Mostafa Zahedifar

List of Publications by Year
in descending order

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61 papers	748 citations	516215 16 h-index	642321 23 g-index
61 all docs	61 docs citations	61 times ranked	746 citing authors

#	Article	IF	Citations
1	Synthesis of LaVO4: Dy3+ luminescent nanostructure and optimization of its performance as down-converter in dye-sensitized solar cells. Journal of Luminescence, 2013, 135, 66-73.	1.5	52
2	Influence of affinity, band gap and ambient temperature on the efficiency of CIGS solar cells. Optik, 2020, 223, 165541.	1.4	34
3	CIGS absorber layer with double grading Ga profile for highly efficient solar cells. Superlattices and Microstructures, 2016, 92, 303-307.	1.4	33
4	Synthesis and thermoluminescence characteristics of Mn doped CaF2 nanoparticles. Nuclear Instruments & Methods in Physics Research B, 2012, 274, 162-166.	0.6	30
5	Buffer layer replacement: A method for increasing the conversion efficiency of CIGS thin film solar cells. Optik, 2017, 136, 222-227.	1.4	30
6	Morphology optimization of CCVD-synthesized multiwall carbon nanotubes, using statistical design of experiments. Nanotechnology, 2007, 18, 115715.	1.3	29
7	Thermoluminescence and photoluminescence of cerium doped CaSO4 nanosheets. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 3517-3522.	0.6	29
8	Diameter optimization of VLS-synthesized ZnO nanowires, using statistical design of experiment. Nanotechnology, 2007, 18, 355708.	1.3	27
9	The environmental and economic analysis of grid-connected photovoltaic power systems with silicon solar panels, in accord with the new energy policy in Iran. Energy, 2020, 202, 117771.	4.5	23
10	Afterglow properties of CaF2:Tm nanoparticles and its potential application in photodynamic therapy. Journal of Luminescence, 2016, 171, 254-258.	1.5	22
11	Synthesis of CaSO4: Mn nanosheets with high thermoluminescence sensitivity. Applied Radiation and Isotopes, 2011, 69, 1002-1006.	0.7	21
12	Investigation on the properties of La-doped and Dy-doped ZnO nanorods and their enhanced photovoltaic performance of Dye-Sensitized Solar Cells. Optical Materials, 2021, 112, 110735.	1.7	21
13	Thermoluminescence characteristics of the novel CaF2:Dy nanoparticles prepared by using the hydrothermal method. Nuclear Instruments & Methods in Physics Research B, 2012, 291, 65-72.	0.6	20
14	Synthesis and dosimetric properties of the novel thermoluminescent CaF2:Tm nanoparticles. Radiation Physics and Chemistry, 2012, 81, 1856-1861.	1.4	19
15	Enhanced photovoltaic performance of dye sensitized solar cell using TiO2 and ZnO nanoparticles on top of free standing TiO2 nanotube arrays. Materials Science in Semiconductor Processing, 2017, 61, 107-113.	1.9	19
16	Optimization of Cd1â^'Zn S buffer layer in Cu(In,Ga)Se2 based thin film solar cells. Optik, 2016, 127, 4072-4075.	1.4	18
17	Synthesis, characteristics and thermoluminescent dosimetry features of Î³-irradiated Ce doped CaF2 nanophosphor. Applied Radiation and Isotopes, 2013, 78, 125-131.	0.7	15
18	Optimization of Zn(O,S)/(Zn,Mg)O buffer layer in Cu(In,Ga)Se2 based photovoltaic cells. Journal of Materials Science: Materials in Electronics, 2016, 27, 1130-1133.	1.1	15

