

Mostafa Zahedifar

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Thermoluminescence and photoluminescence properties of CeF ₃ :Dy and CeF ₃ :Ni nanoparticles. <i>Radiation Physics and Chemistry</i> , 2022 , 109969	2.5	0
60	Preparation and characterization of Li ₂ B ₄ O ₇ nanoparticles co-doped with Mg and Cu for thermoluminescence dosimetry of gamma-rays. <i>Radiation Physics and Chemistry</i> , 2022 , 194, 110057	2.5	0
59	Effect of using ultrasonic waves in synthesis on the size, shape and luminescence properties of NaCl:Ce ³⁺ crystals for clinical dosimeter application. <i>Materials Chemistry and Physics</i> , 2021 , 263, 124374	4.4	1
58	Thermoluminescence and photoluminescence of magnesium-doped lithium tetraborate nanoparticles. <i>Indian Journal of Physics</i> , 2021 , 95, 1113-1119	1.4	
57	Investigation on the properties of La-doped and Dy-doped ZnO nanorods and their enhanced photovoltaic performance of Dye-Sensitized Solar Cells. <i>Optical Materials</i> , 2021 , 112, 110735	3.3	13
56	Synthesis and thermoluminescence analysis of LiBaF ₃ :M (M= Cu, Ce, Er) nanoparticles. <i>Journal of Luminescence</i> , 2021 , 237, 118173	3.8	1
55	Synthesis of Graphene Quantum Dots Decorated With Se, Eu and Ag As Photosensitizer and Study of Their Potential to Use in Photodynamic Therapy. <i>Journal of Fluorescence</i> , 2021 , 31, 551-557	2.4	5
54	Neutron-gamma mixed field dosimetry using a 6LiF:Mg,Cu,P thermoluminescent dosimeter. <i>Nuclear Technology and Radiation Protection</i> , 2021 , 36, 346-351	0.7	0
53	Fabrication and characterization of Ag-doped Li _{1.3} Al _{0.3} Ti _{1.7} (PO ₄) ₃ solid electrolyte with high ionic conductivity. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 9614-9621	2.1	3
52	The environmental and economic analysis of grid-connected photovoltaic power systems with silicon solar panels, in accord with the new energy policy in Iran. <i>Energy</i> , 2020 , 202, 117771	7.9	11
51	Preparation and characterization of selenium-decorated graphene quantum dots with high afterglow for application in photodynamic therapy. <i>Luminescence</i> , 2020 , 35, 891-896	2.5	3
50	Luminescence and scintillation properties of Eu ²⁺ doped CaF ₂ glass ceramics for radiation spectroscopy. <i>Journal of Luminescence</i> , 2020 , 221, 117040	3.8	7
49	Influence of affinity, band gap and ambient temperature on the efficiency of CIGS solar cells. <i>Optik</i> , 2020 , 223, 165541	2.5	7
48	UVC dosimetry properties of Mn and Ce doped KCl thermoluminescent phosphor produced by co-precipitation method. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2019 , 458, 97-104	1.2	6
47	A NEW THERMOLUMINESCENCE GENERAL ORDER GLOW CURVE FIT FUNCTION CONSIDERING THERMAL QUENCHING EFFECT. <i>Radiation Protection Dosimetry</i> , 2019 , 187, 103-107	0.9	0
46	Back contact selenization and absorber layer etching for improvement in Schottky diode behavior of [Mo/CIGS/Al] structure. <i>Materials Research Express</i> , 2019 , 6, 065501	1.7	2
45	Improving CIGS thin film by evaporation of CIGS nanoparticles without phase change. <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	4

