

M I Sayyed

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474
papers

11,471
citations

63
h-index

81
g-index

517
ext. papers

15,431
ext. citations

3.3
avg, IF

7.92
L-index

#	Paper	IF	Citations
474	Phy-X / PSD: Development of a user friendly online software for calculation of parameters relevant to radiation shielding and dosimetry. <i>Radiation Physics and Chemistry</i> , 2020 , 166, 108496	2.5	410
473	Attenuation coefficients and exposure buildup factor of some rocks for gamma ray shielding applications. <i>Radiation Physics and Chemistry</i> , 2018 , 148, 86-94	2.5	175
472	Bismuth modified shielding properties of zinc boro-tellurite glasses. <i>Journal of Alloys and Compounds</i> , 2016 , 688, 111-117	5.7	153
471	An extensive investigation on gamma ray shielding features of Pd/Ag-based alloys. <i>Nuclear Engineering and Technology</i> , 2019 , 51, 853-859	2.6	128
470	Comparative study of gamma ray shielding competence of WO ₃ -TeO ₂ -PbO glass system to different glasses and concretes. <i>Materials Chemistry and Physics</i> , 2018 , 213, 508-517	4.4	125
469	Physical, structural, optical and gamma radiation shielding properties of borate glasses containing heavy metals (Bi ₂ O ₃ /MoO ₃). <i>Journal of Non-Crystalline Solids</i> , 2019 , 507, 30-37	3.9	122
468	Fabrication, optical, structural and gamma radiation shielding characterizations of GeO ₂ -PbO-Al ₂ O ₃ -CaO glasses. <i>Ceramics International</i> , 2020 , 46, 2055-2062	5.1	112
467	Gamma ray shielding properties of TeO ₂ -ZnF ₂ -As ₂ O ₃ -Sm ₂ O ₃ glasses. <i>Journal of Alloys and Compounds</i> , 2018 , 765, 451-458	5.7	110
466	Variation of energy absorption and exposure buildup factors with incident photon energy and penetration depth for boro-tellurite (B ₂ O ₃ -TeO ₂) glasses. <i>Radiation Physics and Chemistry</i> , 2017 , 130, 335-342	2.5	108
465	Shielding features of concrete types containing sepiolite mineral: Comprehensive study on experimental, XCOM and MCNPX results. <i>Results in Physics</i> , 2018 , 11, 40-45	3.7	103
464	Investigation of gamma radiation shielding properties of lithium zinc bismuth borate glasses using XCOM program and MCNP5 code. <i>Journal of Non-Crystalline Solids</i> , 2017 , 468, 12-16	3.9	101
463	Half value layer, mean free path and exposure buildup factor for tellurite glasses with different oxide compositions. <i>Journal of Alloys and Compounds</i> , 2017 , 695, 3191-3197	5.7	101
462	Gamma radiation shielding properties of the hematite-serpentine concrete blended with WO ₃ and Bi ₂ O ₃ micro and nano particles using MCNPX code. <i>Radiation Physics and Chemistry</i> , 2018 , 150, 95-100	2.5	100
461	Comparative shielding properties of some tellurite glasses: Part 2. <i>Journal of Non-Crystalline Solids</i> , 2017 , 474, 16-23	3.9	97
460	X-ray photons attenuation characteristics for two tellurite based glass systems at dental diagnostic energies. <i>Ceramics International</i> , 2020 , 46, 251-257	5.1	96
459	Investigation of structural, thermal properties and shielding parameters for multicomponent borate glasses for gamma and neutron radiation shielding applications. <i>Journal of Non-Crystalline Solids</i> , 2017 , 471, 222-237	3.9	95
458	Investigations of radiation shielding using Monte Carlo method and elastic properties of PbO-SiO ₂ -B ₂ O ₃ -Na ₂ O glasses. <i>Current Applied Physics</i> , 2018 , 18, 717-727	2.6	93

457	Investigation of shielding parameters for smart polymers. <i>Chinese Journal of Physics</i> , 2016 , 54, 408-415	3.5	93
456	A comprehensive study on the effect of TeO ₂ on the radiation shielding properties of TeO ₂ B ₂ O ₃ Bi ₂ O ₃ LiFBrCl ₂ glass system using Phy-X / PSD software. <i>Ceramics International</i> , 2020 , 46, 6136-6140	5.1	91
455	Comprehensive study on physical, elastic and shielding properties of lead zinc phosphate glasses. <i>Journal of Non-Crystalline Solids</i> , 2017 , 457, 97-103	3.9	90
454	Study of gamma radiation attenuation properties of some selected ternary alloys. <i>Journal of Alloys and Compounds</i> , 2019 , 782, 315-322	5.7	90
453	Shielding properties of 80TeO ₂ BTiO ₂ (15x) WO ₃ ANom glasses using WinXCom and MCNP5 code. <i>Radiation Physics and Chemistry</i> , 2017 , 141, 172-178	2.5	89
452	Radiation shielding competence of newly developed TeO ₂ -WO ₃ glasses. <i>Journal of Alloys and Compounds</i> , 2017 , 696, 632-638	5.7	89
451	Evaluation of gamma-ray and neutron attenuation properties of some polymers. <i>Nuclear Engineering and Technology</i> , 2019 , 51, 818-824	2.6	89
450	Radiation shielding and mechanical properties of Al ₂ O ₃ -Na ₂ O-B ₂ O ₃ -Bi ₂ O ₃ glasses using MCNPX Monte Carlo code. <i>Materials Chemistry and Physics</i> , 2019 , 223, 209-219	4.4	85
449	Physical, structural, optical and gamma ray shielding behavior of (20+x) PbO (10 BaO (10 Na ₂ O (10 MgO ((50-x) B ₂ O ₃ glasses. <i>Physica B: Condensed Matter</i> , 2019 , 552, 110-118	2.8	82
448	Investigations of gamma ray and fast neutron shielding properties of tellurite glasses with different oxide compositions. <i>Canadian Journal of Physics</i> , 2016 , 94, 1133-1137	1.1	81
447	Gamma ray shielding properties of PbO-B ₂ O ₃ -P ₂ O ₅ doped with WO ₃ . <i>Journal of Alloys and Compounds</i> , 2017 , 708, 294-300	5.7	80
446	Optical properties and gamma-shielding features of bismuth borate glasses. <i>Applied Physics A: Materials Science and Processing</i> , 2018 , 124, 1	2.6	80
445	Investigation on gamma and neutron radiation shielding parameters for BaO/SrO-Bi ₂ O ₃ -B ₂ O ₃ glasses. <i>Radiation Physics and Chemistry</i> , 2018 , 145, 26-33	2.5	78
444	Investigations of the physical, structural, optical and gamma-rays shielding features of B ₂ O ₃ (Bi ₂ O ₃ (ZnO (CaO glasses. <i>Ceramics International</i> , 2019 , 45, 20724-20732	5.1	76
443	Radiation shielding study of tellurite tungsten glasses with different antimony oxide as transparent shielding materials using MCNPX code. <i>Journal of Non-Crystalline Solids</i> , 2018 , 498, 167-172	3.9	75
442	Investigation of photon shielding performances of some selected alloys by experimental data, theoretical and MCNPX code in the energy range of 81 keV-333 keV. <i>Journal of Alloys and Compounds</i> , 2019 , 772, 516-524	5.7	75
441	Physical, structural, optical investigation and shielding features of tungsten bismuth tellurite based glasses. <i>Journal of Non-Crystalline Solids</i> , 2019 , 503-504, 158-168	3.9	75
440	Bioactive glasses and the impact of Si ₃ N ₄ doping on the photon attenuation up to radiotherapy energies. <i>Ceramics International</i> , 2020 , 46, 5306-5314	5.1	74

439	The Mass stopping power / projected range and nuclear shielding behaviors of barium bismuth borate glasses and influence of cerium oxide. <i>Ceramics International</i> , 2019 , 45, 15348-15357	5.1	73
438	Shielding properties of (100-x)TeO ₂ (x)MoO ₃ glasses. <i>Materials Chemistry and Physics</i> , 2017 , 201, 50-56	4.4	72
437	Effect Bi ₂ O ₃ on the physical, structural and radiation shielding properties of Er ³⁺ ions doped bismuth sodium fluoroborate glasses. <i>Journal of Non-Crystalline Solids</i> , 2018 , 499, 75-85	3.9	71
436	Analysis of borosilicate glasses doped with heavy metal oxides for gamma radiation shielding application using Geant4 simulation code. <i>Ceramics International</i> , 2019 , 45, 24858-24864	5.1	71
435	Physical, optical and gamma radiation shielding competence of newly boro-tellurite based glasses: TeO ₂ -B ₂ O ₃ -nO- α -Li ₂ O-3Bi ₂ O ₃ . <i>Ceramics International</i> , 2021 , 47, 611-618	5.1	71
434	Evaluation of shielding parameters for heavy metal fluoride based tellurite-rich glasses for gamma ray shielding applications. <i>Radiation Physics and Chemistry</i> , 2017 , 139, 33-39	2.5	70
433	Comprehensive study on physical, elastic and shielding properties of ternary BaO-Bi ₂ O ₃ -P ₂ O ₅ glasses as a potent radiation shielding material. <i>Journal of Non-Crystalline Solids</i> , 2017 , 468, 92-99	3.9	68
432	X-ray photoelectron spectroscopy (XPS) and radiation shielding parameters investigations for zinc molybdenum borotellurite glasses containing different network modifiers. <i>Journal of Materials Science</i> , 2017 , 52, 7394-7414	4.3	68
431	Characterization of SiO ₂ -PbO- α -D ₂ O- α -Ca ₂ O ₃ glasses for comprehensive nuclear shielding performance: Alpha, proton, gamma, neutron radiation. <i>Ceramics International</i> , 2019 , 45, 19206-19222	5.1	68
430	Gamma ray shielding characteristics and exposure buildup factor for some natural rocks using MCNP-5 code. <i>Nuclear Engineering and Technology</i> , 2019 , 51, 1835-1841	2.6	68
429	Estimation of gamma radiation shielding qualification of newly developed glasses by using WinXCOM and MCNPX code. <i>Progress in Nuclear Energy</i> , 2019 , 115, 12-20	2.3	68
428	Comparative shielding properties of some tellurite glasses: Part 1. <i>Physica B: Condensed Matter</i> , 2018 , 539, 133-140	2.8	68
427	Experimental investigation of photon attenuation behaviors for concretes including natural perlite mineral. <i>Results in Physics</i> , 2019 , 12, 237-243	3.7	68
426	Comparative investigations of gamma and neutron radiation shielding parameters for different borate and tellurite glass systems using WinXCom program and MCNPX code. <i>Materials Chemistry and Physics</i> , 2018 , 215, 183-202	4.4	67
425	A comparative study on gamma photon shielding features of various germanate glass systems. <i>Composites Part B: Engineering</i> , 2019 , 165, 636-647	10	67
424	Evaluation of physical, structural properties and shielding parameters for K ₂ O-MO ₃ -TeO ₂ glasses for gamma ray shielding applications. <i>Journal of Alloys and Compounds</i> , 2017 , 714, 278-286	5.7	66
423	The investigation of gamma-ray and neutron shielding parameters of Na ₂ O-CaO-P ₂ O ₅ -SiO ₂ bioactive glasses using MCNPX code. <i>Results in Physics</i> , 2019 , 12, 1797-1804	3.7	66
422	ZnO-B ₂ O ₃ -PbO glasses: Synthesis and radiation shielding characterization. <i>Physica B: Condensed Matter</i> , 2018 , 548, 20-26	2.8	66

