Ferdi Akman

List of Publications by Year
in descending order

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65 papers	1,968 citations	218677 26 h-index	265206 42 g-index
65 all docs	65 docs citations	65 times ranked	601 citing authors

#	Article	IF	Citations
1	Study on gamma radiation attenuation and non-ionizing shielding effectiveness of niobium-reinforced novel polymer composite. Nuclear Engineering and Technology, 2022, 54, 283-292.	2.3	40
2	Gamma radiation shielding performance of CuxAg(1-x)-alloys: Experimental, theoretical and simulation results. Progress in Nuclear Energy, 2022, 143, 104036.	2.9	22
3	Micro Pb filled polymer composites: Theoretical, experimental and simulation results for Î³-ray shielding performance. Radiation Physics and Chemistry, 2022, 194, 110039.	2.8	32
4	Lead-free Sb-based polymer composite for Î³-ray shielding purposes. Radiochimica Acta, 2022, 110, 393-402.	1.2	8
5	Shielding features, to non-ionizing and ionizing photons, of FeCr-based composites. Applied Radiation and Isotopes, 2021, 167, 109470.	1.5	26
6	Gamma attenuation characteristics of CdTe-Doped polyester composites. Progress in Nuclear Energy, 2021, 131, 103608.	2.9	20
7	Analysis of radiation attenuation properties for Polyester/Li2WO4 composites. Radiation Physics and Chemistry, 2021, 179, 109257.	2.8	21
8	A comparative study on the nuclear shielding properties of BiBr3 and PbSO4 incorporated composites. Journal of Physics and Chemistry of Solids, 2021, 152, 109978.	4.0	13
9	Study on recycled Er-incorporated waste CRT glasses for photon and neutron shielding. Ceramics International, 2021, 47, 26335-26349.	4.8	16
10	Evaluation of CdS doped polyester composites regarding gamma and neutron shielding properties. Progress in Nuclear Energy, 2021, 139, 103865.	2.9	16
11	Novel Cu/Zn Reinforced Polymer Composites: Experimental Characterization for Radiation Protection Efficiency (RPE) and Shielding Properties for Alpha, Proton, Neutron, and Gamma Radiations. Polymers, 2021, 13, 3157.	4.5	19
12	Production of microstructured BaZrO3 and Ba2P2O7-based polymer shields for protection against ionizing photons. Journal of Physics and Chemistry of Solids, 2021, 158, 110238.	4.0	21
13	Investigation of some radiation interaction parameters for bacteria isolated from the soil in the low energy region. Canadian Journal of Physics, 2020, 98, 251-259.	1.1	2
14	Chemical effect on K shell X-ray fluorescence parameters for some Mn and Ni compounds. Radiation Physics and Chemistry, 2020, 168, 108564.	2.8	6
15	Photon-shielding performance of bismuth oxychloride-filled polyester concretes. Materials Chemistry and Physics, 2020, 241, 122330.	4.0	58
16	Determination of some fluorescence parameters of L subâ€“shells for Th and U at 59.54ÂkeV photon energy. Applied Radiation and Isotopes, 2020, 157, 109025.	1.5	0
17	Gamma-ray attenuation behaviors of hematite doped polymer composites. Progress in Nuclear Energy, 2020, 129, 103504.	2.9	35
18	Sodium dodecatungstophosphate hydrate-filled polymer composites for nuclear radiation shielding. Materials Chemistry and Physics, 2020, 256, 123667.	4.0	26

