

Rui Chen

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245
papers

6,853
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h-index

71
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262
ext. papers

7,997
ext. citations

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6.06
L-index

#	Paper	IF	Citations
245	Hierarchical assembly of ZnO nanostructures on SnO(2) backbone nanowires: low-temperature hydrothermal preparation and optical properties. <i>ACS Nano</i> , 2009 , 3, 3069-76	16.7	242
244	Room temperature excitonic whispering gallery mode lasing from high-quality hexagonal ZnO microdisks. <i>Advanced Materials</i> , 2011 , 23, 2199-204	24	208
243	Cross Relaxation Induced Pure Red Upconversion in Activator- and Sensitizer-Rich Lanthanide Nanoparticles. <i>Chemistry of Materials</i> , 2014 , 26, 5183-5186	9.6	158
242	Biocompatible D-A Semiconducting Polymer Nanoparticle with Light-Harvesting Unit for Highly Effective Photoacoustic Imaging Guided Photothermal Therapy. <i>Advanced Functional Materials</i> , 2017 , 27, 1605094	15.6	152
241	Stimulated emission and lasing from CdSe/CdS/ZnS core-multi-shell quantum dots by simultaneous three-photon absorption. <i>Advanced Materials</i> , 2014 , 26, 2954-61	24	141
240	Graphitic carbon nitride nanosheet@metal-organic framework core-shell nanoparticles for photo-chemo combination therapy. <i>Nanoscale</i> , 2015 , 7, 17299-305	7.7	140
239	Realizing a SnO ₂ -based ultraviolet light-emitting diode via breaking the dipole-forbidden rule. <i>NPG Asia Materials</i> , 2012 , 4, e30-e30	10.3	119
238	Photoluminescence characteristics of high quality ZnO nanowires and its enhancement by polymer covering. <i>Applied Physics Letters</i> , 2010 , 96, 023111	3.4	116
237	A Turn-on Fluorescence sensor for Pb ²⁺ detection based on graphene quantum dots and gold nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2018 , 255, 1577-1581	8.5	111
236	Highly Stable Near-Infrared Fluorescent Organic Nanoparticles with a Large Stokes Shift for Noninvasive Long-Term Cellular Imaging. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 26266-74	9.5	107
235	Blue liquid lasers from solution of CdZnS/ZnS ternary alloy quantum dots with quasi-continuous pumping. <i>Advanced Materials</i> , 2015 , 27, 169-75	24	104
234	Optical and excitonic properties of crystalline ZnS nanowires: toward efficient ultraviolet emission at room temperature. <i>Nano Letters</i> , 2010 , 10, 4956-61	11.5	104
233	Tuning whispering gallery mode lasing from self-assembled polymer droplets. <i>Scientific Reports</i> , 2013 , 3, 1362	4.9	102
232	Fluorescent pH sensor based on Ag@SiO ₂ core-shell nanoparticle. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 5856-60	9.5	96
231	Conjugated Polymer-Assisted Grain Boundary Passivation for Efficient Inverted Planar Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2019 , 29, 1808855	15.6	95
230	Au nanorod decoration on NaYF ₄ /Yb/Tm nanoparticles for enhanced emission and wavelength-dependent biomolecular sensing. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 3508-13	9.5	95
229	Ultrahigh-Sensitive Broadband Photodetectors Based on Dielectric Shielded MoTe ₂ /Graphene/SnS p-g-n Junctions. <i>Advanced Materials</i> , 2019 , 31, e1805656	24	95

