M I Sayyed

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Development of Novel Transparent Radiation Shielding Glasses by BaO Doping in Waste Soda Lime Silica (SLS) Glass. *Sustainability*, **2022**, 14, 937	3.6	1
473	Novel Shielding Mortars for Radiation Source Transportation and Storage. *Sustainability*, **2022**, 14, 1248	3.6	3
472	A New Approach to the Formation of Nanosized Gold and Beryllium Films by Ion-Beam Sputtering Deposition.. *Nanomaterials*, **2022**, 12,	5.4	6
471	Experimental investigation on the physical properties and radiation shielding efficiency of YBa2Cu3Oy/M@M3O4 (M= Co, Mn) ceramic composites. *Journal of Alloys and Compounds*, **2022**, 904, 164056	5.7	6
470	Thermoluminescence Sensitization of Phyllite Natural Rock. *Applied Sciences (Switzerland)*, **2022**, 12, 637	2.6	
469	Synthesis, FTIR, and mechanical as well as radiation shielding characteristics in Nd2O3-doped bismuth lithium borate glasses. *Ceramics International*, **2022**,	5.1	1
468	Assessment of Radioactive Materials in Albite Granites from Abu Rusheid and Um Naggat, Central Eastern Desert, Egypt. *Minerals (Basel, Switzerland)*, **2022**, 12, 120	2.4	0
467	Fabrication of Lead Free Borate Glasses Modified by Bismuth Oxide for Gamma Ray Protection Applications.. *Materials*, **2022**, 15,	3.5	5
466	The combination of high optical transparency and radiation shielding effectiveness of zinc sodium borate glasses by tungsten oxide additions. *Journal of Alloys and Compounds*, **2022**, 904, 164037	5.7	2
465	Recycling and optimizing waste lab glass with Bi2O3 nanoparticles to use as a transparent shield for photons. *Journal of Materials Research and Technology*, **2022**, 17, 2073-2083	5.5	5
464	Influence of increasing SnO content on the mechanical, optical, and gamma-ray shielding characteristics of a lithium zinc borate glass system.. *Scientific Reports*, **2022**, 12, 1800	4.9	0
463	Enhancing the gamma-ray attenuation parameters of mixed bismuth/barium borosilicate glasses: Using an experimental method, Geant4 code and XCOM software. *Progress in Nuclear Energy*, **2022**, 145, 104124	2.3	1
462	Preparation and radiation attenuation properties of ceramic ball clay enhanced with micro and nano ZnO particles. *Journal of Materials Research and Technology*, **2022**, 17, 223-233	5.5	4
461	Applicability of the multispectral remote sensing on determining the natural rock complexes distribution and their evaluability on the radiation protection applications. *Radiation Physics and Chemistry*, **2022**, 193, 110004	2.5	1
460	Rare Earth Group Separation after Extraction Using Sodium Diethyldithiocarbamate/Polyvinyl Chloride from Lamprophyre Dykes Leachate.. *Materials*, **2022**, 15,	3.5	5
459	Effect of sintering conditions on the radiation shielding characteristics of YBCO superconducting ceramics. *Journal of Physics and Chemistry of Solids*, **2022**, 164, 110627	3.9	2
458	Synthesis of different (RE)BaCuO ceramics, study their structural properties, and tracking their radiation protection efficiency using Monte Carlo simulation. *Materials Chemistry and Physics*, **2022**, 276, 125412	4.4	2

457	Optimising the Eu2O3 concentration and tuning the photoluminescence attributes of Eu2O3 doped borate glasses by Co□loping with silver nanoparticles. *Journal of Non-Crystalline Solids*, **2022**, 576, 121250	3.9	0
456	High density of tungsten gadolinium borate glasses for radiation shielding material: Effect of WO3 concentration. *Radiation Physics and Chemistry*, **2022**, 192, 109926	2.5	5
455	Synthesis, characterization, and performance assessment of new composite ceramics towards radiation shielding applications. *Journal of Alloys and Compounds*, **2022**, 899, 163173	5.7	8
