, 2020, 9, 1020-1027.	0.7	76
47	Nuclear radiation shielding competences of barium-reinforced borosilicate glasses. Emerging Materials Research, 2020, 9, 1131-1144.	0.7	75
48	The multiple characterization of gamma, neutron and proton shielding performances of xPbO-(99-x)B2O3â€"Sm2O3 glass system. Ceramics International, 2019, 45, 23561-23571.	4.8	74
49	Physical and nuclear shielding properties of newly synthesized magnesium oxide and zinc oxide nanoparticles. Nuclear Engineering and Technology, 2020, 52, 2078-2084.	2.3	74
50	The direct effect of Er₂O₃on bismuth barium telluro borate glasses for nuclear security applications. Materials Research Express, 2019, 6, 115212.	1.6	73
51	The effective contribution of PbO on nuclear shielding properties of xPbO-(100â€‰â^'â€‰x)P2O5 glass system: a broad range investigation. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	72
52	An Investigation on Radiation Protection and Shielding Properties of 16 Slice Computed Tomography (CT) Facilities. International Journal of Computational and Experimental Science and Engineering, 2018, 4, 37-40.	10.0	71
53	Simulations of mass attenuation coefficients for shielding materials using the MCNP-X code. Nuclear Science and Techniques/Hewuli, 2017, 28, 1.	3.4	69
54	Synthesis and nuclear radiation shielding characterization of newly developed germanium oxide and bismuth oxide glasses. Ceramics International, 2019, 45, 24664-24674.	4.8	69

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55	Bioactive glasses and direct effect of increased K2O additive for nuclear shielding performance: A comparative investigation. Ceramics International, 2020, 46, 1323-1333.	4.8	68
56	Structural, mechanical and radiation shielding properties of newly developed tungsten lithium borate glasses: An experimental study. Journal of Non-Crystalline Solids, 2020, 532, 119882.	3.1	68
57	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
58	New transparent rare earth glasses for radiation protection applications. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	67
59	SnO-reinforced silicate glasses and utilization in gamma-radiation-shielding applications. Emerging Materials Research, 2020, 9, 1000-1008.	0.7	67
60	New approach to removal of hazardous Bypass Cement Dust (BCD) from the environment: 20Na2O-20BaCl2-(60-x)B2O3-(x)BCD glass system and Optical, mechanical, structural and nuclear radiation shielding competences. Journal of Hazardous Materials, 2021, 403, 123738.	12.4	66
61	Binary B2O3â€“Bi2O3 glasses: scrutinization of directly and indirectly ionizing radiations shielding abilities. Journal of Materials Research and Technology, 2020, 9, 14549-14567.	5.8	63
62	Effect of CdO addition on photon, electron, and neutron attenuation properties of boro-tellurite glasses. Ceramics International, 2021, 47, 5951-5958.	4.8	63
63	Investigations on borate glasses within SBC-Bx system for gamma-ray shielding applications. Nuclear Engineering and Technology, 2021, 53, 282-293.	2.3	62
64	MoO₃-TeO₂ glass system for gamma ray shielding applications. Materials Research Express, 2020, 7, 025202.	1.6	60
65	Synthesis, structure, optical and gamma radiation shielding properties of B2O3-PbO2-Bi2O3 glasses. Composites Part B: Engineering, 2019, 172, 218-225.	12.0	59
66	Newly developed tellurium oxide glasses for nuclear shielding applications: An extended investigation. Journal of Non-Crystalline Solids, 2020, 528, 119763.	3.1	56
67	Synthesis, physical, optical, mechanical, and radiation attenuation properties of TiO2â€“Na2Oâ€“Bi2O3â€“B2O3 glasses. Ceramics International, 2021, 47, 185-204.	4.8	55
68	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
69	Assessment of the Willingness of Radiologists and Radiographers to Accept the Integration of Artificial Intelligence Into Radiology Practice. Academic Radiology, 2022, 29, 87-94.	2.5	54
70	Radiation shielding properties of pentaternary borate glasses using MCNPX code. Journal of Physics and Chemistry of Solids, 2018, 121, 17-21.	4.0	53
71	Characterization of a broad range gamma-ray and neutron shielding properties of MgO-Al2O3-SiO2-B2O3 and Na2O-Al2O3-SiO2 glass systems. Journal of Non-Crystalline Solids, 2019, 518, 92-102.	3.1	53
72	Multi-objective optimization strategies for radiation shielding performance of BZBB glasses using Bi2O3: A FLUKA Monte Carlo code calculations. Journal of Materials Research and Technology, 2020, 9, 12335-12345.	5.8	53

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73	MCNPX Simulation for Radiation Dose Absorption of Anatomical Regions and Some Organs. Acta Physica Polonica A, 2020, 137, 561-565.	0.5	53