421	Simulation of radiation shielding properties of glasses contain PbO. <i>Radiation Physics and Chemistry</i> , 2018 , 151, 239-252	2.5	66
420	Photon and neutron shielding performance of boron phosphate glasses for diagnostic radiology facilities. <i>Results in Physics</i> , 2019 , 12, 1457-1464	3.7	65
419	Photon shielding characterizations of bismuth modified borate silicate tellurite glasses using MCNPX Monte Carlo code. <i>Materials Chemistry and Physics</i> , 2018 , 211, 9-16	4.4	65
418	Radiation shielding features using MCNPX code and mechanical properties of the PbO Na ₂ O B ₂ O ₃ CaO Al ₂ O ₃ SiO ₂ glass systems. <i>Composites Part B: Engineering</i> , 2019 , 167, 231-240	10	65
417	Comparison of Monte Carlo simulation of gamma ray attenuation coefficients of amino acids with XCOM program and experimental data. <i>Results in Physics</i> , 2018 , 9, 6-11	3.7	64
416	Structural, thermal, optical features and shielding parameters investigations of optical glasses for gamma radiation shielding and defense applications. <i>Journal of Non-Crystalline Solids</i> , 2018 , 487, 53-59	3.9	64
415	Radiation shielding characterizations and investigation of TeO ₂ WO ₃ Bi ₂ O ₃ and TeO ₂ WO ₃ PbO glasses. <i>Applied Physics A: Materials Science and Processing</i> , 2021 , 127, 1	2.6	63
414	Structural, UV and shielding properties of ZBPC glasses. <i>Journal of Non-Crystalline Solids</i> , 2019 , 509, 99-105	3.5	63
413	Evaluation of the shielding parameters of alkaline earth based phosphate glasses using MCNPX code. <i>Results in Physics</i> , 2019 , 12, 101-106	3.7	63
412	FTIR, electronic polarizability and shielding parameters of B ₂ O ₃ glasses doped with SnO ₂ . <i>Applied Physics A: Materials Science and Processing</i> , 2018 , 124, 1	2.6	63
411	Novel vanadyl lead-phosphate glasses: P ₂ O ₅ B ₂ O ₃ xnONa ₂ OyZnOz: Synthesis, optical, physical and gamma photon attenuation properties. <i>Journal of Non-Crystalline Solids</i> , 2020 , 534, 119944	3.9	62
410	Photon attenuation coefficients of different rock samples using MCNPX, Geant4 simulation codes and experimental results: a comparison study. <i>Radiation Effects and Defects in Solids</i> , 2018 , 173, 900-914	0.9	62
409	An extensive investigation on gamma-ray and neutron attenuation parameters of cobalt oxide and nickel oxide substituted bioactive glasses. <i>Ceramics International</i> , 2019 , 45, 9934-9949	5.1	61
408	Photon parameters for gamma-rays sensing properties of some oxide of lanthanides. <i>Results in Physics</i> , 2018 , 9, 206-210	3.7	60
407	Gamma-ray shielding properties of zinc oxide soda lime silica glasses. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 4064-4074	2.1	59
406	Comprehensive study on the structural, optical, physical and gamma photon shielding features of B ₂ O ₃ -Bi ₂ O ₃ -PbO-TiO ₂ glasses using WinXCOM and Geant4 code. <i>Journal of Molecular Structure</i> , 2019 , 1197, 656-665	3.4	59
405	Gamma, neutron shielding and mechanical parameters for lead vanadate glasses. <i>Ceramics International</i> , 2019 , 45, 14058-14072	5.1	58
404	A comprehensive study of the energy absorption and exposure buildup factors of different bricks for gamma-rays shielding. <i>Results in Physics</i> , 2017 , 7, 2528-2533	3.7	58

403	The potential use of boron containing resources for protection against nuclear radiation. <i>Radiation Physics and Chemistry</i> , 2021 , 188, 109601	2.5	58
402	Comparative study of gamma-ray shielding and elastic properties of BaO ₂ Bi ₂ O ₃ B ₂ O ₃ and ZnO ₂ Bi ₂ O ₃ B ₂ O ₃ glass systems. <i>Materials Chemistry and Physics</i> , 2018 , 217, 11-22	4.4	57
401	Oxyfluoro-tellurite-zinc glasses and the nuclear-shielding ability under the substitution of AlF ₃ by ZnO. <i>Applied Physics A: Materials Science and Processing</i> , 2020 , 126, 1	2.6	57
400	An investigation on shielding properties of BaO, MoO ₃ and P ₂ O ₅ based glasses using MCNPX code. <i>Results in Physics</i> , 2019 , 12, 629-634	3.7	55
399	BaO ₂ Li ₂ O ₂ B ₂ O ₃ glass systems: Potential utilization in gamma radiation protection. <i>Progress in Nuclear Energy</i> , 2020 , 129, 103511	2.3	54
398	Effect of Bi ₂ O ₃ content on mechanical and nuclear radiation shielding properties of Bi ₂ O ₃ -MoO ₃ -B ₂ O ₃ -SiO ₂ -Na ₂ O-Fe ₂ O ₃ glass system. <i>Results in Physics</i> , 2019 , 13, 102165	3.7	52
397	Radiation attenuation properties of Bi ₂ O ₃ -Na ₂ O-V ₂ O ₅ -TiO ₂ -FeO ₂ glass system using Phy-X / PSD software. <i>Ceramics International</i> , 2020 , 46, 4795-4800	5.1	49
396	Exploration of gamma radiation shielding features for titanate bismuth borotellurite glasses using relevant software program and Monte Carlo simulation code. <i>Journal of Non-Crystalline Solids</i> , 2018 , 481, 65-73	3.9	49
395	Gamma radiation shielding investigations for selected germanate glasses. <i>Journal of Non-Crystalline Solids</i> , 2019 , 512, 33-40	3.9	48
394	Experimental studies and Monte Carlo simulations on gamma ray shielding competence of (30+x)PbO 10WO ₃ 10Na ₂ O 10MgO [(40-x)B ₂ O ₃ glasses. <i>Progress in Nuclear Energy</i> , 2020 , 119, 103047	2.3	48
393	Evaluation of gamma-ray and neutron shielding features of heavy metals doped Bi ₂ O ₃ -BaO-Na ₂ O-MgO-B ₂ O ₃ glass systems. <i>Progress in Nuclear Energy</i> , 2020 , 118, 103118	2.3	48
392	Study of gamma radiation shielding properties of (mathbf{ZnO} - mathbf{TeO}_2)_2 glasses. <i>Bulletin of Materials Science</i> , 2017 , 40, 841-857	1.7	47
391	Er ₂ O ₃ effects on photon and neutron shielding properties of TeO ₂ -Li ₂ O-ZnO-Nb ₂ O ₅ glass system. <i>Results in Physics</i> , 2019 , 13, 102277	3.7	46
390	Simulation of shielding parameters for TeO ₂ -WO ₃ -GeO ₂ glasses using FLUKA code. <i>Results in Physics</i> , 2019 , 13, 102199	3.7	46
389	Mechanical and gamma-ray shielding properties of TeO ₂ -ZnO-NiO glasses. <i>Materials Chemistry and Physics</i> , 2018 , 212, 12-20	4.4	46
388	Synthesis, physical, structural and shielding properties of newly developed B ₂ O ₃ -ZnO-PbO-Be ₂ O ₃ glasses using Geant4 code and WinXCOM program. <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	46
387	A novel method of utilization of hot dip galvanizing slag using the heat waste from itself for protection from radiation. <i>Journal of Hazardous Materials</i> , 2018 , 344, 602-614	12.8	45
386	Determination of some useful radiation interaction parameters for waste foods. <i>Nuclear Engineering and Technology</i> , 2018 , 50, 944-949	2.6	45

385	Experimental studies on the gamma photons-shielding competence of TeO ₂ -PbO-BaO-Na ₂ O-B ₂ O ₃ glasses. <i>Applied Physics A: Materials Science and Processing</i> , 2020 , 126, 1	2.6	45
384	Optical and radiation shielding features for a new series of borate glass samples. <i>Optik</i> , 2021 , 239, 1667-905	2.5	44
383	Investigation of the gamma ray shielding parameters of (100-x)[0.5Li ₂ O-0.1B ₂ O ₃ -0.4P ₂ O ₅]-xTeO ₂ glasses using Geant4 and FLUKA codes. <i>Journal of Non-Crystalline Solids</i> , 2019 , 521, 119489	3.9	42
382	The radiation shielding features for some silicide, boride and oxide types ceramics. <i>Radiation Physics and Chemistry</i> , 2019 , 160, 9-14	2.5	42
381	Synthesis, structure, optical and gamma radiation shielding properties of B ₂ O ₃ -PbO ₂ -Bi ₂ O ₃ glasses. <i>Composites Part B: Engineering</i> , 2019 , 172, 218-225	10	41
380	Physical, structural and optical properties of Sm ³⁺ doped lithium zinc alumino borate glasses. <i>Journal of Non-Crystalline Solids</i> , 2019 , 515, 116-124	3.9	41
379	Investigations on structural and radiation shielding properties of Er ³⁺ doped zinc bismuth borate glasses. <i>Materials Chemistry and Physics</i> , 2019 , 230, 267-276	4.4	41
378	Determination of nuclear radiation shielding properties of some tellurite glasses using MCNP5 code. <i>Radiation Physics and Chemistry</i> , 2018 , 150, 1-8	2.5	41
377	Physical, structural, optical and photons attenuation attributes of lithium-magnesium-borate glasses: Role of Tm ₂ O ₃ doping. <i>Optik</i> , 2019 , 182, 821-831	2.5	40
376	Characterization of a broad range gamma-ray and neutron shielding properties of MgO-Al ₂ O ₃ -SiO ₂ -B ₂ O ₃ and Na ₂ O-Al ₂ O ₃ -SiO ₂ glass systems. <i>Journal of Non-Crystalline Solids</i> , 2019 , 518, 92-102	3.9	40
375	Structural and nuclear radiation shielding properties of bauxite ore doped lithium borate glasses: Experimental and Monte Carlo study. <i>Radiation Physics and Chemistry</i> , 2019 , 162, 187-193	2.5	40
374	Structural, elastic, optical and γ ray shielding behavior of Dy ³⁺ ions doped heavy metal incorporated borate glasses. <i>Journal of Non-Crystalline Solids</i> , 2020 , 545, 120269	3.9	40
373	Effect of PbO on the shielding behavior of ZnO-B ₂ O ₅ glass system using Monte Carlo simulation. <i>Journal of Non-Crystalline Solids</i> , 2018 , 481, 604-607	3.9	40
372	Photon and neutron shielding characteristics of samarium doped lead alumino borate glasses containing barium, lithium and zinc oxides determined at medical diagnostic energies. <i>Results in Physics</i> , 2019 , 12, 2123-2128	3.7	39
371	Investigation of radiation shielding properties for MeO-PbCl ₂ -TeO ₂ (MeO = Bi ₂ O ₃ , MoO ₃ , Sb ₂ O ₃ , WO ₃ , ZnO) glasses. <i>Radiation Physics and Chemistry</i> , 2018 , 144, 419-425	2.5	39
370	Radiation shielding properties of pentateryary borate glasses using MCNPX code. <i>Journal of Physics and Chemistry of Solids</i> , 2018 , 121, 17-21	3.9	39
369	Vibrational, thermal features, and photon attenuation coefficients evaluation for TeO ₂ -B ₂ O ₃ -BaO-ZnO-Na ₂ O-Er ₂ O ₃ -Pr ₆ O ₁₁ glasses as gamma-rays shielding materials. <i>Journal of Non-Crystalline Solids</i> , 2018 , 481, 568-578	3.9	39
368	Evaluation of radioprotection properties of some selected ceramic samples. <i>Results in Physics</i> , 2018 , 11, 1100-1104	3.7	39

