Chalermpon Mutuwong

List of Publications by Year
in descending order

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26	685	567281 15	580821 25
papers	citations	h-index	g-index

26	26	26	204
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Amorphous alloys with high Fe content for radiation shielding applications. Radiation Physics and Chemistry, 2021, 183, 109386.	2.8	123
2	Nuclear shielding properties of Ni-, Fe-, Pb-, and W-based alloys. Radiation Physics and Chemistry, 2022, 195, 110090.	2.8	60
3	Role of heavy metal oxides on the radiation attenuation properties of newly developed TBBE-X glasses by computational methods. Physica Scripta, 2021, 96, 075302.	2.5	55
4	Microâ€hardness and gammaâ€ray attenuation properties of lead iron phosphate glasses. Journal of Materials Science: Materials in Electronics, 2021, 32, 13906-13916.	2.2	51
5	Synthesis of Pb3O4-SiO2-ZnO-WO3 Glasses and their Fundamental Properties for Gamma Shielding Applications. Silicon, 2022, 14, 5661-5671.	3.3	38
6	Optical, elastic, and radiation shielding properties of Bi2O3-PbO-B2O3 glass system: A role of SnO2 addition. Optik, 2021, 248, 168047.	2.9	35
7	Effects of MgO addition on the radiation attenuation properties of 45S5 bioglass system at the energies of medical interest: an in silico study. Journal of the Australian Ceramic Society, 2021, 57, 1107-1115.	1.9	31
8	Determining the optical properties and simulating the radiation shielding parameters of Dy3+ doped lithium yttrium borate glasses. Optik, 2022, 250, 168318.	2.9	31
9	Ge20Se80-xBix (xâ€‰â‰€â€‰12) chalcogenide glasses for infrared and gamma sensing applications: structural, optical and gamma attenuation aspects. Journal of Materials Science: Materials in Electronics, 2021, 32, 15509-15522.	2.2	28
10	Evaluation of optical features and ionizing radiation shielding competences of TeO2â€“Li2O (TL) glasses via Geant4 simulation code and Phy-X/PSD program. Optical Materials, 2020, 108, 110394.	3.6	25
11	Comparison of radiation shielding and elastic properties of germinate tellurite glasses with the addition of Ga₂O₃. Journal of Taibah University for Science, 2022, 16, 183-192.	2.5	25
12	The effects of V2O5/K2O substitution on linear and nonlinear optical properties and the gamma ray shielding performance of TVK glasses. Ceramics International, 2021, 47, 1012-1020.	4.8	24
13	Elastic properties and radiation shielding ability of ZnOâ€“P2O5/B2O3 glass system. Journal of Materials Science: Materials in Electronics, 2021, 32, 19203-19217.	2.2	23
14	Estimation of radiation protection ability of borate glass system doped with CdO, PbO, and TeO2. Radiation Physics and Chemistry, 2022, 193, 109996.	2.8	21
15	Optical and gamma-ray absorption features of newly developed P2O5â^'Ce2O3â^'La2O3 glass system. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	17
16	Gamma, neutron, and charged-particles shielding properties of tellurite glass system containing Sb2O3 and V2O5. Journal of Materials Science: Materials in Electronics, 2021, 32, 28275-28286.	2.2	14
17	Optical properties and radiation shielding competence of Bi/Te-BGe glass system containing B2O3 and GeO2. Optik, 2022, 257, 168883.	2.9	12
18	A theoretical study on the radiation shielding performance of borate and tellurite glasses. Solid State Sciences, 2022, 129, 106902.	3.2	12

#	Article	IF	Citations
19	Effects of AgO addition on the mechanical, optical, and radiation attenuation properties of V2O5/P2O5/B2O3 glass system. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	11
20	Effects of reducing PbO content on the elastic and radiation attenuation properties of germanate glasses: a new nonâ€toxic candidate for shielding applications. Journal of Materials Science: Materials in Electronics, 2021, 32, 15080-15094.	2.2	11
21	The significant role of CeO₂ content on the radiation shielding performance of Fe₂O₃-P₂O₅ glass-ceramics: Geant4 simulations study. Physica Scripta, 2021, 96, 115305.	2.5	11
22	Investigation of the radiation shielding capability of $${x}hbox {PbO}$$â€“$$(50-x)hbox {BaO}$$â€“$$50{hbox {B}}_2 {hbox {O}}_3$$ glass system using Geant4, Fluka, WinXCOM and comparison of data with the experimental data. Pramana - Journal of Physics, 2020, 94, 1.	1.8	10
23	Optical transmission quality and radiation shielding performance of TeO2+ZnO+La2O3 ternary glass system. Optik, 2022, 266, 169625.	2.9	10
24	Kleinâ€“Nishina formula and Monte Carlo method for evaluating the gamma attenuation properties of Zn, Ba, Te and Bi elements. Materials Science-Poland, 2021, .	1.0	4
25	Gamma-ray/neutron shielding capacity and elastic moduli of MnOâ€“K2Oâ€“B2O3 glasses co-doped with Er3+ ions. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	3
26	The comparative studies of gamma-ray shielding properties of the PbOâ€“BaOâ€“B2O3 glass system by using FLUKA code to XCOM program and accessible experimental data. Journal of Physics: Conference Series, 2018, 1144, 012130.	0.4	0