

# Band gap variation of size-controlled ZnO quantum dot

Chemical Physics Letters

409, 208-211

DOI: [10.1016/j.cplett.2005.05.027](https://doi.org/10.1016/j.cplett.2005.05.027)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Enhanced Resonant Raman Scattering and Electron-Phonon Coupling from Self-Assembled Secondary ZnO Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2005, 109, 18385-18390.	1.2	83
2	Chemical Synthesis of ZnO Nanocrystals. , 0, , .		3
3	Size dependence of photoluminescence and resonant Raman scattering from ZnO quantum dots. <i>Applied Physics Letters</i> , 2006, 88, 261909.	1.5	148
4	Band gap engineering and spatial confinement of optical phonon in ZnO quantum dots. <i>Applied Physics Letters</i> , 2006, 88, 263117.	1.5	105
5	Fine-Tuning the Synthesis of ZnO Nanostructures by an Alcohol Thermal Process. <i>Journal of Physical Chemistry B</i> , 2006, 110, 10348-10353.	1.2	49
6	Bandgap engineering and spatial confinement of optical phonon in ZnO quantum dots. , 2006, , .		1
7	Synthesis and bandgap oscillation of uncapped, ZnO clusters by electroporation of vesicles. <i>Nanotechnology</i> , 2006, 17, 4713-4718.	1.3	35
8	Synthesis of nanohybrid materials by femtosecond laser ablation in liquid medium. <i>Journal of Physics: Conference Series</i> , 2007, 59, 259-265.	0.3	11
9	Reducing exciton-longitudinal optical phonon coupling with increasing Mg incorporation in MgZnO powders. <i>Journal of Applied Physics</i> , 2007, 102, 123504.	1.1	16
10	Monodisperse ZnO Nanodots: Synthesis, Characterization, and Optoelectronic Properties. <i>Journal of Physical Chemistry C</i> , 2007, 111, 9757-9760.	1.5	28
11	Acoustic and optical phonon assisted formation of biexcitons. <i>Applied Physics Letters</i> , 2007, 91, 111907.	1.5	19
12	Optical properties of ZnO nanocrystals embedded in BaF <sub>2</sub> film fabricated by magnetron sputtering. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 5598-5601.	1.3	5
13	ZnO nanoparticle size-dependent excitation of surface Raman signal from adsorbed molecules: Observation of a charge-transfer resonance. <i>Applied Physics Letters</i> , 2007, 91, 221106.	1.5	107
14	Tunable Physical Properties of CaWO <sub>4</sub> Nanocrystals via Particle Size Control. <i>Journal of Physical Chemistry C</i> , 2007, 111, 6684-6689.	1.5	85
15	Surface modifications of ZnO quantum dots for bio-imaging. <i>Nanotechnology</i> , 2007, 18, 215604.	1.3	126
16	Raman study of alloy potential fluctuations in Mg <sub>x</sub> Zn <sub>1-x</sub> O nanopowders. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 186201.	0.7	12
17	Chemical Synthesis of ZnO Nanocrystals. <i>IEEE Nanotechnology Magazine</i> , 2007, 6, 497-503.	1.1	17
18	Surface modification of ZnO nanocrystals. <i>Applied Surface Science</i> , 2007, 253, 5473-5479.	3.1	196

#	ARTICLE	IF	CITATIONS
19	Correlation between photoluminescence and varied growth pressure of well-aligned ZnO nanorods on fused silica substrate. <i>Optical Materials</i> , 2007, 30, 502-507.	1.7	2
20	Zinc oxide nanostructures grown by pulsed laser deposition. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 93, 729-733.	1.1	36
21	Synthesis of nanocrystalline ZnO powder via sol-gel route for dye-sensitized solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2008, 92, 1639-1645.	3.0	302
22	Size dependent exciton energy of various technologically important colloidal quantum dots. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2008, 147, 280-283.	1.7	31
23	ZnO controllable sized quantum dots produced by polyol method: An experimental and theoretical study. <i>Materials Letters</i> , 2008, 62, 3533-3535.	1.3	49
24	Electronic structures and surface states of ZnO finite well structures. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 215307.	1.3	6
25	Imaging of zinc oxide nanoparticle penetration in human skin in vitro and in vivo. <i>Journal of Biomedical Optics</i> , 2008, 13, 064031.	1.4	254
26	Optical behaviors of ZnO-porphyrin conjugates and their potential applications for cancer treatment. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	71
27	Mesosynthesis of ZnO-SiO <sub>2</sub> porous nanocomposites with low-defect ZnO nanometric domains. <i>Nanotechnology</i> , 2008, 19, 225603.	1.3	25
28	Photoluminescence and photoabsorption blueshift of nanostructured ZnO: Skin-depth quantum trapping and electron-phonon coupling. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	21
29	The structure and optical properties of ZnO nanocrystals embedded in SiO <sub>2</sub> fabricated by radio-frequency sputtering. <i>Nanotechnology</i> , 2009, 20, 075601.	1.3	21
30	A Novel Approach for Chemical Vapor Synthesis of ZnO Nanocrystals: Optimization of Yield, Crystallinity. <i>Chemical Vapor Deposition</i> , 2009, 15, 192-198.	1.4	28
31	Structure and Photoluminescent Properties of ZnO Encapsulated in Mesoporous Silica SBA-15 Fabricated by Two-Solvent Strategy. <i>Nanoscale Research Letters</i> , 2009, 4, 646-54.	3.1	67
32	Towards a definition of inorganic nanoparticles from an environmental, health and safety perspective. <i>Nature Nanotechnology</i> , 2009, 4, 634-641.	15.6	1,586
33	Thin film and interface properties during ZnO deposition onto high-barrier hybrid/PET flexible substrates. <i>Micron</i> , 2009, 40, 130-134.	1.1	17
34	Synthesis of stable dispersion of ZnO quantum dots in aqueous medium showing visible emission from bluish green to yellow. <i>Journal of Luminescence</i> , 2009, 129, 320-324.	1.5	116
35	Behavior of ultraviolet emission from nanocrystalline embedded ZnO film synthesized by solution-based route. <i>Journal of Crystal Growth</i> , 2009, 311, 1539-1544.	0.7	13
36	Quantum confinement effect in ZnO nanoparticles synthesized by co-precipitate method. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009, 41, 1669-1672.	1.3	86

#	ARTICLE	IF	CITATIONS
37	Photoinduced energy transfer in ZnO-tetraphenylporphyrin systems. <i>Chemical Physics Letters</i> , 2009, 474, 315-319.	1.2	10
38	Synthesis of ZnO nanoparticles by laser ablation in liquid and their annealing transformation into ZnO nanoparticles. <i>Applied Surface Science</i> , 2009, 256, 298-304.	3.1	184
39	ZnO Nanowires Grown by Chemical Bath Deposition in a Continuous Flow Microreactor. <i>Crystal Growth and Design</i> , 2009, 9, 4538-4545.	1.4	62
40	The transfer of charge carriers photogenerated in ZnO nanoparticles into a single ZnO nanowire. <i>Nanotechnology</i> , 2009, 20, 245201.	1.3	21
41	Growth mechanism and diameter control of well-aligned small-diameter ZnO nanowire arrays synthesized by a catalyst-free thermal evaporation method. <i>Nanotechnology</i> , 2009, 20, 495604.	1.3	69
42	Raman-active Fröhlich optical phonon mode in arsenic implanted ZnO. <i>Applied Physics Letters</i> , 2009, 94, 011913.	1.5	49
43	Size quantization effect in highly stable UV emitting HgTe nanoparticles: Structure and optical properties. <i>Journal of Applied Physics</i> , 2009, 106, .	1.1	7
44	Linear and nonlinear optical properties of ZnO/PMMA nanocomposite films. <i>Journal of Applied Physics</i> , 2009, 106, .	1.1	84
45	Tailoring the luminescence emission of ZnO nanostructures by hydrothermal post-treatment in water. <i>Applied Physics Letters</i> , 2010, 96, 223105.	1.5	35
46	Electrochemical synthesis of ZnO coatings from water-isopropanol mixed baths: control over oriented crystallization. <i>Journal of Solid State Electrochemistry</i> , 2010, 14, 2083-2088.	1.2	8
47	Open-Circuit Voltage Improvement in Hybrid ZnO-Polymer Photovoltaic Devices With Oxide Engineering. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010, 16, 1587-1594.	1.9	25
48	A template-free alcoholthermal route to Ti(Sn)-doped ZnO nanorods. <i>Materials Research Bulletin</i> , 2010, 45, 403-408.	2.7	12
49	Silicon nanoparticles with chemically tailored surfaces. <i>Applied Organometallic Chemistry</i> , 2010, 24, 236-240.	1.7	36
50	Structural and optical properties of ZnO nanopowder prepared by microwave-assisted synthesis. <i>Journal of Luminescence</i> , 2010, 130, 1756-1759.	1.5	29
51	Linear and nonlinear optical properties of luminescent ZnO nanoparticles embedded in PMMA matrix. <i>Optics Communications</i> , 2010, 283, 2908-2913.	1.0	73
52	Micro-structural investigations and paramagnetic susceptibilities of zinc oxide, europium oxide and their nanocomposite. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 283-289.	1.0	14
53	Theoretical studies of preparation of core-shell nanoparticles by electrochemical metal deposition. <i>Electrochimica Acta</i> , 2010, 55, 8244-8251.	2.6	23
54	Solution-processed ZnO nanocrystals in thin-film light-emitting diodes for printed electronics. <i>Journal of Applied Physics</i> , 2010, 108, 084302.	1.1	32

