

Bingsuo zou

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337
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357
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14,438
ext. citations

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L-index

#	Paper	IF	Citations
337	Brightly Luminescent and Color-Tunable Colloidal CH ₃ NH ₃ PbX ₃ (X = Br, I, Cl) Quantum Dots: Potential Alternatives for Display Technology. <i>ACS Nano</i> , 2015 , 9, 4533-42	16.7	1602
336	In Situ Fabrication of Halide Perovskite Nanocrystal-Embedded Polymer Composite Films with Enhanced Photoluminescence for Display Backlights. <i>Advanced Materials</i> , 2016 , 28, 9163-9168	24	490
335	Highly Emissive and Color-Tunable CuInS ₂ -Based Colloidal Semiconductor Nanocrystals: Off-Stoichiometry Effects and Improved Electroluminescence Performance. <i>Advanced Functional Materials</i> , 2012 , 22, 2081-2088	15.6	390
334	Chemical Control of Superparamagnetic Properties of Magnesium and Cobalt Spinel Ferrite Nanoparticles through Atomic Level Magnetic Couplings. <i>Journal of the American Chemical Society</i> , 2000 , 122, 6263-6267	16.4	377
333	Emulsion Synthesis of Size-Tunable CH ₃ NH ₃ PbBr ₃ Quantum Dots: An Alternative Route toward Efficient Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 28128-33	9.5	361
332	Tuning the Luminescence Properties of Colloidal I-III-VI Semiconductor Nanocrystals for Optoelectronics and Biotechnology Applications. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 3167-75	6.4	361
331	Reverse Micelle Synthesis and Characterization of Superparamagnetic MnFe ₂ O ₄ Spinel Ferrite Nanocrystallites. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 1141-1145	3.4	313
330	A new route to zinc-blende CdSe nanocrystals: mechanism and synthesis. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 16671-5	3.4	262
329	Fast and considerable adsorption of methylene blue dye onto graphene oxide. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2011 , 87, 86-90	2.7	223
328	Color-tunable photoluminescence of alloyed CdS(x)Se(1-x) nanobelts. <i>Journal of the American Chemical Society</i> , 2005 , 127, 15692-3	16.4	206
327	Centimeter-Sized Cs ₄ PbBr ₆ Crystals with Embedded CsPbBr ₃ Nanocrystals Showing Superior Photoluminescence: Nonstoichiometry Induced Transformation and Light-Emitting Applications. <i>Advanced Functional Materials</i> , 2018 , 28, 1706567	15.6	205
326	Optical waveguide through CdS nanoribbons. <i>Small</i> , 2005 , 1, 980-3	11	184
325	Efficient Light-Emitting Diodes Based on in Situ Fabricated FAPbBr Nanocrystals: The Enhancing Role of the Ligand-Assisted Reprecipitation Process. <i>ACS Nano</i> , 2018 , 12, 8808-8816	16.7	183
324	Continuous alloy-composition spatial grading and superbroad wavelength-tunable nanowire lasers on a single chip. <i>Nano Letters</i> , 2009 , 9, 784-8	11.5	180
323	Controllable ZnO Architectures by Ethanolamine-Assisted Hydrothermal Reaction for Enhanced Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 2769-2775	3.8	164
322	Stimulated emissions in aligned CdS nanowires at room temperature. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 24268-72	3.4	143
321	Photochromism and Size Effect of WO ₃ and WO ₃ ·0.25H ₂ O Aqueous Sol. <i>Chemistry of Materials</i> , 2003 , 15, 4039-4045	9.6	142