74	Ytterbium (III) oxide reinforced novel TeO2â€"B2O3â€"V2O5 glass system: Synthesis and optical, structural, physical and thermal properties. Ceramics International, 2021, 47, 18517-18531.	4.8	52
75	Newly developed Zinc-Tellurite glass system: An experimental investigation on impact of Ta2O5 on nuclear radiation shielding ability. Journal of Non-Crystalline Solids, 2020, 544, 120169.	3.1	51
76	Enhancement of nuclear radiation shielding and mechanical properties of YBiBO3 glasses using La2O3. Nuclear Engineering and Technology, 2020, 52, 1297-1303.	2.3	50
77	The influence of heavy elements on the ionizing radiation shielding efficiency and elastic properties of some tellurite glasses: Theoretical investigation. Results in Physics, 2020, 19, 103496.	4.1	50
78	Photon and neutron shielding characteristics of samarium doped lead alumino borate glasses containing barium, lithium and zinc oxides determined at medical diagnostic energies. Results in Physics, 2019, 12, 2123-2128.	4.1	49
79	Gamma shielding and compressive strength analyses of polyester composites reinforced with zinc: an experiment, theoretical, and simulation based study. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	49
80	Structural and nuclear radiation shielding properties of bauxite ore doped lithium borate glasses: Experimental and Monte Carlo study. Radiation Physics and Chemistry, 2019, 162, 187-193.	2.8	47
81	Improvement of mechanical properties and radiation shielding performance of AlBiBO3 glasses using yttria: An experimental investigation. Ceramics International, 2020, 46, 3534-3542.	4.8	47
82	Investigation of radiation shielding properties for Bi2O3 - V2O5 - TeO2 glass system using MCNP5 code. Journal of Non-Crystalline Solids, 2018, 499, 32-40.	3.1	46
83	Gamma photon and neutron attenuation properties of MgOâ€"BaOâ€"B2O3â€"TeO2â€"Cr2O3 glasses: The role of TeO2. Radiation Physics and Chemistry, 2019, 163, 58-66.	2.8	46
84	Fabrication, FTIR, physical characteristics and photon shielding efficacy of CeO2 /sand reinforced borate glasses: Experimental and simulation studies. Radiation Physics and Chemistry, 2022, 191, 109837.	2.8	46
85	Physical, structural, and radiation shielding properties of B2O3â€"MgOâ€"K2Oâ€"Sm2O3 glass network modified with TeO2. Radiation Physics and Chemistry, 2019, 160, 75-82.	2.8	45
86	A comprehensive study on novel alumino-borosilicate glass reinforced with Bi2O3 for radiation shielding applications: synthesis, spectrometer, XCOM, and MCNP-X works. Journal of Materials Science: Materials in Electronics, 2021, 32, 13882-13896.	2.2	45
87	A detailed investigation on highly dense CuZr bulk metallic glasses for shielding purposes. Open Chemistry, 2022, 20, 69-80.	1.9	45
88	A journey for exploration of Eu2O3 reinforcement effect on zinc-borate glasses: Synthesis, optical, physical and nuclear radiation shielding properties. Ceramics International, 2021, 47, 2572-2583.	4.8	44
89	Charged particles and gamma-ray shielding features of oxyfluoride semiconducting glasses: TeO2-Ta2O5-ZnO/ZnF2. Ceramics International, 2020, 46, 25035-25042.	4.8	43
90	Calculation of Detection Efficiency for the Gamma Detector using MCNPX. Acta Physica Polonica A, 2015, 128, B-332-B-335.	0.5	43

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91	Shielding behaviour of (20â€¯+â€¯x) Bi2O3 â€“ 20BaOâ€“10Na2Oâ€“10MgOâ€“(40-x) B2O3: An experimental and Monte Carlo study. Chemical Physics, 2020, 529, 110571.	1.9	42
92	The radiology workforce's response to the COVID-19 pandemic in the Middle East, North Africa and India. Radiography, 2021, 27, 360-368.	2.1	41
93	Nuclear shielding properties of B2O3â€“Pb3O4â€“ZnO glasses: Multiple impacts of Er2O3 additive. Ceramics International, 2020, 46, 27849-27859.	4.8	40
94	Structural and physical characterization study on synthesized tellurite (TeO2) and germanate (GeO2) glass shields using XRD, Raman spectroscopy, FLUKA and PHITS. Optical Materials, 2020, 110, 110533.	3.6	40
95	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
96	Synergistic effect of La2O3 on mass stopping power (MSP)/projected range (PR) and nuclear radiation shielding abilities of silicate glasses. Results in Physics, 2019, 14, 102424.	4.1	39
97	Correlate the structural changes to gamma radiation shielding performance evaluation for some calcium bismuth-borate glasses containing Nb2O5. Physica B: Condensed Matter, 2019, 567, 109-112.	2.7	39
98	Physical, neutron, and gamma-rays shielding parameters for Na₂Oâ€“SiO₂â€“PbO glasses. Emerging Materials Research, 2021, 10, 227-237.	0.7	38