454	The Effect of WO3-Doped Soda Lime Silica SLS Waste Glass to Develop Lead-Free Glass as a Shielding Material against Radiation. *Sustainability*, **2022**, 14, 2413	3.6	1
453	The role of different modifiers on radiation shielding, optical, and physical properties for strontium boro-tellurite glass. *Ceramics International*, **2022**,	5.1	1
452	Multispectral remote sensing for determination the Ultra-mafic complexes distribution and their applications in reducing the equivalent dose from the radioactive wastes. *European Physical Journal Plus*, **2022**, 137, 1	3.1	2
451	Cetylpyridinium Bromide/Polyvinyl Chloride for Substantially Efficient Capture of Rare Earth Elements from Chloride Solution.. *Polymers*, **2022**, 14,	4.5	2
450	Sustainable Remedy Waste to Generate SiO2 Functionalized on Graphene Oxide for Removal of U(VI) Ions. *Sustainability*, **2022**, 14, 2699	3.6	4
449	Natural Radionuclide Levels and Radiological Hazards of Khour Abalea Mineralized Pegmatites, Southeastern Desert, Egypt. *Minerals (Basel, Switzerland)*, **2022**, 12, 353	2.4	1
448	Radiation shielding features for a new glass system based on tellurite oxide. *Radiation Physics and Chemistry*, **2022**, 110094	2.5	0
447	The Influence of BiO Nanoparticle Content on the □ray Interaction Parameters of Silicon Rubber.. *Polymers*, **2022**, 14,	4.5	6
446	Structure, Morphology and Electrical/Magnetic Properties of Ni-Mg Nano-Ferrites from a New Perspective.. *Nanomaterials*, **2022**, 12,	5.4	2
445	Effects of mixed TeO2-B2O3 glass formers on optical and radiation shielding properties of 70[xTeO2+(1□)B2O3]+15Na2O□+□15K2O glass system. *Physica Scripta*, **2022**, 97, 045804	2.6	
444	Radiation shielding properties of bi-ferroic ceramics added with CNTs. *Radiation Physics and Chemistry*, **2022**, 110096	2.5	1
443	Nonlinear Optical Limiting and Radiation Shielding Characteristics of SmO Doped Cadmium Sodium Lithium Borate Glasses.. *Materials*, **2022**, 15,	3.5	2
442	Examinations the optical, mechanical, and shielding properties of AgO doped BO-BiO-SrF-NaO glasses for gamma ray shield applications.. *Scientific Reports*, **2022**, 12, 3548	4.9	2
441	Nanosecond nonlinear optical, optical limiting and structural properties of Eu3+ activated antimony sodium borate glasses embedded with silver nanoparticles: Effect of heat treatment. *Optical Materials*, **2022**, 125, 112106	3.3	1
440	Assessment of mechanical and radiation shielding capacity for a ternary CdOBaOB2O3 glass system: A comprehensive experimental, Monte Carlo simulation, and theoretical studies. *Progress in Nuclear Energy*, **2022**, 146, 104169	2.3	0

439	Study of comprehensive shielding behaviors of chambersite deposit for neutron and gamma ray. *Progress in Nuclear Energy*, **2022**, 146, 104155	2.3	24
438	Assessment of radioactivity in Granitoids at Nikeiba, Southeastern Desert, Egypt; radionuclides concentrations and radiological hazard parameters. *Radiation Physics and Chemistry*, **2022**, 110113	2.5	1
437	Investigation of photon attenuation factors for TeO2-Bi2O3B2O3 glass systems using SRIM codes, EPICS2017 library and Phy-X/PSD. *Optik*, **2022**, 257, 168832	2.5	1
436	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	5.5	2
435	Effect of different modifiers on mechanical and radiation shielding properties of SrO-B2O3-TeO2 glass system. *Optik*, **2022**, 257, 168823	2.5	0
434	Investigation of the mechanical and radiation shielding features for BaO-WO3-P2O5 glass systems. *Optik*, **2022**, 258, 168810	2.5	1
433	Probing the effect of PbO on the mechanical and gamma ray shielding properties of CuO CaO B2O3 glasses. *Optik*, **2022**, 257, 168853	2.5	1