228	Whispering gallery mode microlasers and refractive index sensing based on single polymer fiber. <i>Laser and Photonics Reviews</i> , 2013 , 7, 133-139	8.3	94
227	UV light emitting transparent conducting tin-doped indium oxide (ITO) nanowires. <i>Nanotechnology</i> , 2011 , 22, 195706	3.4	93
226	Vertically aligned cadmium chalcogenide nanowire arrays on muscovite mica: a demonstration of epitaxial growth strategy. <i>Nano Letters</i> , 2011 , 11, 3051-7	11.5	85
225	Optical properties of quasi-type-II structure in GaAs/GaAsSb/GaAs coaxial single quantum-well nanowires. <i>Applied Physics Letters</i> , 2018 , 113, 233104	3.4	85
224	Oxygen rich p-type ZnO thin films using wet chemical route with enhanced carrier concentration by temperature-dependent tuning of acceptor defects. <i>Journal of Applied Physics</i> , 2011 , 110, 093522	2.5	78
223	Stable and Low-Threshold Optical Gain in CdSe/CdS Quantum Dots: An All-Colloidal Frequency Up-Converted Laser. <i>Advanced Materials</i> , 2015 , 27, 2741-6	24	77
222	Exciton localization and optical properties improvement in nanocrystal-embedded ZnO core-shell nanowires. <i>Nano Letters</i> , 2013 , 13, 734-9	11.5	76
221	High-salt-tolerance matrix for facile detection of glucose in rat brain microdialysates by MALDI mass spectrometry. <i>Analytical Chemistry</i> , 2012 , 84, 465-9	7.8	76
220	High-Performance Blue Perovskite Light-Emitting Diodes Enabled by Efficient Energy Transfer between Coupled Quasi-2D Perovskite Layers. <i>Advanced Materials</i> , 2021 , 33, e2005570	24	74
219	Exciton-Related Photoluminescence and Lasing in CdS Nanobelts. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 12826-12830	3.8	73
218	Self-assembled flexible microlasers. <i>Advanced Materials</i> , 2012 , 24, OP60-4	24	67
217	Synthesis and optical properties of II-VI 1D nanostructures. <i>Nanoscale</i> , 2012 , 4, 1422-35	7.7	67
216	Multicolor hybrid upconversion nanoparticles and their improved performance as luminescence temperature sensors due to energy transfer. <i>Small</i> , 2013 , 9, 1052-7	11	66
215	Bending-Induced Bidirectional Tuning of Whispering Gallery Mode Lasing from Flexible Polymer Fibers. <i>ACS Photonics</i> , 2014 , 1, 11-16	6.3	64
214	Excitonic properties and near-infrared coherent random lasing in vertically aligned CdSe nanowires. <i>Advanced Materials</i> , 2011 , 23, 1404-8	24	64
213	Characteristics of ultraviolet photoluminescence from high quality tin oxide nanowires. <i>Applied Physics Letters</i> , 2009 , 95, 061908	3.4	63
212	Stable, Strongly Emitting Cesium Lead Bromide Perovskite Nanorods with High Optical Gain Enabled by an Intermediate Monomer Reservoir Synthetic Strategy. <i>Nano Letters</i> , 2019 , 19, 6315-6322	11.5	62
211	3-Dimensional photonic crystal surface enhanced upconversion emission for improved near-infrared photoresponse. <i>Nanoscale</i> , 2014 , 6, 817-24	7.7	62