44	Synthesis of Nanoparticles of ZnS:Ag-L-cysteine-protoporphyrin IX Conjugates and Investigation its Potential of Reactive Oxygen Species Production. <i>Journal of Fluorescence</i> , 2019 , 29, 1089-1101	2.4	0
43	Preparation, kinetic analysis and thermoluminescent dosimetry features of highly sensitive SrF ₂ :Dy phosphor. <i>Radiation Physics and Chemistry</i> , 2019 , 159, 1-5	2.5	4
42	SYNTHESIS, OPTICAL PROPERTIES AND THERMOLUMINESCENCE DOSIMETRY FEATURES OF MANGANESE DOPED Li ₂ B ₄ O ₇ NANOPARTICLES. <i>Radiation Protection Dosimetry</i> , 2018 , 181, 360-367	0.9	3
41	Preparation and thermoluminescent dosimetry features of high sensitivity LiF:Mg,Ce phosphor. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018 , 887, 128-132	1.2	4
40	Effect of LaF: Ag fluorescent nanoparticles on photodynamic efficiency and cytotoxicity of Protoporphyrin IX photosensitizer. <i>Photodiagnosis and Photodynamic Therapy</i> , 2018 , 21, 306-311	3.5	6
39	Synthesis and dosimetry features of novel sensitive thermoluminescent phosphor of LiF doped with Mg and Dy impurities. <i>Applied Radiation and Isotopes</i> , 2018 , 136, 111-117	1.7	6
38	Optimal conditions for fabricating CIGS nanoparticles by solvothermal method. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 7068-7076	2.1	4
37	Self-organized and uniform TiO ₂ nanotube arrays with optimized NH ₄ F concentration in electrolyte by high voltage electrochemical anodization. <i>Materials Research Express</i> , 2018 , 5, 055025	1.7	4
36	Enhanced photovoltaic performance of dye sensitized solar cell using TiO ₂ and ZnO nanoparticles on top of free standing TiO ₂ nanotube arrays. <i>Materials Science in Semiconductor Processing</i> , 2017 , 61, 107-113	4.3	19
35	Buffer layer replacement: A method for increasing the conversion efficiency of CIGS thin film solar cells. <i>Optik</i> , 2017 , 136, 222-227	2.5	15
34	Thermoluminescence dosimetry properties and kinetic analysis of MgSO ₄ :Dy microcrystalline prepared by solid state method. <i>Radiation Measurements</i> , 2017 , 103, 26-32	1.5	4
33	Thermoluminescence and photoluminescence properties of NaCl:Mn, NaCl:Cu nano-particles produced using co-precipitation and sono-chemistry methods. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017 , 844, 87-93	1.2	9
32	Optimization of Cd _{1-x} Zn _x S buffer layer in Cu(In,Ga)Se ₂ based thin film solar cells. <i>Optik</i> , 2016 , 127, 4072-4075	4.75	14
31	Afterglow properties of CaF ₂ :Tm nanoparticles and its potential application in photodynamic therapy. <i>Journal of Luminescence</i> , 2016 , 171, 254-258	3.8	14
30	Synthesis and characterization of GdVO ₄ :Dy ³⁺ nanosheets as down converter: application in dye-sensitized solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 4447-4456	2.1	5
29	CIGS absorber layer with double grading Ga profile for highly efficient solar cells. <i>Superlattices and Microstructures</i> , 2016 , 92, 303-307	2.8	25
28	Electrodeposition of CIGS nanostructure photovoltaic absorber layers: effect of deposition time. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 1645-1654	2.1	9
27	Optimization of Zn(O,S)/(Zn,Mg)O buffer layer in Cu(In,Ga)Se ₂ based photovoltaic cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 1130-1133	2.1	12