432	Theoretical Investigation of the radiation-protection properties of the CBS glass family. *Optik*, **2022**, 258, 168851	2.5	2
431	Radiation shielding analysis using EPICS2017 and mechanical property characterization of zinc boro-tellurite alumina glasses. *Optik*, **2022**, 257, 168814	2.5	0
430	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	2.5	
429	Impact of La2O3 reinforcement on the mechanical, and photon shielding properties of La2O3-B2O3 glass. *Optik*, **2022**, 258, 168923	2.5	
428	Optical and gamma ray shielding behavior of PbOB2O3CuOCaO glasses. *Journal of Materials Research and Technology*, **2022**, 18, 2494-2505	5.5	0
427	Simulation of the impact of Bi2O3 on the performance of gamma-ray protection for lithium zinc silicate glasses. *Optik*, **2022**, 257, 168861	2.5	1
426	Physical, structural and gamma ray shielding behaviour of PbO-CuO-CaO-B2O3 glasses. *Optik*, **2022**, 258, 168881	2.5	0
425	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. *Radiation Physics and Chemistry*, **2022**, 196, 110108	2.5	1
424	Structure, optical properties, and ionizing radiation shielding performance using Monte Carlo simulation for lead-free BTO perovskite ceramics doped with ZnO, SiO2, and WO3 oxides. *Materials Science in Semiconductor Processing*, **2022**, 145, 106629	4.3	3
423	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. *Journal of Cleaner Production*, **2022**, 131817	10.3	7
422	Structural and radiation shielding features for BaSn1-xZnxO3 perovskite. *Physica B: Condensed Matter*, **2022**, 413925	2.8	0

421	Fabrication, characterization, and gamma-ray shielding performance for the lead-based Iraqi white silicate glasses: A closer examination. *Optik*, **2022**, 169103	2.5	0
420	An experimental study measuring the photon attenuation features of the P2O5□aOK2ONa2OPbO glass system. *Radiation Physics and Chemistry*, **2022**, 110153	2.5	0
419	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	3.3	1
418	Third-order nonlinear optical properties of Sm2O3 activated cadmium alkali borate glasses. *Optical Materials*, **2022**, 127, 112313	3.3	0
417	Mechanical property evaluation of telluriteermanate glasses and comparison of their radiation-shielding characteristics using EPICS2017 to other glass systems. *Open Chemistry*, **2022**, 20, 361-369	1.6	
416	Comparison of radiation shielding ability of Bi2O3 micro and nanoparticles for radiation shields. *Radiation Physics and Chemistry*, **2022**, 110170	2.5	3
415	Novel efficient alloys for ionizing radiation shielding applications: A theoretical investigation. *Radiation Physics and Chemistry*, **2022**, 110181	2.5	0
414	Assessment of radiation attenuation properties for novel alloys: An experimental approach. *Radiation Physics and Chemistry*, **2022**, 110152	2.5	4
413	Bio-Synthesized Tin Oxide Nanoparticles: Structural, Optical, and Biological Studies. *Crystals*, **2022**, 12, 614	2.3	2
412	Synthesis of a New Chelating Iminophosphorane Derivative (Phosphazene) for U(VI) Recovery.. *Polymers*, **2022**, 14,	4.5	4
411	Investigation of the photon shielding capability of kaolin clay added with micro and nanoparticles of Bi2O3. *Radiation Physics and Chemistry*, **2022**, 110191	2.5	1
410	The impact of various instances of solar wind speed on the fluctuations of cosmic radiation in the solar minima (23, 24, and 25). *Radiation Physics and Chemistry*, **2022**, 110134	2.5	0
409	WCu composites fabrication and experimental study of the shielding efficiency against ionizing radiation. *Radiation Physics and Chemistry*, **2022**, 110175	2.5	1
408	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	