3 ²⁰	Sol-gel synthesis of free-standing ferroelectric lead zirconate titanate nanoparticles. <i>Journal of the American Chemical Society</i> , 2001 , 123, 4344-5	16.4	140
3 ¹⁹	Synthesis of Highly Emissive Mn-Doped ZnSe Nanocrystals without Pyrophoric Reagents. <i>Chemistry of Materials</i> , 2010 , 22, 2107-2113	9.6	138
3 ¹⁸	Integration of CuInS ₂ -based nanocrystals for high efficiency and high colour rendering white light-emitting diodes. <i>Nanoscale</i> , 2013 , 5, 3514-9	7.7	132
3 ¹⁷	Hydroxyl-Terminated CuInS ₂ Based Quantum Dots: Toward Efficient and Bright Light Emitting Diodes. <i>Chemistry of Materials</i> , 2016 , 28, 1085-1091	9.6	126
3 ¹⁶	Controllable Transformation from Rhombohedral Cu _{1.8} S Nanocrystals to Hexagonal CuS Clusters: Phase- and Composition-Dependent Plasmonic Properties. <i>Chemistry of Materials</i> , 2013 , 25, 4828-4834	9.6	125
3 ¹⁵	ZnO flowers made up of thin nanosheets and their optical properties. <i>Journal of Crystal Growth</i> , 2005 , 282, 165-172	1.6	119
3 ¹⁴	Template Synthesis of CuInS ₂ Nanocrystals from In ₂ S ₃ Nanoplates and Their Application as Counter Electrodes in Dye-Sensitized Solar Cells. <i>Chemistry of Materials</i> , 2015 , 27, 5949-5956	9.6	117
3 ¹³	Highly Efficient Blue Emission from Self-Trapped Excitons in Stable Sb-Doped CsNaInCl Double Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 2053-2061	6.4	117
3 ¹²	Lasing mechanism of ZnO nanowires/nanobelts at room temperature. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 12865-73	3.4	112
3 ¹¹	Applications of mesenchymal stem cells labeled with Tat peptide conjugated quantum dots to cell tracking in mouse body. <i>Bioconjugate Chemistry</i> , 2008 , 19, 421-7	6.3	97
3 ¹⁰	Highly Emissive, Color-Tunable, Phosphine-Free Mn:ZnSe/ZnS Core/Shell and Mn:ZnSeS Shell-Alloyed Doped Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 3005-3010	3.8	90
3 ⁰⁹	Facile synthesis and enhanced photocatalytic activity of hierarchical porous ZnO microspheres. <i>Materials Letters</i> , 2012 , 66, 72-75	3.3	88
3 ⁰⁸	A simple solution route to single-crystalline Sb ₂ O ₃ nanowires with rectangular cross sections. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 18225-30	3.4	85
3 ⁰⁷	Colloidal Synthesis of CH ₃ NH ₃ PbBr Nanoplatelets with Polarized Emission through Self-Organization. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 1780-1783	16.4	79
3 ⁰⁶	Formation of nanoparticulate iron(III) oxide-stearate multilayer through Langmuir-Blodgett method. <i>The Journal of Physical Chemistry</i> , 1992 , 96, 3412-3415		79
3 ⁰⁵	Small GSH-Capped CuInS ₂ Quantum Dots: MPA-Assisted Aqueous Phase Transfer and Bioimaging Applications. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 17623-9	9.5	75
3 ⁰⁴	Ultraviolet lasing and time-resolved photoluminescence of well-aligned ZnO nanorod arrays. <i>Applied Physics Letters</i> , 2005 , 86, 223106	3.4	73
3 ⁰³	Aggregation-Induced Emission Features of Organometal Halide Perovskites and Their Fluorescence Probe Applications. <i>Advanced Optical Materials</i> , 2015 , 3, 112-119	8.1	64

