Mohamed Aslam Manthrammel

List of Publications by Year
in descending order

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58	843	394421	526287
papers	citations	19	27
		h-index	g-index

58	58	58	803
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Investigation on structural, linear, nonlinear and optical limiting properties of sol-gel derived nanocrystalline Mg doped ZnO thin films for optoelectronic applications. Journal of Molecular Structure, 2018, 1173, 375-384.	3.6	58
2	Effect of Gd doping on structural, optical properties, photoluminescence and electrical characteristics of CdS nanoparticles for optoelectronics. Ceramics International, 2019, 45, 10133-10141.	4.8	54
3	Mesoporous multi-silica layer-coated Y2O3:Eu core-shell nanoparticles: Synthesis, luminescent properties and cytotoxicity evaluation. Materials Science and Engineering C, 2019, 96, 365-373.	7.3	42
4	An effect of Zn content doping on opto-third order nonlinear characteristics of nanostructured CdS thin films fabricated through spray pyrolysis for optoelectronics. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 118, 113955.	2.7	42
5	Facile spray pyrolysis fabrication of Al:CdS thin films and their key linear and third order nonlinear optical analysis for optoelectronic applications. Optical Materials, 2020, 100, 109696.	3.6	38
6	Improved photocatalytic degradation of rhodamine B under visible light and magnetic properties using microwave combustion grown Ni doped copper ferrite spinel nanoparticles. Solid State Sciences, 2021, 113, 106542.	3.2	35
7	Designing of luminescent GdPO 4 :Eu@LaPO 4 @SiO 2 core/shell nanorods: Synthesis, structural and luminescence properties. Solid State Sciences, 2017, 71, 117-122.	3.2	34
8	Organic semiconductor photodiode based on indigo carmine/n-Si for optoelectronic applications. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	32
9	Optical analysis of nanostructured rose bengal thin films using Kramersâ€“Kronig approach: New trend in laser power attenuation. Optics and Laser Technology, 2019, 112, 207-214.	4.6	32
10	Highly biocompatible, monodispersed and mesoporous La(OH)3:Eu@mSiO2 core-shell nanospheres: Synthesis and luminescent properties. Colloids and Surfaces B: Biointerfaces, 2018, 163, 133-139.	5.0	24
11	Novel design and microelectronic analysis of highly stable Au/Indigo/n-Si photodiode for optoelectronic applications. Solid State Sciences, 2019, 93, 7-12.	3.2	23
12	Facile synthesis of La-doped CdS nanoparticles by microwave assisted co-precipitation technique for optoelectronic application. Materials Research Express, 2019, 6, 025022.	1.6	23
13	Kramersâ€“Kronig calculations for linear and nonlinear optics of nanostructured methyl violet (CI-42535): New trend in laser power attenuation using dyes. Physica B: Condensed Matter, 2019, 552, 62-70.	2.7	23
14	Impact of surface coating on physical properties of europium-doped gadolinium fluoride microspheres. Journal of Fluorine Chemistry, 2017, 199, 7-13.	1.7	22
15	Microelectronic properties of the organic Schottky diode with pyronin-Y: Admittance spectroscopy, and negative capacitance. Physica B: Condensed Matter, 2018, 543, 46-53.	2.7	22
16	Photovoltaic and Impedance Spectroscopy Study of Screen-Printed TiO2 Based CdS Quantum Dot Sensitized Solar Cells. Materials, 2015, 8, 355-367.	2.9	21
17	Linear, third order nonlinear and optical limiting studies on MZO/FTO thin film system fabricated by spin coating technique for electro-optic applications. Journal of Materials Research, 2018, 33, 3880-3889.	2.6	21
18	Effect of La doping on key characteristics of SnO2 thin films facilely fabricated by spin coating technique. Optical Materials, 2019, 94, 277-285.	3.6	20