#	ARTICLE	IF	CITATIONS
55	Effect of post-annealing temperature on structural and optical properties of nano-ZnO synthesised from ZnO by laser ablation method. International Journal of Nanoparticles, 2010, 3, 257.	0.1	8
57	Mechanically Stiffened and Thermally Softened Raman Modes of ZnO Crystal. Journal of Physical Chemistry B, 2010, 114, 1648-1651.	1.2	28
58	Bandgap Modulation in ZnO by Size, Pressure, and Temperature. Journal of Physical Chemistry C, 2010, 114, 13370-13374.	1.5	31
59	Probing Charge Carrier Density in a Layer of Photodoped ZnO Nanoparticles by Spectroscopic Ellipsometry. Journal of Physical Chemistry C, 2010, 114, 14804-14810.	1.5	57
60	Optical properties of ZnO/PMMA nanocomposite films. Journal of Alloys and Compounds, 2010, 502, 24-27.	2.8	80
61	Amino acid-assisted synthesis of ZnO twin-prisms and functional group's influence on their morphologies. Journal of Alloys and Compounds, 2010, 507, 326-330.	2.8	20
62	Conventional Optics from Unconventional Electronics in ZnO Quantum Dots. Journal of Physical Chemistry C, 2010, 114, 9301-9307.	1.5	81
63	Systematic Control of Monoclinic CdWO <sub>4</sub> Nanophase for Optimum Photocatalytic Activity. Journal of Physical Chemistry C, 2010, 114, 1512-1519.	1.5	88
64	Decoration of ZnO nanocrystals on the surface of shuttle-shaped Mn <sub>2</sub> O <sub>3</sub> and its magnetic-optical properties. CrystEngComm, 2010, 12, 2687.	1.3	15
65	Structural and optical characterizations of n-type doped ZnO by sol-gel method for photovoltaic. , 2011, , .		3
66	Anomalous optical processes in photoluminescence from ultrasmall quantum dots of ZnO. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2011, 29, .	0.9	10
67	Self-Assembled Zinc Oxide Quantum Dots Using Spray Pyrolysis Methodology. Crystal Growth and Design, 2011, 11, 3790-3801.	1.4	10
68	Controlling the Band Gap of ZnO by Programmable Annealing. Journal of Physical Chemistry C, 2011, 115, 20487-20490.	1.5	40
69	Temperature and size dependence of time-resolved exciton recombination in ZnO quantum dots. Applied Physics Letters, 2011, 99, .	1.5	18
70	Optical absorption and photoluminescence properties of ZnO/PMMA nanocomposite films. Journal of Physics: Conference Series, 2011, 289, 012003.	0.3	16
71	Synthesis of ZnO nanoparticles using surfactant free in-air and microwave method. Applied Surface Science, 2011, 257, 9661-9672.	3.1	158
72	Optical properties of dielectric thin films including quantum dots. Applied Optics, 2011, 50, C129.	2.1	12
73	In Situ and Simultaneous UV-vis/SAXS and UV-vis/XAFS Time-Resolved Monitoring of ZnO Quantum Dots Formation and Growth. Journal of Physical Chemistry C, 2011, 115, 4404-4412.	1.5	77

#	ARTICLE	IF	CITATIONS
74	Optical, X-Ray Diffraction, and Magnetic Properties of the Cobalt-Substituted Nickel Chromium Ferrites (FeO <sub>4</sub> ) Synthesized Using Sol-Gel Autocombustion Method. Journal of Nanotechnology, 2011, 2011, 1-6.	1.5	32
75	Effects of ultraviolet treatment on the optical and structural properties of ZnO nanoparticles. Materials Chemistry and Physics, 2011, 130, 299-302.	2.0	13
76	Size-dependent optical properties of transparent, spin-coated polystyrene/ZnO nanocomposite films. Polymer International, 2011, 60, 1263-1268.	1.6	30
77	Control Over the Crystallinity and Defect Chemistry of YVO <sub>4</sub> Nanocrystals for Optimum Photocatalytic Property. European Journal of Inorganic Chemistry, 2011, 2011, 2211-2220.	1.0	61
78	A sol-gel method for preparing ZnO quantum dots with strong blue emission. Journal of Luminescence, 2011, 131, 2072-2077.	1.5	49
79	Effect of aluminum doping on the structural and luminescent properties of ZnO nanoparticles synthesized by wet chemical method. Physica E: Low-Dimensional Systems and Nanostructures, 2011, 43, 1166-1170.	1.3	28
80	Structural, morphological, magnetic and optical properties of chromium substituted strontium ferrites, SrCr <sub>x</sub> Fe <sub>12-x</sub> O <sub>19</sub> (x=0.5, 1.0, 1.5, 2.0 and 2.5) annealed with potassium halides. Powder Technology, 2011, 212, 193-197.	2.1	47
81	Nanoparticles for Photodynamic Therapy Applications. Fundamental Biomedical Technologies, 2011, , 511-565.	0.2	8
82	The Effect of Annealing Temperature on the Band Gap of ZnO Nano Materials. Advanced Materials Research, 2012, 545, 165-168.	0.3	2
83	Influence of Drying Temperature on the Structural, Optical, and Electrical Properties of Layer-by-Layer ZnO Nanoparticles Seeded Catalyst. Journal of Nanomaterials, 2012, 2012, 1-7.	1.5	13
84	Critical Size of Temperature-Dependent Band Shift in Colloidal PbSe Quantum Dots. Current Nanoscience, 2012, 8, 909-913.	0.7	1
85	ZnO Meso-Mechano-Thermo Physical Chemistry. Chemical Reviews, 2012, 112, 2833-2852.	23.0	77
86	Influence of Reaction Temperature on Crystal Structure and Band Gap of ZnO Nanoparticles. Materials and Manufacturing Processes, 2012, 27, 1334-1342.	2.7	16
87	Structural and Luminescence Properties of Highly Crystalline ZnO Nanoparticles Prepared by Sol-Gel Method. Japanese Journal of Applied Physics, 2012, 51, 04DG13.	0.8	12
88	Quadrupole effects in photoabsorption in ZnO quantum dots. Journal of Applied Physics, 2012, 112, 104323.	1.1	12
89	Highly Transparent and Multifunctional Polymer Nanohybrid Film with Superhigh ZnO Content Synthesized by a Bulk Polymerization Method. Industrial & Engineering Chemistry Research, 2012, 51, 6753-6759.	1.8	27
90	Size-dependent visible photoluminescence from ZnO nanoparticles prepared via SiO <sub>2</sub> network. Superlattices and Microstructures, 2012, 52, 193-199.	1.4	3
91	Microwave-assisted non-aqueous route to deposit well-dispersed ZnO nanocrystals on reduced graphene oxide sheets with improved photoactivity for the decolorization of dyes under visible light. Applied Catalysis B: Environmental, 2012, 125, 425-431.	10.8	161

#	ARTICLE	IF	CITATIONS
92	Morphology evolutions and optical properties of Cu <sub>2</sub> O films by an electrochemical deposition on flexible substrate. <i>Applied Surface Science</i> , 2012, 258, 3232-3236.	3.1	32
93	Morphology-dependent humidity adsorption kinetics of ZnO nanostructures. <i>Sensors and Actuators A: Physical</i> , 2012, 187, 37-42.	2.0	30
94	Epitaxial growth of colloidal hydrophilic lattice matched HgTe/CdTe core/shell nanocrystals for UV luminescence. <i>Materials Chemistry and Physics</i> , 2012, 137, 389-395.	2.0	1
95	Linear and nonlinear intraband optical properties of ZnO quantum dots embedded in SiO <sub>2</sub> matrix. <i>AIP Advances</i> , 2012, 2, .	0.6	28
96	Photoelectrochemical Hydrogen Production. <i>Kluwer International Series in Electronic Materials: Science and Technology</i> , 2012, , .	0.3	383
97	Principles of Photoelectrochemical Cells. <i>Kluwer International Series in Electronic Materials: Science and Technology</i> , 2012, , 13-67.	0.3	59
98	ZnO Hollow Quantum Dot: A Promising Deep-UV Light Emitter. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 210-213.	4.0	14
99	Template-free solvothermal synthesis of ZnO nanoparticles with controllable size and their size-dependent optical properties. <i>Materials Letters</i> , 2012, 66, 318-320.	1.3	25
100	Experimental and theoretical determination of the low-loss electron energy loss spectroscopy of nanostructured ZnO. <i>Micron</i> , 2012, 43, 177-182.	1.1	8
101	Structural, electrical, optical and magnetic properties of chromium substituted Co <sup>2+</sup> /Zn nanoferrites Co <sub>0.6</sub> Zn <sub>0.4</sub> CrxFe <sub>2-1.5x</sub> O <sub>4</sub> (0 ≤ x ≤ 1.0) prepared via sol-gel auto-combustion method. <i>Journal of Molecular Structure</i> , 2012, 1012, 162-167.	1.8	71
102	Investigation of structural, magnetic, electrical and optical properties of chromium substituted cobalt ferrites (Co <sub>1-x</sub> CrxFe <sub>2-1.5x</sub> O <sub>4</sub> , 0 ≤ x ≤ 1) synthesized using sol gel auto combustion method. <i>Journal of Molecular Structure</i> , 2012, 1012, 182-188.	1.8	87
103	Effect of sol concentration on the structural, morphological, optical and photoluminescence properties of zirconia thin films. <i>Thin Solid Films</i> , 2012, 520, 2683-2688.	0.8	33
104	A study on morphology control and optical properties of ZnO nanorods synthesized by microwave heating. <i>Journal of Luminescence</i> , 2012, 132, 226-230.	1.5	22
105	Single Step Preparation of Regular Zincite Nanospheres Using Cucurbit[7]uril. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2013, 43, 1078-1082.	0.6	2
106	Linear and nonlinear optical properties of ZnO/ZnS and ZnS/ZnO core shell quantum dots: Effects of shell thickness, impurity, and dielectric environment. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	151
107	Facile one-step synthesis of magnesium-doped ZnO nanoparticles: optical properties and their device applications. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 285101.	1.3	22
108	Band gap broadening and photoluminescence properties investigation in Ga <sub>2</sub> O <sub>3</sub> polycrystal. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 2750-2754.	1.1	8
109	Synthesis, structural and optical properties of nanocrystalline Ba <sub>2</sub> NaNb <sub>5</sub> O <sub>15</sub> . <i>CrystEngComm</i> , 2013, 15, 8887.	1.3	10