302	Highly Efficient Self-Trapped Exciton Emission of a (MA)CuBr Single Crystal. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 4703-4710	6.4	64
301	Bound Exciton and Optical Properties of SnO ₂ One-Dimensional Nanostructures. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 1719-1726	3.8	64
300	Color-changeable optical transport through Se-doped CdS 1D nanostructures. <i>Nano Letters</i> , 2007 , 7, 2970-5	11.5	63
299	Fabrication and photoluminescence of high-quality ternary CdSSe nanowires and nanoribbons. <i>Nanotechnology</i> , 2006 , 17, 1083-6	3.4	62
298	Synthesis of Tower-like ZnO Structures and Visible Photoluminescence Origins of Varied-Shaped ZnO Nanostructures. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 7655-7660	3.8	59
297	Homo- and Heterovalent Doping-Mediated Self-Trapped Exciton Emission and Energy Transfer in Mn-Doped CsNaAgBiCl Double Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 340-348	6.4	56
296	Si-CdSSe core/shell nanowires with continuously tunable light emission. <i>Nano Letters</i> , 2008 , 8, 3413-7	11.5	55
295	Phase-transition induced giant negative electrocaloric effect in a lead-free relaxor ferroelectric thin film. <i>Energy and Environmental Science</i> , 2019 , 12, 1708-1717	35.4	53
294	Red emissive CuInS ₂ -based nanocrystals: a potential phosphor for warm white light-emitting diodes. <i>Optics Express</i> , 2013 , 21, 10105-10	3.3	53
293	Highly luminescent and stable lead-free cesium copper halide perovskite powders for UV-pumped phosphor-converted light-emitting diodes. <i>Photonics Research</i> , 2020 , 8, 768	6	53
292	Single-Crystalline Cu ₄ Bi ₄ S ₉ Nanoribbons: Facile Synthesis, Growth Mechanism, and Surface Photovoltaic Properties. <i>Chemistry of Materials</i> , 2011 , 23, 1299-1305	9.6	52
291	Surface states dominative Au Schottky contact on vertical aligned ZnO nanorod arrays synthesized by low-temperature growth. <i>New Journal of Physics</i> , 2007 , 9, 214-214	2.9	52
290	Template-Free Synthesis of High-Yield Fe-Doped Cesium Lead Halide Perovskite Ultralong Microwires with Enhanced Two-Photon Absorption. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 4878-4885	6.4	51
289	Ligand-Controlled Formation and Photoluminescence Properties of CH ₃ NH ₃ PbBr ₃ Nanocubes and Nanowires. <i>ChemNanoMat</i> , 2017 , 3, 303-310	3.5	50
288	Ultralow-Threshold and Color-Tunable Continuous-Wave Lasing at Room-Temperature from In Situ Fabricated Perovskite Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 3248-3253	6.4	50
287	Pyridine-Modulated Mn Ion Emission Properties of C ₁₀ H ₁₂ N ₂ MnBr ₄ and C ₅ H ₆ NMnBr ₃ Single Crystals. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 3130-3137	3.8	49
286	Effect of concentration on the luminescence of Eu ³⁺ ions in nanocrystalline La ₂ O ₃ . <i>Journal of Luminescence</i> , 2007 , 126, 459-463	3.8	49
285	The optical properties of ZnO sheets electrodeposited on ITO glass. <i>Materials Letters</i> , 2007 , 61, 2000-2003	3.3	49

284	Strong Polarized Photoluminescence from Stretched Perovskite-Nanocrystal-Embedded Polymer Composite Films. <i>Advanced Optical Materials</i> , 2017 , 5, 1700594	8.1	48
283	Near Infrared Emission Band and Origin in Ni(II)-Doped CdS Nanoribbons by CVD Technique. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 17777-17785	3.8	47
282	High-quality alloyed CdS _x Se _{1-x} whiskers as waveguides with tunable stimulated emission. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 22313-7	3.4	47
281	Charge Carrier Conduction Mechanism in PbS Quantum Dot Solar Cells: Electrochemical Impedance Spectroscopy Study. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 18526-33	9.5	47
280	Tunable emission properties by ferromagnetic coupling Mn(II) aggregates in Mn-doped CdS microbelts/nanowires. <i>Nanotechnology</i> , 2014 , 25, 385201	3.4	45
279	Controllable Fabrication of High-Quality 6-Fold Symmetry-Branched CdS Nanostructures with ZnS Nanowires as Templates. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 9253-9260	3.8	45
278	Near-Unity Red Mn Photoluminescence Quantum Yield of Doped CsPbCl Nanocrystals with Cd Incorporation. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 2142-2149	6.4	44
277	Thermal stability and lasing of CdS nanowires coated by amorphous silica. <i>Small</i> , 2005 , 1, 1058-62	11	44
276	Mesoporous Aluminum Hydroxide Synthesized by a Single-Source Precursor-Decomposition Approach as a High-Quantum-Yield Blue Phosphor for UV-Pumped White-Light-Emitting Diodes. <i>Advanced Materials</i> , 2017 , 29, 1604284	24	43
275	Size effect on the electron-phonon coupling in CuO nanocrystals. <i>Nanotechnology</i> , 2006 , 17, 1099-103	3.4	42
274	Boosting triplet self-trapped exciton emission in Te(IV)-doped Cs ₂ SnCl ₆ perovskite variants. <i>Nano Research</i> , 2021 , 14, 1551-1558	10	42
273	Ray-trace simulation of CuInS(Se) quantum dot based luminescent solar concentrators. <i>Optics Express</i> , 2015 , 23, A858-67	3.3	41
272	Single-step synthesis of monolithic comb-like CdS nanostructures with tunable waveguide properties. <i>Nano Letters</i> , 2013 , 13, 2997-3001	11.5	41
271	Thermal Annealing Effects of Plasmonic Cu _{1.8} S Nanocrystal Films and Their Photovoltaic Properties. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 26964-26972	3.8	40
270	Transition from Photoconductivity to Photovoltaic Effect in P3HT/CuInSe ₂ Composites. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 7280-7286	3.8	40
269	Aqueous synthesis of type-II CdTe/CdSe core-shell quantum dots for fluorescent probe labeling tumor cells. <i>Nanotechnology</i> , 2009 , 20, 095102	3.4	40
268	Anomalous optical properties and electron-phonon coupling enhancement in Fe ₂ O ₃ nanoparticles coated with a layer of stearates. <i>Journal of Physics and Chemistry of Solids</i> , 1997 , 58, 1315-1320	3.9	38
267	Efficient Energy Transfer in Te-Doped CsZrCl Vacancy-Ordered Perovskites and Ultrahigh Moisture Stability via A-Site Rb-Alloying Strategy. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 1829-1837	6.4	38

