Mostafa Zahedifar

List of Publications by Citations

61 papers	512 citations	13 h-index	18 g-index
61 ext. papers	615 ext. citations	2.2 avg, IF	4.32 L-index

#	Paper	IF	Citations
61	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	3.8	48
60	CIGS absorber layer with double grading Ga profile for highly efficient solar cells. *Superlattices and Microstructures*, **2016**, 92, 303-307	2.8	25
59	Morphology optimization of CCVD-synthesized multiwall carbon nanotubes, using statistical design of experiments. *Nanotechnology*, **2007**, 18, 115715	3.4	24
58	Synthesis and thermoluminescence characteristics of Mn doped CaF2 nanoparticles. *Nuclear Instruments & Methods in Physics Research B*, **2012**, 274, 162-166	1.2	23
57	Thermoluminescence and photoluminescence of cerium doped CaSO4 nanosheets. *Nuclear Instruments & Methods in Physics Research B*, **2010**, 268, 3517-3522	1.2	23
56	Diameter optimization of VLS-synthesized ZnO nanowires, using statistical design of experiment. *Nanotechnology*, **2007**, 18, 355708	3.4	22
55	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	4.3	19
54	Synthesis and dosimetric properties of the novel thermoluminescent CaF2:Tm nanoparticles. *Radiation Physics and Chemistry*, **2012**, 81, 1856-1861	2.5	17
53	Synthesis of CaSO□Mn nanosheets with high thermoluminescence sensitivity. *Applied Radiation and Isotopes*, **2011**, 69, 1002-6	1.7	17
52	Buffer layer replacement: A method for increasing the conversion efficiency of CIGS thin film solar cells. *Optik*, **2017**, 136, 222-227	2.5	15
51	Optimization of Cd1□ZnyS buffer layer in Cu(In,Ga)Se2 based thin film solar cells. *Optik*, **2016**, 127, 4072-4075	2.5	14
50	Afterglow properties of CaF2:Tm nanoparticles and its potential application in photodynamic therapy. *Journal of Luminescence*, **2016**, 171, 254-258	3.8	14
49	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	1.2	14
48	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	3.3	13
47	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	2.1	12
46	Synthesis, characteristics and thermoluminescent dosimetry features of □rradiated Ce doped CaF2 nanophosphor. *Applied Radiation and Isotopes*, **2013**, 78, 125-31	1.7	12
45	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	7.9	11

44	Thermoluminescence kinetics analysis of Al2O3:C at different dose levels and populations of trapping states and a model for its dose response. *Radiation Measurements*, **2012**, 47, 957-964	1.5	11
43	Electrodeposition of CIGS nanostructure photovoltaic absorber layers: effect of deposition time. *Journal of Materials Science: Materials in Electronics*, **2016**, 27, 1645-1654	2.1	9
42	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	1.2	9
41	Effects of silicon nanowires length on solar cells photovoltaic properties. *Applied Physics A: Materials Science and Processing*, **2012**, 109, 299-306	2.6	8
40	Thermoluminescence kinetic analysis and dosimetry features of MgSO4:Dy and MgSO4:Cu nano-rods. *Radiation Physics and Chemistry*, **2016**, 125, 127-133	2.5	8
39	Thermoluminescence dosimetry features of DY and Cu doped SrF2 nanoparticles under gamma irradiation. *Applied Radiation and Isotopes*, **2015**, 105, 176-181	1.7	7
38	Luminescence and scintillation properties of Eu2+ doped CaF2 glass ceramics for radiation spectroscopy. *Journal of Luminescence*, **2020**, 221, 117040	3.8	7
37	Thermoluminescence dosimetry properties of new Cu doped CaF(2) nanoparticles. *Radiation Protection Dosimetry*, **2013**, 157, 303-9	0.9	7
36	Optimized annealing regime of CuGaSe2 nanoparticles prepared by solvothermal method. *Physica Status Solidi (A) Applications and Materials Science*, **2015**, 212, 657-661	1.6	7
35	Influence of affinity, band gap and ambient temperature on the efficiency of CIGS solar cells. *Optik*, **2020**, 223, 165541	2.5	7
34	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	1.2	6
33	Effect of LaF: Ag fluorescent nanoparticles on photodynamic efficiency and cytotoxicity of Protoporphyrin IX photosensitizer. *Photodiagnosis and Photodynamic Therapy*, **2018**, 21, 306-311	3.5	6
32	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	1.7	6
31	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	1.2	6
30	Synthesis and thermoluminescence of boron-doped germanium nanowires. *Radiation Physics and Chemistry*, **2011**, 80, 324-327	2.5	6
29	Kinetic parameters of LiF:Mg,Ti thermoluminescent dosimeters. *Radiation Physics and Chemistry*, **1998**, 51, 401-402	2.5	6
28	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	1.2	6
27	Accuracy Limits of the Blob Model for a Flexible Polymer Confined Inside a Cylindrical Nano-Channel. *Journal of Statistical Physics*, **2016**, 163, 593-603	1.5	6