367	Assessment of radio-protective properties of some anti-inflammatory drugs. <i>Progress in Nuclear Energy</i> , 2017 , 100, 297-308	2.3	38
366	The influence of PbO on the radiation attenuation features of tellurite glass. <i>Ceramics International</i> , 2019 , 45, 24230-24235	5.1	37
365	Physical, structural, and radiation shielding properties of B ₂ O ₃ MgO _x B ₂ O ₃ glass network modified with TeO ₂ . <i>Radiation Physics and Chemistry</i> , 2019 , 160, 75-82	2.5	36
364	The role of cadmium oxides in the enhancement of radiation shielding capacities for alkali borate glasses. <i>Ceramics International</i> , 2020 , 46, 23337-23346	5.1	35
363	Structural and radiation shielding properties of BaTiO ₃ ceramic with different concentrations of Bismuth and Ytterbium. <i>Ceramics International</i> , 2020 , 46, 28877-28886	5.1	35
362	Gamma photon and neutron attenuation properties of MgOBaOB ₂ O ₃ TeO ₂ glasses: The role of TeO ₂ . <i>Radiation Physics and Chemistry</i> , 2019 , 163, 58-66	2.5	34
361	A study of gamma attenuation property of UHMWPE/Bi ₂ O ₃ nanocomposites. <i>Chemical Physics</i> , 2019 , 523, 92-98	2.3	34
360	Evaluation of Radiation Shielding Features of Co and Ni-Based Superalloys Using MCNP-5 Code: Potential Use in Nuclear Safety. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 7680	2.6	34
359	Investigation of the gamma ray shielding properties for polyvinyl chloride reinforced with chalcocite and hematite minerals. <i>Heliyon</i> , 2020 , 6, e03560	3.6	34
358	Novel tellurite glass (60-x)TeO ₂ 10GeO ₂ -20ZnO10BaO-xBi ₂ O ₃ for radiation shielding. <i>Journal of Alloys and Compounds</i> , 2020 , 844, 155668	5.7	34
357	Investigation of radiation shielding properties for Bi ₂ O ₃ -V ₂ O ₅ -TeO ₂ glass system using MCNP5 code. <i>Journal of Non-Crystalline Solids</i> , 2018 , 499, 32-40	3.9	34
356	Comparative studies between the shielding parameters of concretes with different additive aggregates using MCNP-5 simulation code. <i>Radiation Physics and Chemistry</i> , 2019 , 165, 108426	2.5	34
355	Germanate oxide impacts on the optical and gamma radiation shielding properties of TeO ₂ -ZnO-Li ₂ O glass system. <i>Journal of Non-Crystalline Solids</i> , 2020 , 546, 120272	3.9	34
354	Role of TeO ₂ in radiation shielding characteristics of calcium boro-tellurite glasses. <i>Ceramics International</i> , 2020 , 46, 13622-13629	5.1	33
353	Effect of Bi ₂ O ₃ on mechanical features and radiation shielding properties of boro-tellurite glass system. <i>Ceramics International</i> , 2020 , 46, 16452-16458	5.1	32
352	Physical and structural effect of modifiers on dysprosium ions incorporated boro-tellurite glasses for radiation shielding purposes. <i>Ceramics International</i> , 2020 , 46, 17929-17937	5.1	32
351	Investigation of gamma ray attenuation features of bismuth oxide nano powder reinforced high-density polyethylene matrix composites. <i>Radiation Physics and Chemistry</i> , 2020 , 168, 108537	2.5	32
350	Photon-shielding performance of bismuth oxychloride-filled polyester concretes. <i>Materials Chemistry and Physics</i> , 2020 , 241, 122330	4.4	32

349	Influence of modifier oxide on the structural and radiation shielding features of Sm ³⁺ -doped calcium telluro-fluoroborate glass systems. <i>Journal of the Australian Ceramic Society</i> , 2021 , 57, 275-286	1.5	32
348	Novel borosilicate glass system: Na ₂ B ₄ O ₇ -SiO ₂ -MnO ₂ : Synthesis, average electronics polarizability, optical basicity, and gamma-ray shielding features. <i>Journal of Non-Crystalline Solids</i> , 2021 , 553, 120509	3.9	32
347	Optical, mechanical properties of TeO ₂ -CdO-PbO-B ₂ O ₃ glass systems and radiation shielding investigation using EPICS2017 library. <i>Optik</i> , 2021 , 242, 167342	2.5	32
346	Experimental and Theoretical Study of Radiation Shielding Features of CaO-KO-NaO-PO Glass Systems. <i>Materials</i> , 2021 , 14,	3.5	30
345	Characterization of Bi ₂ O ₃ ZnO B ₂ O ₃ and TeO ₂ ZnO CdO Li ₂ O V ₂ O ₅ glass systems for shielding gamma radiation using MCNP5 and Geant4 codes. <i>Journal of Physics and Chemistry of Solids</i> , 2019 , 126, 112-123	3.9	30
344	Borate multicomponent of bismuth rich glasses for gamma radiation shielding application. <i>Radiation Physics and Chemistry</i> , 2019 , 161, 77-82	2.5	29
343	The impact of barium oxide on physical, structural, optical, and shielding features of sodium zinc borate glass. <i>Journal of Non-Crystalline Solids</i> , 2020 , 541, 120090	3.9	29
342	Influence of lead and zinc oxides on the radiation shielding properties of tellurite glass systems. <i>Ceramics International</i> , 2020 , 46, 17300-17306	5.1	29
341	Radiation shielding, structural, physical, and optical properties for a series of borosilicate glass. <i>Journal of Non-Crystalline Solids</i> , 2020 , 550, 120360	3.9	29
340	The influence of MgO on the radiation protection and mechanical properties of tellurite glasses. <i>Nuclear Engineering and Technology</i> , 2021 , 53, 2000-2010	2.6	29
339	Impact of BiO modifier concentration on barium-zincborate glasses: physical, structural, elastic, and radiation-shielding properties. <i>European Physical Journal Plus</i> , 2021 , 136, 116	3.1	29
338	Synergistic effect of La ₂ O ₃ on mass stopping power (MSP)/projected range (PR) and nuclear radiation shielding abilities of silicate glasses. <i>Results in Physics</i> , 2019 , 14, 102424	3.7	28
337	Studies on the structural, optical and radiation shielding properties of (50-x) PbO (10-x) WO ₃ (10-x) Na ₂ O (10-x) MgO ((20+x) B ₂ O ₃) glasses. <i>Journal of Non-Crystalline Solids</i> , 2019 , 513, 159-166	3.9	28
336	Measurement of mass attenuation coefficients, effective atomic numbers, and electron densities for different parts of medicinal aromatic plants in low-energy region. <i>Nuclear Science and Techniques/Hewuli</i> , 2018 , 29, 1	2.1	28
335	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	5.1	27
334	X-ray shielding characteristics of P ₂ O ₅ -B ₂ O ₅ glass doped with Bi ₂ O ₃ by using EPICS2017 and Phy-X/PSD. <i>Applied Physics A: Materials Science and Processing</i> , 2021 , 127, 1	2.6	27
333	Shielding behaviour of (20+x) Bi ₂ O ₃ (20-x) BaO (10-x) Na ₂ O (10-x) MgO ((40-x) B ₂ O ₃): An experimental and Monte Carlo study. <i>Chemical Physics</i> , 2020 , 529, 110571	2.3	27
332	Radiation shielding and mechanical properties of Bi ₂ O ₃ -Na ₂ O-TiO ₂ -ZnO-TeO ₂ glass system. <i>Radiation Physics and Chemistry</i> , 2021 , 186, 109556	2.5	27

- 331 Bioactive glasses doped with TiO₂ and their potential use in radiation shielding applications. *Ceramics International*, **2020**, 46, 14721-14732 5.1 26
- 330 Assessment of gamma-radiation attenuation characteristics of Bi₂O₃B₂O₃SiO₂Na₂O glasses using Geant4 simulation code. *European Physical Journal Plus*, **2021**, 136, 1 3.1 26
- 329 Radiation shielding characteristics of selected ceramics using the EPICS2017 library. *Ceramics International*, **2021**, 47, 13181-13186 5.1 26
- 328 Investigation of radiation shielding properties for some ceramics. *Radiochimica Acta*, **2019**, 107, 179-191 1.9 26
- 327 The influence of PbO and Bi₂O₃ on the radiation shielding and elastic features for different glasses. *Journal of Materials Research and Technology*, **2020**, 9, 8429-8438 5.5 25
- 326 Modified halloysite minerals for radiation shielding purposes. *Journal of Radiation Research and Applied Sciences*, **2020**, 13, 94-101 1.5 25
- 325 Simulation studies for gamma ray shielding properties of Halloysite nanotubes using MCNP-5 code. *Applied Radiation and Isotopes*, **2019**, 154, 108882 1.7 25
- 324 Development of a novel MoO₃-doped borate glass network for gamma-ray shielding applications. *European Physical Journal Plus*, **2021**, 136, 1 3.1 25
- 323 Investigation on structural, optical, thermal and gamma photon shielding properties of zinc and barium doped fluorotellurite glasses. *Journal of Non-Crystalline Solids*, **2019**, 511, 194-200 3.9 24
- 322 Gamma-ray attenuation parameters for polymer composites reinforced with BaTiO₃ and CaWO₄ compounds. *Progress in Nuclear Energy*, **2020**, 121, 103257 2.3 24
- 321 An investigation on physical, structural and gamma ray shielding features of Dy³⁺ ions doped Telluroborate glasses. *Journal of Non-Crystalline Solids*, **2019**, 522, 119574 3.9 24
- 320 Effect of lead oxide on the optical properties and radiation shielding efficiency of antimony-sodium-tungsten glasses. *Applied Physics A: Materials Science and Processing*, **2020**, 126, 1 2.6 24
- 319 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 2.8 24
- 318 Synthesis, structure, mechanical and radiation shielding features of 50SiO₂(48 + X) Na₂B₄O₇(2 X) MnO₂ glasses. *European Physical Journal Plus*, **2021**, 136, 1 3.1 24
- 317 Characterization of gamma-ray and neutron radiation absorption properties of synthesized quinoline derivatives and their genotoxic potential. *Radiation Physics and Chemistry*, **2021**, 184, 109471 2.5 24
- 316 Study of comprehensive shielding behaviors of chambersite deposit for neutron and gamma ray. *Progress in Nuclear Energy*, **2022**, 146, 104155 2.3 24
- 315 Radiation attenuation properties of bioactive glasses doped with NiO. *Ceramics International*, **2020**, 46, 19880-19889 5.1 23
- 314 Physical, structural, optical and gamma radiation attenuation properties of germanate-tellurite glasses for shielding applications. *Journal of Non-Crystalline Solids*, **2020**, 545, 120250 3.9 23

313	Optical, mechanical properties and gamma ray shielding behavior of TeO ₂ -Bi ₂ O ₃ -PbO-MgO-B ₂ O ₃ glasses using FLUKA simulation code. <i>Optical Materials</i> , 2021 , 113, 110900	3.3	23
312	Using iron concentrate in Liaoning Province, China, to prepare material for X-Ray shielding. <i>Journal of Cleaner Production</i> , 2019 , 210, 653-659	10.3	23
311	Investigation of photon, neutron and proton shielding features of H ₃ BO ₃ -nO ₂ -Na ₂ O-BaO glass system. <i>Nuclear Engineering and Technology</i> , 2021 , 53, 949-959	2.6	23
310	Comprehensive study on estimation of gamma-ray exposure buildup factors for smart polymers as a potent application in nuclear industries. <i>Results in Physics</i> , 2018 , 9, 585-592	3.7	22
309	Fabrication of Ni, Cr, W reinforced new high alloyed stainless steels for radiation shielding applications. <i>Results in Physics</i> , 2019 , 12, 1-6	3.7	22
308	A novel CaO-K ₂ O-Na ₂ O-B ₂ O ₅ glass systems for radiation shielding applications. <i>Radiation Physics and Chemistry</i> , 2021 , 188, 109645	2.5	22
307	Structural, optical and radiation shielding properties of zinc boro-tellurite alumina glasses. <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	21
306	A comprehensive ionizing radiation shielding study of Fe _x Se _{0.5} Te _{0.5} alloys with various iron concentrations. <i>Journal of Alloys and Compounds</i> , 2021 , 858, 157636	5.7	21
305	The concentration impact of Yb ³⁺ on the bismuth boro-phosphate glasses: Physical, structural, optical, elastic, and radiation-shielding properties. <i>Radiation Physics and Chemistry</i> , 2021 , 188, 109617	2.5	21
304	Impact of Ag ₂ O on linear, nonlinear optical and gamma-ray shielding features of ternary silver vanadio-tellurite glasses: TeO ₂ -V ₂ O ₅ -Ag ₂ O. <i>Ceramics International</i> , 2020 , 46, 22964-22972	5.1	20
303	Enhancement of the Shielding Capability of Soda-Lime Glasses with Sb ₂ O ₃ Dopant: A Potential Material for Radiation Safety in Nuclear Installations. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 326	2.6	20
302	Structural, optical, thermal, mechanical, morphological & radiation shielding parameters of Pr ³⁺ -doped ZAlFB glass systems. <i>Optical Materials</i> , 2020 , 99, 109512	3.3	20
301	Linear, nonlinear optical and photon attenuation properties of La ³⁺ -doped tellurite glasses. <i>Optical Materials</i> , 2020 , 108, 110196	3.3	20
300	Gamma-Ray Attenuation and Exposure Buildup Factor of Novel Polymers in Shielding Using Geant4 Simulation. <i>Materials</i> , 2021 , 14,	3.5	20
299	Investigation of mechanical and radiation shielding features of heavy metal oxide based phosphate glasses for gamma radiation attenuation applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 12140-12151	2.1	19
298	The impact of lead oxide on the optical and gamma shielding properties of barium borate glasses. <i>Applied Physics A: Materials Science and Processing</i> , 2020 , 126, 1	2.6	19
297	Application of the MCNP 5 code to simulate the shielding features of concrete samples with different aggregates. <i>Radiation Physics and Chemistry</i> , 2020 , 174, 108925	2.5	19
296	Optical absorption and gamma-radiation-shielding parameter studies of Tm ³⁺ -doped multicomponent borosilicate glasses. <i>Applied Physics A: Materials Science and Processing</i> , 2018 , 124, 1	2.6	19

