

Mohamed Aslam Manthrammel

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1657036/publications.pdf>

Version: 2024-02-01

58
papers

843
citations

394421

19
h-index

526287

27
g-index

58
all docs

58
docs citations

58
times ranked

803
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of organic capping on defect induced ferromagnetism in ZnO nanoparticles. <i>Physica B: Condensed Matter</i> , 2022, 624, 413379.	2.7	4
2	A Facile Microwave Assisted Synthesis of La@PbS Nanoparticles and Their Characterizations for Optoelectronics. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2022, 32, 469-477.	3.7	1
3	Impact of Substrate Temperature on Structural, Electric and Optical Characteristics of CuO Thin Films Grown by JNS Pyrolysis Technique. <i>Silicon</i> , 2022, 14, 8193-8203.	3.3	8
4	Optimizing growth, linear and 3rd order nonlinear optical traits of potassium aluminium sulfate (KAS) crystal by tuning pH for photonic device applications. <i>Inorganic Chemistry Communication</i> , 2022, 140, 109484.	3.9	6
5	Effect of Gd ³⁺ Doping on Linear and Nonlinear Optical Properties of PbI ₂ /FTO Thin Films for Optoelectronic and Nonlinear Applications. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021, 31, 566-576.	3.7	10
6	Development of YDC thin films by spray pyrolysis for the fabrication of p-Si/n-YDC photodiode. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 8872-8889.	2.2	3
7	Improved photocatalytic degradation of rhodamine B under visible light and magnetic properties using microwave combustion grown Ni doped copper ferrite spinel nanoparticles. <i>Solid State Sciences</i> , 2021, 113, 106542.	3.2	35
8	One-spot fabrication and in-vivo toxicity evaluation of core-shell magnetic nanoparticles. <i>Materials Science and Engineering C</i> , 2021, 122, 111898.	7.3	17
9	Seed supported solution growth and characterization of L-alanine single crystals for optoelectronics. <i>Journal of Crystal Growth</i> , 2021, 560-561, 126041.	1.5	3
10	Microwave assisted synthesis of quantum dots like ZnS nanoparticles for optoelectronic applications: An effect of CTAB concentrations. <i>Optik</i> , 2021, 240, 166812.	2.9	11
11	Synthesis, Characterization and Photoelectric Properties of Fe ₂ O ₃ Incorporated TiO ₂ Photocatalyst Nanocomposites. <i>Catalysts</i> , 2021, 11, 1062.	3.5	16
12	Facile fabrication of Ag/Y: CdS/Ag thin films-based photodetectors with enhanced photodetection performance. <i>Sensors and Actuators A: Physical</i> , 2021, 331, 112890.	4.1	14
13	Facile Synthesis, Optical Dielectric Electrical Studies on Carbon-Coated ZnO: An Effect of Gelatin. <i>Journal of Electronic Materials</i> , 2020, 49, 2144-2150.	2.2	0
14	Photovoltaic and capacitance measurements of solar cells comprise of Al-doped CdS (QD) and hierarchical flower-like TiO ₂ nanostructured electrode. <i>Results in Physics</i> , 2020, 16, 102827.	4.1	16
15	An impact of La doping content on physical properties of NiO films facily casted through spin-coater for optoelectronics. <i>Physica B: Condensed Matter</i> , 2020, 582, 411955.	2.7	19
16	Microwave-assisted synthesis of Mg:PbI ₂ nanostructures and their structural, morphological, optical, dielectric and electrical properties for optoelectronic technology. <i>Chinese Physics B</i> , 2020, 29, 116102.	1.4	4
17	Facile microwave synthesis of bismuth molybdate nanostructures and their characterization for optoelectronic applications. <i>Solid State Sciences</i> , 2020, 107, 106361.	3.2	6
18	Corrigendum to "Kramers-Kronig calculations for linear and nonlinear optics of nanostructured methyl violet (CI-42535): New trend in laser power attenuation using dyes" [<i>Phys. B: Phys. Condens. Matter</i> Volume 552 (1 January 2019) Pages 52-70 (PHYSB-D-18-01772R1)]. <i>Physica B: Condensed Matter</i> , 2020, 589, 412218.	2.7	0