210	Coupled Polymer Microfiber Lasers for Single Mode Operation and Enhanced Refractive Index Sensing. <i>Advanced Optical Materials</i> , 2014 , 2, 220-225	8.1	62
209	Fine Structure of Ultraviolet Photoluminescence of Tin Oxide Nanowires. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 3407-3410	3.8	62
208	All-Inorganic Quantum-Dot LEDs Based on a Phase-Stabilized CsPbI_3 Perovskite. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 16164-16170	16.4	59
207	Electrostatic energy harvesting device with dual resonant structure for wideband random vibration sources at low frequency. <i>Review of Scientific Instruments</i> , 2016 , 87, 125001	1.7	58
206	Quenching of surface traps in Mn doped ZnO thin films for enhanced optical transparency. <i>Applied Surface Science</i> , 2011 , 258, 890-897	6.7	57
205	Single mode lasing from hybrid hemispherical microresonators. <i>Scientific Reports</i> , 2012 , 2, 244	4.9	56
204	Mechanism studies on the superior optical limiting observed in graphene oxide covalently functionalized with upconversion $\text{NaYF}_4\text{Yb}^{3+}/\text{Er}^{3+}$ nanoparticles. <i>Small</i> , 2012 , 8, 2163-8	11	56
203	Efficient Energy Transfer and Enhanced Infrared Emission in Er-Doped ZnO-SiO ₂ Composites. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 13458-13462	3.8	55
202	Sb-induced phase control of InAsSb nanowires grown by molecular beam epitaxy. <i>Nano Letters</i> , 2015 , 15, 1109-16	11.5	52
201	Organic nanostructures of thermally activated delayed fluorescent emitters with enhanced intersystem crossing as novel metal-free photosensitizers. <i>Chemical Communications</i> , 2016 , 52, 11744-11747	5.8	51
200	Spectroscopic studies of chiral perovskite nanocrystals. <i>Applied Physics Letters</i> , 2017 , 111, 151102	3.4	50
199	Simultaneous Low-Order Phase Suppression and Defect Passivation for Efficient and Stable Blue Light-Emitting Diodes. <i>ACS Energy Letters</i> , 2020 , 5, 2569-2579	20.1	49
198	Alteration of Mn exchange coupling by oxygen interstitials in ZnO:Mn thin films. <i>Applied Surface Science</i> , 2012 , 258, 6373-6378	6.7	48
197	Strong two-photon absorption of Mn-doped CsPbCl_3 perovskite nanocrystals. <i>Applied Physics Letters</i> , 2017 , 111, 211105	3.4	46
196	Manipulation of Surface Plasmon Resonance in Sub-Stoichiometry Molybdenum Oxide Nanodots through Charge Carrier Control Technique. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 5208-5214	3.8	45
195	Electronic energy levels and carrier dynamics in InAs/InGaAs dots-in-a-well structure investigated by optical spectroscopy. <i>Journal of Applied Physics</i> , 2010 , 107, 013513	2.5	45
194	Influence of Exciton Localization on the Emission and Ultraviolet Photoresponse of ZnO/ZnS Core-Shell Nanowires. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 10331-6	9.5	44
193	Optically pumped ultraviolet lasing from nitride nanopillars at room temperature. <i>Applied Physics Letters</i> , 2010 , 96, 241101	3.4	43

192	Localized suppression of longitudinal-optical-phonon-exciton coupling in bent ZnO nanowires. <i>Nanotechnology</i> , 2010 , 21, 445706	3.4	42
191	Surface Eu-Treated ZnO Nanowires with Efficient Red Emission. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 18081-18084	3.8	41
190	A SnO ₂ Nanoparticle/Nanobelt and Si Heterojunction Light-Emitting Diode. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 18390-18395	3.8	41
189	Multicolor lasing prints. <i>Applied Physics Letters</i> , 2015 , 107, 221103	3.4	40
188	Ultraviolet light emission and excitonic fine structures in ultrathin single-crystalline indium oxide nanowires. <i>Applied Physics Letters</i> , 2010 , 96, 031902	3.4	40
187	Ultraviolet Electroluminescence from ZnS@ZnO Core-Shell Nanowires/p-GaN Introduced by Exciton Localization. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 1661-6	9.5	39
186	Uniaxial tensile strain and exciton-phonon coupling in bent ZnO nanowires. <i>Applied Physics Letters</i> , 2011 , 98, 241916	3.4	39
185	N-(1-naphthyl) ethylenediamine dinitrate: a new matrix for negative ion MALDI-TOF MS analysis of small molecules. <i>Journal of the American Society for Mass Spectrometry</i> , 2012 , 23, 1454-60	3.5	38
184	Enhanced indirect ferromagnetic p-d exchange coupling of Mn in oxygen rich ZnO:Mn nanoparticles synthesized by wet chemical method. <i>Journal of Applied Physics</i> , 2012 , 111, 033503	2.5	36
183	Enhanced emission of NaYF ₄ :Yb,Er/Tm nanoparticles by selective growth of Au and Ag nanoshells. <i>RSC Advances</i> , 2013 , 3, 7718	3.7	35
182	Tunable Chiroptical Properties from the Plasmonic Band to Metal-Ligand Charge Transfer Band of Cysteine-Capped Molybdenum Oxide Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 10236-10240	16.4	35
181	Giant Nonlinear Optical Response in 2D Perovskite Heterostructures. <i>Advanced Optical Materials</i> , 2019 , 7, 1900398	8.1	34
180	Investigation of Localized States in GaAsSb Epilayers Grown by Molecular Beam Epitaxy. <i>Scientific Reports</i> , 2016 , 6, 29112	4.9	34
179	Pulsed laser deposition of high-quality ZnCdO epilayers and ZnCdO/ZnO single quantum well on sapphire substrate. <i>Applied Physics Letters</i> , 2010 , 97, 061911	3.4	34
178	Application of self-assembled hemispherical microlasers as gas sensors. <i>Applied Physics Letters</i> , 2013 , 102, 031107	3.4	33
177	Study of the cation distributions in Eu doped Sr ₂ Y ₈ (SiO ₄) ₆ O ₂ by X-ray diffraction and photoluminescent spectra. <i>Journal of Solid State Chemistry</i> , 2010 , 183, 3093-3099	3.3	33
176	All-inorganic copper(i)-based ternary metal halides: promising materials toward optoelectronics. <i>Nanoscale</i> , 2020 , 12, 15560-15576	7.7	33
175	Tuning an Electrode Work Function Using Organometallic Complexes in Inverted Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2021 , 143, 7759-7768	16.4	32