295	Gamma ray shielding studies on 26.66 B ₂ O ₃ 16GeO ₂ 4Bi ₂ O ₃ (53.33%) PbO4PbF ₂ glass system using MCNPX, Geant4 and XCOM. <i>Materials Research Express</i> , 2018 , 5, 095203	1.7	19
294	Effect of bulk and nanoparticle Bi ₂ O ₃ on attenuation capability of radiation shielding glass. <i>Ceramics International</i> , 2021 , 47, 19651-19658	5.1	19
293	Radiation protective qualities of some selected lead and bismuth salts in the wide gamma energy region. <i>Nuclear Engineering and Technology</i> , 2019 , 51, 860-866	2.6	19
292	Investigation of gamma-ray shielding properties of bismuth borotellurite glasses using MCNPX code and XCOM program. <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	18
291	Structural, optical, and shielding investigations of TeO ₂ TeO ₂ 2nO12OBi ₂ O ₃ glass system for radiation protection applications. <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	18
290	Investigations on the physical, structural, optical and photoluminescence behavior of Er ³⁺ ions in lithium zinc fluoroborate glass system. <i>Infrared Physics and Technology</i> , 2019 , 98, 7-15	2.7	18
289	Effect of TiO/VO substitution on the optical and radiation shielding properties of alkali borate glasses: A Monte Carlo investigation. <i>Ceramics International</i> , 2020 , 46, 25671-25677	5.1	18
288	Development and production of metal oxide doped glasses for gamma ray and fast neutron shielding. <i>Radiation Physics and Chemistry</i> , 2020 , 174, 108897	2.5	18
287	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	3.9	18
286	Radiation shielding properties of Nd _{0.6} Sr _{0.4} Mn _{1-x} NiyO ₃ substitute with different concentrations of nickle. <i>Radiation Physics and Chemistry</i> , 2020 , 174, 108920	2.5	18
285	Gamma ray shielding behavior of Li ₂ O-doped PbO4MoO ₃ 3B ₂ O ₃ glass system. <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	17
284	Chalcogenide glass-ceramics for radiation shielding applications. <i>Ceramics International</i> , 2020 , 46, 19385-19392	5.7	17
283	Ionizing photons attenuation characterization of quaternary tellurite-zinc-bismuth-gadolinium glasses using Phy-X/PSD software. <i>Journal of Non-Crystalline Solids</i> , 2020 , 538, 120044	3.9	17
282	Influence of RE oxides (Eu ³⁺ , Sm ³⁺ , Nd ³⁺) on gamma radiation shielding properties of lead fluoroborate glasses. <i>Solid State Sciences</i> , 2019 , 96, 105959	3.4	17
281	Effect of BaO on lead free zinc barium tellurite glass for radiation shielding materials in nuclear application. <i>Journal of Non-Crystalline Solids</i> , 2020 , 550, 120386	3.9	17
280	Experimental investigation of radiation shielding performances of some important AISI-coded stainless steels: Part I. <i>Radiation Physics and Chemistry</i> , 2020 , 166, 108455	2.5	17
279	Analysis of particle size on mass dependent attenuation capability of bulk and nanoparticle PbO radiation shields. <i>Results in Physics</i> , 2021 , 26, 104458	3.7	17
278	Radiation shielding features for various tellurium-based alloys: a comparative study. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 26798	2.1	17

277	Influence of modifiers on the physical, structural, elastic and radiation shielding competence of Dy ³⁺ ions doped Alkali boro-tellurite glasses. <i>Radiation Physics and Chemistry</i> , 2021 , 189, 109741	2.5	17
276	Comparison of experimental and theoretical radiation shielding parameters of several environmentally friendly materials. <i>Nuclear Science and Techniques/Hewuli</i> , 2019 , 30, 1	2.1	16
275	Gamma-ray shielding properties of lead borovanadate glasses. <i>Ceramics International</i> , 2020 , 46, 19624-19628	1.6	16
274	MoO ₃ reinforced Ultra high molecular weight PE for neutrons shielding applications. <i>Radiation Physics and Chemistry</i> , 2020 , 172, 108852	2.5	16
273	Effect of bismuth oxide on the optical features and gamma shielding efficiency of lithium zinc borate glasses. <i>Ceramics International</i> , 2020 , 46, 22883-22888	5.1	16
272	Using Phy-X/PSD to investigate gamma photons in SeO ₂ -Ag ₂ O-TeO ₂ glass systems for shielding applications. <i>Ceramics International</i> , 2020 , 46, 12416-12421	5.1	16
271	Borax effect on gamma and neutron shielding features of lithium borate glasses: an experimental and Monte Carlo studies. <i>Materials Research Express</i> , 2019 , 6, 115217	1.7	16
270	Physical, optical properties and radiation shielding studies of xLa ₂ O ₃ -(100-x)B ₂ O ₃ glass system. <i>Ceramics International</i> , 2020 , 46, 5380-5386	5.1	16
269	Dy ³⁺ doped SiO ₂ -B ₂ O ₃ -Al ₂ O ₃ -NaF-ZnF ₂ glasses: An exploration of optical and gamma radiation shielding features. <i>Current Applied Physics</i> , 2020 , 20, 1207-1216	2.6	16
268	Li ₂ O-K ₂ O-B ₂ O ₃ -PbO glass system: Optical and gamma-ray shielding investigations. <i>Optik</i> , 2021 , 247, 167792	2.5	16
267	Application of experimental measurements, Monte Carlo simulation and theoretical calculation to estimate the gamma ray shielding capacity of various natural rocks. <i>Progress in Nuclear Energy</i> , 2020 , 126, 103405	2.3	15
266	Effect of Gd ₂ O ₃ on the radiation shielding characteristics of Sb ₂ O ₃ -B ₂ O ₃ -Cd ₂ O ₃ glass system. <i>Ceramics International</i> , 2020 , 46, 13768-13773	5.1	15
265	Physical Properties, Optical band gaps and Radiation Shielding Parameters Exploration for Dy ³⁺ -doped Alkali/Mixed Alkali Multicomponent Borate Glasses. <i>Glass Physics and Chemistry</i> , 2018 , 44, 279-291	0.7	15
264	Implementation of waste silicate glass into composition of ordinary cement for radiation shielding applications. <i>Nuclear Engineering and Technology</i> , 2021 ,	2.6	15
263	Lead borate glasses doped by lanthanum: Synthesis, physical, optical, and gamma photon shielding properties. <i>Journal of Non-Crystalline Solids</i> , 2020 , 527, 119731	3.9	15
262	Theoretical and experimental validation gamma shielding properties of B ₂ O ₃ -ZnO-MgO-Bi ₂ O ₃ glass system. <i>Materials Chemistry and Physics</i> , 2020 , 242, 122504	4.4	15
261	Radiation shielding properties of tellurite-lead-tungsten glasses against gamma and beta radiations. <i>Journal of Non-Crystalline Solids</i> , 2021 , 551, 120430	3.9	15
260	Effect of Fe ₂ O ₃ doping on structural, FTIR and radiation shielding characteristics of aluminium-lead-borate glasses. <i>Progress in Nuclear Energy</i> , 2021 , 141, 103931	2.3	15

259	Effect of Bi ₂ O ₃ 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	2.6	14
258	Boro-silicate glasses co-doped Er ³⁺ /Yb ³⁺ for optical amplifier and gamma radiation shielding applications. <i>Physica B: Condensed Matter</i> , 2019 , 567, 37-44	2.8	14
257	Preparation, shielding properties and mechanism of a novel neutron shielding material made from natural Szaibelyite resource. <i>Progress in Nuclear Energy</i> , 2018 , 106, 140-145	2.3	14
256	Evaluation of optical and gamma ray shielding features for tungsten-based bismuth borate glasses. <i>Optical Materials</i> , 2020 , 106, 109981	3.3	14
255	Study on the radiation attenuation properties of locally available bees-wax as a tissue equivalent bolus material in radiotherapy. <i>Radiation Physics and Chemistry</i> , 2020 , 172, 108559	2.5	14
254	Bi ₂ O ₃ -B ₂ O ₃ -ZnO-BaO-Li ₂ O glass system for gamma ray shielding applications. <i>Optik</i> , 2020 , 201, 163525	2.5	14
253	Optical properties and radiation shielding features of Er ³⁺ ions doped B ₂ O ₃ -Bi ₂ O ₃ -Cd ₂ O ₃ -CaO glasses. <i>Ceramics International</i> , 2021 , 47, 3421-3429	5.1	14
252	Investigation of the optical, mechanical, and radiation shielding features for strontium-borotellurite glass system: Fabrication, characterization, and EPICS2017 computations. <i>Optik</i> , 2021 , 243, 167468	2.5	14
251	Neutron-shielding behaviour investigations of some clay-materials. <i>Nuclear Engineering and Technology</i> , 2019 , 51, 1444-1450	2.6	13
250	Investigation of shielding parameters of some boron containing resources for gamma ray and fast neutron. <i>Results in Physics</i> , 2019 , 13, 102129	3.7	13
249	Thermoluminescence features of Er ³⁺ doped BaO-ZnO-LiF-B ₂ O ₃ glass system for high-dose gamma dosimetry. <i>Ceramics International</i> , 2020 , 46, 19343-19353	5.1	13
248	An extensive investigation of physical, optical and radiation shielding properties for borate glasses modified with gadolinium oxide. <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	13
247	Role of Bi ₂ O ₃ in altering the structural, optical, mechanical, radiation shielding and thermoluminescence properties of heavy metal oxide borosilicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2020 , 542, 120136	3.9	13
246	Physical, structural, optical, and radiation shielding properties of B ₂ O ₃ -Cd ₂ O ₃ -ZnO glass system. <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	13
245	X-ray attenuation features of some tellurite glasses evaluated at medical diagnostic energies. <i>Applied Mathematics and Computation</i> , 2020 , 365, 124712	2.7	13
244	Ge-Se-Sb-Ag chalcogenide glasses for nuclear radiation shielding applications. <i>Ceramics International</i> , 2021 , 47, 1303-1309	5.1	13
243	Comparison between MCNP5, Geant4 and experimental data for gamma rays attenuation of PbO-BaO-BO glasses. <i>Heliyon</i> , 2019 , 5, e02364	3.6	12
242	Extensive study of newly developed highly dense transparent PbO-WO ₃ -BaO-Na ₂ O-B ₂ O ₃ glasses for radiation shielding applications. <i>Journal of Non-Crystalline Solids</i> , 2019 , 521, 119521	3.9	12