99	Gamma, neutron, and heavy charged ion shielding properties of Er³⁺-doped and Sm³⁺-doped zinc borate glasses. Open Chemistry, 2022, 20, 130-145.	1.9	38
100	Lithium-fluoro borotellurite glasses: Nonlinear optical, mechanical characteristics and gamma radiation protection characteristics. Radiation Physics and Chemistry, 2022, 190, 109819.	2.8	37
101	Measurement of mass attenuation coefficients, effective atomic numbers, and electron densities for different parts of medicinal aromatic plants in low-energy region. Nuclear Science and Techniques/Hewuli, 2018, 29, 1.	3.4	36
102	Studies on the structural, optical and radiation shielding properties of (50 â€“ x) PbO â€“ 10 WO3â€“10 Na2O â€“ 10 MgO â€“ (20â€¯+â€¯x) B2O3 glasses. Journal of Non-Crystalline Solids, 2019, 513, 159-166.	3.1	36
103	Glass fabrication using ceramic and porcelain recycled waste and lithium niobate: physical, structural, optical and nuclear radiation attenuation properties. Journal of Materials Research and Technology, 2021, 15, 4074-4085.	5.8	36
104	Physical, thermal, optical, structural and nuclear radiation shielding properties of Sm2O3 reinforced borotellurite glasses. Ceramics International, 2021, 47, 6154-6168.	4.8	35
105	An extended assessment of natural radioactivity in the sediments of the mid-region of the Egyptian Red Sea coast. Marine Pollution Bulletin, 2021, 171, 112658.	5.0	35
106	The effective role of La2O3 contribution on zinc borate glasses: radiation shielding and mechanical properties. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	34
107	Fabrication, physical characteristic, and gamma-photon attenuation parameters of newly developed molybdenum reinforced bismuth borate glasses. Physica Scripta, 2020, 95, 115703.	2.5	34
108	Stuctural, optical and radiation shielding properties of zinc boro-tellurite alumina glasses. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	33

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109	Optical, structural and gamma ray shielding properties of dolomite doped lithium borate glasses for radiation shielding applications. Journal of Non-Crystalline Solids, 2020, 539, 120049.	3.1	33
110	Detailed Inspection of Î³-ray, Fast and Thermal Neutrons Shielding Competence of Calcium Oxide or Strontium Oxide Comprising Bismuth Borate Glasses. Materials, 2021, 14, 2265.	2.9	33
111	An experimental evaluation of CdO/PbO-B2O3 glasses containing neodymium oxide: Structure, electrical conductivity, and gamma-ray resistance. Materials Research Bulletin, 2022, 151, 111828.	5.2	33
112	Enhancement of Gamma-ray Shielding Properties in Cobalt-Doped Heavy Metal Borate Glasses: The Role of Lanthanum Oxide Reinforcement. Materials, 2021, 14, 7703.	2.9	33
113	A Systematical Characterization of TeO2â€“V2O5 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
114	Fabrication, structural, optical, physical and radiation shielding characterization of indium (III) oxide reinforced 85TeO2-(15â€“x)ZnO-xIn2O3 glass system. Ceramics International, 2021, 47, 27305-27315.	4.8	32
115	Synthesis and structural, optical, physical properties of Gadolinium (III) oxide reinforced TeO2â€“B2O3â€“(20-x)Li2O-xGd2O3 glass system. Journal of Alloys and Compounds, 2021, 877, 160302.	5.5	32
116	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. Ceramics International, 2022, 48, 6780-6791.	4.8	32
117	Bioactive glasses with TiO2 additive: Behavior characterization against nuclear radiation and determination of buildup factors. Ceramics International, 2020, 46, 10779-10787.	4.8	31
118	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.	2.2	31
119	Prediction of mechanical and radiation parameters of glasses with high Bi2O3 concentration. Results in Physics, 2021, 21, 103839.	4.1	31
120	Material characterization of WO3/Bi2O3 substituted calcium-borosilicate glasses: Structural, physical, mechanical properties and gamma-ray resistance competencies. Journal of Alloys and Compounds, 2021, 888, 161419.	5.5	31
121	Experimental and FLUKA evaluation on structure and optical properties and Î³-radiation shielding capacity of bismuth borophosphate glasses. Progress in Nuclear Energy, 2022, 148, 104219.	2.9	31
122	Mechanical and nuclear shielding properties of sodium cadmium borate glasses: Impact of cadmium oxide additive. Ceramics International, 2020, 46, 2661-2669.	4.8	30
123	Probing of nuclear radiation attenuation and mechanical features for lithium bismuth borate glasses with improving Bi2O3 content for B2O3Â+ÂLi2O amounts. Results in Physics, 2021, 25, 104246.	4.1	30
