

Mahmmoud S Abd El-Sadek

List of Publications by Year in descending order

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60
papers

1,636
citations

304743

22
h-index

302126

39
g-index

60
all docs

60
docs citations

60
times ranked

2129
citing authors

#	ARTICLE	IF	CITATIONS
1	Titanium Dioxide Nanoparticles Improve Growth and Enhance Tolerance of Broad Bean Plants under Saline Soil Conditions. <i>Land Degradation and Development</i> , 2018, 29, 1065-1073.	3.9	222
2	Synthesis, diffused reflectance and electrical properties of nanocrystalline Fe-doped ZnO via sol-gel calcination technique. <i>Optics and Laser Technology</i> , 2013, 48, 447-452.	4.6	197
3	Thermal annealing effect on the structural and the optical properties of Nano CdTe films. <i>Optik</i> , 2015, 126, 1352-1357.	2.9	101
4	Hyperfine interaction and tuning of magnetic anisotropy of Cu doped CoFe ₂ O ₄ ferrite nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 411, 91-97.	2.3	85
5	Electrical and magnetic transport properties of Ni-Cu-Mg ferrite nanoparticles prepared by sol-gel method. <i>Journal of Alloys and Compounds</i> , 2013, 566, 112-119.	5.5	80
6	Synthesis and optical characterization of nanocrystalline CdTe thin films. <i>Optics and Laser Technology</i> , 2010, 42, 1181-1186.	4.6	53
7	Influence of reaction time and synthesis temperature on the physical properties of ZnO nanoparticles synthesized by the hydrothermal method. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	2.3	53
8	Optical properties of Al-CdO nano-clusters thin films. <i>Superlattices and Microstructures</i> , 2013, 64, 178-184.	3.1	50
9	The Anti-Fasciolasis Properties of Silver Nanoparticles Produced by <i>Trichoderma harzianum</i> and Their Improvement of the Anti-Fasciolasis Drug Triclabendazole. <i>International Journal of Molecular Sciences</i> , 2013, 14, 21887-21898.	4.1	45
10	Influence of different stabilizers on the optical and nonlinear optical properties of CdTe nanoparticles. <i>Optics Communications</i> , 2011, 284, 2900-2904.	2.1	43
11	Extraordinary high dielectric constant, electrical and magnetic properties of ferrite nanoparticles at room temperature. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	43
12	Effect of transparent conducting substrates on the structure and optical properties of tin (II) oxide (SnO) thin films: Comparative study. <i>Ceramics International</i> , 2021, 47, 13510-13518.	4.8	42
13	Spectroscopic ellipsometry investigations of the optical constants of nanocrystalline SnS thin films. <i>Physica Scripta</i> , 2012, 86, 015702.	2.5	36
14	Optical linearity and bandgap analysis of RhB-doped PMMA/FTO polymeric composites films: A new designed optical system for laser power attenuation. <i>Optics and Laser Technology</i> , 2020, 121, 105823.	4.6	35
15	X-ray peak profile analysis and optical properties of CdS nanoparticles synthesized via the hydrothermal method. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	2.3	34
16	Dual nanofiber scaffolds composed of polyurethane- gelatin/nylon 6- gelatin for bone tissue engineering. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 597, 124817.	4.7	34
17	Synthesis, thermal characterization, and antimicrobial activity of lanthanum, cerium, and thorium complexes of amino acid Schiff base ligand. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 112, 671-681.	3.6	33
18	Effect of metal oxide morphology on electron injection from CdSe quantum dots to ZnO. <i>Applied Physics Letters</i> , 2013, 102, 163119.	3.3	33