241	Gamma radiation attenuation properties of tellurite glasses: A comparative study. <i>Nuclear Engineering and Technology</i> , 2019 , 51, 2005-2012	2.6	12
240	Development of new heavy concretes containing chrome-ore for nuclear radiation shielding applications. <i>Progress in Nuclear Energy</i> , 2021 , 133, 103645	2.3	12
239	Elevated Concentrations of Metal(oids) in Seaweed and the Concomitant Exposure to Humans. <i>Foods</i> , 2021 , 10,	4.9	12
238	The Potentials of Egyptian and Indian Granites for Protection of Ionizing Radiation. <i>Materials</i> , 2021 , 14,	3.5	12
237	Shielding Properties of Some Marble Types: A Comprehensive Study of Experimental and XCOM Results. <i>Materials</i> , 2021 , 14,	3.5	12
236	X-ray photoelectron spectroscopy (XPS) and gamma-ray shielding investigation of boro-silicate glasses contained alkali/alkaline modifier. <i>Results in Physics</i> , 2019 , 14, 102438	3.7	11
235	Optically transparent newly developed glass materials for gamma ray shielding applications. <i>Journal of Non-Crystalline Solids</i> , 2019 , 521, 119490	3.9	11
234	Calculation of gamma-ray attenuation properties of some antioxidants using Monte Carlo simulation method. <i>Biomedical Physics and Engineering Express</i> , 2018 , 4, 057001	1.5	11
233	Gamma radiation shielding study of tellurite glasses containing V ₂ O ₅ and Bi ₂ O ₃ using Geant4 code. <i>Ceramics International</i> , 2020 , 46, 28870-28876	5.1	11
232	Experimental and Monte Carlo simulation study on potential new composite materials to moderate neutron-gamma radiation. <i>Progress in Nuclear Energy</i> , 2020 , 130, 103538	2.3	11
231	Nanosecond nonlinear optical, optical limiting and gamma radiation shielding attributes of Eu ³⁺ ions doped heavy metal borate glasses. <i>Ceramics International</i> , 2021 , 47, 14330-14340	5.1	11
230	Influence of 1.25 MeV gamma rays on optical and luminescent features of Er ³⁺ doped zinc bismuth borate glasses. <i>Results in Physics</i> , 2019 , 12, 1762-1769	3.7	11
229	Comprehensive study on evaluation of shielding parameters of selected soils by gamma and X-rays transmission in the range 13.9488.04 keV using WinXCom and FFAST programs. <i>Results in Physics</i> , 2019 , 15, 102751	3.7	11
228	Borotellurite Glasses for Gamma-Ray Shielding: An Exploration of Photon Attenuation Coefficients and Structural and Thermal Properties. <i>Journal of Electronic Materials</i> , 2019 , 48, 930-941	1.9	11
227	The effect of Nb ₂ O ₅ on waste soda-lime glass in gamma-rays shielding applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 4903-4915	2.1	11
226	Radiation shielding parameters of BaO-Nb ₂ O ₅ -B ₂ O ₅ glass system using MCNP5 code and XCOM software. <i>Materials Research Express</i> , 2018 , 5, 115203	1.7	11
225	Evaluation of optical, and radiation shielding features of New phosphate-based glass system. <i>Optik</i> , 2021 , 242, 167220	2.5	11
224	Durability, optical and radiation shielding properties for new series of boro-tellurite glass. <i>Optik</i> , 2021 , 245, 167667	2.5	11

223	Rare earth Co-Doped tellurite glass ceramics: Potential use in optical and radiation shielding applications. <i>Ceramics International</i> , 2020 , 46, 19198-19208	5.1	10
222	Structural, optical, and gamma-ray-sensing characterization of (35 \leq x) PbO \leq 0 MgO \leq 0Na \leq 0B \leq Fe \leq 2O \leq 3 \leq 0 BaO \leq (B \leq 0 \leq x) B \leq 2O \leq 3 glasses. <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	10
221	Investigation of gamma ray shielding capability of fabricated clay-polyethylene composites using EGS5, XCOM and Phy-X/PSD. <i>Radiation Physics and Chemistry</i> , 2020 , 177, 109079	2.5	10
220	The effect of CuO additive on the mechanical and radiation shielding features of Li \leq 2B \leq 4O \leq 7B \leq b \leq 2O \leq 3 glass system. <i>Boletin De La Sociedad Espanola De Ceramica Y Vidrio</i> , 2020 ,	1.9	10
219	Tailoring bismuth borate glasses by incorporating PbO/GeO for protection against nuclear radiation. <i>Scientific Reports</i> , 2021 , 11, 7784	4.9	10
218	Evaluation the gamma, charged particle and fast neutron shielding performances of some important AISI-coded stainless steels: Part II. <i>Radiation Physics and Chemistry</i> , 2020 , 166, 108454	2.5	10
217	Enhancement of Bentonite Materials with Cement for Gamma-Ray Shielding Capability. <i>Materials</i> , 2021 , 14,	3.5	10
216	Experimental Investigation of Radiation Shielding Competence of BiO-CaO-KO-NaO-PO Glass Systems. <i>Materials</i> , 2021 , 14,	3.5	10
215	Natural radioactivity in the prospecting tunnel in Egypt: Dose rate and risk assessment. <i>Radiation Physics and Chemistry</i> , 2021 , 187, 109555	2.5	10
214	Investigation of bismuth silicate glass system modified by vanadium and copper cations for structural and gamma-ray shielding properties. <i>SN Applied Sciences</i> , 2019 , 1, 1	1.8	9
213	Radiation attenuation and optical features of lithium borate glasses containing barium: B \leq 2O \leq 3.Li \leq 2O.BaO. <i>Ceramics International</i> , 2020 , 46, 21000-21007	5.1	9
212	Gamma-ray shielding parameters of lithium borotellurite glasses using Geant4 code. <i>Applied Physics A: Materials Science and Processing</i> , 2020 , 126, 1	2.6	9
211	A Comprehensive Study on Gamma Rays and Fast Neutron Sensing Properties of GAGOC and CMO Scintillators for Shielding Radiation Applications. <i>Journal of Spectroscopy</i> , 2017 , 2017, 1-9	1.5	9
210	Impact of micro and nano aluminium on the efficiency of photon detectors. <i>Results in Physics</i> , 2021 , 30, 104908	3.7	9
209	Evaluation of structural and gamma ray shielding competence of Li \leq 2O-K \leq 2O-B \leq 2O \leq 3-HMO (HMO = SrO/TeO \leq 2/PbO/Bi \leq 2O \leq 3) glass system. <i>Optik</i> , 2021 , 248, 168074	2.5	9
208	Effect of heavy metal oxides on photoluminescence and spectroscopic attributes of Eu \leq 3+ activated borate glasses. <i>Optical Materials</i> , 2021 , 114, 110933	3.3	9
207	Structural and radiation shielding features for a new series of borate glass samples: part I. <i>European Physical Journal Plus</i> , 2021 , 136, 1	3.1	9
206	Optical and gamma-ray shielding effectiveness of a newly fabricated P \leq 2O \leq 5CaO \leq Na \leq 2O \leq K \leq 2O \leq PbO glass system. <i>Progress in Nuclear Energy</i> , 2021 , 138, 103798	2.3	9

205	Synthesis and study of structural, optical and radiation-protective peculiarities of MTiO ₃ (M = Ba, Sr) metatitanate ceramics mixed with SnO ₂ oxide. <i>Ceramics International</i> , 2021 , 47, 28528-28535	5.1	9
204	The Potential Use of Car Windscreens for Post-Accident Dose Reconstruction in the Periphery of Nuclear Installations. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 7127	2.6	8
203	Evaluation of gamma ray shielding characteristics of CaF ₂ BaO-B ₂ O ₅ glass system using Phy-X / PSD computer program. <i>Progress in Nuclear Energy</i> , 2020 , 126, 103397	2.3	8
202	Linear/nonlinear optical parameters of niobium-free and niobium-doped bismuth borate glass samples. <i>Applied Physics A: Materials Science and Processing</i> , 2020 , 126, 1	2.6	8
201	Investigation of Photon Radiation Attenuation Capability of Different Clay Materials. <i>Materials</i> , 2021 , 14,	3.5	8
200	Synthesis, characterization, and performance assessment of new composite ceramics towards radiation shielding applications. <i>Journal of Alloys and Compounds</i> , 2022 , 899, 163173	5.7	8
199	Understanding the role of Bi ₂ O ₃ in the P ₂ O ₅ -CaO-Na ₂ O-K ₂ O glass system in terms of physical, structural and radiation shielding properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 11649-11665	2.1	8
198	Analysis of red mud doped Bi ₂ O ₃ -B ₂ O ₃ -BaO glasses for application as glass solder in radiation shield repair using MCNPX simulation. <i>Ceramics International</i> , 2019 , 45, 7619-7626	5.1	8
197	Determination of structural features of different Perovskite ceramics and investigation of ionizing radiation shielding properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 20867-20881	2.1	8
196	Advanced nuclear radiation shielding studies of some mafic and ultramafic complexes with lithological mapping. <i>Radiation Physics and Chemistry</i> , 2021 , 189, 109777	2.5	8
195	Adsorption of Yttrium Ions on 3-Amino-5-Hydroxypyrazole Impregnated Bleaching Clay, a Novel Sorbent Material. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 10320	2.6	7
194	A comprehensive investigation on the role of PbO in the structural and radiation shielding attribute of P ₂ O ₅ -CaO-Na ₂ O-K ₂ O-PbO glass system. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 12371-12382	2.1	7
193	Evaluation of gamma-rays attenuation competences for waste soda-lime glass containing MoO ₃ : Experimental study, XCOM computations, and MCNP-5 results.. <i>Journal of Non-Crystalline Solids</i> , 2021 , 557, 120572	3.9	7
192	Radiation shielding properties of selected alloys using EPICS2017 data library. <i>Progress in Nuclear Energy</i> , 2021 , 137, 103748	2.3	7
191	Optical properties and radiation shielding studies of europium doped modifier reliant multi former glasses. <i>Optik</i> , 2021 , 247, 168005	2.5	7
190	Effect of rare earth dopants on the radiation shielding properties of barium tellurite glasses. <i>Nuclear Engineering and Technology</i> , 2021 , 53, 4106-4113	2.6	7
189	Upcycling of boron bearing blast furnace slag as highly cost-effective shield for protection of neutron radiation hazard: An innovative way and proposal of shielding mechanism. <i>Journal of Cleaner Production</i> , 2022 , 131817	10.3	7
188	Experimental investigation of photon attenuation parameters for different binary alloys. <i>Radiochimica Acta</i> , 2019 , 107, 339-348	1.9	6

187	Dispersion of radionuclides from coal-fired brick kilns and concomitant impact on human health and the environment. <i>Radiation Physics and Chemistry</i> , 2020 , 177, 109165	2.5	6
186	Gamma-Ray Shielding Effectiveness of Lead Bismuth Germanoborate Glasses. <i>Glass Physics and Chemistry</i> , 2018 , 44, 292-299	0.7	6
185	A New Approach to the Formation of Nanosized Gold and Beryllium Films by Ion-Beam Sputtering Deposition.. <i>Nanomaterials</i> , 2022 , 12,	5.4	6
184	Experimental investigation on the physical properties and radiation shielding efficiency of YBa ₂ Cu ₃ O _y /M@M ₃ O ₄ (M= Co, Mn) ceramic composites. <i>Journal of Alloys and Compounds</i> , 2022 , 904, 164056	5.7	6
183	The presence of radioactive heavy minerals in prospecting trenches and concomitant occupational exposure. <i>PLoS ONE</i> , 2021 , 16, e0249329	3.7	6
182	Gamma radiation shielding and structural features for barium strontium boro-tellurite glass modified with various concentrations of molybdenum oxide. <i>Journal of Non-Crystalline Solids</i> , 2021 , 559, 120658	3.9	6
181	The effect of incorporated recycled low density polyethylene (LDPE) on the fast neutron shielding behaviour (FNSB) of clay matrix using MCNP and PHITS Monte Carlo codes. <i>Radiation Physics and Chemistry</i> , 2021 , 182, 109351	2.5	6
180	A thorough investigation of the Bi ₂ O ₃ B ₂ O ₃ TeO ₂ system: Glass forming region, thermal, physical, optical, structural, mechanical and radiation shielding properties. <i>Journal of Alloys and Compounds</i> , 2021 , 857, 158279	5.7	6
179	Linear optical features and radiation shielding competence of ZnO-B ₂ O ₃ -TeO ₂ -Eu ₂ O ₃ glasses: Role of Eu ³⁺ ions. <i>Optical Materials</i> , 2021 , 111, 110525	3.3	6
178	Effect of bismuth and lithium substitution on radiation shielding properties of zinc borate glass system using Phy-X/PSD simulation. <i>Results in Physics</i> , 2021 , 20, 103768	3.7	6
177	Magnetic Properties of the Densely Packed Ultra-Long Ni Nanowires Encapsulated in Alumina Membrane. <i>Nanomaterials</i> , 2021 , 11,	5.4	6
176	Ionizing radiation shielding features for titanium borosilicate glass modified with different concentrations of barium oxide. <i>Materials Chemistry and Physics</i> , 2021 , 272, 125047	4.4	6
175	Experimental and theoretical analysis of radiation shielding properties of strontium-borate-tellurite glasses. <i>Optical Materials</i> , 2021 , 121, 111589	3.3	6
174	The impact of TeO ₂ on physical, structural, optical and radiation shielding features for borate glass samples. <i>Optik</i> , 2021 , 247, 167924	2.5	6
173	Electrodeposition conditions-dependent crystal structure, morphology and electronic properties of Bi films. <i>Journal of Alloys and Compounds</i> , 2021 , 887, 161451	5.7	6
172	The Influence of BiO Nanoparticle Content on the E _γ Interaction Parameters of Silicon Rubber.. <i>Polymers</i> , 2022 , 14,	4.5	6
171	The impact of TeO ₂ on the gamma attenuation features of oxyfluoro boro-tellurite glasses. <i>Applied Physics A: Materials Science and Processing</i> , 2020 , 126, 1	2.6	5
170	Photoluminescence features of magnetic nano-metric metal oxides. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 10123-10128	2.1	5