124	Mechanical, physical and gamma ray shielding properties of xPbO-(50-x) MoO3â€“50V2O5 (25 â‰ x â‰ 45Âmol) Tj ETQq0 0 0 rgBT /C	4.8	29
125	Characterization of Ultramaficâ€“Alkalineâ€“Carbonatite complex for radiation shielding competencies: An experimental and Monte Carlo study with lithological mapping. Ore Geology Reviews, 2022, 142, 104735.	2.7	29
126	Synthesis and experimental characterization on fast neutron and gamma-ray attenuation properties of high-dense and transparent Cadmium oxide (CdO) glasses for shielding purposes. Ceramics International, 2022, 48, 23444-23451.	4.8	29

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127	Bi2O3-B2O3-ZnO-BaO-Li2O glass system for gamma ray shielding applications. Optik, 2020, 201, 163525.	2.9	28
128	Newly developed BGO glasses: Synthesis, optical and nuclear radiation shielding properties. Ceramics International, 2020, 46, 11861-11873.	4.8	28
129	Neutron-shielding behaviour investigations of some clay-materials. Nuclear Engineering and Technology, 2019, 51, 1444-1450.	2.3	27
130	Two-step investigation on fabrication and characterization of iron-reinforced novel composite materials for nuclear-radiation shielding applications. Journal of Physics and Chemistry of Solids, 2020, 146, 109604.	4.0	27
131	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
132	Cerium (IV) oxide reinforced Lithium-Borotellurite glasses: A characterization study through physical, optical, structural and radiation shielding properties. Ceramics International, 2022, 48, 1152-1165.	4.8	27
133	Sodium dodecatungstophosphate hydrate-filled polymer composites for nuclear radiation shielding. Materials Chemistry and Physics, 2020, 256, 123667.	4.0	26
134	Comparative evaluation of nuclear radiation shielding properties of xTeO2â€‰+â€‰(100â€“x)Li2O glass system. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	26
135	Shielding features, to non-ionizing and ionizing photons, of FeCr-based composites. Applied Radiation and Isotopes, 2021, 167, 109470.	1.5	26
136	Effect of Heat Treatment on Radiation Shielding Properties of Concretes. Journal of Radiation Protection and Research, 2018, 43, 20-28.	0.6	26
137	Illustration of distinct nuclear radiation transmission factors combined with physical and elastic characteristics of barium boro-bismuthate glasses. Results in Physics, 2021, 31, 105067.	4.1	26
138	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
139	Gamma ray shielding studies on 26.66 B₂O₃â€“16GeO₂â€“4Bi₂O₃â€“(53.33â€“x) PbOâ€“xPbF₂ glass system using MCNPX, Geant4 and XCOM. Materials Research Express, 2018, 5, 095203.	1.6	24
140	CdO-rich quaternary tellurite glasses for nuclear safety purposes: Synthesis and experimental gamma-ray and neutron radiation assessment of high-density and transparent samples. Optical Materials, 2022, 129, 112512.	3.6	24
141	A rapid and direct method for half value layer calculations for nuclear safety studies using MCNPX Monte Carlo code. Nuclear Engineering and Technology, 2022, 54, 3317-3323.	2.3	23
142	Heavy metal oxide (HMO) glasses as an effective member of glass shield family: A comprehensive characterization on gamma ray shielding properties of various structures. Journal of Materials Research and Technology, 2022, 18, 231-244.	5.8	23
143	Investigation of gamma-ray shielding properties of bismuth borotellurite glasses using MCNPX code and XCOM program. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	22
144	Gamma-Ray Protection Properties of Bismuth-Silicate Glasses against Some Diagnostic Nuclear Medicine Radioisotopes: A Comprehensive Study. Materials, 2021, 14, 6668.	2.9	22

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145	Relationship Between Hallux Valgus and Pes Planus: Real or Fiction?. Journal of Foot and Ankle Surgery, 2020, 59, 513-517.	1.0	21
146	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
147	Investigation of Nanoparticle Effect on Radiation Shielding Property Using Monte Carlo Method. Celal Bayar Universitesi Fen Bilimleri Dergisi, 2016, 12, .	0.5	21
148	Petrology and geochemistry of multiphase post-granitic dikes: A case study from the Gabal Serbal area, Southwestern Sinai, Egypt. Open Chemistry, 2022, 20, 169-181.	1.9	21
149	Iron (III) oxide doped lithium borate glasses: structural and charged particles/photon shielding properties. Journal of Non-Crystalline Solids, 2020, 546, 120281.	3.1	20
150	Relationship between melting-conditions and gamma shielding performance of fluoro-sulfo-phosphate (FPS) glass systems: A comparative investigation. Ceramics International, 2020, 46, 15255-15269.	4.8	20
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