#	ARTICLE	IF	CITATIONS
110	Antireflection and band gap extension effects of ZnO nanocrystalline films grown on ITO-coated glasses by low temperature process. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2013, 178, 263-266.	1.7	18
111	Mesoporous coupled ZnO/TiO <sub>2</sub> photocatalyst nanocomposites for hydrogen generation. <i>Journal of Renewable and Sustainable Energy</i> , 2013, 5, .	0.8	39
112	Super rapid response of humidity sensor based on MOCVD grown ZnO nanotips array. <i>Sensors and Actuators B: Chemical</i> , 2013, 178, 331-338.	4.0	55
113	Ambient synthesis and optoelectronic properties of copper iodide semiconductor nanoparticles. <i>Journal of Alloys and Compounds</i> , 2013, 556, 198-202.	2.8	31
114	Influence of N <sub>2</sub> and O <sub>2</sub> annealing treatment on the optical bandgap of polycrystalline Ga <sub>2</sub> O <sub>3</sub> :Cu films. <i>Materials Science in Semiconductor Processing</i> , 2013, 16, 1303-1307.	1.9	17
115	Enhancement of the intensity ratio of ultraviolet to visible luminescence with increased excitation in ZnO nanoparticles deposited on porous anodic alumina. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 505104.	1.3	24
116	Size-dependent shifts of the N <sub>A</sub> el temperature and optical band-gap in NiO nanoparticles. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	71
117	Effect of doping with 3d elements (Co, Ni, Cu) on the intrinsic defect structure and photocatalytic properties of nanostructured ZnO with tubular morphology of aggregates. <i>Physics of the Solid State</i> , 2013, 55, 2459-2465.	0.2	17
118	Self-assembled Mg <sub>x</sub> Zn <sub>1-x</sub> O quantum dots (0 ≤ x ≤ 1) on different substrates using spray pyrolysis methodology. <i>CrystEngComm</i> , 2013, 15, 182-191.	1.3	11
119	Investigations on the influence of surfactant in morphology and optical properties of zinc oxide nanopowders for dye-sensitized solar cells applications. <i>Materials Science in Semiconductor Processing</i> , 2013, 16, 1095-1104.	1.9	14
120	Polar surface effects on the thermal conductivity of ZnO nanowires: a shell-like surface reconstruction-induced preserving mechanism. <i>Nanoscale</i> , 2013, 5, 11035.	2.8	9
121	Influence of Modified ZnO Quantum Dots and Nanostructures as New Antibacterials. <i>Advances in Nanoparticles</i> , 2013, 02, 247-258.	0.3	22
122	Distinct biokinetic behavior of ZnO nanoparticles in <i>Daphnia magna</i> quantified by synthesizing <sup>65</sup> Zn tracer. <i>Water Research</i> , 2013, 47, 895-902.	5.3	36
123	Growth of flower-like ZnO on ZnO nanorod arrays created on zinc substrate through low-temperature hydrothermal synthesis. <i>Applied Surface Science</i> , 2013, 264, 162-170.	3.1	132
124	Ligand mediated tuning of the electronic energy levels of ZnO nanoparticles. <i>RSC Advances</i> , 2013, 3, 532-539.	1.7	14
125	Correlation between defects in capped ZnO nanoparticles and their antibacterial activity. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2013, 126, 105-111.	1.7	57
126	In situ co-assembly synthesis of zinc oxide encapsulated in mesoporous silica. <i>Materials Letters</i> , 2013, 93, 12-14.	1.3	3
127	Enhancement of photoluminescence of different quantum dots by Ag@SiO <sub>2</sub> core-shell nanoparticles. <i>Materials Research Bulletin</i> , 2013, 48, 2076-2078.	2.7	7



#	ARTICLE	IF	CITATIONS
128	Surface related and intrinsic exciton recombination dynamics in ZnO nanoparticles synthesized by a sol-gel method. Applied Physics Letters, 2013, 102, 013109.	1.5	20
129	Band structure quantization in nanometer sized ZnO clusters. Nanoscale, 2013, 5, 3757.	2.8	13
130	Optical Properties of Oxide Nanomaterials. , 2013, , 387-430.		1
131	UV-VIS and Photoluminescence Spectroscopy for Nanomaterials Characterization. , 2013, , .		46
132	Electronic and optical properties of ZnO quantum dots under hydrostatic pressure. Physical Review B, 2013, 87, .	1.1	54
133	XPS and optical studies of different morphologies of ZnO nanostructures prepared by microwave methods. Ceramics International, 2013, 39, 2283-2292.	2.3	819
134	On the Similarity and Dissimilarity between Photocatalytic Water Splitting and Photocatalytic Degradation of Pollutants. ChemPhysChem, 2013, 14, 2059-2070.	1.0	70
135	Preparation of nanoporous titania spherical nanoparticles. Journal of Solid State Chemistry, 2013, 199, 317-325.	1.4	10
136	Simulations of the intermediate bandwidth fluctuations in nanostructured PV. Physica E: Low-Dimensional Systems and Nanostructures, 2013, 53, 130-136.	1.3	11
137	Microwave- and conventional-hydrothermal synthesis of CuS, SnS and ZnS: Optical properties. Ceramics International, 2013, 39, 4757-4763.	2.3	63
138	Preparation of luminescent ZnO nanoparticles modified with aminopropyltriethoxy silane for optoelectronic applications. New Journal of Chemistry, 2013, 37, 2103.	1.4	43
139	Existing Form of Zinc Oxide and Phase Transformation for Zinc Oxide Encapsulated in Mesoporous Silica. Journal of Materials Science and Technology, 2013, 29, 841-845.	5.6	3
140	Effects of temperature, stirring velocity and reactant concentration on the size and the optical properties of ZnO nanoparticles. Journal of Luminescence, 2013, 135, 170-177.	1.5	13
141	Optimization Study on Formation and Decomposition of Zinc Hydroxynitrates to Pure Zinc Oxide Nanoparticles in Supercritical Water. Industrial & Engineering Chemistry Research, 2013, 52, 1448-1454.	1.8	27
142	Size-controlled conformal nanofabrication of biotemplated three-dimensional TiO <sub>2</sub> and ZnO nanonetworks. Scientific Reports, 2013, 3, 2306.	1.6	37
143	Tunable ZnO quantum dots for bioimaging: synthesis and photoluminescence. Materials Technology, 2013, 28, 221-227.	1.5	56
144	Preserving the $Q$ -factors of ZnO nanoresonators via polar surface reconstruction. Nanotechnology, 2013, 24, 405705.	1.3	3
145	Growth of Zinc Oxide Rods in Different Heating Medium. Advanced Materials Research, 0, 667, 490-494.	0.3	0

#	ARTICLE	IF	CITATIONS
146	The Influence of Calcination Temperature on the Formation of Zinc Oxide Nanoparticles by Thermal-Treatment. <i>Applied Mechanics and Materials</i> , 0, 446-447, 181-184.	0.2	11
147	Harvesting piezoelectric potential from zinc oxide nanoflowers grown on textile fabric substrate. <i>Physica Status Solidi - Rapid Research Letters</i> , 2013, 7, 980-984.	1.2	31
148	A Facile Thermal-Treatment Route to Synthesize ZnO Nanosheets and Effect of Calcination Temperature. <i>PLoS ONE</i> , 2014, 9, e103134.	1.1	66
149	Organo-modified ZnO nanoparticles: tuning of the optical properties for PLED device fabrication. <i>New Journal of Chemistry</i> , 2014, 38, 6205-6211.	1.4	12
150	Effect of deposition parameters and strontium doping on characteristics of nanostructured ZnO thin film by chemical bath deposition method. , 2014, , .		0
151	Improvement of photoluminescence and lasing properties in ZnO submicron spheres by elimination of surface-trapped state. <i>Optics Express</i> , 2014, 22, 27169.	1.7	19
152	Optical, mechanical, and thermal behavior of poly(vinyl alcohol) composite films embedded with biosafe and optically active poly(amide-imide)-ZnO quantum dot nanocomposite as a novel reinforcement. <i>Colloid and Polymer Science</i> , 2014, 292, 2857-2867.	1.0	22
153	RF-sputtered Al-doped ZnO thin films: Optoelectrical properties and application in photovoltaic devices. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 2514-2522.	0.8	14
154	Doping concentration driven morphological evolution of Fe doped ZnO nanostructures. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	68
155	Influence of reactant concentration on optical properties of ZnO nanoparticles. <i>Materials Technology</i> , 2014, 29, 76-82.	1.5	8
156	Structural and Optical Studies of Sol-Gel Deposited Nanostructured ZnO Thin Films: Annealing Effect. <i>Environmental Science and Engineering</i> , 2014, , 709-712.	0.1	0
157	Bandgap Expansion: Photon Emission and Absorption. <i>Springer Series in Chemical Physics</i> , 2014, , 345-370.	0.2	1
158	Optical, structural, enhanced local vibrational and fluorescence properties in K-doped ZnO nanostructures. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 116, 395-401.	1.1	12
159	Influence of Al doping on microstructural, optical and photocatalytic properties of sol-gel based nanostructured zinc oxide films on glass. <i>RSC Advances</i> , 2014, 4, 11552-11563.	1.7	77
160	Photovoltage method for the research of CdS and ZnO nanoparticles and hybrid MEH-PPV/nanoparticle structures. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	3
161	Array of ZnO nanoparticle-sensitized ZnO nanorods for UV photodetection. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 852-856.	1.1	6
162	Synthesis of highly luminescent water stable ZnO quantum dots as photoluminescent sensor for picric acid. <i>Journal of Luminescence</i> , 2014, 154, 148-154.	1.5	39
163	Effect of particle size on the UV absorbance of zinc oxide nanoparticles. <i>Scripta Materialia</i> , 2014, 78-79, 49-52.	2.6	181