169	Fabrication of Lead Free Borate Glasses Modified by Bismuth Oxide for Gamma Ray Protection Applications.. <i>Materials</i> , 2022 , 15,	3.5	5
168	Recycling and optimizing waste lab glass with Bi ₂ O ₃ nanoparticles to use as a transparent shield for photons. <i>Journal of Materials Research and Technology</i> , 2022 , 17, 2073-2083	5.5	5
167	Rare Earth Group Separation after Extraction Using Sodium Diethyldithiocarbamate/Polyvinyl Chloride from Lamprophyre Dykes Leachate.. <i>Materials</i> , 2022 , 15,	3.5	5
166	High density of tungsten gadolinium borate glasses for radiation shielding material: Effect of WO ₃ concentration. <i>Radiation Physics and Chemistry</i> , 2022 , 192, 109926	2.5	5
165	Understanding the Effect of Introducing Micro- and Nanoparticle Bismuth Oxide (BiO) on the Gamma Ray Shielding Performance of Novel Concrete. <i>Materials</i> , 2021 , 14,	3.5	5
164	Influence of heavy metal oxides to the mechanical and radiation shielding properties of borate and silica glass system. <i>Journal of Materials Research and Technology</i> , 2021 , 11, 1322-1330	5.5	5
163	Structural, optical, and radiation shielding features for a series of borate glassy system modified by molybdenum oxide. <i>European Physical Journal Plus</i> , 2021 , 136, 1	3.1	5
162	Comprehensive study of radiation shielding and mechanical features of Bi ₂ O ₃ -TeO ₂ -B ₂ O ₃ -GeO ₂ glasses. <i>Journal of the Australian Ceramic Society</i> , 2021 , 57, 1267-1274	1.5	5
161	Structural, mechanical, and nuclear radiation shielding properties of iron aluminoleadborate glasses. <i>European Physical Journal Plus</i> , 2021 , 136, 1	3.1	5
160	Mechanical and Gamma Ray Absorption Behavior of PbO-WO-NaO-MgO-BO Glasses in the Low Energy Range. <i>Materials</i> , 2021 , 14,	3.5	5
159	Radiation shielding study of WO ₃ -nOPbOB ₂ O ₃ glasses using Geant4 and Phys-X: A comparative study. <i>Ceramics International</i> , 2021 , 47, 3988-3993	5.1	5
158	Synthesis, optical and radiation shielding capacity of the Sm ₂ O ₃ doped borate glasses. <i>Journal of Non-Crystalline Solids</i> , 2021 , 553, 120505	3.9	5
157	A comprehensive examination of zinc-boro-vanadate glass reinforced with Ag ₂ O in physical, optical, mechanical, and radiation shielding aspects. <i>Applied Physics A: Materials Science and Processing</i> , 2021 , 127, 1	2.6	5
156	A new heavy-mineral doped clay brick for gamma-ray protection purposes. <i>Applied Radiation and Isotopes</i> , 2021 , 173, 109720	1.7	5
155	An examination of the radiation-induced defects and thermoluminescence characteristics of Sm ₂ O ₃ doped BaO-nO-lifB ₂ O ₃ glass system for dosimetry application. <i>Optical Materials</i> , 2021 , 118, 111252	3.3	5
154	Evaluation of photon radiation attenuation and buildup factors for energy absorption and exposure in some soils using EPICS2017 library. <i>Nuclear Engineering and Technology</i> , 2021 , 53, 3808-3815	2.6	5
153	Study of the structure and radiation-protective properties of yttrium barium copper oxide ceramic doped with different oxides. <i>Journal of Alloys and Compounds</i> , 2021 , 885, 161142	5.7	5
152	Evaluation of radiation absorption characteristics in different parts of some medicinal aromatic plants in the low energy region. <i>Results in Physics</i> , 2019 , 12, 94-100	3.7	4

151	Preparation and radiation attenuation properties of ceramic ball clay enhanced with micro and nano ZnO particles. <i>Journal of Materials Research and Technology</i> , 2022 , 17, 223-233	5.5	4
150	Radiological Investigation on Sediments: A Case Study of Wadi Rod Elsayalla the Southeastern Desert of Egypt. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 11884	2.6	4
149	Enhancement of Ceramics Based Red-Clay by Bulk and Nano Metal Oxides for Photon Shielding Features.. <i>Materials</i> , 2021 , 14,	3.5	4
148	Gamma Shielding Properties of Erbium Zinc Tellurite Glass System Using Monte Carlo Method. <i>Journal of Testing and Evaluation</i> , 2020 , 48, 20180123	1	4
147	(TeO_2 - TiO_2 - ZnO) glasses: potential use in radiation protection. <i>Applied Physics A: Materials Science and Processing</i> , 2020 , 126, 1	2.6	4
146	Effects of Na ₂ O on optical and radiation shielding properties of xNa ₂ O-(20-x)K ₂ O-30V ₂ O ₅ -50TeO ₂ mixed alkali glasses. <i>Results in Physics</i> , 2021 , 22, 103946	3.7	4
145	Nonlinear optical, optical limiting and radiation shielding features of Eu ³⁺ activated borate glasses. <i>Optik</i> , 2021 , 232, 166563	2.5	4
144	The tungsten oxide within phosphate glasses to investigate the structural, optical, and shielding properties variations. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 12402-12413	2.1	4
143	Gamma Ray Shielding Properties of Yb ³⁺ -Doped Calcium Borotellurite Glasses. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 5697	2.6	4
142	Influence of gamma irradiation on photoluminescence and nonlinear optical properties of Eu ³⁺ activated heavy metal borate glasses. <i>Optical Materials</i> , 2021 , 116, 111102	3.3	4
141	Tailoring Dy ³⁺ /Tb ³⁺ -doped lead telluride borate glasses for gamma-ray shielding applications. <i>European Physical Journal Plus</i> , 2021 , 136, 1	3.1	4
140	Effect of the Fe ₂ O ₃ addition on the elastic and gamma-ray shielding features of bismuth sodium-borate glass system. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 6942-6954	2.1	4
139	Experimental investigation of zinc sodium borate glass systems containing barium oxide for gamma radiation shielding applications. <i>Nuclear Engineering and Technology</i> , 2021 , 53, 3058-3067	2.6	4
138	A lanthanum-barium-borovanadate glass containing Bi ₂ O ₃ for radiation shielding applications. <i>Radiation Physics and Chemistry</i> , 2021 , 186, 109557	2.5	4
137	Zinc-lead-borate glasses doped with dysprosium oxide: Structure, optical, and radiation shielding features. <i>Optik</i> , 2021 , 246, 167765	2.5	4
136	SrO-SiO ₂ -B ₂ O ₃ -ZrO ₂ glass system: Effects of varying SrO and BaO compositions to physical and optical properties, and radiation shielding using EPDL2017 photoatomic library. <i>Optik</i> , 2021 , 245, 167670	2.5	4
135	Sustainable Remedy Waste to Generate SiO ₂ Functionalized on Graphene Oxide for Removal of U(VI) Ions. <i>Sustainability</i> , 2022 , 14, 2699	3.6	4
134	Assessment of radiation attenuation properties for novel alloys: An experimental approach. <i>Radiation Physics and Chemistry</i> , 2022 , 110152	2.5	4

133	Synthesis of a New Chelating Iminophosphorane Derivative (Phosphazene) for U(VI) Recovery.. <i>Polymers</i> , 2022 , 14,	4.5	4
132	TeO ₂ BiO ₂ B ₂ O ₃ glasses doped with CeO ₂ for gamma radiation shielding and dosimetry application. <i>Radiation Physics and Chemistry</i> , 2022 , 110233	2.5	4
131	Shielding effectiveness of boron-containing ores in Liaoning province of China against gamma rays and thermal neutrons. <i>Nuclear Science and Techniques/Hewuli</i> , 2018 , 29, 1	2.1	3
130	Novel Shielding Mortars for Radiation Source Transportation and Storage. <i>Sustainability</i> , 2022 , 14, 1248	3.6	3
129	Near-infrared nonlinear optical characteristics of silver nanoparticles embedded borate glasses activated with Sm ³⁺ ions: Effect of heat treatment. <i>Infrared Physics and Technology</i> , 2021 , 119, 103959	2.7	3
128	Impact of Modifier Oxides on Mechanical and Radiation Shielding Properties of B ₂ O ₃ -SrO-TeO ₂ -RO Glasses (Where RO = TiO ₂ , ZnO, BaO, and PbO). <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 10904	2.6	3
127	Improved near-infrared nonlinear optical properties of Sm ³⁺ containing borate glasses: Effect of silver nanoparticles concentration. <i>Optical Materials</i> , 2021 , 111804	3.3	3
126	Impact of tin oxide on the structural features and radiation shielding response of some ABO ₃ perovskites ceramics (A = Ca, Sr, Ba; B = Ti). <i>Applied Physics A: Materials Science and Processing</i> , 2021 , 127, 1	2.6	3
125	Photoluminescence, nonlinear optical and gamma radiation shielding properties of high concentration of Eu ₂ O ₃ doped heavy metal borate glasses. <i>Optik</i> , 2021 , 168433	2.5	3
124	Impact of Bi ₂ O ₃ on optical properties and radiation attenuation characteristics of Bi ₂ O ₃ -Li ₂ O-P ₂ O ₅ glasses. <i>Optik</i> , 2021 , 248, 168081	2.5	3
123	Gamma ray exposure buildup factor and shielding features for some binary alloys using MCNP-5 simulation code. <i>Nuclear Engineering and Technology</i> , 2021 ,	2.6	3
122	A comprehensive study on the optical, mechanical, and radiation shielding properties of the TeO ₂ Li ₂ OGeO ₂ glass system. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 15226-15241	2.1	3
121	Physical, structural, optical and gamma-ray shielding properties of Na ₂ O-CdO-Bi ₂ O ₃ -B ₂ O ₃ glasses. <i>International Journal of Applied Glass Science</i> , 2021 , 12, 259-273	1.8	3
120	Radiation shielding competencies for waste soda silicate glass reinforced with Ta ₂ O ₅ : experimental, computational, and simulation studies. <i>Applied Physics A: Materials Science and Processing</i> , 2021 , 127, 1	2.6	3
119	Development of New Lead-Free Composite Materials as Potential Radiation Shields. <i>Materials</i> , 2021 , 14,	3.5	3
118	Enhanced thermoluminescence intensity, stability, and sensitivity of the Yb ³⁺ doped BaO ₂ nO ₂ Bi ₂ O ₃ glass by Sm ³⁺ co-doping. <i>Materials Chemistry and Physics</i> , 2021 , 271, 124906	4.4	3
117	Tailor made barium borate doped Bi ₂ O ₃ glass system for radiological protection. <i>Radiation Physics and Chemistry</i> , 2021 , 187, 109558	2.5	3
116	The physical, structural and the gamma ray shielding effectiveness of the novel Li ₂ O-K ₂ O-B ₂ O ₃ -TeO ₂ glasses. <i>Results in Physics</i> , 2021 , 29, 104726	3.7	3

