

A comparative study between nano-cadmium oxide and polyethylene as gamma rays shielding composites

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Fast and thermal neutrons attenuation through micro-sized and nano-sized CdO reinforced HDPE composites. <i>Radiation Physics and Chemistry</i> , 2021, 180, 109245.	1.4	23
2	Gamma attenuation through nano lead - nano copper PVC composites. <i>Nuclear Technology and Radiation Protection</i> , 2021, 36, 50-59.	0.3	24
3	Effect of bulk and nanoparticle Bi ₂ O ₃ on attenuation capability of radiation shielding glass. <i>Ceramics International</i> , 2021, 47, 19651-19658.	2.3	42
4	Experimental and Theoretical Study of Radiation Shielding Features of CaO-K ₂ O-Na ₂ O-P ₂ O ₅ Glass Systems. <i>Materials</i> , 2021, 14, 3772.	1.3	59
5	Analysis of particle size on mass dependent attenuation capability of bulk and nanoparticle PbO radiation shields. <i>Results in Physics</i> , 2021, 26, 104458.	2.0	29
6	Enhancement of Bentonite Materials with Cement for Gamma-Ray Shielding Capability. <i>Materials</i> , 2021, 14, 4697.	1.3	24
7	Experimental Investigation of Radiation Shielding Competence of Bi ₂ O ₃ -CaO-K ₂ O-Na ₂ O-P ₂ O ₅ Glass Systems. <i>Materials</i> , 2021, 14, 5061.	1.3	33
8	Implementation of waste silicate glass into composition of ordinary cement for radiation shielding applications. <i>Nuclear Engineering and Technology</i> , 2022, 54, 1456-1463.	1.1	45
9	Effect of hematite and iron slag as aggregate replacement on thermal, mechanical, and gamma-radiation shielding properties of concrete. <i>Construction and Building Materials</i> , 2021, 310, 125225.	3.2	33
10	Gamma radiation shielding properties of recycled polyvinyl chloride composites reinforced with micro/nano-structured PbO and CuO particles. <i>Physica Scripta</i> , 2021, 96, 125316.	1.2	20
11	Effects of different nano size and bulk WO ₃ enriched by HDPE composites on attenuation of the X-ray narrow spectrum. <i>Nuclear Technology and Radiation Protection</i> , 2021, 36, 315-328.	0.3	8
12	Radiation Attenuation Properties of Novel Glass System Using Experimental and Geant4 Simulation. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
13	Novel nanocomposites based on polyvinyl alcohol and molybdenum nanoparticles for Gamma irradiation shielding. <i>Optics and Laser Technology</i> , 2022, 156, 108560.	2.2	14
14	Structure, Mössbauer, electrical, and γ -ray attenuation-properties of magnesium zinc ferrite synthesized co-precipitation method. <i>Scientific Reports</i> , 2022, 12, .	1.6	8
15	Effect of PbO incorporation with different particle size on X-ray attenuation of polystyrene. <i>Nuclear Technology and Radiation Protection</i> , 2022, 37, 18-30.	0.3	9
16	Effect of PbO-nanoparticles on dimethyl polysiloxane for use in radiation shielding applications. <i>Scientific Reports</i> , 2022, 12, .	1.6	18
17	Attenuation parameters of HDPE filled with different nano-size and bulk WO ₃ for X-ray shielding applications. <i>European Physical Journal Plus</i> , 2022, 137, .	1.2	15
18	A New Environmentally Friendly Mortar from Cement, Waste Marble and Nano Iron Slag as Radiation Shielding. <i>Materials</i> , 2023, 16, 2541.	1.3	1

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19	Enhancing the Gamma-Radiation-Shielding Properties of Gypsumâ€‘Limeâ€‘Waste Marble Mortars by Incorporating Micro- and Nano-PbO Particles. <i>Materials</i> , 2023, 16, 1577.	1.3	7
20	A comparative neutron and gamma-ray radiation shielding investigation of molybdenum and boron filled polymer composites. <i>Applied Radiation and Isotopes</i> , 2023, 194, 110731.	0.7	14
21	The finite size effect on the surface structure and thermal properties of nanostructured natural pumice. <i>Advances in Materials and Processing Technologies</i> , 0, , 1-13.	0.8	0
22	Comparisons of enhanced thermal neutronâ€‘and γ -shielding properties in UHMWPE composites containing surface-treated Sm_2O_3 and Gd_2O_3 particles. <i>Polymers for Advanced Technologies</i> , 2023, 34, 2394-2406.	1.6	2