26	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	2.1	5
25	Accuracy of the blob model for single flexible polymers inside nanoslits that are a few monomer sizes wide. *Physical Review E*, **2014**, 90, 062603	2.4	5
24	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	1.5	5
23	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	2.4	5
22	Thermoluminescence dosimetry properties and kinetic analysis of MgSO4:Dy microcrystalline prepared by solid state method. *Radiation Measurements*, **2017**, 103, 26-32	1.5	4
21	Improving CIGS thin film by evaporation of CIGS nanoparticles without phase change. *Applied Physics A: Materials Science and Processing*, **2019**, 125, 1	2.6	4
20	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	1.2	4
19	Optimal conditions for fabricating CIGS nanoparticles by solvothermal method. *Journal of Materials Science: Materials in Electronics*, **2018**, 29, 7068-7076	2.1	4
18	Self-organized and uniform TiO2 nanotube arrays with optimized NH4F concentration in electrolyte by high voltage electrochemical anodization. *Materials Research Express*, **2018**, 5, 055025	1.7	4
17	Preparation, kinetic analysis and thermoluminescent dosimetry features of highly sensitive SrF2:Dy phosphor. *Radiation Physics and Chemistry*, **2019**, 159, 1-5	2.5	4
16	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	2.1	3
15	Preparation and characterization of selenium-decorated graphene quantum dots with high afterglow for application in photodynamic therapy. *Luminescence*, **2020**, 35, 891-896	2.5	3
14	SYNTHESIS, OPTICAL PROPERTIES AND THERMOLUMINESCENCE DOSIMETRY FEATURES OF MANGANESE DOPED Li2B4O7 NANOPARTICLES. *Radiation Protection Dosimetry*, **2018**, 181, 360-367	0.9	3
13	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	1.2	3
12	Back contact selenization and absorber layer etching for improvement in Schottky diode behavior of [Mo/CIGS/Al] structure. *Materials Research Express*, **2019**, 6, 065501	1.7	2
11	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	1.2	1
10	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	4.4	1
9	Synthesis and thermoluminescence analysis of LiBaF3:M (M= Cu, Ce, Er) nanoparticles. *Journal of Luminescence*, **2021**, 237, 118173	3.8	1

List of Publications

8	A NEW THERMOLUMINESCENCE GENERAL ORDER GLOW CURVE FIT FUNCTION CONSIDERING THERMAL QUENCHING EFFECT. *Radiation Protection Dosimetry*, **2019**, 187, 103-107	0.9	0
7	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	2.4	0
6	Thermoluminescence and photoluminescence properties of CeF3:Dy and CeF3:Ni nanoparticles. *Radiation Physics and Chemistry*, **2022**, 109969	2.5	0
5	Neutron-gamma mixed field dosimetry using a 6LiF:Mg,Cu,P thermoluminescent dosimeter. *Nuclear Technology and Radiation Protection*, **2021**, 36, 346-351	0.7	0
4	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	2.5	0
3	A new interactive thermoluminescence mixed-order glow curve deconvolution function. *Radiation Effects and Defects in Solids*, **2013**, 168, 1011-1021	0.9	
2	Preparation of Technetium Labeled-Graphene Quantum Dots and Investigation of Their Bio Distribution. *Journal of Cluster Science*,1	3	
1	Thermoluminescence and photoluminescence of magnesium-doped lithium tetraborate nanoparticles. *Indian Journal of Physics*, **2021**, 95, 1113-1119	1.4	