174	Optical biosensor based on liquid crystal droplets for detection of cholic acid. <i>Optics Communications</i> , 2016 , 381, 286-291	2	31
173	Ultrafast optical nonlinearity of blue-emitting perovskite nanocrystals. <i>Photonics Research</i> , 2018 , 6, 554-6	6	30
172	Efficient Energy Transfer under Two-Photon Excitation in a 3D, Supramolecular, Zn(II)-Coordinated, Self-Assembled Organic Network. <i>Advanced Optical Materials</i> , 2014 , 2, 40-47	8.1	28
171	Interlayer Transition in a vdW Heterostructure toward Ultrahigh Detectivity Shortwave Infrared Photodetectors. <i>Advanced Functional Materials</i> , 2020 , 30, 1905687	15.6	28
170	Two-photon-pumped stimulated emission from ZnO single crystal. <i>Applied Physics Letters</i> , 2011 , 99, 081902	9.2	27
169	Stabilizing n-type hetero-junctions for NiOx based inverted planar perovskite solar cells with an efficiency of 21.6%. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 1865-1874	13	27
168	Linear and nonlinear optical characteristics of all-inorganic perovskite CsPbBr quantum dots modified by hydrophobic zeolites. <i>Nanoscale</i> , 2018 , 10, 22766-22774	7.7	27
167	Comparative study of field-dependent carrier dynamics and emission kinetics of InGaN/GaN light-emitting diodes grown on (112̄0̄) semipolar versus (0001) polar planes. <i>Applied Physics Letters</i> , 2014 , 104, 143506	3.4	26
166	High-Quality Dual-Plasmonic Au@Cu ₂ Se Nanocrescents with Precise Cu ₂ Se Domain Size Control and Tunable Optical Properties in the Second Near-Infrared Biowindow. <i>Chemistry of Materials</i> , 2019 , 31, 9875-9886	9.6	26
165	Optical properties and applications of two-dimensional CdSe nanoplatelets. <i>Information Materials</i> , 2020 , 2, 905-927	23.1	26
164	Comparison Studies of the Linear and Nonlinear Optical Properties of CsPbBr ₃ Nanocrystals: The Influence of Dimensionality and Composition. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 9538-9543	3.8	25
163	Synergetically enhanced near-infrared photoresponse of reduced graphene oxide by upconversion and gold plasmon. <i>Small</i> , 2014 , 10, 3637-43	11	25
162	Concise synthesis and two-photon-excited deep-blue emission of 1,8-diazapyrenes. <i>Chemistry - an Asian Journal</i> , 2012 , 7, 2090-5	4.5	25
161	Reconfigurable Liquid Whispering Gallery Mode Microlasers. <i>Scientific Reports</i> , 2016 , 6, 27200	4.9	25
160	Green Mass Production of Pure Nanodrugs via an Ice-Template-Assisted Strategy. <i>Nano Letters</i> , 2019 , 19, 658-665	11.5	25
159	Observation of polarized gain from aligned colloidal nanorods. <i>Nanoscale</i> , 2015 , 7, 6481-6	7.7	24
158	AC-driven, color- and brightness-tunable organic light-emitting diodes constructed from an electron only device. <i>Organic Electronics</i> , 2013 , 14, 3195-3200	3.5	24
157	Nitrogen doping in pulsed laser deposited ZnO thin films using dense plasma focus. <i>Applied Surface Science</i> , 2011 , 257, 1979-1985	6.7	24