26	Thermoluminescence kinetic analysis and dosimetry features of MgSO ₄ :Dy and MgSO ₄ :Cu nano-rods. <i>Radiation Physics and Chemistry</i> , 2016 , 125, 127-133	2.5	8
25	Accuracy Limits of the Blob Model for a Flexible Polymer Confined Inside a Cylindrical Nano-Channel. <i>Journal of Statistical Physics</i> , 2016 , 163, 593-603	1.5	6
24	Thermoluminescence dosimetry features of DY and Cu doped SrF ₂ nanoparticles under gamma irradiation. <i>Applied Radiation and Isotopes</i> , 2015 , 105, 176-181	1.7	7
23	Optimized annealing regime of CuGaSe ₂ nanoparticles prepared by solvothermal method. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015 , 212, 657-661	1.6	7
22	Accuracy of the blob model for single flexible polymers inside nanoslits that are a few monomer sizes wide. <i>Physical Review E</i> , 2014 , 90, 062603	2.4	5
21	Thermoluminescence dosimetry properties of new Cu doped CaF ₂ nanoparticles. <i>Radiation Protection Dosimetry</i> , 2013 , 157, 303-9	0.9	7
20	Synthesis, characteristics and thermoluminescent dosimetry features of γ irradiated Ce doped CaF ₂ nanophosphor. <i>Applied Radiation and Isotopes</i> , 2013 , 78, 125-31	1.7	12
19	Synthesis of LaVO ₄ : Dy ³⁺ luminescent nanostructure and optimization of its performance as down-converter in dye-sensitized solar cells. <i>Journal of Luminescence</i> , 2013 , 135, 66-73	3.8	48
18	A new interactive thermoluminescence mixed-order glow curve deconvolution function. <i>Radiation Effects and Defects in Solids</i> , 2013 , 168, 1011-1021	0.9	
17	Synthesis and thermoluminescence characteristics of Mn doped CaF ₂ nanoparticles. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2012 , 274, 162-166	1.2	23
16	Effects of silicon nanowires length on solar cells photovoltaic properties. <i>Applied Physics A: Materials Science and Processing</i> , 2012 , 109, 299-306	2.6	8
15	Thermoluminescence kinetics analysis of γ Al ₂ O ₃ :C at different dose levels and γ populations of trapping states and a model for its dose response. <i>Radiation Measurements</i> , 2012 , 47, 957-964	1.5	11
14	Synthesis and dosimetric properties of the novel thermoluminescent CaF ₂ :Tm nanoparticles. <i>Radiation Physics and Chemistry</i> , 2012 , 81, 1856-1861	2.5	17
13	Thermoluminescence characteristics of the novel CaF ₂ :Dy nanoparticles prepared by using the hydrothermal method. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2012 , 291, 65-72	1.2	14
12	Thermoluminescence kinetic analysis of quartz using an improved general order model for exponential distribution of activation energies. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011 , 654, 569-574	1.2	6
11	Synthesis of CaSO ₄ :Mn nanosheets with high thermoluminescence sensitivity. <i>Applied Radiation and Isotopes</i> , 2011 , 69, 1002-6	1.7	17
10	Synthesis and thermoluminescence of boron-doped germanium nanowires. <i>Radiation Physics and Chemistry</i> , 2011 , 80, 324-327	2.5	6
9	Thermoluminescence and photoluminescence of cerium doped CaSO ₄ nanosheets. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010 , 268, 3517-3522	1.2	23

8	Effect of population of trapping states on kinetic parameters of (GR-200) using mixed and general order of kinetics. <i>Radiation Measurements</i> , 2007 , 42, 815-818	1.5	5
7	Thermoluminescence kinetic analysis of basaltic rocks using a generalized model for exponential distribution of activation energies. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007 , 264, 378-382	1.2	3
6	Morphology optimization of CCVD-synthesized multiwall carbon nanotubes, using statistical design of experiments. <i>Nanotechnology</i> , 2007 , 18, 115715	3.4	24
5	Diameter optimization of VLS-synthesized ZnO nanowires, using statistical design of experiment. <i>Nanotechnology</i> , 2007 , 18, 355708	3.4	22
4	Thermoluminescence general-order glow curve deconvolution function with continuous distribution of activation energies. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006 , 564, 515-520	1.2	1
3	Kinetic parameters of LiF:Mg,Ti thermoluminescent dosimeters. <i>Radiation Physics and Chemistry</i> , 1998 , 51, 401-402	2.5	6
2	Analysis of kinetics and trapping parameters of LiF:Mg, Ti thermoluminescent dosimeters by general order model. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1998 , 416, 446-451	1.2	6
1	Preparation of Technetium Labeled-Graphene Quantum Dots and Investigation of Their Bio Distribution. <i>Journal of Cluster Science</i> , 1	3	