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19	Growth and characterization of layer by layer CdSâ€“ZnS QDs on dandelion like TiO2 microspheres for QDSSC application. Materials Science in Semiconductor Processing, 2015, 36, 57-64.	4.0	19
20	An impact of La doping content on physical properties of NiO films facilely casted through spin-coater for optoelectronics. Physica B: Condensed Matter, 2020, 582, 411955.	2.7	19
21	A systematic investigation on physical properties of spray pyrolysisâ€“fabricated CdS thin films for opto-nonlinear applications: An effect of Na doping. Journal of Materials Research, 2020, 35, 410-421.	2.6	17
22	One-spot fabrication and in-vivo toxicity evaluation of core-shell magnetic nanoparticles. Materials Science and Engineering C, 2021, 122, 111898.	7.3	17
23	Photovoltaic and capacitance measurements of solar cells comprise of Al-doped CdS (QD) and hierarchical flower-like TiO2 nanostructured electrode. Results in Physics, 2020, 16, 102827.	4.1	16
24	Synthesis, Characterization and Photoelectric Properties of Fe2O3 Incorporated TiO2 Photocatalyst Nanocomposites. Catalysts, 2021, 11, 1062.	3.5	16
25	Fabrication and characterization of Sn:CdS films for optical-nonlinear-limiting applications. Optics and Laser Technology, 2020, 126, 106122.	4.6	14
26	Facile fabrication of Ag/Y:CdS/Ag thin films-based photodetectors with enhanced photodetection performance. Sensors and Actuators A: Physical, 2021, 331, 112890.	4.1	14
27	Synthesis, structural, and photoluminescence studies of LaF3:Pr, LaF3:Pr@LaF3, and LaF3:Pr@LaF3@SiO2 nanophosphors. Journal of the Australian Ceramic Society, 2018, 54, 493-500.	1.9	12
28	Investigation on physical properties of CdO thin films affected by Tb doping for optoelectronics. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	12
29	Microwave assisted synthesis of quantum dots like ZnS nanoparticles for optoelectronic applications: An effect of CTAB concentrations. Optik, 2021, 240, 166812.	2.9	11
30	Effect of Gd3+ Doping on Linear and Nonlinear Optical Properties of PbI2/FTO Thin Films for Optoelectronic and Nonlinear Applications. Journal of Inorganic and Organometallic Polymers and Materials, 2021, 31, 566-576.	3.7	10
31	Photovoltaic Characteristics of Solar Cells Based on Nanostructured Titanium Dioxide Sensitized with Fluorescein Sodium Salt. Theoretical and Experimental Chemistry, 2014, 50, 121-126.	0.8	9
32	Assembly of CdS Quantum Dots onto Hierarchical TiO2 Structure for Quantum Dots Sensitized Solar Cell Applications. Materials, 2015, 8, 2376-2386.	2.9	9
33	Surface Coating Effect on Structural, Optical and Photoluminescence Properties of Eu3+ Doped Yttrium Fluoride Nanoparticles. Journal of Inorganic and Organometallic Polymers and Materials, 2017, 27, 194-200.	3.7	8
34	Impact of Substrate Temperature on Structural, Electric and Optical Characteristics of CuO Thin Films Grown by JNS Pyrolysis Technique. Silicon, 2022, 14, 8193-8203.	3.3	8
35	Facile microwave synthesis of bismuth molybdate nanostructures and their characterization for optoelectronic applications. Solid State Sciences, 2020, 107, 106361.	3.2	6
36	Optimizing growth, linear and 3rd order nonlinear optical traits of potassium aluminium sulfate (KAS) crystal by tuning pH for photonic device applications. Inorganic Chemistry Communication, 2022, 140, 109484.	3.9	6