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19	Two-step investigation on fabrication and characterization of iron-reinforced novel composite materials for nuclear-radiation shielding applications. Journal of Physics and Chemistry of Solids, 2020, 146, 109604.	4.0	27
20	Impact of lead(II) iodide on radiation shielding properties of polyester composites. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	27
21	Gamma shielding and compressive strength analyses of polyester composites reinforced with zinc: an experiment, theoretical, and simulation based study. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	49
22	Gamma-ray attenuation parameters for polymer composites reinforced with BaTiO3 and CaWO4 compounds. Progress in Nuclear Energy, 2020, 121, 103257.	2.9	53
23	Lead(II) chloride effects on nuclear shielding capabilities of polymer composites. Journal of Physics and Chemistry of Solids, 2020, 145, 109543.	4.0	71
24	Determination of effective atomic numbers and electron densities for some synthesized triazoles from the measured total mass attenuation coefficients at different energies. Canadian Journal of Physics, 2019, 97, 86-92.	1.1	15
25	Evaluation of radiation absorption characteristics in different parts of some medicinal aromatic plants in the low energy region. Results in Physics, 2019, 12, 94-100.	4.1	5
26	Comparison of experimental and theoretical radiation shielding parameters of several environmentally friendly materials. Nuclear Science and Techniques/Hewuli, 2019, 30, 1.	3.4	22
27	Synthesis, characterization and spectroscopic investigation of N-(2-acetylbenzofuran-3-yl)acrylamide monomer: Molecular structure, HOMOâ€“LUMO study, TD-DFT and MEP analysis. Journal of Molecular Structure, 2019, 1195, 506-513.	3.6	61
28	Experimental investigation of photon attenuation parameters for different binary alloys. Radiochimica Acta, 2019, 107, 339-348.	1.2	9
29	The radiation shielding features for some silicide, boride and oxide types ceramics. Radiation Physics and Chemistry, 2019, 160, 9-14.	2.8	80
30	Comprehensive study on evaluation of shielding parameters of selected soils by gamma and X-rays transmission in the range 13.94â€“88.04â€¯keV using WinXCom and FFAST programs. Results in Physics, 2019, 15, 102751.	4.1	16
31	Investigation of photon shielding performances of some selected alloys by experimental data, theoretical and MCNPX code in the energy range of 81â€¯keVâ€“1333â€¯keV. Journal of Alloys and Compounds, 2019, 772, 516-524.	5.5	94
32	An extensive investigation on gamma ray shielding features of Pd/Ag-based alloys. Nuclear Engineering and Technology, 2019, 51, 853-859.	2.3	165
33	Radiation protective qualities of some selected lead and bismuth salts in the wide gamma energy region. Nuclear Engineering and Technology, 2019, 51, 860-866.	2.3	27
34	Study of gamma radiation attenuation properties of some selected ternary alloys. Journal of Alloys and Compounds, 2019, 782, 315-322.	5.5	131
35	Radiation protective characteristics of some selected tungstates. Radiochimica Acta, 2019, 107, 349-357.	1.2	7
36	Evaluation of gamma-ray and neutron attenuation properties of some polymers. Nuclear Engineering and Technology, 2019, 51, 818-824.	2.3	148