156	Highly sensitive and selective liquid crystal optical sensor for detection of ammonia. <i>Optics Express</i> , 2017 , 25, 13549-13556	3.3	23
155	Efficient three-color white organic light-emitting diodes with a spaced multilayer emitting structure. <i>Applied Physics Letters</i> , 2015 , 106, 023302	3.4	23
154	Tuning the influence of metal nanoparticles on ZnO photoluminescence by atomic-layer-deposited dielectric spacer. <i>Nanophotonics</i> , 2013 , 2, 153-160	6.3	23
153	2, 4-Dichloro-6-nitrophenol, a photonitration product of 2, 4-dichlorophenol, caused anti-androgenic potency in Chinese rare minnows (<i>Gobiocypris rarus</i>). <i>Environmental Pollution</i> , 2016 , 216, 591-598	9.3	23
152	Exciting Dilute Magnetic Semiconductor: Copper-Doped ZnO. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013 , 26, 187-195	1.5	22
151	Enhanced Optical Nonlinearity in Noncovalently Functionalized Amphiphilic Graphene Composites. <i>ChemPlusChem</i> , 2012 , 77, 688-693	2.8	22
150	Investigation of Structured Green-Band Emission and Electron-Phonon Interactions in Vertically Aligned ZnO Nanowires. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 17889-17893	3.8	22
149	Developmental toxicity and thyroid hormone-disrupting effects of 2,4-dichloro-6-nitrophenol in Chinese rare minnow (<i>Gobiocypris rarus</i>). <i>Aquatic Toxicology</i> , 2017 , 185, 40-47	5.1	21
148	Dual Fenton Catalytic Nanoreactor for Integrative Type-I and Type-II Photodynamic Therapy Against Hypoxic Cancer Cells. <i>ACS Applied Bio Materials</i> , 2019 , 2, 3854-3860	4.1	21
147	Chiral CdSe nanoplatelets as an ultrasensitive probe for lead ion sensing. <i>Nanoscale</i> , 2019 , 11, 9327-9334	4.7	21
146	Enhanced ferromagnetic response in ZnO:Mn thin films by tailoring composition and defect concentration. <i>Journal of Magnetism and Magnetic Materials</i> , 2013 , 344, 171-175	2.8	21
145	Proton Conducting Polyoxometalate/Polypyrrole Films and Their Humidity Sensing Performance. <i>ACS Applied Nano Materials</i> , 2018 , 1, 564-571	5.6	20
144	Multiphoton Harvesting in an Angular Carbazole-Containing Zn(II)-Coordinated Random Copolymer Mediated by Twisted Intramolecular Charge Transfer State. <i>Macromolecules</i> , 2014 , 47, 1316-1324	5.5	20
143	Incorporating Copper Nanoclusters into Metal-Organic Frameworks: Confinement-Assisted Emission Enhancement and Application for Trinitrotoluene Detection. <i>Particle and Particle Systems Characterization</i> , 2017 , 34, 1700029	3.1	19
142	Effective Surface Ligand-Concentration Tuning of Deep-Blue Luminescent FAPbBr Nanoplatelets with Enhanced Stability and Charge Transport. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 31863-31874	9.5	18
141	Fabrication and spectroscopic characterization of Ce ³⁺ doped Sr ₂ Y ₈ (SiO ₄) ₆ O ₂ translucent ceramics. <i>Optical Materials</i> , 2012 , 34, 1155-1160	3.3	18
140	Ultrafast and Robust UV Luminescence from Cu-Doped ZnO Nanowires Mediated by Plasmonic Hot Electrons. <i>Advanced Optical Materials</i> , 2016 , 4, 960-966	8.1	18
139	Optical Characteristics of ZnS Passivated CdSe/CdS Quantum Dots for High Photostability and Lasing. <i>Scientific Reports</i> , 2018 , 8, 17323	4.9	18