#	ARTICLE	IF	CITATIONS
164	Nanostructured semiconductor composites for solar cells. , 2014, , 267-320.		3
165	Quantum-Confined ZnO Nanoshell Photoanodes for Mesoscopic Solar Cells. Nano Letters, 2014, 14, 1190-1195.	4.5	42
166	Influence of Cd <sup>2+</sup> ions on the structural, electrical, optical and magnetic properties of Co <sup>2+</sup> /Zn nanoferrites prepared by sol gel auto combustion method. Journal of Molecular Structure, 2014, 1071, 95-102.	1.8	33
167	Electrophoretic deposition of ZnO nanostructures: Au nanoclusters on Si substrates induce self-assembled nanowire growth. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2014, 187, 21-25.	1.7	15
168	Synthesis and optical properties of Pr <sup>3+</sup> -doped ZnO quantum dots. Journal of Non-Crystalline Solids, 2014, 383, 176-180.	1.5	13
169	Fabrication and characterization of zinc oxide nanoparticle coated magnetic iron oxide: Effect of S-layers adsorption on surface of oxide. Journal of Industrial and Engineering Chemistry, 2014, 20, 3033-3036.	2.9	17
170	Preparation, Characterization, and Application of Zinc Oxide Nanoparticles by Sol-Gel Pyrolysis Method: Influence of Annealing Temperature on Crystalline Phases. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2014, 44, 1291-1298.	0.6	14
171	Fabrication and Characterization of CuO-ZnO-Cu <sub>2</sub> O Nano-Composites by Sol-Gel Route: Effect of Calcinations Temperature. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2014, 44, 1358-1362.	0.6	7
172	Synthesis and Characterization of Novel ZnO Nanophosphors. Advanced Materials Research, 2014, 938, 145-148.	0.3	0
173	One-step growth of isolated CdO nanoparticles on r-sapphire substrates by using the spray pyrolysis methodology. RSC Advances, 2014, 4, 23137.	1.7	12
174	A computational study of anion photoelectron spectroscopy of zinc oxide nanoclusters. Computational and Theoretical Chemistry, 2014, 1050, 23-30.	1.1	3
175	The Effect of Precursor Mixing Temperature during Precipitation Process on the Size of ZnO Nanoparticles and the Dispersion of ZnO@SiO <sub>2</sub> Core-Shell Nanostructure. Applied Mechanics and Materials, 2014, 525, 108-116.	0.2	1
176	Growth and characterization of self-assembled Cd <sup>x</sup> Mg <sub>1-x</sub> O (0 ≤ x ≤ 1) nanoparticles on r-sapphire substrates. CrystEngComm, 2014, 16, 8969-8976.	1.3	4
177	Solution-processed anchoring zinc oxide quantum dots on covalently modified graphene oxide. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	3
178	Air-processed inverted organic solar cells utilizing a 2-aminoethanol-stabilized ZnO nanoparticle electron transport layer that requires no thermal annealing. Journal of Materials Chemistry A, 2014, 2, 18754-18760.	5.2	33
179	The modification of structural and optical properties of nano- and submicron ZnO powders by variation of solvothermal syntheses conditions. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	4
180	One-Step Synthesis of ZnO Nanocrystals in <i>n</i> -Butanol with Bandgap Control: Applications in Hybrid and Organic Photovoltaic Devices. Journal of Physical Chemistry C, 2014, 118, 18417-18423.	1.5	16
181	Influence of pH on the performance of ZnO nanocrystal based dye sensitized solar cells. Superlattices and Microstructures, 2014, 75, 99-104.	1.4	8

#	ARTICLE	IF	CITATIONS
182	Toward p-type conduction in Cs-doped ZnO: an eco-friendly synthesis method. <i>Journal of Materials Science</i> , 2014, 49, 7418-7424.	1.7	5
183	A detailed investigation of electronic and intersubband optical properties of Al <sub>x</sub> Ga <sub>1-x</sub> As/Al <sub>0.3</sub> Ga <sub>0.7</sub> As/Al <sub>y</sub> Ga <sub>1-y</sub> multi-shell quantum dots. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 295302.		
184	A Study of Pb-Doping Effect on Structural, Optical, and Morphological Properties of ZnO Thin Films Deposited by Sol-gel Spin Coating. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014, 45, 3675-3685.	1.1	41
185	UV irradiations induce variations of ferromagnetism and resistivity in nitrogen doped ZnO films. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014, 378, 1965-1968.	0.9	4
186	Highly Luminescent ZnO Quantum Dots Made in a Nonthermal Plasma. <i>Advanced Functional Materials</i> , 2014, 24, 1988-1993.	7.8	80
187	Strain relaxation and quantum size effect studied by two-photon laser scanning photoluminescence microscopy. , 2015, , .		0
188	Microstructural, electrical, and optical properties of sol-gel derived HfMgZnO thin films. <i>Materials Research Express</i> , 2015, 2, 096402.	0.8	1
189	Anchoring Mechanism of ZnO Nanoparticles on Graphitic Carbon Nanofiber Surfaces through a Modified Co-Precipitation Method to Improve Interfacial Contact and Photocatalytic Performance. <i>ChemPhysChem</i> , 2015, 16, 3214-3232.	1.0	37
190	Ultra-small, size-controlled Ni(OH) <sub>2</sub> nanoparticles: elucidating the relationship between particle size and electrochemical performance for advanced energy storage devices. <i>NPG Asia Materials</i> , 2015, 7, e183-e183.	3.8	109
192	Hybrid carbon nanomaterials for electrochemical detection of biomolecules. <i>Physica Scripta</i> , 2015, 90, 094006.	1.2	3
193	A Comparative Investigation on the Structural, Optical and Electrical Properties of SiO <sub>2</sub> -Fe <sub>3</sub> O <sub>4</sub> Core-Shell Nanostructures with Their Single Components. <i>Acta Metallurgica Sinica (English Letters)</i> , 2015, 28, 1317-1325.	1.5	29
194	Effect of pH on Crystal Size and Photoluminescence Property of ZnO Nanoparticles Prepared by Chemical Precipitation Method. <i>Acta Metallurgica Sinica (English Letters)</i> , 2015, 28, 394-404.	1.5	197
195	Ultrathin undoped tetrahedral amorphous carbon films: thickness dependence of the electronic structure and implications for their electrochemical behaviour. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 9020-9031.	1.3	18
196	Dependence of ZnO-based dye-sensitized solar cell characteristics on the layer deposition method. <i>Bulletin of Materials Science</i> , 2015, 38, 65-72.	0.8	5
197	Significant enhancement of UV emission in ZnO nanorods subject to Ga <sup>+</sup> ion beam irradiation. <i>Nano Research</i> , 2015, 8, 1857-1864.	5.8	9
198	Influence of potassium permanganate on the anisotropic growth and enhanced UV emission of ZnO nanostructures using hydrothermal process for optoelectronic applications. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 75, 693-702.	1.1	28
199	Effect of surfactant on the physical properties of ZnO nanorods and the performance of ZnO photoelectrochemical cell. <i>Journal of Experimental Nanoscience</i> , 2015, 10, 599-609.	1.3	20
200	Enhancement of electrical conductivity in CoO-SiO <sub>2</sub> nanoglasses and large magnetodielectric effect in ZnO-nanoglass composites. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	8

#	ARTICLE	IF	CITATIONS
201	Synthesis, structural characterization and study of blue shift in optical properties of zinc oxide nano particles prepared by chemical route method. <i>Superlattices and Microstructures</i> , 2015, 88, 417-425.	1.4	8
202	ZnO quantum dots and graphene based heterostructure for excellent photoelastic and highly sensitive ultraviolet photodetector. <i>RSC Advances</i> , 2015, 5, 90838-90846.	1.7	23
203	Competition effects among size, dimensionality and pressure on modulating bandgap of CdSe and ZnO nanocrystals. <i>Physica B: Condensed Matter</i> , 2015, 479, 54-57.	1.3	2
204	Hybrid zinc oxide/graphene electrodes for depleted heterojunction colloidal quantum-dot solar cells. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 24412-24419.	1.3	45
205	Antireflective coatings with adjustable transmittance and high laser-induced damage threshold prepared by deposition of magnesium fluoride nanoparticles. <i>Applied Surface Science</i> , 2015, 356, 593-598.	3.1	32
206	Synthesis of uniformly distributed single- and double-sided zinc oxide (ZnO) nanocombs. <i>Journal of Crystal Growth</i> , 2015, 430, 34-40.	0.7	18
207	Influence of Growth Time and Temperature on the Morphology of ZnO Nanorods via Hydrothermal. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015, 99, 012016.	0.3	17
208	Air bubble promoted large scale synthesis of luminescent ZnO nanoparticles. <i>Journal of Materials Chemistry C</i> , 2015, 3, 12430-12435.	2.7	8
209	Crystalline Size Effects on Texture Coefficient, Electrical and Optical Properties of Sputter-deposited Ga-doped ZnO Thin Films. <i>Journal of Materials Science and Technology</i> , 2015, 31, 175-181.	5.6	126
210	Facile deposition of ZnO:Cu films: Structural and optical characterization. <i>Materials Science in Semiconductor Processing</i> , 2015, 30, 561-570.	1.9	14
212	Large Area Multicolor Emissive Patterns of Quantum Dot Polymer Films via Targeted Recovery of Emission Signature. <i>Advanced Optical Materials</i> , 2016, 4, 608-619.	3.6	27
213	Improved photoluminescence quantum yield and stability of CdSe-TOP, CdSe-ODA-TOPO, CdSe/CdS and CdSe/EP nanocomposites. <i>Materials Research Express</i> , 2016, 3, 075904.	0.8	7
214	~3-nm ZnO Nanoislands Deposition and Application in Charge Trapping Memory Grown by Single ALD Step. <i>Scientific Reports</i> , 2016, 6, 38712.	1.6	27
215	Distinctive mapping of strain and quantum size effects using depth-resolved photoluminescence in ZnO nanoneedles. <i>AIP Advances</i> , 2016, 6, 045021.	0.6	4
216	Advancing colloidal quantum dot photovoltaic technology. <i>Nanophotonics</i> , 2016, 5, 31-54.	2.9	19
217	In-assisted growth of InN nanocolumn on Si(111) substrate by molecular beam epitaxy. <i>Vacuum</i> , 2016, 128, 133-136.	1.6	6
218	Structure, optical property, and photo-catalytic activity of solid-solution $\hat{I}^2\text{-AgAl}_{1-\hat{x}}\text{Ga}_x\text{O}_2$ under visible light. <i>Materials Science in Semiconductor Processing</i> , 2016, 49, 54-60.	1.9	9
219	Synthesis, characterization and electrochemical performances of $\hat{I}^3\text{-Fe}_2\text{O}_3$ cathode material for Li-ion batteries. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 7953-7961.	1.1	14