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19	Transport properties of Bi ₂ S ₃ single crystals. <i>Physica B: Condensed Matter</i> , 2008, 403, 1655-1659.	2.7	27
20	The role of potassium tellurite as tellurium source in mercaptoacetic acid-capped CdTe nanoparticles. <i>Current Applied Physics</i> , 2010, 10, 317-322.	2.4	27
21	Growth and optical characterization of colloidal CdTe nanoparticles capped by a bifunctional molecule. <i>Physica B: Condensed Matter</i> , 2010, 405, 3279-3283.	2.7	26
22	Methyl orange (C.I. acid orange 52) as a new organic semiconductor: Conduction mechanism and dielectrical relaxation. <i>Dyes and Pigments</i> , 2012, 93, 1434-1440.	3.7	25
23	Semiconductor parameters of Bi ₂ Te ₃ single crystal. <i>Materials Chemistry and Physics</i> , 2009, 113, 385-388.	4.0	22
24	Linear and nonlinear optical properties of nano-spherical Perylenetetracarboxylic dianhydride/ITO as a new optical system. <i>Optics and Laser Technology</i> , 2018, 108, 241-246.	4.6	22
25	Novel and highly stable indigo (C.I. Vat Blue I) organic semiconductor dye: Crystal structure, optically diffused reflectance and the electrical conductivity/dielectric behaviors. <i>Dyes and Pigments</i> , 2017, 146, 66-72.	3.7	18
26	Nutritional impact of nano-selenium, garlic oil, and their combination on growth and reproductive performance of male Californian rabbits. <i>Animal Feed Science and Technology</i> , 2019, 249, 37-45.	2.2	18
27	Simultaneous synthesis of various Sb ₂ S ₃ nanostructures by vapor transport technique. <i>Materials Chemistry and Physics</i> , 2019, 235, 121750.	4.0	17
28	Investigation of defects in indium doped TiO ₂ thin films using electrical and optical techniques. <i>Journal of Alloys and Compounds</i> , 2017, 698, 883-891.	5.5	16
29	A controlled approach for synthesizing CdTe@CrOOH (core-shell) composite nanoparticles. <i>Current Applied Physics</i> , 2011, 11, 926-932.	2.4	15
30	Combined Supplementation of Nano-Zinc Oxide and Thyme Oil Improves the Nutrient Digestibility and Reproductive Fertility in the Male Californian Rabbits. <i>Animals</i> , 2020, 10, 2234.	2.3	15
31	Synthesis, electrical properties and transport mechanisms of thermally vacuum evaporated CdTe nanocrystalline thin films. <i>Solid State Communications</i> , 2012, 152, 1644-1649.	1.9	12
32	Controlled morphological and physical properties of ZnO nanostructures synthesized by domestic microwave route. <i>Materials Chemistry and Physics</i> , 2021, 258, 123885.	4.0	12
33	Investigation of electrically active defects in InGaAs quantum wire intermediate-band solar cells using deep-level transient spectroscopy technique. <i>Nanotechnology</i> , 2017, 28, 045707.	2.6	11
34	Effects of Ca doping on structural and optical properties of PZT nanopowders. <i>Results in Physics</i> , 2020, 19, 103580.	4.1	11
35	Morphological, structural, and optical properties of flexible Tin Oxide(II) thin film via thermal evaporation technique. <i>European Physical Journal Plus</i> , 2022, 137, 1.	2.6	10
36	Facile synthesis, structural, electrical and dielectric properties of CdSe/CdS core-shell quantum dots. <i>Vacuum</i> , 2018, 157, 291-298.	3.5	9