138	Preparation of Aluminum Nanomesh Thin Films from an Anodic Aluminum Oxide Template as Transparent Conductive Electrodes. <i>Scientific Reports</i> , 2016 , 6, 20114	4.9	17
137	Nanoscale semiconductor-insulator-metal core/shell heterostructures: facile synthesis and light emission. <i>Nanoscale</i> , 2011 , 3, 3170-7	7.7	17
136	Direct and Indirect Recombination and Thermal Kinetics of Excitons in Colloidal All-Inorganic Lead Halide Perovskite Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 19844-19850	3.8	16
135	Improving the solubility of Mn and suppressing the oxygen vacancy density in Zn(0.98)Mn(0.02)O nanocrystals via octylamine treatment. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 4470-5	9.5	16
134	Wide-range coupling between surface plasmon polariton and cylindrical dielectric waveguide mode. <i>Optics Express</i> , 2011 , 19, 13598-603	3.3	16
133	Effect of Lateral Size and Surface Passivation on the Near-Band-Edge Excitonic Emission from Quasi-Two-Dimensional CdSe Nanoplatelets. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 41821-41827	8.57	15
132	Chiral Transition Metal Oxides: Synthesis, Chiral Origins, and Perspectives. <i>Advanced Materials</i> , 2020 , 32, e1905585	24	15
131	NaYF ₄ :Yb,Er-MoS ₂ : from synthesis and surface ligand stripping to negative infrared photoresponse. <i>Chemical Communications</i> , 2015 , 51, 9030-3	5.8	14
130	Dopant-Free Hole Transporting Molecules for Highly Efficient Perovskite Photovoltaic with Strong Interfacial Interaction. <i>Solar Rrl</i> , 2019 , 3, 1900319	7.1	14
129	Surface-plasmon enhancement of band gap emission from ZnCdO thin films by gold particles. <i>Applied Physics Letters</i> , 2010 , 97, 061104	3.4	14
128	Single chain diffusion of poly(ethylene oxide) in its monolayers before and after crystallization. <i>Langmuir</i> , 2010 , 26, 5951-6	4	14
127	Photoluminescence properties of midinfrared dilute nitride InAsN epilayers with/without Sb flux during molecular beam epitaxial growth. <i>Applied Physics Letters</i> , 2009 , 95, 261905	3.4	14
126	Thermally activated delayed fluorescence organic dots for two-photon fluorescence lifetime imaging. <i>Applied Physics Letters</i> , 2018 , 112, 211102	3.4	14
125	Novel half-magnetization plateau and nematiclike transition in the S=1 skew chain Ni ₂ V ₂ O ₇ . <i>Physical Review B</i> , 2018 , 97,	3.3	13
124	Organic light-emitting diodes with a spacer enhanced exciplex emission. <i>Applied Physics Letters</i> , 2014 , 104, 153302	3.4	13
123	Temperature dependence of weak localization effects of excitons in ZnCdO/ZnO single quantum well. <i>Journal of Applied Physics</i> , 2011 , 109, 113521	2.5	13
122	Ferromagnetism in ZnCoO thin films deposited by PLD. <i>Applied Physics A: Materials Science and Processing</i> , 2010 , 101, 717-722	2.6	13
121	Magnetic field induced ferroelectricity and half magnetization plateau in polycrystalline R ₂ V ₂ O ₇ (R=Ni,Co). <i>Physical Review B</i> , 2018 , 98,	3.3	13