#	ARTICLE	IF	CITATIONS
220	Effect of citric acid on formation of oxides of Cu and Zn in modified sol-gel process: A comparative study. <i>Journal of Chemical Sciences</i> , 2016, 128, 831-837.	0.7	10
221	Structural, electrical, and optomagnetic tweaking of Zn doped CoFe <sub>2</sub> ZnO <sub>4</sub> nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 414, 144-152.	1.0	58
222	Conjugated assembly of colloidal zinc oxide quantum dots and multiwalled carbon nanotubes for an excellent photosensitive ultraviolet photodetector. <i>Nanotechnology</i> , 2016, 27, 355204.	1.3	19
223	Influence of electronic excitations on structural, optical and electrical properties of undoped and antimony doped tin oxide thin films. <i>Thin Solid Films</i> , 2016, 616, 34-42.	0.8	28
224	Preparation, characterization and optoelectronic properties of nanodiamonds doped zinc oxide nanomaterials by a ball milling technique. <i>Materials Research Express</i> , 2016, 3, 075016.	0.8	11
225	Investigations in two-step ultrasonic synthesis of PMMA/ZnO nanocomposites by in situ emulsion polymerization. <i>Polymer</i> , 2016, 99, 453-469.	1.8	40
226	Highly efficient Al-doped ZnO : Ag catalyst for RB19 photocatalytic degradation: Microwave-assisted synthesis and characterization. <i>Korean Journal of Chemical Engineering</i> , 2016, 33, 2018-2026.	1.2	6
227	Studies on photocatalytic performance and photodegradation kinetics of zinc oxide nanoparticles prepared by microwave-assisted sol-gel technique using ethylene glycol. <i>Journal of the Iranian Chemical Society</i> , 2016, 13, 1593-1602.	1.2	13
228	Excellent photocatalytic performance of Zn(1-x)Mg <sub>x</sub> O/rGO nanocomposites under natural sunlight irradiation and their photovoltaic and UV detector applications. <i>Materials and Design</i> , 2016, 107, 47-55.	3.3	62
229	Nano/micro Sr <sub>2</sub> Bi <sub>4</sub> Ti <sub>5</sub> O <sub>18</sub> crystallites: Size dependent structural, second harmonic and piezoelectric properties. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2016, 211, 101-109.	1.7	13
230	Synthesis and photocatalytic activity of hybrid layered ZnO(myristic acid)/Ag nanoparticles. <i>Materials Letters</i> , 2016, 181, 8-11.	1.3	3
231	Controlling the exciton energy of zinc oxide (ZnO) quantum dots by changing the confinement conditions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 152, 637-644.	2.0	96
232	Magneto-optical properties of Fe <sub>2</sub> O <sub>3</sub> @ZnO nanocomposites prepared by the high energy ball-milling technique. <i>Journal of Physics and Chemistry of Solids</i> , 2016, 92, 38-44.	1.9	8
233	Photocurrent applications of Zn(1-x)Cd <sub>x</sub> O/rGO nanocomposites. <i>Ceramics International</i> , 2016, 42, 7455-7461.	2.3	30
234	Hydrothermal growth of ZnO nanoparticles under different conditions. <i>Philosophical Magazine Letters</i> , 2016, 96, 45-51.	0.5	7
235	Luminescent ZnO quantum dots as an efficient sensor for free chlorine detection in water. <i>Analyst</i> , 2016, 141, 2487-2492.	1.7	52
236	Band gap engineering and low temperature transport phenomenon in highly conducting antimony doped tin oxide thin films. <i>Ceramics International</i> , 2016, 42, 5932-5941.	2.3	25
237	Energy band modification for UV photoresponse improvement in a ZnO microrod-quantum dot structure. <i>RSC Advances</i> , 2016, 6, 687-691.	1.7	7

#	ARTICLE	IF	CITATIONS
238	UV-A shielding silicone/zinc oxide nanocomposite coating for automobile windows. <i>Polymer Composites</i> , 2016, 37, 2053-2057.	2.3	7
239	NanoEHS – defining fundamental science needs: no easy feat when the simple itself is complex. <i>Environmental Science: Nano</i> , 2016, 3, 15-27.	2.2	53
240	Facile synthesis of aluminium doped zinc oxide-polyaniline hybrids for photoluminescence and enhanced visible-light assisted photo-degradation of organic contaminants. <i>Applied Surface Science</i> , 2017, 402, 418-428.	3.1	74
241	ZnO:Mo:In nanofilms on SiO <sub>2</sub> substrate under investigation framework of the second optical transition. <i>Optical Materials</i> , 2017, 64, 502-511.	1.7	2
242	Facile control of ZnO nanostructures by varying molar concentration of zinc acetate. <i>Materials Research Bulletin</i> , 2017, 90, 138-144.	2.7	13
243	Analytical model of photon reabsorption in ZnO quantum dots with size and concentration dependent dual-color photoluminescence. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	10
244	Ultrasound assisted synthesis of morphology tunable rGO:ZnO hybrid nanostructures and their optical and UV-A light driven photocatalysis. <i>Journal of Luminescence</i> , 2017, 186, 53-61.	1.5	17
245	Williamson-Hall analysis and optical properties of small sized ZnO nanocrystals. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 92, 36-40.	1.3	32
246	Simulated electron affinity tuning in metal-insulator-metal (MIM) diodes. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	17
247	Determination of cobalt(II) using $\beta$ -cyclodextrin-capped ZnO quantum dots as a fluorescent probe. <i>Mikrochimica Acta</i> , 2017, 184, 2533-2539.	2.5	17
248	Synthesis, growth mechanism, optical properties and catalytic activity of ZnO microcrystals obtained via hydrothermal processing. <i>RSC Advances</i> , 2017, 7, 24263-24281.	1.7	55
249	Temperature and solution assisted synthesis of anisotropic ZnO nanostructures by pulsed laser ablation. <i>Applied Surface Science</i> , 2017, 414, 413-423.	3.1	17
250	Synthesis and structural characterization of ZnO and CuO nanoparticles supported mesoporous silica SBA-15. <i>Chemical Physics Letters</i> , 2017, 667, 165-171.	1.2	25
251	Structural, morphological, optical and photodetector properties of sprayed Li-doped ZnO thin films. <i>Journal of Materials Science</i> , 2017, 52, 10439-10454.	1.7	27
252	Ultrasound-assisted synthesis of poly(MMA-co-BA)/ZnO nanocomposites with enhanced physical properties. <i>Ultrasonics Sonochemistry</i> , 2017, 39, 782-791.	3.8	14
253	Abnormal gas pressure sensitivity of the visible emission in ZnO quantum dots prepared by improved sol-gel method: the role of surface polarity. <i>RSC Advances</i> , 2017, 7, 29992-29997.	1.7	5
254	Precursor dependent tailoring of morphology and bandgap of zinc oxide nanostructures. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 10885-10892.	1.1	17
255	The effect of Au nanocrystals applied in CdS colloidal quantum dots ultraviolet photodetectors. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 9782-9787.	1.1	7

#	ARTICLE	IF	CITATIONS
256	980 nm excited Er <sup>3+</sup> /Yb <sup>3+</sup> /Li <sup>+</sup> /Ba <sup>2+</sup> : NaZnPO <sub>4</sub> upconverting phosphors in optical thermometry. <i>Journal of Luminescence</i> , 2017, 187, 368-377.	1.5	95
257	Quality enhancement of AZO thin films at various thicknesses by introducing ITO buffer layer. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 9328-9337.	1.1	13
258	Tunable optical properties in atomic layer deposition grown ZnO thin films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2017, 35, .	0.9	24
259	Anti-microbial surfaces: An approach for deposition of ZnO nanoparticles on PVA-Gelatin composite film by screen printing technique. <i>Materials Science and Engineering C</i> , 2017, 73, 257-266.	3.8	41
260	High-Resolution Quantum Dot Photopatterning via Interference Lithography Assisted Microstamping. <i>Journal of Physical Chemistry C</i> , 2017, 121, 13370-13380.	1.5	14
261	Charge transport, interfacial interactions and synergistic mechanisms in BiNbO <sub>4</sub> /MWO <sub>4</sub> (M = Zn and Cd) heterostructures for hydrogen production: insights from a DFT+U study. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 28401-28413.	1.3	19
262	Room temperature ferromagnetism in Zn <sub>1-x</sub> Ni <sub>x</sub> O nanostructures synthesized by chemical precipitation method. <i>Materials Research Express</i> , 2017, 4, 105905.	0.8	2
263	Synthesis, crystal structure and vapour pressure studies of novel nickel complex as precursor for NiO coating by metalorganic chemical vapour deposition technique. <i>Materials Chemistry and Physics</i> , 2017, 201, 344-353.	2.0	13
264	All-solution-processed fluorene/dibenzothiophene-S,S-dioxide blue co-oligomer light-emitting diodes with an electron transporting PEI/ultrafine-ZnO-nanoparticle bilayer. <i>RSC Advances</i> , 2017, 7, 41855-41861.	1.7	15
265	An organometallic route to chiroptically active ZnO nanocrystals. <i>Nanoscale</i> , 2017, 9, 14782-14786.	2.8	22
267	Optical and photoelectrochemical characterization of pulsed laser deposited Bi <sub>4</sub> V <sub>2</sub> O <sub>11</sub> , BiCuVOX, and BiZnVOX. <i>Thin Solid Films</i> , 2017, 638, 251-257.	0.8	11
268	Utilization of down-shifting photoluminescent ZnO quantum dots on solar cells. <i>Materials Research Express</i> , 2017, 4, 076203.	0.8	14
269	Charge carrier related superior capacitance of the precisely size-controlled polypyrrole nanoparticles. <i>Electrochimica Acta</i> , 2017, 249, 290-300.	2.6	10
270	High-response hybrid quantum dots- 2D conductor phototransistors: recent progress and perspectives. <i>Nanophotonics</i> , 2017, 6, 1263-1280.	2.9	23
271	Conformation-mediated Förster resonance energy transfer (FRET) in blue-emitting polyvinylpyrrolidone (PVP)-passivated zinc oxide (ZnO) nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2017, 488, 348-355.	5.0	10
272	Morphological driven photocatalytic activity of ZnO nanostructures. <i>Applied Surface Science</i> , 2017, 394, 498-508.	3.1	78
273	Photoluminescence properties of Gd:ZnO nano phosphor. <i>Journal of Sol-Gel Science and Technology</i> , 2017, 81, 586-592.	1.1	23
274	Programmed Emission Transformations: Negative to Positive Patterning Using the Decay to Recovery Behavior of Quantum Dots. <i>Advanced Optical Materials</i> , 2017, 5, 1600509.	3.6	8