- 266 Oleylamine-Assisted Phase-Selective Synthesis of Cu₂S Nanocrystals and the Mechanism of Phase Control. *Particle and Particle Systems Characterization*, **2015**, 32, 907-914 3.1 37
- 265 Field-effect transistor-based solution-processed colloidal quantum dot photodetector with broad bandwidth into near-infrared region. *Nanotechnology*, **2012**, 23, 255203 3.4 37
- 264 Bosonic Lasing from Collective Exciton Magnetic Polarons in Diluted Magnetic Nanowires and Nanobelts. *ACS Photonics*, **2016**, 3, 1809-1817 6.3 35
- 263 Solution-Processed PbSe Colloidal Quantum Dot-Based Near-Infrared Photodetector. *IEEE Photonics Technology Letters*, **2015**, 27, 612-615 2.2 32
- 262 Formation and optical properties of ZnO:ZnFe₂O₄ superlattice microwires. *Nano Research*, **2010**, 3, 326-338 3.2 32
- 261 Fabrication and Red-Color Lasing of Individual Highly Uniform Single-Crystal CdSe Nanobelts. *Journal of Physical Chemistry C*, **2007**, 111, 14253-14256 3.8 32
- 260 Synthesis of PbS microcrystals via a hydrothermal process. *Materials Letters*, **2006**, 60, 1242-1246 3.3 32
- 259 Transient biphotonic holographic grating in photoisomerizable azo materials. *Physical Review B*, **1998**, 57, 3874-3880 3.3 32
- 258 Broadband perovskite quantum dot spectrometer beyond human visual resolution. *Light: Science and Applications*, **2020**, 9, 73 16.7 31
- 257 Hierarchical SnO₂ Nanostructures: Linear Assembly of Nanorods on the Nanowire Backbones. *Journal of Physical Chemistry C*, **2010**, 114, 1844-1848 3.8 31
- 256 Synthesis, characterization and optical properties of star-like ZnO nanostructures. *Materials Letters*, **2010**, 64, 898-900 3.3 31
- 255 Structure and Photoluminescence of Pure and Indium-Doped ZnTe Microstructures. *Journal of Physical Chemistry C*, **2011**, 115, 1415-1421 3.8 29
- 254 The effects of different interfacial environments on the optical nonlinearity of nanometer-sized CdO organosol. *Applied Physics Letters*, **1997**, 71, 2097-2099 3.4 29
- 253 Growth of Oriented Zinc Oxide Nanowire Array into Novel Hierarchical Structures in Aqueous Solutions. *Journal of Physical Chemistry C*, **2008**, 112, 17546-17553 3.8 29
- 252 Preparation of Fe₃O₄-Embedded Graphene Oxide for Removal of Methylene Blue. *Arabian Journal for Science and Engineering*, **2014**, 39, 6679-6685 28
- 251 Preparation and periodic emission of superlattice CdS/CdS:SnS₂ microwires. *Journal of the American Chemical Society*, **2010**, 132, 12174-5 16.4 28
- 250 Stimulated emission from trapped excitons in SnO₂ nanowires. *Physica E: Low-Dimensional Systems and Nanostructures*, **2007**, 39, 223-229 3 28
- 249 Electrical properties and phase transition of CoFe₂O₄ nanocrystals under pressure. *Journal of Applied Physics*, **2003**, 93, 9983-9987 2.5 28