#	ARTICLE	IF	CITATIONS
19	Facilely fabricated Sr@NiO/FTO films and their characterizations for opto-nonlinear applications. Chinese Journal of Physics, 2020, 66, 91-101.	3.9	5
20	Fabrication and characterization of Sn:CdS films for optical-nonlinear-limiting applications. Optics and Laser Technology, 2020, 126, 106122.	4.6	14
21	A systematic investigation on physical properties of spray pyrolysis 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	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
23	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
24	Effect of La doping on key characteristics of SnO ₂ thin films facilely fabricated by spin coating technique. Optical Materials, 2019, 94, 277-285.	3.6	20
25	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
26	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
27	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
28	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
29	Mesoporous multi-silica layer-coated Y ₂ O ₃ :Eu core-shell nanoparticles: Synthesis, luminescent properties and cytotoxicity evaluation. Materials Science and Engineering C, 2019, 96, 365-373.	7.3	42
30	Optical analysis of nanostructured rose bengal thin films using Kramers-Kronig approach: New trend in laser power attenuation. Optics and Laser Technology, 2019, 112, 207-214.	4.6	32
31	Kramers-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
32	Synthesis, structural, and photoluminescence studies of LaF ₃ :Pr, LaF ₃ :Pr@LaF ₃ , and LaF ₃ :Pr@LaF ₃ @SiO ₂ nanophosphors. Journal of the Australian Ceramic Society, 2018, 54, 493-500.	1.9	12
33	Highly biocompatible, monodispersed and mesoporous La(OH) ₃ :Eu@mSiO ₂ core-shell nanospheres: Synthesis and luminescent properties. Colloids and Surfaces B: Biointerfaces, 2018, 163, 133-139.	5.0	24
34	Enhancement of Critical Current Density of MgB ₂ 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
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	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
38	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
39	Physiochemical and Optical Properties of GdF ₃ :Pr@LaF ₃ @SiO ₂ Microspheres. Materials Research, 2018, 21, .	1.3	5
40	Comparative structural and optical spectroscopic studies of Nd ³⁺ ion doped LaF ₃ and their core/shell nanoparticles. Processing and Application of Ceramics, 2018, 12, 78-85.	0.8	3
41	Temperature dependent surface and spectral modifications of nano V ₂ O ₅ films. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2017, 122, 420-425.	0.6	3
42	Impact of surface coating on physical properties of europium-doped gadolinium fluoride microspheres. Journal of Fluorine Chemistry, 2017, 199, 7-13.	1.7	22
43	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
44	Surface Coating Effect on Structural, Optical and Photoluminescence Properties of Eu ³⁺ Doped Yttrium Fluoride Nanoparticles. Journal of Inorganic and Organometallic Polymers and Materials, 2017, 27, 194-200.	3.7	8
45	Influence of Laser Exposure on the Physical Properties of Nano V ₂ O ₅ Films Grown By Thermal Evaporation. Theoretical and Experimental Chemistry, 2016, 51, 375-379.	0.8	1
46	Photovoltaic and Impedance Spectroscopy of CdS Quantum Dots Onto Nano Urchin TiO ₂ Structure for Quantum Dots Sensitized Solar Cell Applications. Journal of Nanoelectronics and Optoelectronics, 2016, 11, 363-367.	0.5	4
47	Photovoltaic and Impedance Properties of Hierarchical TiO ₂ Nanowire Based Quantum Dot Sensitized Solar Cell. Journal of Nanomaterials, 2015, 2015, 1-9.	2.7	1
48	Growth and characterization of layer by layer CdS@ZnS QDs on dandelion like TiO ₂ microspheres for QDSSC application. Materials Science in Semiconductor Processing, 2015, 36, 57-64.	4.0	19
49	Photovoltaic and Impedance Spectroscopy Study of Screen-Printed TiO ₂ Based CdS Quantum Dot Sensitized Solar Cells. Materials, 2015, 8, 355-367.	2.9	21
50	Assembly of CdS Quantum Dots onto Hierarchical TiO ₂ Structure for Quantum Dots Sensitized Solar Cell Applications. Materials, 2015, 8, 2376-2386.	2.9	9
51	Effects of 1064 nm laser on the structural and optical properties of nanostructured TiO ₂ thin film. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2014, 117, 386-391.	0.6	5
52	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
53	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
54	Photovoltaic and Impedance Spectroscopic Analysis of CdSe Quantum Dot Solar Cell. Journal of Nanoelectronics and Optoelectronics, 2014, 9, 671-674.	0.5	2

#	ARTICLE	IF	CITATIONS
55	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
56	Laser irradiation effect on ZnO nanoparticles. , 2013, , .		1
57	Optical properties of nano-structured Pt/FTO counter electrode for QDSSCs. , 2013, , .		0
58	Tailoring of CdS Nano Films Through CBD-Isochronal Synthesis For PV Applications. Materials Research Society Symposia Proceedings, 2012, 1396, .	0.1	0