#	ARTICLE	IF	CITATIONS
275	Electrochemical and optical band gaps of bimetallic silver-platinum varying metal ratios nanoparticles. African Journal of Pure and Applied Chemistry, 2017, 11, 1-8.	0.1	5
276	Surface and interface properties of polar thin films on a ferroelectric substrate: ZnO on LiNbO <sub>3</sub> (0001) and (0001 $\bar{A}$ ). Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2018, 36, .	0.9	2
277	Study of quantum confinement effects in ZnO nanostructures. Materials Research Express, 2018, 5, 035032.	0.8	24
278	Sol-gel synthesis of DyCrO <sub>3</sub> and 10% Fe-doped DyCrO <sub>3</sub> nanoparticles with enhanced photocatalytic hydrogen production abilities. RSC Advances, 2018, 8, 14258-14267.	1.7	24
279	The temperature-dependency of the optical band gap of ZnO measured by electron energy-loss spectroscopy in a scanning transmission electron microscope. Journal of Applied Physics, 2018, 123, .	1.1	10
280	ZnO polymer composite based visible blind UV photo detector. Materials Research Bulletin, 2018, 101, 240-245.	2.7	31
281	Effects of size reduction on microstructural, optical, vibrational, magnetic and photocatalytic properties of ZnO nanocrystals. Materials Characterization, 2018, 137, 109-118.	1.9	23
282	Controlling the properties of ZnO thin films by varying precursor concentration. Journal of Alloys and Compounds, 2018, 741, 957-968.	2.8	26
283	Sprinkling MnFe <sub>2</sub> O <sub>4</sub> quantum dots on nitrogen-doped graphene sheets: the formation mechanism and application for high-performance supercapacitor electrodes. Journal of Materials Chemistry A, 2018, 6, 9997-10007.	5.2	59
284	A review on bio-synthesized zinc oxide nanoparticles using plant extracts as reductants and stabilizing agents. Journal of Photochemistry and Photobiology B: Biology, 2018, 183, 201-221.	1.7	233
285	Fabrication of high responsivity deep UV photo-detector based on Na doped ZnO nanocolumns. Journal Physics D: Applied Physics, 2018, 51, 185106.	1.3	25
286	Investigation of the nanoscale two-component ZnS-ZnO heterostructures by means of HR-TEM and X-ray based analysis. Journal of Solid State Chemistry, 2018, 262, 264-272.	1.4	4
287	Enhanced magnetic ordering in V, C codoped hierarchical porous ZnO nanograins. Ceramics International, 2018, 44, 1566-1574.	2.3	5
288	Influence of Fe substitution on structural and magnetic features of BiMn <sub>2</sub> O <sub>5</sub> nanostructures. Journal of Magnetism and Magnetic Materials, 2018, 452, 120-128.	1.0	12
289	Microwave-assisted photocatalysis of neurotoxin compounds using metal oxides quantum dots/nanosheets composites: Photocorrosion inhibition, reusability and antibacterial activity studies. Journal of Photochemistry and Photobiology B: Biology, 2018, 178, 108-114.	1.7	26
290	Photocatalytic Decomposition of RhB by Newly Designed and Highly Effective CF@ZnO/CdS Hierarchical Heterostructures. ACS Sustainable Chemistry and Engineering, 2018, 6, 155-164.	3.2	43
291	Study of Cadmium-Doped Zinc Oxide Nanocrystals with Composition and Size Dependent Band Gaps. Chinese Journal of Chemical Physics, 2018, 31, 197-202.	0.6	5
292	Evolution of the Ligand Shell Around Small ZnO Nanoparticles During the Exchange of Acetate by Catechol: A Small Angle Scattering Study. ChemNanoMat, 2019, 5, 116-123.	1.5	10

#	ARTICLE	IF	CITATIONS
293	Realization of linearly polarized exciton emission in wurtzite zinc oxide quantum dots. <i>Physical Review B</i> , 2018, 98, .	1.1	13
294	Synthesis and Property of Copper-Impregnated $\text{In}_{\pm}\text{MnO}_{2\text{}}$ Semiconductor Quantum Dots. <i>Langmuir</i> , 2018, 34, 12702-12712.	1.6	25
295	A detailed investigation of electronic and optical properties of single exciton in $\text{GaAs}/\text{Al}_x\text{Ga}_{1-x}\text{As}/\text{GaAs}/\text{Al}_y\text{Ga}_{1-y}\text{As}$ multi-shell quantum dot. <i>Philosophical Magazine</i> , 2018, 98, 3109-3125.	0.7	7
296	Microwave-assisted synthesis of colloidal ZnO nanocrystals and their utilization in improving polymer light emitting diodes efficiency. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2018, 232-235, 22-32.	1.7	22
297	Exploration of Induced Blue Phases and Orthogonal Smectic Batonnets in Hydrogen-Bonded Ferroelectric Nanoliquid Crystalline Complexes for Optoelectronic Devices. <i>Brazilian Journal of Physics</i> , 2018, 48, 548-559.	0.7	1
298	Microstructural and optical properties of Ca and Cr doped cobalt ferrite nanoparticles synthesized by auto combustion. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	2
299	Sol-gel synthesis of yttrium aluminum garnet (YAG): effects of the precursor nature and concentration on the crystallization. <i>Journal of Sol-Gel Science and Technology</i> , 2018, 87, 496-503.	1.1	9
300	Nanostructured Semiconductor Composites for Solar Cells. , 2018, , 353-412.		1
301	Tailoring of structural and magnetic properties by substitution of copper in cobalt chromium ferrites. <i>Ceramics International</i> , 2018, 44, 17709-17715.	2.3	11
302	Synthesis of Highly Efficient Bifunctional $\text{Ag}/\text{Co}_3\text{O}_4$ Catalyst for Oxygen Reduction and Oxygen Evolution Reactions in Alkaline Medium. <i>ACS Omega</i> , 2018, 3, 7745-7756.	1.6	53
303	Cadmium-Alloyed Zinc Oxide Nanocrystals in the Quantum Confinement Region with Intense Visible Luminescence. <i>Crystal Research and Technology</i> , 2018, 53, 1800031.	0.6	1
304	Enhancing the Structural and Spectroscopic Properties of $\text{Cr}^{3+}$ Ion-Doped $\text{Ni}/\text{Cd}/\text{Zn}$ Nanoferrite To Be Applied To Industrial Applications. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018, 31, 4063-4077.	0.8	19
305	Facile synthesis of Al-doping 1D ZnO nanoneedles by co-precipitation method for efficient removal of methylene blue. <i>Nano Structures Nano Objects</i> , 2018, 16, 250-257.	1.9	19
306	Surface Alloying in Silver-Cobalt through a Second Wave Solution Combustion Synthesis Technique. <i>Nanomaterials</i> , 2018, 8, 604.	1.9	22
307	ZnO nanoparticle-embedded silk fibroin-polyvinyl alcohol composite film: a potential dressing material for infected wounds. <i>New Journal of Chemistry</i> , 2018, 42, 14620-14629.	1.4	36
308	Dislocations and particle size governed band gap and ferromagnetic ordering in Ni doped ZnO nanoparticles synthesized via co-precipitation. <i>Ceramics International</i> , 2019, 45, 23341-23354.	2.3	41
309	High proportion ZnO/CuO nanocomposites: Synthesis, structural and optical properties, and their photocatalytic behavior. <i>Surfaces and Interfaces</i> , 2019, 17, 100367.	1.5	39
310	Determination of Photovoltaic Properties for Nanostructures. <i>Journal of Electronic Materials</i> , 2019, 48, 6919-6931.	1.0	7