248	One dimensional ternary CuBiS based semiconductor nanowires: synthesis, optical and electrical properties. <i>Journal of Materials Chemistry</i> , 2012 , 22, 17813		27
247	Synthesis of Mn-doped ZnS architectures in ternary solution and their optical properties. <i>Applied Surface Science</i> , 2011 , 257, 10898-10902	6.7	27
246	Photoluminescence and Raman analysis of novel ZnO tetrapod and multipod nanostructures. <i>Applied Surface Science</i> , 2010 , 256, 6814-6818	6.7	27
245	Time-resolved spectroscopic behavior of Fe ₂ O ₃ and ZnFe ₂ O ₄ nanocrystals. <i>Journal of Chemical Physics</i> , 2004 , 120, 3406-13	3.9	27
244	Pentacene-Based Photodetector in Visible Region With Vertical Field-Effect Transistor Configuration. <i>IEEE Photonics Technology Letters</i> , 2015 , 27, 233-236	2.2	26
243	Structure and stimulated emission of ZnSe nanoribbons grown by thermal evaporation. <i>Nanotechnology</i> , 2007 , 18, 305705	3.4	26
242	Highly Stable Red Quantum Dot Light-Emitting Diodes with Long Operation Lifetimes. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 3111-3115	6.4	25
241	Large tunable luminescence by Mn(II) aggregates in Mn-doped ZnS nanobelts. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 8749-8757	7.1	25
240	High performance solution-processed infrared photodetector based on PbSe quantum dots doped with low carrier mobility polymer poly(N-vinylcarbazole). <i>RSC Advances</i> , 2016 , 6, 44514-44521	3.7	25
239	Tunable Emission Properties of Manganese Chloride Small Single Crystals by Pyridine Incorporation. <i>ACS Omega</i> , 2019 , 4, 8039-8045	3.9	24
238	Phonon-assisted stimulated emission in Mn-doped ZnO nanowires. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 136206	1.8	24
237	Simultaneous Triplet Exciton-Phonon and Exciton-Photon Photoluminescence in the Individual Weak Confinement CsPbBr ₃ Micro/Nanowires. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 25349-25358	3.8	23
236	High performance solution-processed infrared photodiode based on ternary PbS _x Se _{1-x} colloidal quantum dots. <i>RSC Advances</i> , 2016 , 6, 87730-87737	3.7	23
235	Laser emission of low-threshold excitation from ZnO nanowires. <i>Europhysics Letters</i> , 2004 , 68, 740-745	1.6	23
234	Time-resolved Fourier-transform infrared and visible luminescence spectroscopy of photoexcited porous silicon. <i>Physical Review B</i> , 1999 , 59, 5026-5031	3.3	23
233	Spin-exciton interaction and related micro-photoluminescence spectra of ZnSe:Mn DMS nanoribbon. <i>Nanotechnology</i> , 2017 , 28, 105202	3.4	22
232	General Synthesis and White Light Emission of Diluted Magnetic Semiconductor Nanowires Using Single-Source Precursors. <i>Chemistry of Materials</i> , 2013 , 25, 3260-3266	9.6	22
231	Biphotonic self-diffraction in azo-doped polymer film. <i>Applied Physics Letters</i> , 1997 , 70, 1224-1226	3.4	22

230	Evolution of the structure and properties of mechanochemically synthesized pyrrolidine incorporated manganese bromide powders. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 6488-6495	7.1	21
229	Water-soluble, highly emissive, color-tunable, and stable Cu-doped ZnSeS/ZnS core/shell nanocrystals. <i>CrystEngComm</i> , 2014 , 16, 3414	3.3	21
228	Enhanced performance of solution-processed broadband photodiodes by epitaxially blending MAPbBr quantum dots and ternary PbSSe quantum dots as the active layer. <i>Nanotechnology</i> , 2017 , 28, 505501	3.4	21
227	Transparent WO ₃ /Ag/WO ₃ electrode for flexible organic solar cells. <i>Materials Letters</i> , 2017 , 188, 107-110	3.9	21
226	Luminescence and local photonic confinement of single ZnSe:Mn nanostructure and the shape dependent lasing behavior. <i>Nanotechnology</i> , 2013 , 24, 055201	3.4	21
225	Water-Stable Zero-Dimensional (CH)NCuCl Single Crystal with Highly Efficient Broadband Green Emission. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 6639-6647	6.4	21
224	ZnO nanorods array as light absorption antenna for high-gain UV photodetectors. <i>Journal of Alloys and Compounds</i> , 2020 , 812, 152158	5.7	21
223	Magnetic exciton relaxation and spin-spin interaction by the time-delayed photoluminescence spectra of ZnO:Mn nanowires. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 10353-66	9.5	20
222	PVA Hydrogel Embedded with Quantum Dots: A Potential Scalable and Healable Display Medium for Holographic 3D Applications. <i>Advanced Optical Materials</i> , 2014 , 2, 338-342	8.1	20
221	Synthesis of poly(acrylic acid) coated-Fe ₃ O ₄ superparamagnetic nano-composites and their fast removal of dye from aqueous solution. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 4627-33	1.3	20
220	Highly Efficient Cool-White Photoluminescence of (Gua)CuI Single Crystals: Formation and Optical Properties. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 13443-13451	9.5	20
219	Self-Trapped Exciton Emission in a Zero-Dimensional (TMA)SbClIDMF Single Crystal and Molecular Dynamics Simulation of Structural Stability. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 7091-7099	6.4	20
218	Organic-inorganic hybrid manganese bromine single crystal with dual-band photoluminescence from polaronic and bipolaronic excitons. <i>Nano Energy</i> , 2021 , 87, 106166	17.1	20
217	Interlayer of PMMA Doped with Au Nanoparticles for High-Performance Tandem Photodetectors: A Solution to Suppress Dark Current and Maintain High Photocurrent. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 26153-26160	9.5	19
216	Solution-Processed, Self-Powered Broadband CH ₃ NH ₃ PbI ₃ Photodetectors Driven by Asymmetric Electrodes. <i>Advanced Optical Materials</i> , 2020 , 8, 2000215	8.1	19
215	Surface crystallization effects on the optical and electric properties of CdS nanorods. <i>Nanotechnology</i> , 2005 , 16, 2402-6	3.4	19
214	Lead-free MnII-based red-emitting hybrid halide (CH ₆ N ₃) ₂ MnCl ₄ toward high performance warm WLEDs. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 4895-4902	7.1	19
213	Influence of post-synthesis annealing on PbS quantum dot solar cells. <i>Organic Electronics</i> , 2017 , 42, 309-315	3.15	18

