Mohammad Hasan Abu Mhareb

List of Publications by Year
in descending order

74 papers	2,476 citations	147801 31 h-index	223800 46 g-index
74 all docs	74 docs citations	74 times ranked	893 citing authors

#	Article	IF	Citations
1	Physical and spectroscopic characteristics of lithium-aluminium-borate glass: Effects of varying Nd2O3 doping contents. Journal of Non-Crystalline Solids, 2022, 575, 121214.	3.1	26
2	The role of different modifiers on radiation shielding, optical, and physical properties for strontium boro-tellurite glass. Ceramics International, 2022, 48, 15984-15991.	4.8	18
3	Radiation shielding features for a new glass system based on tellurite oxide. Radiation Physics and Chemistry, 2022, 200, 110094.	2.8	12
4	Radiation shielding and structural features for different perovskites doped YBa2Cu3Oy composites. Ceramics International, 2022, 48, 18855-18865.	4.8	10
5	Effect of TeO2 addition on the gamma radiation shielding competence and mechanical properties of boro-tellurite glass: an experimental approach. Journal of Materials Research and Technology, 2022, 18, 1017-1027.	5.8	41
6	Effect of different modifiers on mechanical and radiation shielding properties of SrO-B2O3-TeO2 glass system. Optik, 2022, 257, 168823.	2.9	10
7	Structural and radiation shielding features for BaSn1-xZnxO3 perovskite. Physica B: Condensed Matter, 2022, 638, 413925.	2.7	9
8	Effects of TiO2, V2O5, MnO2 and Tl2O3 on structural, physical, optical and ionizing radiation shielding properties of strontium boro-tellurite glass: An experimental study. Optical Materials, 2022, 127, 112350.	3.6	19
9	Novel efficient alloys for ionizing radiation shielding applications: A theoretical investigation. Radiation Physics and Chemistry, 2022, 200, 110181.	2.8	11
10	Assessment of radiation attenuation properties for novel alloys: An experimental approach. Radiation Physics and Chemistry, 2022, 200, 110152.	2.8	26
11	Structural, magnetic and gamma-ray shielding features of Zn doped Mg2FeTiO6 double perovskite. Physica B: Condensed Matter, 2022, 640, 414024.	2.7	5
12	Investigation of Gammaâ€Radiation Shielding Properties of Cadmium Bismuth Borate Glass Experimentally and by Using XCOM Program and MCNP5 Code. Physica Status Solidi (B): Basic Research, 2021, 258, 2000417.	1.5	6
13	Investigation of photon, neutron and proton shielding features of H3BO3â€“ZnOâ€“Na2Oâ€“BaO glass system. Nuclear Engineering and Technology, 2021, 53, 949-959.	2.3	61
14	A comprehensive ionizing radiation shielding study of FexSe0.5Te0.5 alloys with various iron concentrations. Journal of Alloys and Compounds, 2021, 858, 157636.	5.5	49
15	Physical, structural, optical and gammaâ€ray shielding properties of Na₂Oâ€CdOâ€Bi₂O₃â€B₂O₃ glasses. International Journal of Applied Glass Science, 2021, 12, 259-273.	2.0	7
16	Structural and radiation shielding features for a new series of borate glass samples: part I. European Physical Journal Plus, 2021, 136, 1.	2.6	17
17	Structural, optical and radiation shielding properties of Zirconiumâ€“Titaniumâ€“Thallium Ternary Oxide (0.5ZrO2-(0.5-x)TiO2-xTl2O3). Ceramics International, 2021, 47, 21837-21847.	4.8	11
18	Structural, optical, and radiation shielding features for a series of borate glassy system modified by molybdenum oxide. European Physical Journal Plus, 2021, 136, 1.	2.6	14