115	Influence of ZnO to the physical, elastic and gamma radiation shielding properties of the tellurite glass system using MCNP-5 simulation code. <i>Radiation Physics and Chemistry</i> , 2021 , 188, 109665	2.5	3
114	Gamma ray shielding and thermoluminescence investigation of bismuth added heavy metal oxide glasses. <i>Radiation Physics and Chemistry</i> , 2021 , 188, 109598	2.5	3
113	Gamma ray interaction studies of the PbCl ₂ BnCl ₂ P ₂ O ₅ bioactive glass system for applications in nuclear medicine. <i>Journal of the Australian Ceramic Society</i> , 2021 , 57, 635-642	1.5	3
112	Structure, optical properties, and ionizing radiation shielding performance using Monte Carlo simulation for lead-free BTO perovskite ceramics doped with ZnO, SiO ₂ , and WO ₃ oxides. <i>Materials Science in Semiconductor Processing</i> , 2022 , 145, 106629	4.3	3
111	Comparison of radiation shielding ability of Bi ₂ O ₃ micro and nanoparticles for radiation shields. <i>Radiation Physics and Chemistry</i> , 2022 , 110170	2.5	3
110	Evaluation of radiation shielding characteristics of B ₂ O ₃ Li ₂ O - HMO (HMO = TeO ₂ / SrO /PbO/Bi ₂ O ₃) glass system: A simulation study using MCNP5 code. <i>Radiation Physics and Chemistry</i> , 2022 , 110172	2.5	3
109	Assessment of radiation shielding behavior of some mixed nature clays. <i>Radiation Physics and Chemistry</i> , 2022 , 110236	2.5	3
108	The combination of high optical transparency and radiation shielding effectiveness of zinc sodium borate glasses by tungsten oxide additions. <i>Journal of Alloys and Compounds</i> , 2022 , 904, 164037	5.7	2
107	Effect of sintering conditions on the radiation shielding characteristics of YBCO superconducting ceramics. <i>Journal of Physics and Chemistry of Solids</i> , 2022 , 164, 110627	3.9	2
106	Investigation of some drug active substances able to protect against radiation damage with experimental and Monte Carlo calculations. <i>Radiation Physics and Chemistry</i> , 2021 , 191, 109850	2.5	2
105	Synthesis of different (RE)BaCuO ceramics, study their structural properties, and tracking their radiation protection efficiency using Monte Carlo simulation. <i>Materials Chemistry and Physics</i> , 2022 , 276, 125412	4.4	2
104	Structural, optical and radiation shielding properties of Zirconium-Titanium-Hallium Ternary Oxide (0.5ZrO ₂ -(0.5-x)TiO ₂ -xTl ₂ O ₃). <i>Ceramics International</i> , 2021 ,	5.1	2
103	Fabrication of TeO ₂ -doped strontium borate glasses possessing optimum physical, structural, optical and gamma ray shielding properties. <i>European Physical Journal Plus</i> , 2021 , 136, 1	3.1	2
102	Physical, structural, and gamma ray shielding studies on novel (35+x) PbO-5TeO ₂ -20Bi ₂ O ₃ -(20-x) MgO-20B ₂ O ₃ glasses. <i>Journal of the Australian Ceramic Society</i> , 2021 , 57, 971	1.5	2
101	The Influence of Titanium Dioxide on Silicate-Based Glasses: An Evaluation of the Mechanical and Radiation Shielding Properties. <i>Materials</i> , 2021 , 14,	3.5	2
100	The Role of LaO in Enhancement the Radiation Shielding Efficiency of the Tellurite Glasses: Monte-Carlo Simulation and Theoretical Study. <i>Materials</i> , 2021 , 14,	3.5	2
99	Structural, optical, and gamma-ray shielding properties of a newly fabricated P ₂ O ₅ B ₂ O ₃ Bi ₂ O ₃ Pi ₂ O ₇ rO ₂ glass system. <i>European Physical Journal Plus</i> , 2021 , 136, 1	3.1	2
98	Gamma-ray attenuation properties of boron carbide in radiological energy range using MCNPX code 2018 ,		2

97	Synthesis, structural investigation, mechanical calculations and photon shielding properties of CaO-K ₂ O-Na ₂ O-B ₂ O ₅ glass system. <i>Optical Materials</i> , 2021 , 117, 111178	3.3	2
96	Mechanical and photon shielding aspects of PbO-BaO-WO ₃ -Na ₂ O-B ₂ O ₃ glass systems. <i>Applied Physics A: Materials Science and Processing</i> , 2021 , 127, 1	2.6	2
95	X-ray shielding behavior of TeO ₂ -Li ₂ O-GeO ₂ -ZnO-Bi ₂ O ₃ glass system using EPICS2017 library and Phy-X software. <i>Applied Physics A: Materials Science and Processing</i> , 2021 , 127, 1	2.6	2
94	Fabrication of novel neutron shielding materials: Polypropylene composites containing colemanite, tincal and ulexite. <i>Progress in Nuclear Energy</i> , 2021 , 141, 103954	2.3	2
93	Dielectric constant, polarizability, susceptibility and gamma ray shielding behavior of the Li ₂ O-Li ₂ MoO ₄ -TiO ₂ -P ₂ O ₅ glasses. <i>Optik</i> , 2021 , 245, 167639	2.5	2
92	Multispectral remote sensing for determination the Ultra-mafic complexes distribution and their applications in reducing the equivalent dose from the radioactive wastes. <i>European Physical Journal Plus</i> , 2022 , 137, 1	3.1	2
91	Cetylpyridinium Bromide/Polyvinyl Chloride for Substantially Efficient Capture of Rare Earth Elements from Chloride Solution.. <i>Polymers</i> , 2022 , 14,	4.5	2
90	Structure, Morphology and Electrical/Magnetic Properties of Ni-Mg Nano-Ferrites from a New Perspective.. <i>Nanomaterials</i> , 2022 , 12,	5.4	2
89	Nonlinear Optical Limiting and Radiation Shielding Characteristics of SmO Doped Cadmium Sodium Lithium Borate Glasses.. <i>Materials</i> , 2022 , 15,	3.5	2
88	Examinations the optical, mechanical, and shielding properties of AgO doped BO-BiO-SrF-NaO glasses for gamma ray shield applications.. <i>Scientific Reports</i> , 2022 , 12, 3548	4.9	2
87	Effect of TeO ₂ addition on the gamma radiation shielding competence and mechanical properties of boro-tellurite glass: an experimental approach. <i>Journal of Materials Research and Technology</i> , 2022 , 18, 1017-1027	5.5	2
86	Theoretical Investigation of the radiation-protection properties of the CBS glass family. <i>Optik</i> , 2022 , 258, 168851	2.5	2
85	Insights into Sorption-Mineralization Mechanism for Sustainable Granular Composite of MgO-CaO-AlO-SiO-CO Based on Nanosized Adsorption Centers and Its Effect on Aqueous Cu(II) Removal.. <i>Nanomaterials</i> , 2021 , 12,	5.4	2
84	Bio-Synthesized Tin Oxide Nanoparticles: Structural, Optical, and Biological Studies. <i>Crystals</i> , 2022 , 12, 614	2.3	2
83	Removal of uranium from nuclear effluent using regenerated bleaching earth steeped in Ethaphthol. <i>Radiation Physics and Chemistry</i> , 2022 , 110204	2.5	2
82	Effect of iron and ferrosilicon materials to enhance the radiation shielding ability of bentonite clay. <i>Radiation Physics and Chemistry</i> , 2022 , 110235	2.5	2
81	Electronic polarizability, dielectric and gamma-ray shielding features of PbO-B ₂ O ₅ -Na ₂ O-Al ₂ O ₃ glasses doped with MoO ₃ . <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 22075-22084	2.1	1
80	Gamma-ray attenuation competences and optical characterization of MgO-MoO ₃ -TeO ₂ -BaO glasses. <i>Applied Physics A: Materials Science and Processing</i> , 2020 , 126, 1	2.6	1

79	Development of Novel Transparent Radiation Shielding Glasses by BaO Doping in Waste Soda Lime Silica (SLS) Glass. <i>Sustainability</i> , 2022 , 14, 937	3.6	1
78	Synthesis, FTIR, and mechanical as well as radiation shielding characteristics in Nd ₂ O ₃ -doped bismuth lithium borate glasses. <i>Ceramics International</i> , 2022 ,	5.1	1
77	Enhancing the gamma-ray attenuation parameters of mixed bismuth/barium borosilicate glasses: Using an experimental method, Geant4 code and XCOM software. <i>Progress in Nuclear Energy</i> , 2022 , 145, 104124	2.3	1
76	Applicability of the multispectral remote sensing on determining the natural rock complexes distribution and their evaluability on the radiation protection applications. <i>Radiation Physics and Chemistry</i> , 2022 , 193, 110004	2.5	1
75	Water Treatment from MB Using Zn-Ag MWCNT Synthesized by Double Arc Discharge. <i>Materials</i> , 2021 , 14,	3.5	1
74	Convolution model for COVID-19 rate predictions and health effort levels computation for Saudi Arabia, France, and Canada. <i>Scientific Reports</i> , 2021 , 11, 22664	4.9	1
73	Radiological monitoring in some coastal regions of the Saudi Arabian Gulf close to the Iranian Bushehr nuclear plant. <i>Marine Pollution Bulletin</i> , 2021 , 113146	6.7	1
72	Heterovalent substituted BaFe _{12-x} Sn _x O ₁₉ (0.1 ≤ x ≤ 2) M-type hexaferrite: Chemical composition, phase separation, magnetic properties and electrodynamic features. <i>Journal of Alloys and Compounds</i> , 2021 , 896, 163117	5.7	1
71	Impact of additives on the structural, elastic, optical and radiation resisting aptitude of the highly dense Sm ³⁺ doped multicomponent glasses. <i>Optical Materials</i> , 2021 , 122, 111758	3.3	1
70	Synthesis, mechanical characterization and photon radiation shielding properties of ZnO-Al ₂ O ₃ -Bi ₂ O ₃ -B ₂ O ₃ glass system. <i>Optical Materials</i> , 2021 , 122, 111640	3.3	1
69	Exploration of the B ₂ O ₃ -Bi ₂ O ₃ -MoO ₃ glass system based on its physical, optical, and gamma ray shielding capabilities. <i>Optik</i> , 2021 , 248, 168177	2.5	1
68	Measurement of L X-ray production cross sections and relative intensities of some lanthanide compounds depending on the temperature. <i>Radiochimica Acta</i> , 2020 , 108, 415-423	1.9	1
67	Quality Assessment of Bottled and Unbottled Drinking Water in Bangladesh. <i>Water (Switzerland)</i> , 2021 , 13, 2026	3	1
66	Gamma radiation attenuation characteristics for lithium-zinc-tellurite glasses using Geant4 code and PDS computer software. <i>Ceramics International</i> , 2021 , 47, 1660-1665	5.1	1
65	An extensive study on nuclear shielding performance and mass stopping power (MSP)/projected ranges (PR) of some selected granite samples. <i>Radiation Effects and Defects in Solids</i> , 2021 , 176, 320-340 ^{0.9}		1
64	Synthesis, physical, optical properties, and gamma-ray absorbing competency or capability of PbO-B ₂ O ₃ -CaO glasses reinforced with Nd ³⁺ /Er ³⁺ ions. <i>European Physical Journal Plus</i> , 2021 , 136, 1	3.1	1
63	Evaluation of the Radiation Shielding Characteristics of Several Glass Systems Using the EPICS2017 Library. <i>Arabian Journal for Science and Engineering</i> , 2021 , 1-10	2.5	1
62	The Vital Role of LaO on the LaO-CaO-BO-SiO Glass System for Shielding Some Common Gamma Ray Radioactive Sources. <i>Materials</i> , 2021 , 14,	3.5	1