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19	Thermoluminescence and photoluminescence properties of NaCl:Mn, NaCL:Cu nano-particles produced using co-precipitation and sono-chemistry methods. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 846, 87-93.	0.7	14
20	Thermoluminescence kinetics analysis of Î±-Al2O3:C at different dose levels andÂpopulations of trapping states and a model for its dose response. Radiation Measurements, 2012, 47, 957-964.	0.7	13
21	Thermoluminescence dosimetry properties of new Cu doped CaF2 nanoparticles. Radiation Protection Dosimetry, 2013, 157, 303-309.	0.4	12
22	Synthesis of Graphene Quantum Dots Decorated With Se, Eu and Ag As Photosensitizer and Study of Their Potential to Use in Photodynamic Therapy. Journal of Fluorescence, 2021, 31, 551-557.	1.3	12
23	Thermoluminescence kinetic analysis and dosimetry features of MgSO 4 :Dy and MgSO 4 :Cu nano-rods. Radiation Physics and Chemistry, 2016, 125, 127-133.	1.4	11
24	Improving CIGS thin film by evaporation of CIGS nanoparticles without phase change. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	1.1	11
25	Luminescence and scintillation properties of Eu2+ doped CaF2 glass ceramics for radiation spectroscopy. Journal of Luminescence, 2020, 221, 117040.	1.5	11
26	Thermoluminescence dosimetry properties and kinetic analysis of MgSO 4 :Dy microcrystalline prepared by solid state method. Radiation Measurements, 2017, 103, 26-32.	0.7	10
27	Preparation and thermoluminescent dosimetry features of high sensitivity LiF:Mg,Ce phosphor. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 887, 128-132.	0.7	10
28	Effect of LaF3: Ag fluorescent nanoparticles on photodynamic efficiency and cytotoxicity of Protoporphyrin IX photosensitizer. Photodiagnosis and Photodynamic Therapy, 2018, 21, 306-311.	1.3	10
29	Optimized annealing regime of CuGaSe‹sub›2‹/sub›nanoparticles prepared by solvothermal method. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 657-661.	0.8	9
30	Thermoluminescence dosimetry features of DY and Cu doped SrF 2 nanoparticles under gamma irradiation. Applied Radiation and Isotopes, 2015, 105, 176-181.	0.7	9
31	Electrodeposition of CIGS nanostructure photovoltaic absorber layers: effect of deposition time. Journal of Materials Science: Materials in Electronics, 2016, 27, 1645-1654.	1.1	9
32	Effects of silicon nanowires length on solar cells photovoltaic properties. Applied Physics A: Materials Science and Processing, 2012, 109, 299-306.	1.1	8
33	Accuracy Limits of the Blob Model for a Flexible Polymer Confined Inside a Cylindrical Nano-Channel. Journal of Statistical Physics, 2016, 163, 593-603.	0.5	8
34	Synthesis and dosimetry features of novel sensitive thermoluminescent phosphor of LiF doped with Mg and Dy impurities. Applied Radiation and Isotopes, 2018, 136, 111-117.	0.7	8
35	Fabrication and characterization of Ag-doped Li1.3Al0.3Ti1.7(PO4)3 solid electrolyte with high ionic conductivity. Journal of Materials Science: Materials in Electronics, 2020, 31, 9614-9621.	1.1	8
36	Analysis of kinetics and trapping parameters of LiF:Mg, Ti thermoluminescent dosimeters by general order model. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 416, 446-451.	0.7	7