#	Article	IF	Citations
19	Gamma radiation shielding and structural features for barium strontium boro-tellurite glass modified with various concentrations of molybdenum oxide. Journal of Non-Crystalline Solids, 2021, 559, 120658.	3.1	18
20	Determination of structural features of different Perovskite ceramics and investigation of ionizing radiation shielding properties. Journal of Materials Science: Materials in Electronics, 2021, 32, 20867-20881.	2.2	31
21	A new heavy-mineral doped clay brick for gamma-ray protection purposes. Applied Radiation and Isotopes, 2021, 173, 109720.	1.5	15
22	Optical and radiation shielding features for a new series of borate glass samples. Optik, 2021, 239, 166790.	2.9	101
23	Fabrication, characterization of neutron and proton shielding investigation of tungsten oxide dispersed-ultra high Mw polyethylene. Chemical Physics, 2021, 548, 111227.	1.9	9
24	Radiation shielding features for various tellurium-based alloys: a comparative study. Journal of Materials Science: Materials in Electronics, 2021, 32, 26798-26811.	2.2	40
25	Ionizing radiation shielding features for titanium borosilicate glass modified with different concentrations of barium oxide. Materials Chemistry and Physics, 2021, 272, 125047.	4.0	50
26	Durability, optical and radiation shielding properties for new series of boro-tellurite glass. Optik, 2021, 245, 167667.	2.9	21
27	The impact of TeO2 on physical, structural, optical and radiation shielding features for borate glass samples. Optik, 2021, 247, 167924.	2.9	17
28	Development of a novel MoO3-doped borate glass network for gamma-ray shielding applications. European Physical Journal Plus, 2021, 136, 1.	2.6	34
29	Impact of Modifier Oxides on Mechanical and Radiation Shielding Properties of B2O3-SrO-TeO2-RO Glasses (Where RO = TiO2, ZnO, BaO, and PbO). Applied Sciences (Switzerland), 2021, 11, 10904.	2.5	36
30	Bi2O3-B2O3-ZnO-BaO-Li2O glass system for gamma ray shielding applications. Optik, 2020, 201, 163525.	2.9	28
31	Investigation of gamma ray attenuation features of bismuth oxide nano powder reinforced high-density polyethylene matrix composites. Radiation Physics and Chemistry, 2020, 168, 108537.	2.8	59
32	Dosimetric features and kinetic parameters of a glass system dosimeter. Luminescence, 2020, 35, 525-533.	2.9	3
33	Physical, optical and shielding features of Li2Oâ€“B2O3â€“MgOâ€“Er2O3 glasses co-doped of Sm2O3. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	71
34	Theoretical and experimental validation gamma shielding properties of B2O3â€“ZnOâ€“MgOâ€“Bi2O3 glass system. Materials Chemistry and Physics, 2020, 242, 122504.	4.0	36
35	Germanate oxide impacts on the optical and gamma radiation shielding properties of TeO2-ZnO-Li2O glass system. Journal of Non-Crystalline Solids, 2020, 546, 120272.	3.1	50
36	Impact of Dy2O3 Substitution on the Physical, Structural and Optical Properties of Lithiumâ€“Aluminiumâ€“Borate Glass System. Applied Sciences (Switzerland), 2020, 10, 8183.	2.5	22

#	Article	IF	Citations
37	Structural and radiation shielding properties of BaTiO3 ceramic with different concentrations of Bismuth and Ytterbium. Ceramics International, 2020, 46, 28877-28886.	4.8	96
38	Physical, structural, and shielding properties of cadmium bismuth borate-based glasses. Journal of Applied Physics, 2020, 127, .	2.5	34
39	Physical, structural, optical, and radiation shielding properties of B2O3- 20Bi2O3- 20Na2O2- Sb2O3 glasses: Role of Sb2O3. Journal of Non-Crystalline Solids, 2020, 543, 120130.	3.1	64
40	MoO3 reinforced Ultra high molecular weight PE for neutrons shielding applications. Radiation Physics and Chemistry, 2020, 172, 108852.	2.8	35
41	Novel tellurite glass (60-x)TeO2â€“10GeO2 -20ZnOâ€“10BaO - xBi2O3 for radiation shielding. Journal of Alloys and Compounds, 2020, 844, 155668.	5.5	52
42	Physical, structural, optical and gamma radiation attenuation properties of germanate-tellurite glasses for shielding applications. Journal of Non-Crystalline Solids, 2020, 545, 120250.	3.1	55
43	Radiation shielding properties of bismuth borate glasses doped with different concentrations of cadmium oxides. Ceramics International, 2020, 46, 12718-12726.	4.8	113
44	The impact of barium oxide on physical, structural, optical, and shielding features of sodium zinc borate glass. Journal of Non-Crystalline Solids, 2020, 541, 120090.	3.1	60
45	Radiation shielding properties of Nd0.6Sr0.4Mn1â^'yNiyO3 substitute with different concentrations of nickle. Radiation Physics and Chemistry, 2020, 174, 108920.	2.8	35
46	Radiation shielding, structural, physical, and optical properties for a series of borosilicate glass. Journal of Non-Crystalline Solids, 2020, 550, 120360.	3.1	66
47	Effect of co-doping of lithium on the dosimetric properties of dysprosium-doped sodium borate glass system. Physica B: Condensed Matter, 2019, 558, 142-145.	2.7	12
48	Physical, structural, optical and photons attenuation attributes of lithium-magnesium-borate glasses: Role of Tm2O3 doping. Optik, 2019, 182, 821-831.	2.9	57
49	Structural, optical, and shielding investigations of TeO2â€“GeO2â€“ZnOâ€“Li2Oâ€“Bi2O3 glass system for radiation protection applications. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	35
50	A study of gamma attenuation property of UHMWPE/Bi2O3 nanocomposites. Chemical Physics, 2019, 523, 92-98.	1.9	51
51	Borate multicomponent of bismuth rich glasses for gamma radiation shielding application. Radiation Physics and Chemistry, 2019, 161, 77-82.	2.8	39
52	The effectiveness of bismuth breast shielding with protocol optimization in CT Thorax examination. Journal of X-Ray Science and Technology, 2019, 27, 139-147.	1.0	9
53	Glow curve analysis of glassy system dosimeter subjected to photon and electron irradiations. Results in Physics, 2018, 10, 772-776.	4.1	11
54	Physical and optical properties of sodium borate glasses doped with Dy3+ ions. International Journal of Modern Physics B, 2017, 31, 1750171.	2.0	14