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37	Determination of some selected absorption parameters for Cd, La and Ce elements. Radiation Physics and Chemistry, 2019, 156, 101-108.	2.8	4
38	Investigation of radiation shielding properties for some ceramics. Radiochimica Acta, 2019, 107, 179-191.	1.2	42
39	Evaluation of radioprotection properties of some selected ceramic samples. Results in Physics, 2018, 11, 1100-1104.	4.1	52
40	Evaluation of radiation absorption capacity of some soil samples. Radiochimica Acta, 2018, 107, 83-93.	1.2	36
41	Measurement of mass attenuation coefficients, effective atomic numbers, and electron densities for different parts of medicinal aromatic plants in low-energy region. Nuclear Science and Techniques/Hewuli, 2018, 29, 1.	3.4	36
42	Determination of some useful radiation interaction parameters for waste foods. Nuclear Engineering and Technology, 2018, 50, 944-949.	2.3	56
43	Determination of effective atomic numbers and electron densities from mass attenuation coefficients for some selected complexes containing lanthanides. Canadian Journal of Physics, 2017, 95, 1005-1011.	1.1	46
44	Updated database for K-shell fluorescence yields. AIP Conference Proceedings, 2017, , .	0.4	0
45	Calculation of absorption parameters for selected narcotic drugs in the energy range from 1 keV to 100 GeV. AIP Conference Proceedings, 2017, , .	0.4	2
46	Measurements of K X-ray fluorescence cross-sections, fluorescence yields, level widths and radiative vacancy transition probabilities for the elements Zr, Mo, Cd, Er at 59.54 keV. IOP Conference Series: Materials Science and Engineering, 2017, 282, 012015.	0.6	2
47	Investigation of chemical effect on the absorption parameters for some selected indium complex at 59.54 keV photon energy. Journal of Physics: Conference Series, 2016, 707, 012001.	0.4	1
48	Basic sciences agonize in Turkey!. Journal of Physics: Conference Series, 2016, 707, 012038.	0.4	0
49	K to L shell vacancy transfer probabilities and Auger electron emission ratios for elements in the atomic range 30 â‰¤ Z â‰¤ 58. Canadian Journal of Physics, 2016, 94, 679-686.	1.1	13
50	Chemical effect on theKshell absorption parameters of some selected cerium compounds. Journal of Instrumentation, 2016, 11, P08006-P08006.	1.2	5
51	Experimental values of K to Li sub-shell, K to L, and K to M shell vacancy transfer probabilities for some rare earth elements. Applied Radiation and Isotopes, 2016, 115, 295-303.	1.5	9
52	Study of absorption parameters around the K edge for selected compounds of Gd. X-Ray Spectrometry, 2016, 45, 103-110.	1.4	42
53	The excitation probabilities of KÎ±,Î² and LÎ±1,2 for some elements in 56â‰¤Zâ‰¤68 at 59.54keV. Radiation Physics and Chemistry, 2016, 119, 29-36.	2.8	6
54	Determination of KÎ±,Î² excitation factors in thin target for selected elements from Y to Te at 59.54 keV excitation energy. Applied Radiation and Isotopes, 2016, 107, 366-371.	1.5	3

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55	Kinematic coefficient ratios, anisotropy parameters, and polarization degrees of L3 X-ray transitions of Bi, Pb, Ta, Lu, and Yb. Canadian Journal of Physics, 2015, 93, 1199-1206.	1.1	1
56	Measurement of L_i X-ray fluorescence production cross sections and intensity ratios of some elements at 59.54 keV. Canadian Journal of Physics, 2015, 93, 1057-1066.	1.1	13
57	Determination of K shell absorption parameters for some lanthanides using the X-ray attenuation method. Canadian Journal of Physics, 2015, 93, 1532-1540.	1.1	7
58	Studies on effective atomic numbers, electron densities from mass attenuation coefficients near the K edge in some samarium compounds. Applied Radiation and Isotopes, 2015, 101, 107-113.	1.5	128
59	Measurements of K shell absorption jump factors and jump ratios using EDXRF technique. European Physical Journal D, 2015, 69, 1.	1.3	6
60	Determination of K shell absorption jump factors and jump ratios of 3d transition metals by measuring K shell fluorescence parameters. Applied Radiation and Isotopes, 2015, 95, 193-199.	1.5	17
61	Determination of K-shell absorption jump factors and jump ratios for La2O3, Ce and Gd using two different methods. Radiation Physics and Chemistry, 2015, 107, 75-81.	2.8	10
62	Determination of L X-ray fluorescence parameters for Ho, Lu, W, Hg and Bi. Applied Radiation and Isotopes, 2014, 89, 151-158.	1.5	15
63	Measurement of L subshell fluorescence yields for high-Z elements excited by 22.6keV photons. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 373-381.	2.3	13
64	Measurement of L subshell fluorescence cross sections and intensity ratios of heavy elements at 22.6keV. Radiation Physics and Chemistry, 2011, 80, 692-700.	2.8	12
65	Photon-Induced L-Shell X-Ray Production Cross Sections for Lanthanides at 59.54 keV. Materials Science Forum, 0, 890, 223-226.	0.3	3