#	ARTICLE	IF	CITATIONS
311	Morphology-dependent structural and optical properties of ZnO nanostructures. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	1.1	51
312	ZnO Nanoparticles, Nanorods, Hexagonal Plates and Nanosheets Produced by Polyol Route and the Effect of Surface Passivation by Acetate Molecules on Optical Properties. <i>Journal of Electronic Materials</i> , 2019, 48, 6437-6445.	1.0	4
313	Brightness-enhanced, highly stable quantum dot light-emitting devices using butylated hydroxytoluene. <i>Organic Electronics</i> , 2019, 74, 166-171.	1.4	7
314	Uncooled Short-Wave Infrared Sensor Based on PbS Quantum Dots Using ZnO NPs. <i>Nanomaterials</i> , 2019, 9, 926.	1.9	18
315	Near-band-edge emission enhancement and suppression of the deep levels in Ga-doped ZnO via surface plasmon-exciton coupling without a dielectric spacer. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 20544-20550.	1.1	6
316	Size and temperature dependence of photoluminescence of hybrid perovskite nanocrystals. <i>Journal of Chemical Physics</i> , 2019, 151, 154705.	1.2	24
317	Synthesis of Porous Octahedral ZnO/CuO Composites from Zn/Cu-Based MOF-199 and Their Applications in Visible-Light-Driven Photocatalytic Degradation of Dyes. <i>Journal of Nanomaterials</i> , 2019, 2019, 1-16.	1.5	36
318	Combustion Synthesis of ZnO/ZnS Nanocomposite Phosphors. <i>Journal of Fluorescence</i> , 2019, 29, 1227-1239.	1.3	14
319	Synthesis and characterization of ceria-coated silica nanospheres: their application in heterogeneous catalysis of organic pollutants. <i>SN Applied Sciences</i> , 2019, 1, 1.	1.5	12
320	Doping effects of ZnO quantum dots on the sensitive and selective detection of acetylene for dissolved-gas analysis applications of transformer oil. <i>Sensors and Actuators B: Chemical</i> , 2019, 299, 126992.	4.0	34
321	Solar light-driven complete mineralization of aqueous gram-positive and gram-negative bacteria with ZnO photocatalyst. <i>Solar Energy</i> , 2019, 180, 351-359.	2.9	14
322	Precise control of water content on the growth kinetics of ZnO quantum dots. <i>Journal of Crystal Growth</i> , 2019, 511, 65-72.	0.7	6
323	Europium incorporation dynamics within NiO films deposited by sol-gel spin coating: Experimental and theoretical studies. <i>Materials Research Bulletin</i> , 2019, 118, 110525.	2.7	20
324	High-Efficient NUV Emission with Excellent Thermal Stability in Cd/Pb-Free AS-ZnO QDs by ALD without Surface Passivation. <i>ACS Photonics</i> , 2019, 6, 1715-1727.	3.2	2
325	Structural, optical and photocatalysis properties of sol-gel deposited Al-doped ZnO thin films. <i>Surfaces and Interfaces</i> , 2019, 16, 120-126.	1.5	205
326	Controlling the morphology of ZnO NRs grown on GZO seed layer, by use of ethylenediamine and L-cysteine as crystal growth modifiers and complexing agents. <i>Applied Surface Science</i> , 2019, 487, 1198-1208.	3.1	4
327	Control of electrical conductivity of highly stacked zinc oxide nanocrystals by ultraviolet treatment. <i>Scientific Reports</i> , 2019, 9, 6244.	1.6	24
328	Size engineered Cu-doped $\text{Î±}$ -MnO <sub>2</sub> nanoparticles for exaggerated photocatalytic activity and energy storage application. <i>Materials Research Bulletin</i> , 2019, 115, 159-169.	2.7	58

#	ARTICLE	IF	CITATIONS
329	Zinc oxide ultraviolet photodetectors: rapid progress from conventional to self-powered photodetectors. <i>Nanoscale Advances</i> , 2019, 1, 2059-2085.	2.2	215
330	Charge transfer-induced photoluminescence in ZnO nanoparticles. <i>Nanoscale</i> , 2019, 11, 8736-8743.	2.8	48
331	Phonon confinement and size effect in Raman spectra of ZnO nanoparticles. <i>Heliyon</i> , 2019, 5, e01222.	1.4	47
332	UV-Visible Photodetector Based on I-type Heterostructure of ZnO-QDs/Monolayer MoS <sub>2</sub> . <i>Nanoscale Research Letters</i> , 2019, 14, 364.	3.1	54
333	Influence of Fe Doping on Structural, Optical, and Dielectric Properties of MgO nanoparticles. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 577, 012050.	0.3	2
334	Synthesis of zinc oxide and zinc oxide/zinc sulfide nano composite via solution combustion route. <i>Materials Research Express</i> , 2019, 6, 1250g5.	0.8	1
335	Enhancing visible light photocatalytic activity of bismuth vanadate with the loading of zinc oxide. <i>Functional Materials Letters</i> , 2019, 12, 1850110.	0.7	2
336	ZnO-coated SiO <sub>2</sub> nanocatalyst preparation and its photocatalytic activity over nitric oxides as an alternative material to pure ZnO. <i>Applied Surface Science</i> , 2019, 473, 40-48.	3.1	23
337	Elongated Nanodomains and Molecular Intermixing Induced Doping in Organic Photovoltaic Active Layers with Electric Field Treatment. <i>ACS Applied Polymer Materials</i> , 2020, 2, 335-341.	2.0	3
338	A scalable screen-printed high performance ZnO-UV and Gas Sensor: Effect of solution combustion. <i>Materials Science in Semiconductor Processing</i> , 2020, 107, 104828.	1.9	22
339	Effect of metal atoms on the electronic properties of metal oxide nanoclusters for use in drug delivery applications: a density functional theory study. <i>Molecular Physics</i> , 2020, 118, e1692150.	0.8	25
340	Synthesis of luminescent core/shell In <sub>2</sub> Zn <sub>3</sub> P <sub>2</sub> /ZnS quantum dots. <i>Nanoscale</i> , 2020, 12, 20952-20964.	2.8	2
341	Atomic layer deposition based nano-island growth. , 2020, , 67-106.		0
342	ZnO quantum dot-modified rGO with enhanced electrochemical performance for lithium-sulfur batteries. <i>RSC Advances</i> , 2020, 10, 32966-32975.	1.7	13
343	Antibacterial activity of ZnO nanoparticle coatings formed by electrophoretic deposition. <i>Journal of Physics: Conference Series</i> , 2020, 1541, 012007.	0.3	3
344	Zinc Oxide Quantum Dots as Photoanode for Dye-Sensitized Solar Cell. , 2020, , .		0
345	Studies of optical properties of ZnO:MgO thin films fabricated by sputtering from home-made stable oversize targets. <i>Optik</i> , 2020, 216, 164934.	1.4	19
346	g-C <sub>3</sub> N <sub>4</sub> nano-fragments as highly efficient hydrogen evolution photocatalysts: Boosting effect of nitrogen vacancy. <i>Applied Catalysis A: General</i> , 2020, 599, 117618.	2.2	86

#	ARTICLE	IF	CITATIONS
347	Interface confinement on the exciton recombination in thin CdS/ZnO shell/core nanowires. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	1.1	0
348	Morphology of ZnO triggered versatile catalytic reactions towards CO <sub>2</sub> fixation and acylation of amines at optimized reaction conditions. Molecular Catalysis, 2020, 493, 111070.	1.0	9
349	Optical properties of ultrathin ZnO films fabricated by atomic layer deposition. Applied Surface Science, 2020, 527, 146818.	3.1	14
350	Polymer Nanocomposites Containing Semiconductors as Advanced Materials for EMI Shielding. ACS Omega, 2020, 5, 4705-4718.	1.6	54
351	Evaluation cytotoxicity effects of biosynthesized zinc oxide nanoparticles using aqueous <i>Linum Usitatissimum</i> extract and investigation of their photocatalytic activity. Inorganic Chemistry Communication, 2020, 119, 108066.	1.8	40
352	A Comparative Study on the Photocatalytic Activity of <i>Eucalyptus</i> Leaf Assisted Green Synthesized ZnO and Chemically Synthesized ZnO towards the Degradation of Malachite Green Dye. Integrated Ferroelectrics, 2020, 205, 38-51.	0.3	18
353	Effect of Zn doping on structural, magnetic and optical properties of cobalt ferrite nanoparticles synthesized via. Co-precipitation method. Physica B: Condensed Matter, 2020, 583, 412051.	1.3	129
354	Investigations on structural and optical properties of Al-modified ZnO nanoparticles. Journal of Materials Science: Materials in Electronics, 2020, 31, 7715-7723.	1.1	6
355	Green and low-cost synthesis of zinc oxide nanoparticles and their application in transistor-based carbon monoxide sensing. RSC Advances, 2020, 10, 13532-13542.	1.7	89
357	Well-Defined Nanostructures for Electrochemical Energy Conversion and Storage. Advanced Energy Materials, 2021, 11, 2001537.	10.2	102
358	Tuning the electronic band structure and optoelectrical characteristics of ALD-grown Zn(O,S) buffer layers for SnS solar cells. Optik, 2021, 228, 165921.	1.4	9
359	Surface and interface effects: properties of nanostructured ZnO. , 2021, , 253-287.		1
360	N-Doped zinc oxide as an effective fluorescence sensor for urea detection. New Journal of Chemistry, 2021, 45, 6080-6090.	1.4	10
361	Nanostructured metal nitrides for photocatalysts. Journal of Materials Chemistry C, 2021, 9, 5323-5342.	2.7	14
362	Optical properties of ZnO. , 2021, , 189-208.		0
363	Quantum dots: Synthesis and characterizations. , 2021, , 1-35.		2
364	Introduction to Nanomaterials and Nanotechnology. , 2021, , 3-23.		13
365	Introduction to the Optical Applications of Nanomaterials. Progress in Optical Science and Photonics, 2021, , 1-9.	0.3	1