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37	Novel synthesis, structural, optical properties and antibacterial activity of ZnO nanoparticles. <i>Materials Research Express</i> , 2019, 6, 055003.	1.6	8
38	Effect of Al ₂ O ₃ on the structural, optical and mechanical properties of B ₂ O ₃ -CaO-SiO ₂ -P ₂ O ₅ -Na ₂ O glass system. <i>Optik</i> , 2022, 250, 168281.	2.9	8
39	Structural analysis, optical and mechanical properties of Ti _x Zr _{1-x} O ₂ nanoparticles synthesized by modified co-precipitation route. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	2.3	7
40	Annealing temperature effect to optimize the optical properties of SnS thin films. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	7
41	Optical properties of thiol-stabilised CdTe nanoparticles. <i>International Journal of Nanoparticles</i> , 2009, 2, 20.	0.3	6
42	Electronic transport mechanism of CdTe nanocrystalline. <i>Materials Chemistry and Physics</i> , 2011, 130, 591-597.	4.0	6
43	Structural, humidity sensing and dielectric properties of Ca-modified Ba(Ti _{0.9} Sn _{0.1})O ₃ lead free ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 7622-7632.	2.2	6
44	Influence of PbO phase content on structural and optical properties of PZT nanopowders. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 2315-2327.	3.1	6
45	Aqueous synthesis and characterization of CdTe@Co(OH) ₂ (core-shell) composite nanoparticles. <i>Materials Chemistry and Physics</i> , 2010, 124, 592-599.	4.0	5
46	Selective synthesis and characterization of CdTe@Mn(OH) ₂ (core-shell) composite nanoparticles. <i>Journal of Alloys and Compounds</i> , 2010, 496, 589-594.	5.5	5
47	Photoluminescence and optical dispersion parameters of N-doped ZnO nano-fiber thin films. <i>Journal of Electroceramics</i> , 2013, 30, 152-158.	2.0	5
48	Synthesis, Characterization and Antibiotics Labeling Affinity of CdTe Quantum Dots. <i>Nanoscience and Nanotechnology Letters</i> , 2014, 6, 18-25.	0.4	5
49	CdTe@Cu(OH) ₂ nanocomposite: Aqueous synthesis and characterization. <i>Journal of Solid State Chemistry</i> , 2011, 184, 1135-1140.	2.9	4
50	Effect of β -irradiation on Structural and Optical Ellipsometry Parameters of ZnO Nanocrystalline Thin Films. <i>International Journal of Thin Film Science and Technology</i> , 2014, 3, 129-141.	0.6	4
51	Design and microelectronic analysis of Au/ZnTe:In/CdTe:In/GaAs/In photosensor for optoelectronic applications using MBE technology. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 4936-4942.	2.2	4
52	Influence of Illumination on the Electrical Properties of p-(ZnMgTe/ZnTe:N)/CdTe/n-(CdTe:In)/GaAs Heterojunction Grown by Molecular Beam Epitaxy (MBE). <i>Journal of Electronic Materials</i> , 2017, 46, 1061-1066.	2.2	3
53	CdS@Mn(OH) ₂ nanocomposites: Novel aqueous synthesis, structural and optical properties. <i>European Physical Journal Plus</i> , 2018, 133, 1.	2.6	3
54	Multiferroic BiFeO ₃ dithizone functionalized as optical sensor for detection and determination of some heavy metals in environmental samples. <i>Bulletin of Materials Science</i> , 2021, 44, 1.	1.7	3

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55	Comparative Study on Three Different Methods for Synthesis of a Pure Nano Multiferroic BiFeO_3 . Advanced Science, Engineering and Medicine, 2017, 9, 461-468.	0.3	3
56	Microstructural Analysis and Optical Properties of Lead Zirconate Nanoparticles. Jom, 2021, 73, 630-639.	1.9	2
57	Synthesis and optical properties of CdSe/CdS core/shell nanocrystals. Materials Science-Poland, 2019, 37, 149-157.	1.0	2
58	Linear and Nonlinear Optical Properties of Mercaptoacetic Acid-Capped CdTe Nanoparticles by $\langle I \rangle_Z$ -Scan Technique. Nanoscience and Nanotechnology Letters, 2011, 3, 637-642.	0.4	1
59	Photoinduced Interaction of MPA-Capped CdTe Quantum Dots with Denatured Bovine Serum Albumin. Nanoscience and Nanotechnology Letters, 2011, 3, 125-130.	0.4	1
60	Optical properties of nano-structured Pt/FTO counter electrode for QDSSCs. , 2013, , .		0