407	Evaluation of radiation shielding characteristics of B2O3K2OLi2O - HMO (HMO = TeO2/ SrO /PbO/Bi2O3) glass system: A simulation study using MCNP5 code. *Radiation Physics and Chemistry*, **2022**, 110172	2.5	3
406	Isostatic Hot Pressed WCu Composites with Nanosized Grain Boundaries: Microstructure, Structure and Radiation Shielding Efficiency against Gamma Rays. *Nanomaterials*, **2022**, 12, 1642	5.4	1
405	Removal of uranium from nuclear effluent using regenerated bleaching earth steeped in haphthol. *Radiation Physics and Chemistry*, **2022**, 110204	2.5	2
404	Effect of iron and ferrosilicon materials to enhance the radiation shielding ability of bentonite clay. *Radiation Physics and Chemistry*, **2022**, 110235	2.5	2

403	TeO2SiO2B2O3 glasses doped with CeO2 for gamma radiation shielding and dosimetry application. *Radiation Physics and Chemistry*, **2022**, 110233	2.5	4
402	Network-modifying role of Er3+ ions on the structural, optical, mechanical, and radiation shielding properties of ZnF2BaOAl2O3Li2OB2O3 glass. *Radiation Physics and Chemistry*, **2022**, 110228	2.5	0
401	Structural, magnetic and gamma-ray shielding features of Zn doped Mg2FeTiO6 double perovskite. *Physica B: Condensed Matter*, **2022**, 414024	2.8	0
400	Assessment of radiation shielding behavior of some mixed nature clays. *Radiation Physics and Chemistry*, **2022**, 110236	2.5	3
399	Analysis of Optical and Near-Infrared Luminescence of Er3+ and Er3+/Yb3+ Co-Doped Heavy Metal Borate Glasses for Optical Amplifier Applications. *Photonics*, **2022**, 9, 355	2.2	0
398	Improvement in the design of shielding containers for intermediate-level radioactive waste. *Radiation Physics and Chemistry*, **2022**, 110229	2.5	0
397	Preparation, radiation shielding and mechanical characterization of PbOTeO2MgONa2OB2O3 glasses. *Radiation Physics and Chemistry*, **2022**, 198, 110254	2.5	1
396	Radiological Investigation on Sediments: A Case Study of Wadi Rod Elsayalla the Southeastern Desert of Egypt. *Applied Sciences (Switzerland)*, **2021**, 11, 11884	2.6	4
395	Enhancement of Ceramics Based Red-Clay by Bulk and Nano Metal Oxides for Photon Shielding Features.. *Materials*, **2021**, 14,	3.5	4
394	Investigation of some drug active substances able to protect against radiation damage with experimental and Monte Carlo calculations. *Radiation Physics and Chemistry*, **2021**, 191, 109850	2.5	2
393	Near-infrared nonlinear optical characteristics of silver nanoparticles embedded borate glasses activated with Sm3+ ions: Effect of heat treatment. *Infrared Physics and Technology*, **2021**, 119, 103959	2.7	3
392	Comparing basic radiation attenuation factors of tellurite glasses containing PbCl2 and Bi2O3 with some other potential glass systems. *Optik*, **2021**, 168247	2.5	0
391	Adsorption of Yttrium Ions on 3-Amino-5-Hydroxypyrazole Impregnated Bleaching Clay, a Novel Sorbent Material. *Applied Sciences (Switzerland)*, **2021**, 11, 10320	2.6	7
390	Investigation of Photon Radiation Attenuation Capability of Different Clay Materials. *Materials*, **2021**, 14,	3.5	8
389	Water Treatment from MB Using Zn-Ag MWCNT Synthesized by Double Arc Discharge. *Materials*, **2021**, 14,	3.5	1
388	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	2.6	3
387	Convolution model for COVID-19 rate predictions and health effort levels computation for Saudi Arabia, France, and Canada. *Scientific Reports*, **2021**, 11, 22664	4.9	1
386	Improved near-infrared nonlinear optical properties of Sm3+ containing borate glasses: Effect of silver nanoparticles concentration. *Optical Materials*, **2021**, 111804	3.3	3

385	Radiological monitoring in some coastal regions of the Saudi Arabian Gulf close to the Iranian Bushehr nuclear plant. *Marine Pollution Bulletin*, **2021**, 113146	6.7	1