#	Article	IF	Citations
55	Estimation of radiation cancer risk in CT-KUB. Radiation Physics and Chemistry, 2017, 137, 130-134.	2.8	13
56	Luminescence features of dysprosium and phosphorus oxide co-doped lithium magnesium borate glass. Radiation Physics and Chemistry, 2017, 137, 45-48.	2.8	31
57	Impact of Eu3+ Ions on Physical and Optical Properties of Li2O-Na2O-B2O3 Glass. Chinese Journal of Chemical Physics, 2016, 29, 395-400.	1.3	23
58	Photoluminescence and thermoluminescence properties of Li₂Oâ€Na₂Oâ€B₂O₃ glass. Luminescence, 2016, 31, 754-759.	2.9	7
59	Effect of Dy2O3 impurities on the physical, optical and thermoluminescence properties of lithium borate glass. Journal of Luminescence, 2016, 177, 366-372.	3.1	81
60	Luminescence characteristics of Li2Oâ€“MgOâ€“B2O3 doped with Dy3+ as a solid TL detector. Radiation Physics and Chemistry, 2015, 116, 138-141.	2.8	27
61	Influences of dysprosium and phosphorous oxides co-doping on thermoluminescence features and kinetic parameters of lithium magnesium borate glass. Journal of Radioanalytical and Nuclear Chemistry, 2015, 305, 469-477.	1.5	25
62	Thermoluminescence properties of lithium magnesium borate glasses system doped with dysprosium oxide. Luminescence, 2015, 30, 1330-1335.	2.9	23
63	Optical and erbium ion concentration correlation in lithium magnesium borate glass. Optik, 2015, 126, 3638-3643.	2.9	32
64	Structural and optical properties of lithium sodium borate glasses doped with Sm³⁺ ions. International Journal of Modern Physics B, 2014, 28, 1450182.	2.0	2
65	Natural environmental radioactivity and the corresponding health risk in Johor Bahru District, Johor, Malaysia. Journal of Radioanalytical and Nuclear Chemistry, 2014, 303, 1753.	1.5	5
66	Physical and optical properties of Li2O-MgO-B2O3 doped with Dy3+. Optics and Spectroscopy (English) Tj ETQq0 0 0 rgBT /Overlock 10	0.6	27
67	Physical and optical properties of Li2Oâ€“MgOâ€“B2O3 doped with Sm3+. Journal of Molecular Structure, 2014, 1060, 6-10.	3.6	30
68	The effect of europium oxide impurity on the optical and physical properties of lithium potassium borate glass. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2014, 117, 56-60.	0.6	2
69	Impact of Nd3+ ions on physical and optical properties of Lithium Magnesium Borate glass. Optical Materials, 2014, 37, 391-397.	3.6	97
70	Optical and structural properties of lithium sodium borate glasses doped Dy3+ ions. Journal of Molecular Structure, 2014, 1075, 113-117.	3.6	47
71	Copper doped borate dosimeters revisited. Journal of Luminescence, 2014, 155, 141-148.	3.1	17
72	Physical and optical properties of Dy3+: Li2Oâ€“K2Oâ€“B2O3 glasses. Journal of Molecular Structure, 2014, 1076, 20-25.	3.6	96

#	Article	IF	Citations
73	Assessment of radiological health implicat from ambient environment in the Muar district, Johor, Malaysia. Radiation Physics and Chemistry, 2014, 103, 243-252.	2.8	22
74	Thermoluminescence dosimetry properties and kinetic parameters of lithium potassium borate glass co-doped with titanium and magnesium oxides. Applied Radiation and Isotopes, 2014, 91, 126-130.	1.5	38