120	Photodetectors: Ultrahigh-Sensitive Broadband Photodetectors Based on Dielectric Shielded MoTe ₂ /Graphene/SnS ₂ p-n Junctions (Adv. Mater. 6/2019). <i>Advanced Materials</i> , 2019 , 31, 1970040	24	12
119	Multiphoton absorption in low-dimensional cesium copper iodide single crystals. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 16923-16929	7.1	12
118	Boosting Efficiency and Stability of Planar Inverted (FAPbI ₃) _x (MAPbBr ₃) _{1-x} Solar Cells via FAPbI ₃ and MAPbBr ₃ Crystal Powders. <i>Solar Rrl</i> , 2020 , 4, 2000091	7.1	12
117	Surface State Passivation and Optical Properties Investigation of GaSb via Nitrogen Plasma Treatment. <i>ACS Omega</i> , 2018 , 3, 4412-4417	3.9	12
116	Exciton energy recycling from ZnO defect levels: towards electrically driven hybrid quantum-dot white light-emitting-diodes. <i>Nanoscale</i> , 2016 , 8, 5835-41	7.7	12
115	Tunable Chiroptical Properties from the Plasmonic Band to Metal-Ligand Charge Transfer Band of Cysteine-Capped Molybdenum Oxide Nanoparticles. <i>Angewandte Chemie</i> , 2018 , 130, 10393-10397	3.6	12
114	Giant two- to five-photon absorption in CsPbBr ₃ two-dimensional nanoplatelets. <i>Optics Letters</i> , 2019 , 44, 3873-3876	3	12
113	Zn doped MAPbBr single crystal with advanced structural and optical stability achieved by strain compensation. <i>Nanoscale</i> , 2020 , 12, 3692-3700	7.7	12
112	Temperature dependent optical characteristics of all-inorganic CsPbBr ₃ nanocrystals film. <i>Materials Today Physics</i> , 2020 , 15, 100259	8	12
111	Lasing: Room Temperature Excitonic Whispering Gallery Mode Lasing from High-Quality Hexagonal ZnO Microdisks (Adv. Mater. 19/2011). <i>Advanced Materials</i> , 2011 , 23, 2128-2128	24	11
110	Investigation of localized and delocalized excitons in ZnO/ZnS core-shell heterostructured nanowires. <i>Nanophotonics</i> , 2016 , 6, 1093-1100	6.3	11
109	Global microRNA and isomiR expression associated with liver metabolism is induced by organophosphorus flame retardant exposure in male Chinese rare minnow (<i>Gobiocypris rarus</i>). <i>Science of the Total Environment</i> , 2019 , 649, 829-838	10.2	11
108	Self-Structural Healing of Encapsulated Perovskite Microcrystals for Improved Optical and Thermal Stability. <i>Advanced Materials</i> , 2021 , 33, e2100466	24	11
107	In Situ Growth of All-Inorganic Perovskite Single Crystal Arrays on Electron Transport Layer. <i>Advanced Science</i> , 2020 , 7, 1902767	13.6	10
106	Localized-State-Dependent Electroluminescence from ZnO/ZnS Core-Shell Nanowires-GaN Heterojunction. <i>ACS Applied Nano Materials</i> , 2018 , 1, 1641-1647	5.6	10
105	Optical properties improvement of GaSb epilayers through defects compensation via doping. <i>Journal of Luminescence</i> , 2018 , 197, 266-269	3.8	10
104	Water-soluble chiral CdSe/CdS dot/rod nanocrystals for two-photon fluorescence lifetime imaging and photodynamic therapy. <i>Nanoscale</i> , 2019 , 11, 15245-15252	7.7	10
103	Recent progress on two-dimensional layered materials for surface enhanced Raman spectroscopy and their applications. <i>Materials Today Physics</i> , 2021 , 18, 100378	8	10

102	Influence of mixed organic cations on the structural and optical properties of lead tri-iodide perovskites. <i>Nanoscale</i> , 2019 , 11, 5215-5221	7.7	9
101	Surface modification of all-inorganic halide perovskite nanorods by a microscale hydrophobic zeolite for stable and sensitive laser humidity sensing. <i>Nanoscale</i> , 2020 , 12, 13360-13367	7.7	9
100	Optical properties of ultrathin ZnO films fabricated by atomic layer deposition. <i>Applied Surface Science</i> , 2020 , 527, 146818	6.7	9
99	Effect of rapid thermal annealing on the optical properties of GaAsSb alloys. <i>Optical Materials Express</i> , 2017 , 7, 1971	2.6	9
98	Surface plasmon induced exciton redistribution in ZnCdO/ZnO coaxial multiquantum-well nanowires. <i>Applied Physics Letters</i> , 2010 , 97, 081107	3.4	9
97	Oxalate Pushes Efficiency of CsPb Sn IBr Based All-Inorganic Perovskite Solar Cells to over 14.. <i>Advanced Science</i> , 2022 , e2106054	13.6	9
96	Boosting the Efficiency of NiO-Based Perovskite Light-Emitting Diodes by Interface Engineering. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 53528-53536	9.5	9
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