61	Gamma-ray shielding, physical, and structural characteristics of TeO ₂ -doped PbO-B ₂ O ₃ glasses. <i>Optical Materials</i> , 2021 , 119, 111333	3.3	1
60	Developed barium fluoride-based borate glass: Ag ₂ O impacts on optical and gamma-ray attenuation properties. <i>Optik</i> , 2021 , 244, 167479	2.5	1
59	Fabrication, structure, physical and optical features of the 50B ₂ O ₃ + 25Bi ₂ O ₃ + (25-x) Li ₂ O + xSrO ₂ glasses. <i>Optik</i> , 2021 , 244, 167485	2.5	1
58	The photon interactions and build-up factor for gadolinium sodium borate glass: Theoretical and experimental approaches. <i>Radiation Physics and Chemistry</i> , 2021 , 188, 109561	2.5	1
57	LiKBpBx glasses: Physical, structural and gamma ray shielding competence. <i>Optik</i> , 2021 , 247, 167835	2.5	1
56	Environment influence on the crystal field and Racah parameters of constant NiO-doped borosilicate glasses. <i>Optik</i> , 2021 , 247, 167861	2.5	1
55	The Effect of WO ₃ -Doped Soda Lime Silica SLS Waste Glass to Develop Lead-Free Glass as a Shielding Material against Radiation. <i>Sustainability</i> , 2022 , 14, 2413	3.6	1
54	The role of different modifiers on radiation shielding, optical, and physical properties for strontium boro-tellurite glass. <i>Ceramics International</i> , 2022 ,	5.1	1
53	Natural Radionuclide Levels and Radiological Hazards of Khour Abalea Mineralized Pegmatites, Southeastern Desert, Egypt. <i>Minerals (Basel, Switzerland)</i> , 2022 , 12, 353	2.4	1
52	Radiation shielding properties of bi-ferroic ceramics added with CNTs. <i>Radiation Physics and Chemistry</i> , 2022 , 110096	2.5	1
51	Nanosecond nonlinear optical, optical limiting and structural properties of Eu ³⁺ activated antimony sodium borate glasses embedded with silver nanoparticles: Effect of heat treatment. <i>Optical Materials</i> , 2022 , 125, 112106	3.3	1
50	Assessment of radioactivity in Granitoids at Nikeiba, Southeastern Desert, Egypt; radionuclides concentrations and radiological hazard parameters. <i>Radiation Physics and Chemistry</i> , 2022 , 110113	2.5	1
49	Investigation of photon attenuation factors for TeO ₂ -Bi ₂ O ₃ -B ₂ O ₃ glass systems using SRIM codes, EPICS2017 library and Phy-X/PSD. <i>Optik</i> , 2022 , 257, 168832	2.5	1
48	Investigation of the mechanical and radiation shielding features for BaO-WO ₃ -P ₂ O ₅ glass systems. <i>Optik</i> , 2022 , 258, 168810	2.5	1
47	Probing the effect of PbO on the mechanical and gamma ray shielding properties of CuO [CaO] B ₂ O ₃ glasses. <i>Optik</i> , 2022 , 257, 168853	2.5	1
46	Simulation of the impact of Bi ₂ O ₃ on the performance of gamma-ray protection for lithium zinc silicate glasses. <i>Optik</i> , 2022 , 257, 168861	2.5	1
45	Gamma-ray protection capacity evaluation and satellite data based mapping for the limestone, charnockite, and gneiss rocks in the Sirugudi taluk of the Dindigul district, India. <i>Radiation Physics and Chemistry</i> , 2022 , 196, 110108	2.5	1
44	Effects of TiO ₂ , V ₂ O ₅ , MnO ₂ and Tl ₂ O ₃ on structural, physical, optical and ionizing radiation shielding properties of strontium boro-tellurite glass: An experimental study. <i>Optical Materials</i> , 2022 , 127, 112350	3.3	1

43	Investigation of the photon shielding capability of kaolin clay added with micro and nanoparticles of Bi ₂ O ₃ . <i>Radiation Physics and Chemistry</i> , 2022 , 110191	2.5	1
42	WCu composites fabrication and experimental study of the shielding efficiency against ionizing radiation. <i>Radiation Physics and Chemistry</i> , 2022 , 110175	2.5	1
41	Isostatic Hot Pressed WCu Composites with Nanosized Grain Boundaries: Microstructure, Structure and Radiation Shielding Efficiency against Gamma Rays. <i>Nanomaterials</i> , 2022 , 12, 1642	5.4	1
40	Preparation, radiation shielding and mechanical characterization of PbO–TeO ₂ –MgO–Na ₂ O–B ₂ O ₃ glasses. <i>Radiation Physics and Chemistry</i> , 2022 , 198, 110254	2.5	1
39	Assessment of Radioactive Materials in Albite Granites from Abu Rusheid and Um Naggat, Central Eastern Desert, Egypt. <i>Minerals (Basel, Switzerland)</i> , 2022 , 12, 120	2.4	0
38	Influence of increasing SnO content on the mechanical, optical, and gamma-ray shielding characteristics of a lithium zinc borate glass system.. <i>Scientific Reports</i> , 2022 , 12, 1800	4.9	0
37	Comparing basic radiation attenuation factors of tellurite glasses containing PbCl ₂ and Bi ₂ O ₃ with some other potential glass systems. <i>Optik</i> , 2021 , 168247	2.5	0
36	Optimising the Eu ₂ O ₃ concentration and tuning the photoluminescence attributes of Eu ₂ O ₃ doped borate glasses by Co doping with silver nanoparticles. <i>Journal of Non-Crystalline Solids</i> , 2022 , 576, 121250	3.9	0
35	Impact of replacement of B ₂ O ₃ by TeO ₂ on the physical, optical and gamma ray shielding characteristics of Pb-free B ₂ O ₃ -TeO ₂ -ZnO-Al ₂ O ₃ -Li ₂ O-MgO glass system. <i>Optik</i> , 2021 , 248, 168100	2.5	0
34	Mechanical and Gamma-Ray Interaction Studies of PbO–MoO ₃ –Li ₂ O–B ₂ O ₃ Glass System for Shielding Applications in The Low Energy Region: A Theoretical Approach. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 5538	2.6	0
33	Exploration on dysprosium ions doped zinc barium boro-tellurite glasses towards radiation screening and photonic applications. <i>Physica B: Condensed Matter</i> , 2021 , 612, 412991	2.8	0
32	Fabrication and Characterization of Clay-Polyethylene Composite Opted for Shielding of Ionizing Radiation. <i>Crystals</i> , 2021 , 11, 1068	2.3	0
31	Newly developed glass samples containing P ₂ O ₅ –B ₂ O ₃ –Bi ₂ O ₃ –Li ₂ O–CdO and their performance in optical and radiation attenuation applications. <i>Optik</i> , 2021 , 242, 167219	2.5	0
30	Radiation shielding features for a new glass system based on tellurite oxide. <i>Radiation Physics and Chemistry</i> , 2022 , 110094	2.5	0
29	Assessment of mechanical and radiation shielding capacity for a ternary CdO–BaO–B ₂ O ₃ glass system: A comprehensive experimental, Monte Carlo simulation, and theoretical studies. <i>Progress in Nuclear Energy</i> , 2022 , 146, 104169	2.3	0
28	Effect of different modifiers on mechanical and radiation shielding properties of SrO–B ₂ O ₃ –TeO ₂ glass system. <i>Optik</i> , 2022 , 257, 168823	2.5	0
27	Radiation shielding analysis using EPICS2017 and mechanical property characterization of zinc boro-tellurite alumina glasses. <i>Optik</i> , 2022 , 257, 168814	2.5	0
26	Optical and gamma ray shielding behavior of PbO–B ₂ O ₃ –CuO–CaO glasses. <i>Journal of Materials Research and Technology</i> , 2022 , 18, 2494-2505	5.5	0

25	Physical, structural and gamma ray shielding behaviour of PbO-CuO-CaO-B ₂ O ₃ glasses. <i>Optik</i> , 2022 , 258, 168881	2.5	0
24	Structural and radiation shielding features for BaSn _{1-x} Zn _x O ₃ perovskite. <i>Physica B: Condensed Matter</i> , 2022 , 413925	2.8	0
23	Fabrication, characterization, and gamma-ray shielding performance for the lead-based Iraqi white silicate glasses: A closer examination. <i>Optik</i> , 2022 , 169103	2.5	0
22	An experimental study measuring the photon attenuation features of the P ₂ O ₅ -CaO-K ₂ O-Na ₂ O-PbO glass system. <i>Radiation Physics and Chemistry</i> , 2022 , 110153	2.5	0
21	Third-order nonlinear optical properties of Sm ₂ O ₃ activated cadmium alkali borate glasses. <i>Optical Materials</i> , 2022 , 127, 112313	3.3	0
20	Novel efficient alloys for ionizing radiation shielding applications: A theoretical investigation. <i>Radiation Physics and Chemistry</i> , 2022 , 110181	2.5	0
19	The impact of various instances of solar wind speed on the fluctuations of cosmic radiation in the solar minima (23, 24, and 25). <i>Radiation Physics and Chemistry</i> , 2022 , 110134	2.5	0
18	Network-modifying role of Er ³⁺ ions on the structural, optical, mechanical, and radiation shielding properties of ZnF ₂ -BaO-Al ₂ O ₃ -Li ₂ O-B ₂ O ₃ glass. <i>Radiation Physics and Chemistry</i> , 2022 , 110228	2.5	0
17	Structural, magnetic and gamma-ray shielding features of Zn doped Mg ₂ FeTiO ₆ double perovskite. <i>Physica B: Condensed Matter</i> , 2022 , 414024	2.8	0
16	Analysis of Optical and Near-Infrared Luminescence of Er ³⁺ and Er ³⁺ /Yb ³⁺ Co-Doped Heavy Metal Borate Glasses for Optical Amplifier Applications. <i>Photonics</i> , 2022 , 9, 355	2.2	0
15	Improvement in the design of shielding containers for intermediate-level radioactive waste. <i>Radiation Physics and Chemistry</i> , 2022 , 110229	2.5	0
14	Phase-shifts determination for nucleon-nucleon scattering using velocity-dependent potentials. <i>Canadian Journal of Physics</i> , 2016 , 94, 231-235	1.1	
13	Radiation interaction parameters of dosimetric importance for some commonly used compensators in IMRT using Monte Carlo simulation code. <i>Journal of Radiological Protection</i> , 2018 , 38, 1321-1343	1.2	
12	Thermoluminescence Sensitization of Phyllite Natural Rock. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 637	2.6	
11	Understanding the control of inclusion of SrO to the Li ₂ O-K ₂ O-B ₂ O ₃ -SrO glasses on the physical, structural, and gamma ray shielding performance. <i>Journal of the Australian Ceramic Society</i> , 1	1.5	
10	X-ray absorption parameters studies of P ₂ O ₅ -SnCl ₂ -SnO bioactive glass system. <i>Journal of X-Ray Science and Technology</i> , 2021 , 29, 373-382	2.1	
9	Optical and gamma ray shielding properties BaO doped K ₂ O-TiO ₂ -P ₂ O ₅ glasses. <i>Optik</i> , 2021 , 247, 1678935	2.5	
8	Effect of adding SrO, TeO ₂ , PbO, and Bi ₂ O ₃ heavy metal oxides on the optical and gamma ray shielding properties of Li ₂ O-K ₂ O-B ₂ O ₃ glasses. <i>Optik</i> , 2021 , 247, 167848	2.5	

- 7 B2O3-TeO2-K2O-Li2O glasses: Optical and gamma ray shielding characterization. *Optik*, **2021**, 247, 167847
- 6 Prediction of the linear/nonlinear optical, kinetics, mechanical and gamma-ray shielding features of MgO-WO3-TeO2-BaO glasses. *Journal of Materials Science: Materials in Electronics*, **2021**, 32, 3591-3602 ^{2.1}
- 5 Effects of mixed TeO2-B2O3 glass formers on optical and radiation shielding properties of 70[xTeO2+(1-x)B2O3]+15Na2O+(15-x)K2O glass system. *Physica Scripta*, **2022**, 97, 045804 ^{2.6}
- 4 The role of modifier oxides on the photon attenuation characteristics of Nd2O3 doped B2O3-WO3-PbO-Ro2O3 glass systems (with Ro2O3 = Sb2O3, Bi2O3 and Al2O3). *Optik*, **2022**, 257, 168849 ^{3.5}
- 3 Impact of La2O3 reinforcement on the mechanical, and photon shielding properties of La2O3-B2O3 glass. *Optik*, **2022**, 258, 168923 ^{2.5}
- 2 Mechanical property evaluation of tellurite-germanate glasses and comparison of their radiation-shielding characteristics using EPICS2017 to other glass systems. *Open Chemistry*, **2022**, 20, 361-369 ^{1.6}
- 1 Prognostic Exploration of U-F-Au-Mo-W Younger Granites for Geochemical Pathfinders, Genetic Affiliations, and Tectonic Setting in El-Erediya-El-Missikat Province, Eastern Desert, Egypt. *Minerals (Basel, Switzerland)*, **2022**, 12, 518 ^{2.4}