384	Impact of tin oxide on the structural features and radiation shielding response of some ABO3 perovskites ceramics (A = Ca, Sr, Ba; B = Ti). *Applied Physics A: Materials Science and Processing*, **2021**, 127, 1	2.6	3
383	Photoluminescence, nonlinear optical and gamma radiation shielding properties of high concentration of Eu2O3 doped heavy metal borate glasses. *Optik*, **2021**, 168433	2.5	3
382	Heterovalent substituted BaFe12-xSnxO19 (0.1≤x≤1.2) M-type hexaferrite: Chemical composition, phase separation, magnetic properties and electrodynamics features. *Journal of Alloys and Compounds*, **2021**, 896, 163117	5.7	1
381	Impact of additives on the structural, elastic, optical and radiation resisting aptitude of the highly dense Sm3+ doped multicomponent glasses. *Optical Materials*, **2021**, 122, 111758	3.3	1
380	Enhancement of the Shielding Capability of Soda–lime Glasses with Sb2O3 Dopant: A Potential Material for Radiation Safety in Nuclear Installations. *Applied Sciences (Switzerland)*, **2021**, 11, 326	2.6	20
379	Impact of replacement of B2O3 by TeO2 on the physical, optical and gamma ray shielding characteristics of Pb-free B2O3-TeO2-ZnO-Al2O3-Li2O-MgO glass system. *Optik*, **2021**, 248, 168100	2.5	0
378	Implementation of waste silicate glass into composition of ordinary cement for radiation shielding applications. *Nuclear Engineering and Technology*, **2021**,	2.6	15
377	Impact of micro and nano aluminium on the efficiency of photon detectors. *Results in Physics*, **2021**, 30, 104908	3.7	9
376	Impact of Bi2O3 on optical properties and radiation attenuation characteristics of Bi2O3-Li2O-P2O5 glasses. *Optik*, **2021**, 248, 168081	2.5	3
375	Synthesis, mechanical characterization and photon radiation shielding properties of ZnO–Al2O3–Bi2O3–B2O3 glass system. *Optical Materials*, **2021**, 122, 111640	3.3	1
374	Exploration of the B2O3-Bi2O3-MoO3 glass system based on its physical, optical, and gamma ray shielding capabilities. *Optik*, **2021**, 248, 168177	2.5	1
373	Evaluation of structural and gamma ray shielding competence of Li2O-K2O-B2O3-HMO (HMO = SrO/TeO2/PbO/Bi2O3) glass system. *Optik*, **2021**, 248, 168074	2.5	9
372	Understanding the Effect of Introducing Micro- and Nanoparticle Bismuth Oxide (BiO) on the Gamma Ray Shielding Performance of Novel Concrete. *Materials*, **2021**, 14,	3.5	5
371	Radiation shielding characterizations and investigation of TeO2–WO3–Bi2O3 and TeO2–WO3–PbO glasses. *Applied Physics A: Materials Science and Processing*, **2021**, 127, 1	2.6	63
370	Gamma ray exposure buildup factor and shielding features for some binary alloys using MCNP-5 simulation code. *Nuclear Engineering and Technology*, **2021**,	2.6	3
369	The presence of radioactive heavy minerals in prospecting trenches and concomitant occupational exposure. *PLoS ONE*, **2021**, 16, e0249329	3.7	6
368	Development of new heavy concretes containing chrome-ore for nuclear radiation shielding applications. *Progress in Nuclear Energy*, **2021**, 133, 103645	2.3	12

367	Effects of Na2O on optical and radiation shielding properties of xNa2O-(20-x)K2O-30V2O5-50TeO2 mixed alkali glasses. *Results in Physics*, **2021**, 22, 103946	3.7	4
366	X- ray absorption parameters studies of P2O5- SnCl2-SnO bioactive glass system. *Journal of X-Ray Science and Technology*, **2021**, 29, 373-382	2.1	
365	X-ray shielding characteristics of P2O5Nb2O5 glass doped with Bi2O3 by using EPICS2017 and Phy-X/PSD. *Applied Physics A: Materials Science and Processing*, **2021**, 127, 1	2.6	27
364	Influence of heavy metal oxides to the mechanical and radiation shielding properties of borate and silica glass system. *Journal of Materials Research and Technology*, **2021**, 11, 1322-1330	5.5	5