#	ARTICLE	IF	CITATIONS
366	Zinc oxide nanoparticles as electron transporting interlayer in organic solar cells. <i>Journal of Materials Chemistry C</i> , 2021, 9, 14093-14114.	2.7	33
367	Controlled Growth of Silver Oxide Nanoparticles on the Surface of Citrate Anion Intercalated Layered Double Hydroxide. <i>Nanomaterials</i> , 2021, 11, 455.	1.9	15
368	Synthesis and characterization of non-molar lithium-magnesium nanoferrite material for its applications. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	1.1	5
369	PHYTOPRODUCTION OF IRON NANOPARTICLES FOR METHYL ORANGE REMOVAL AND ITS OPTIMIZATION STUDIES. <i>Plant Archives</i> , 2021, 21, .	0.1	1
370	Metal Oxide Quantum Dots Embedded in Silica Matrices Made by Flame Spray Pyrolysis. <i>ACS Omega</i> , 2021, 6, 11411-11417.	1.6	7
371	Room Temperature Syntheses of ZnO and Their Structures. <i>Symmetry</i> , 2021, 13, 733.	1.1	11
372	Transformation in band energetics of CuO nanoparticles as a function of solubility and its impact on cellular response. <i>NanoImpact</i> , 2021, 22, 100324.	2.4	2
373	Single-step ZnO nanorod bunches formation on p-type Si-conductive substrates by electrophoretic deposition. <i>Surfaces and Interfaces</i> , 2021, 23, 100930.	1.5	2
374	Towards the Development of Digital Manufacturing Ecosystems for Sustainable Performance: Learning from the Past Two Decades of Research. <i>Energies</i> , 2021, 14, 2945.	1.6	20
375	Low-temperature flow-synthesis-assisted urethane-grafted zinc oxide-based dental composites: physical, mechanical, and antibacterial responses. <i>Journal of Materials Science: Materials in Medicine</i> , 2021, 32, 87.	1.7	5
376	Effect of doping on the opto-electronic properties of hollow spheroid ZnO quantum dots: A theoretical study. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 270, 115220.	1.7	2
378	Improved optoelectronic performance of sol-gel derived ZnO nanostructured thin films. <i>Inorganic Chemistry Communication</i> , 2021, 132, 108812.	1.8	12
379	Properties of silicon-ZnO hybrid nanoparticles. , 2022, , 65-88.		0
380	Quantum dots in cell imaging and their safety issues. <i>Journal of Materials Chemistry B</i> , 2021, 9, 5765-5779.	2.9	57
381	Photoluminescence Processes in ZnO Thin Films and Quantum Structures. <i>Springer Series in Materials Science</i> , 2014, , 49-89.	0.4	1
382	Enhanced structural and optical properties of ZnO nanopowder with tailored visible luminescence as a function of sodium hydroxide to zinc sulfate mass ratio. <i>Advanced Powder Technology</i> , 2018, 29, 325-332.	2.0	9
383	Simulation of wavelength selection using ZnO nanowires array. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	7
384	Designing Inorganic Light-Protective Skin Nanotechnology Products. <i>Journal of Biomedical Nanotechnology</i> , 2010, 6, 432-451.	0.5	48

#	ARTICLE	IF	CITATIONS
385	Enhanced ultraviolet electroluminescence from ZnO nanoparticles via decoration of partially oxidized Al layer. <i>Optics Express</i> , 2020, 28, 2799.	1.7	9
386	Nanoparticles and Bacteria. <i>Journal of Nanomedicine Research</i> , 2015, 2, .	1.8	3
387	Modifications in the Structural and Optical Properties of ZnO Nanophosphor on Doping with Tb. <i>Nanoscience and Nanotechnology - Asia</i> , 2019, 9, 353-361.	0.3	3
388	Controllability of Threshold Voltage of ZnO Nanowire Field Effect Transistors by Manipulating Nanowire Diameter by Varying the Catalyst Thickness. <i>Transactions on Electrical and Electronic Materials</i> , 2013, 14, 156-159.	1.0	2
389	ZnO Nanoparticles with Hexagonal Cone, Hexagonal Plate, and Rod Shapes: Synthesis and Characterization. <i>Bulletin of the Korean Chemical Society</i> , 2008, 29, 1960-1964.	1.0	21
390	Structural and Luminescence Properties of Highly Crystalline ZnO Nanoparticles Prepared by Sol-Gel Method. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 04DG13.	0.8	9
391	High Sensitivity Shortwave Infrared Photodetector Based on PbS QDs Using P3HT. <i>Nanomaterials</i> , 2021, 11, 2683.	1.9	7
392	All-solid-state Z-scheme plasmonic Si@Au nanoparticles on CuBi <sub>2</sub> O <sub>4</sub> /BiVO <sub>4</sub> for efficient photocatalytic activity. <i>Advanced Powder Technology</i> , 2021, 32, 4330-4342.	2.0	5
393	Photocatalytic Activity of ZnO Nanocrystals Synthesized by Sol-Gel Method. <i>Material Sciences</i> , 2011, 01, 60-64.	0.0	0
394	7.3.8 Quantum dots and nano crystals based on ZnO and its alloys. , 2013, , 339-347.		0
395	Substitutional effect of copper on the cation distribution in cobalt chromium ferrites and their structural and magnetic properties. <i>Materials Science-Poland</i> , 2018, 36, 255-263.	0.4	9
396	Synthesis and Structural Analysis of Ternary Ca-Al-Fe Layered Double Hydroxides with Different Iron Contents. <i>Crystals</i> , 2021, 11, 1296.	1.0	5
397	Size controlling and tailoring the properties of Gd Zn <sub>1-x</sub> O nanoparticles. <i>Ceramics International</i> , 2022, 48, 4324-4331.	2.3	3
398	Influence of Sn <sup>4+</sup> ion on band gap tailoring, optical, structural and dielectric behaviors of ZnO nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 267, 120487.	2.0	15
399	Optical Properties of Quantum Well Structures. <i>Materials Horizons</i> , 2020, , 129-154.	0.3	0
400	Deep Eutectic Solvent-Mediated Synthesis of Bullet-Shaped Cerium Zinc Oxide and Sheet-Like Cerium Zinc Hydroxide Nitrate: Colorimetric and Fluorometric Detection of Pyrophosphate Ions. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 15147-15156.	3.2	16
401	Fluorescent water-stable quantum dots possessing benzimidazole for the recognition of bisulfate in edible materials, soap, and medicine. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022, 424, 113652.	2.0	1
402	Size quantization effect in water-dispersible LEEH capped ZnSe nanocrystals. <i>Materials Today: Proceedings</i> , 2021, , .	0.9	0

#	ARTICLE	IF	CITATIONS
403	A compendium and meta-analysis of flatband potentials for TiO <sub>2</sub> , ZnO, and SnO <sub>2</sub> semiconductors in aqueous media. <i>Chemical Physics Reviews</i> , 2022, 3, .	2.6	9
404	Excitons in ZnO Quantum Dots: The Role of Dielectric Confinement. <i>Journal of Physical Chemistry C</i> , 2022, 126, 2833-2838.	1.5	9
405	Cadmium Substitution Effect on Microstructure and Magnetic Properties of Mg-Cu-Zn Ferrites. <i>Frontiers in Materials</i> , 2022, 8, .	1.2	14
406	Comparative investigation on the Di-/ferro-electric and optical properties of Ce/Nd dual doped ZnO nanostructures prepared in different reaction mechanisms. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022, 139, 115110.	1.3	8
407	Determining Optical Band Gaps of MOFs. , 2022, 4, 457-463.		24
408	Introduction to Nanoparticulate Drug Delivery Systems. , 2022, , 3-23.		2
409	One pot synthesis of Ag-Au/ZnO nanocomposites: a multi-junction component for sunlight photocatalysis. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2022, 44, 758-770.	1.2	1
410	Structural, Magnetic, and Dielectric Spectroscopy Investigations of Multiferroic Composite Based on Perovskiteâ€“Spinel Approach. <i>ECS Journal of Solid State Science and Technology</i> , 2022, 11, 033008.	0.9	4
411	An environmentally friendly and highly transparent ZnO/cellulose nanocomposite membrane for UV sensing and shielding. <i>Cellulose</i> , 2022, 29, 4439-4453.	2.4	10
412	Highly stable and sensitive photon detection performance of ZnO thin film for ultraviolet light. <i>Physica B: Condensed Matter</i> , 2022, 639, 413905.	1.3	22
413	Excessive Increase in the Optical Band Gap of Nearâ€“Infrared Semiconductor Lead (II) Sulfide via the Incorporation of Amino Acids. <i>Advanced Optical Materials</i> , 0, , 2200203.	3.6	3
415	Organic cross-linker-reinforced small-sized CsPbBr <sub>3</sub> @silica nanoparticles for fluorescence detection of copper and sulfide ions. <i>Journal of Materials Science</i> , 0, , .	1.7	1
416	Solâ€“gel synthesis of quantum dots. , 2023, , 35-52.		0
417	Interfacial Grown Zinc Oxide Origami Structure for Broadband Visible Light Driven Photocatalysts. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	1
418	One-step synthesis of multi-colored ZnO nanoparticles for white light-emitting diodes. <i>Journal of Luminescence</i> , 2022, 252, 119425.	1.5	3
419	A review on 2D-ZnO nanostructure based biosensors: from materials to devices. <i>Materials Advances</i> , 2023, 4, 320-354.	2.6	18
421	Synthesis, characterization, and 5-fluorouracil release behavior of superparamagnetic Î³-Fe <sub>2</sub> O <sub>3</sub> /ZnO hetero-nanostructures for biomedical applications. <i>Ceramics International</i> , 2023, 49, 12934-12949.	2.3	2
422	ZnOâ€“SiO <sub>2</sub> composite coating with anti-reflection and photoluminescence properties for improving the solar cell efficiency. <i>Composites Part B: Engineering</i> , 2023, 251, 110486.	5.9	5



#	ARTICLE	IF	CITATIONS
423	Influence of particle size on the electrocatalytic activity and optical properties of NiO nanoparticles. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2023, 289, 116266.	1.7	3
424	Quantum dots: catalysis applications. , 2023, , 439-462.		0
425	Semiconducting Quantum Dots for Energy Conversion and Storage. Advanced Functional Materials, 2023, 33, .	7.8	22
426	Quantum dots in diagnostic imaging. , 2023, , 141-167.		0
427	Annealing in ionic liquid for synthesis of ZnO nanostructures and its effect on linear-nonlinear optical properties. Optical Materials, 2023, 139, 113758.	1.7	0
428	Nanotechnology Enabled Polymer Based Nanocomposite Hybrids for Advanced Optical Applications : A Review. International Journal of Nanoscience, 0, , .	0.4	0
429	Biomarkers and Bioimaging and Their Applications. , 2023, , 615-632.		0
430	Structural and optical characterisation of silanised Dy-doped-Gd <sub>2</sub> O <sub>3</sub> NPs. Physical Chemistry Chemical Physics, 0, , .	1.3	0
431	Quantum Dots for Imaging and Its Safety. , 2023, , 459-475.		0
435	Band-gap engineering of ceramic coatings. , 2023, , 39-88.		0
448	Polymerâ€‘nano-ZnO composites for food packaging. , 2024, , 263-293.		0