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37	Synthesis and thermoluminescence of boron-doped germanium nanowires. Radiation Physics and Chemistry, 2011, 80, 324-327.	1.4	7
38	Synthesis and characterization of GdVO4:Dy3+ nanosheets as down converter: application in dye-sensitized solar cells. Journal of Materials Science: Materials in Electronics, 2016, 27, 4447-4456.	1.1	7
39	UVC dosimetry properties of Mn and Ce doped KCl thermoluminescent phosphor produced by co-precipitation method. Nuclear Instruments & Methods in Physics Research B, 2019, 458, 97-104.	0.6	7
40	Preparation and characterization of seleniumâ€decorated graphene quantum dots with high afterglow for application in photodynamic therapy. Luminescence, 2020, 35, 891-896.	1.5	7
41	Synthesis and thermoluminescence analysis of LiBaF3:M (M= Cu, Ce, Er) nanoparticles. Journal of Luminescence, 2021, 237, 118173.	1.5	7
42	Kinetic parameters of LiF:Mg,Ti thermoluminescent dosimeters. Radiation Physics and Chemistry, 1998, 51, 401-402.	1.4	6
43	Thermoluminescence kinetic analysis of quartz using an improved general order model for exponential distribution of activation energies. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 654, 569-574.	0.7	6
44	Accuracy of the blob model for single flexible polymers inside nanoslits that are a few monomer sizes wide. Physical Review E, 2014, 90, 062603.	0.8	6
45	Self-organized and uniform TiO₂ nanotube arrays with optimized NH₄F concentration in electrolyte by high voltage electrochemical anodization. Materials Research Express, 2018, 5, 055025.	0.8	6
46	Synthesis of Nanoparticles of ZnS:Ag-L-cysteine-protoporphyrin IX Conjugates and Investigation its Potential of Reactive Oxygen Species Production. Journal of Fluorescence, 2019, 29, 1089-1101.	1.3	6
47	Back contact selenization and absorber layer etching for improvement in Schottky diode behavior of [Mo/CIGS/Al] structure. Materials Research Express, 2019, 6, 065501.	0.8	6
48	Preparation and characterization of Li2B4O7 nanoparticles co-doped with Mg and Cu for thermoluminescence dosimetry of gamma-rays. Radiation Physics and Chemistry, 2022, 194, 110057.	1.4	6
49	Effect of population of trapping states on kinetic parameters of (GR-200) using mixed and general order of kinetics. Radiation Measurements, 2007, 42, 815-818.	0.7	5
50	SYNTHESIS, OPTICAL PROPERTIES AND THERMOLUMINESCENCE DOSIMETRY FEATURES OF MANGANESE DOPED Li2B4O7 NANOPARTICLES. Radiation Protection Dosimetry, 2018, 181, 360-367.	0.4	5
51	Thermoluminescence general-order glow curve deconvolution function with continuous distribution of activation energies. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 564, 515-520.	0.7	4
52	Optimal conditions for fabricating CIGS nanoparticles by solvothermal method. Journal of Materials Science: Materials in Electronics, 2018, 29, 7068-7076.	1.1	4
53	Preparation, kinetic analysis and thermoluminescent dosimetry features of highly sensitive SrF2:Dy phosphor. Radiation Physics and Chemistry, 2019, 159, 1-5.	1.4	4
54	Thermoluminescence kinetic analysis of basaltic rocks using a generalized model for exponential distribution of activation energies. Nuclear Instruments & Methods in Physics Research B, 2007, 264, 378-382.	0.6	3

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55	Effect of using ultrasonic waves in synthesis on the size, shape and luminescence properties of NaCl:Ce3+ crystals for clinical dosimeter application. Materials Chemistry and Physics, 2021, 263, 124374.	2.0	3
56	Thermoluminescence and photoluminescence properties of CeF3:Dy and CeF3:Ni nanoparticles. Radiation Physics and Chemistry, 2022, 194, 109969.	1.4	3
57	A NEW THERMOLUMINESCENCE GENERAL ORDER GLOW CURVE FIT FUNCTION CONSIDERING THERMAL QUENCHING EFFECT. Radiation Protection Dosimetry, 2019, 187, 103-107.	0.4	1
58	Preparation of Technetium Labeled-Graphene Quantum Dots and Investigation of Their Bio Distribution. Journal of Cluster Science, 2022, 33, 965-973.	1.7	1
59	Neutron-gamma mixed field dosimetry using a 6LiF:Mg,Cu,P thermoluminescent dosimeter. Nuclear Technology and Radiation Protection, 2021, 36, 346-351.	0.3	1
60	A new interactive thermoluminescence mixed-order glow curve deconvolution function. Radiation Effects and Defects in Solids, 2013, 168, 1011-1021.	0.4	0
61	Thermoluminescence and photoluminescence of magnesium-doped lithium tetraborate nanoparticles. Indian Journal of Physics, 2021, 95, 1113-1119.	0.9	0