363	Optical, mechanical properties and gamma ray shielding behavior of TeO2-Bi2O3-PbO-MgO-B2O3 glasses using FLUKA simulation code. *Optical Materials*, **2021**, 113, 110900	3.3	23
362	Structural, optical and radiation shielding properties of ZirconiumTitaniumThallium Ternary Oxide (0.5ZrO2-(0.5-x)TiO2-xTl2O3). *Ceramics International*, **2021**,	5.1	2
361	Fabrication of TeO2-doped strontium borate glasses possessing optimum physical, structural, optical and gamma ray shielding properties. *European Physical Journal Plus*, **2021**, 136, 1	3.1	2
360	A comprehensive investigation on the role of PbO in the structural and radiation shielding attribute of P2O5CaONa2OK2OPbO glass system. *Journal of Materials Science: Materials in Electronics*, **2021**, 32, 12371-12382	2.1	7
359	Nonlinear optical, optical limiting and radiation shielding features of Eu3+ activated borate glasses. *Optik*, **2021**, 232, 166563	2.5	4
358	Evaluation of gamma-rays attenuation competences for waste soda-lime glass containing MoO3: Experimental study, XCOM computations, and MCNP-5 results.. *Journal of Non-Crystalline Solids*, **2021**, 557, 120572	3.9	7
357	Understanding the role of Bi2O3 in the P2O5CaONa2OK2O glass system in terms of physical, structural and radiation shielding properties. *Journal of Materials Science: Materials in Electronics*, **2021**, 32, 11649-11665	2.1	8
356	The tungsten oxide within phosphate glasses to investigate the structural, optical, and shielding properties variations. *Journal of Materials Science: Materials in Electronics*, **2021**, 32, 12402-12413	2.1	4
355	Physical, structural, and gamma ray shielding studies on novel (35+x) PbO-5TeO2-20Bi2O3-(20-x) MgO-20B2O3 glasses. *Journal of the Australian Ceramic Society*, **2021**, 57, 971	1.5	2
354	Effect of heavy metal oxides on photoluminescence and spectroscopic attributes of Eu3+ activated borate glasses. *Optical Materials*, **2021**, 114, 110933	3.3	9
353	Tailoring bismuth borate glasses by incorporating PbO/GeO for protection against nuclear radiation. *Scientific Reports*, **2021**, 11, 7784	4.9	10
352	A comprehensive study on the optical, mechanical, and radiation shielding properties of the TeO2Li2OGeO2 glass system. *Journal of Materials Science: Materials in Electronics*, **2021**, 32, 15226-15241	2.1	3
351	Structural, optical, and radiation shielding features for a series of borate glassy system modified by molybdenum oxide. *European Physical Journal Plus*, **2021**, 136, 1	3.1	5
350	Assessment of gamma-radiation attenuation characteristics of Bi2O3B2O3SiO2Na2O glasses using Geant4 simulation code. *European Physical Journal Plus*, **2021**, 136, 1	3.1	26

349	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	3.9	6
348	Nanosecond nonlinear optical, optical limiting and gamma radiation shielding attributes of Eu3+ ions doped heavy metal borate glasses. *Ceramics International*, **2021**, 47, 14330-14340	5.1	11
347	Radiation shielding characteristics of selected ceramics using the EPICS2017 library. *Ceramics International*, **2021**, 47, 13181-13186	5.1	26
346	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. *Radiation Physics and Chemistry*, **2021**, 182, 109351	2.5	6
345	Comprehensive study of radiation shielding and mechanical features of Bi2O3-TeO2-B2O3-GeO2 glasses. *Journal of the Australian Ceramic Society*, **2021**, 57, 1267-1274	1.5	5
344	Gamma Ray Shielding Properties of Yb3+-Doped Calcium Borotellurite Glasses. *Applied Sciences (Switzerland)*, **2021**, 11, 5697	2.6	4