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37	Effects of 1064 nm laser on the structural and optical properties of nanostructured TiO2 thin film. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2014, 117, 386-391.	0.6	5
38	Physiochemical and Optical Properties of GdF3:Pr@LaF3@SiO2 Microspheres. Materials Research, 2018, 21, .	1.3	5
39	Facilely fabricated Sr@NiO/FTO films and their characterizations for opto-nonlinear applications. Chinese Journal of Physics, 2020, 66, 91-101.	3.9	5
40	Influence of laser irradiation on the optical properties of nano-sized powder of metal oxide. Russian Journal of Physical Chemistry A, 2014, 88, 2446-2450.	0.6	4
41	Microwave-assisted synthesis of Mg:PbI₂nanostructures and their structural, morphological, optical, dielectric and electrical properties for optoelectronic technology. Chinese Physics B, 2020, 29, 116102.	1.4	4
42	Effect of organic capping on defect induced ferromagnetism in ZnO nanoparticles. Physica B: Condensed Matter, 2022, 624, 413379.	2.7	4
43	Photovoltaic and Impedance Spectroscopic Investigation of MEH-PPV Blended CdS Quantum Dot Sensitized Solar Cell. Journal of Nanoelectronics and Optoelectronics, 2014, 9, 702-708.	0.5	4
44	Photovoltaic and Impedance Spectroscopy of CdS Quantum Dots Onto Nano Urchin TiO2 Structure for Quantum Dots Sensitized Solar Cell Applications. Journal of Nanoelectronics and Optoelectronics, 2016, 11, 363-367.	0.5	4
45	Temperature dependent surface and spectral modifications of nano V2O5 films. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2017, 122, 420-425.	0.6	3
46	Development of YDC thin films by spray pyrolysis for the fabrication of p-Si/n-YDC photodiode. Journal of Materials Science: Materials in Electronics, 2021, 32, 8872-8889.	2.2	3
47	Seed supported solution growth and characterization of L-alanine single crystals for optoelectronics. Journal of Crystal Growth, 2021, 560-561, 126041.	1.5	3
48	Comparative structural and optical spectroscopic studies of Nd3+ ion doped LaF3 and their core/shell nanoparticles. Processing and Application of Ceramics, 2018, 12, 78-85.	0.8	3
49	Photovoltaic and Impedance Spectroscopic Analysis of CdSe Quantum Dot Solar Cell. Journal of Nanoelectronics and Optoelectronics, 2014, 9, 671-674.	0.5	2
50	Laser irradiation effect on ZnO nanoparticles. , 2013, , .		1
51	Photovoltaic and Impedance Properties of Hierarchical TiO₂Nanowire Based Quantum Dot Sensitized Solar Cell. Journal of Nanomaterials, 2015, 2015, 1-9.	2.7	1
52	Influence of Laser Exposure on the Physical Properties of Nano V2O5 Films Grown By Thermal Evaporation. Theoretical and Experimental Chemistry, 2016, 51, 375-379.	0.8	1
53	Enhancement of Critical Current Density of MgB2 by Glutaric Acid Doping: a Simultaneous Improvement on the Intrinsic and Extrinsic Properties. Journal of Superconductivity and Novel Magnetism, 2018, 31, 989-993.	1.8	1
54	A Facile Microwave Assisted Synthesis of La@PbS Nanoparticles and Their Characterizations for Optoelectronics. Journal of Inorganic and Organometallic Polymers and Materials, 2022, 32, 469-477.	3.7	1

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55	Tailoring of CdS Nano Films Through CBD-Isochronal Synthesis For PV Applications. Materials Research Society Symposia Proceedings, 2012, 1396, .	0.1	0
56	Optical properties of nano-structured Pt/FTO counter electrode for QDSSCs. , 2013, , .		0
57	Facile Synthesis, Opticalâ€“Dielectricâ€“Electrical Studies on Carbon-Coated ZnO: An Effect of Gelatin. Journal of Electronic Materials, 2020, 49, 2144-2150.	2.2	0
58	Corrigendum to â€œKramersâ€“Kronig calculations for linear and nonlinear optics of nanostructured methyl violet (CI-42535): New trend in laser power attenuation using dyesâ€•[Phys. B: Phys. Condens. Matter Volume 552 (1 January 2019) Pages 52â€“70 (PHYSB-D-18-01772R1)]. Physica B: Condensed Matter, 2020, 589, 412218.	2.7	0