343	Mechanical and Gamma-Ray Interaction Studies of PbO□MoO3□i2O□B2O3 Glass System for Shielding Applications in The Low Energy Region: A Theoretical Approach. *Applied Sciences (Switzerland)*, **2021**, 11, 5538	2.6	0
342	The Influence of Titanium Dioxide on Silicate-Based Glasses: An Evaluation of the Mechanical and Radiation Shielding Properties. *Materials*, **2021**, 14,	3.5	2
341	Structural, mechanical, and nuclear radiation shielding properties of iron aluminoleadborate glasses. *European Physical Journal Plus*, **2021**, 136, 1	3.1	5
340	Influence of gamma irradiation on photoluminescence and nonlinear optical properties of Eu3+ activated heavy metal borate glasses. *Optical Materials*, **2021**, 116, 111102	3.3	4
339	Mechanical and Gamma Ray Absorption Behavior of PbO-WO-NaO-MgO-BO Glasses in the Low Energy Range. *Materials*, **2021**, 14,	3.5	5
338	The Role of LaO in Enhancement the Radiation Shielding Efficiency of the Tellurite Glasses: Monte-Carlo Simulation and Theoretical Study. *Materials*, **2021**, 14,	3.5	2
337	Quality Assessment of Bottled and Unbottled Drinking Water in Bangladesh. *Water (Switzerland)*, **2021**, 13, 2026	3	1
336	Effect of bulk and nanoparticle Bi2O3 on attenuation capability of radiation shielding glass. *Ceramics International*, **2021**, 47, 19651-19658	5.1	19
335	Experimental and Theoretical Study of Radiation Shielding Features of CaO-KO-NaO-PO Glass Systems. *Materials*, **2021**, 14,	3.5	30
334	Radiation shielding properties of selected alloys using EPICS2017 data library. *Progress in Nuclear Energy*, **2021**, 137, 103748	2.3	7
333	Radiation shielding study of WO3□nO□PbO□B2O3 glasses using Geant4 and Phys-X: A comparative study. *Ceramics International*, **2021**, 47, 3988-3993	5.1	5
332	Optical properties and radiation shielding features of Er3+ ions doped B2O3□iO2□d2O3□aO glasses. *Ceramics International*, **2021**, 47, 3421-3429	5.1	14

331	Radiation shielding properties of tellurite-lead-tungsten glasses against gamma and beta radiations. *Journal of Non-Crystalline Solids*, **2021**, 551, 120430	3.9	15
330	Gamma radiation attenuation characteristics for lithium-zinc-tellurite glasses using Geant4 code and PDS computer software. *Ceramics International*, **2021**, 47, 1660-1665	5.1	1
329	Investigation of photon, neutron and proton shielding features of H3BO3ZnONa2OBaO glass system. *Nuclear Engineering and Technology*, **2021**, 53, 949-959	2.6	23
328	Physical, optical and gamma radiation shielding competence of newly boro-tellurite based glasses: TeO2B2O3ZnOi2O3Bi2O3. *Ceramics International*, **2021**, 47, 611-618	5.1	71
327	An extensive study on nuclear shielding performance and mass stopping power (MSP)/projected ranges (PR) of some selected granite samples. *Radiation Effects and Defects in Solids*, **2021**, 176, 320-340	0.9	1
326	Synthesis, optical and radiation shielding capacity of the Sm2O3 doped borate glasses. *Journal of Non-Crystalline Solids*, **2021**, 553, 120505	3.9	5
325	Influence of modifier oxide on the structural and radiation shielding features of Sm3+-doped calcium telluro-fluoroborate glass systems. *Journal of the Australian Ceramic Society*, **2021**, 57, 275-286	1.5	32
324	Ge-Se-Sb-Ag chalcogenide glasses for nuclear radiation shielding applications. *Ceramics International*, **2021**, 47, 1303-1309	5.1	13
323	A thorough investigation of the Bi2O3PbCl2TeO2 system: Glass forming region, thermal, physical, optical, structural, mechanical and radiation shielding properties. *Journal of Alloys and Compounds*, **2021**, 857, 158279	5.7	6
322	Linear optical features and radiation shielding competence of ZnOB2O3TeO2-Eu2O3 glasses: Role of Eu3+ ions. *Optical Materials*, **2021**, 111, 110525	3.3	6
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