212	Dynamics of single photon transport in a one-dimensional waveguide two-point coupled with a Jaynes-Cummings system. <i>Scientific Reports</i> , 2016 , 6, 33867	4.9	18
211	Solution-processed P3HT-based photodetector with field-effect transistor configuration. <i>Applied Physics A: Materials Science and Processing</i> , 2014 , 116, 1511-1516	2.6	18
210	Towards optimization of functionalized single-walled carbon nanotubes adhering with poly(3-hexylthiophene) for highly efficient polymer solar cells. <i>Diamond and Related Materials</i> , 2014 , 41, 79-83	3.5	18
209	In situ aggregation of ZnSe nanoparticles into supraparticles: shape control and doping effects. <i>Langmuir</i> , 2013 , 29, 1970-6	4	18
208	One-step synthesis of low-dimensional CdSe nanostructures and optical waveguide of CdSe nanowires. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 135301	3	18
207	Incorporating fluorescent quantum dots into water-soluble polymer. <i>Journal of Luminescence</i> , 2008 , 128, 277-281	3.8	18
206	Exciton interactions in CdS nanocrystal aggregates in reverse micelle. <i>Journal of Chemical Physics</i> , 2005 , 123, 24702	3.9	18
205	Image storage based on biphotonic holography in azo/polymer system. <i>Applied Physics Letters</i> , 1998 , 72, 418-420	3.4	18
204	Advances and Challenges in Two-Dimensional Organic-Inorganic Hybrid Perovskites Toward High-Performance Light-Emitting Diodes. <i>Nano-Micro Letters</i> , 2021 , 13, 163	19.5	17
203	Visible whispering-gallery modes in ZnO microwires with varied cross sections. <i>Journal of Applied Physics</i> , 2011 , 110, 033101	2.5	16
202	Low-temperature-poling awakened high dielectric breakdown strength and outstanding improvement of discharge energy density of (Pb,La)(Zr,Sn,Ti)O ₃ relaxor thin film. <i>Nano Energy</i> , 2020 , 77, 105132	17.1	16
201	Surface Engineering of All-Inorganic Perovskite Quantum Dots with Quasi Core/Shell Technique for High-Performance Photodetectors. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000360	4.6	16
200	Ultrasensitive all-solution-processed field-effect transistor based perovskite photodetectors with sol-gel SiO ₂ as the dielectric layer. <i>Journal of Alloys and Compounds</i> , 2017 , 717, 150-155	5.7	15
199	In-Plane Anisotropic Raman Response and Electrical Conductivity with Robust Electron-Photon and Electron-Phonon Interactions of Air Stable MoO Nanosheets. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 2182-2190	6.4	15
198	Solution-phase, template-free synthesis of PbI ₂ and MAPbI ₃ nano/microtubes for high-sensitivity photodetectors. <i>Nanoscale</i> , 2019 , 11, 5188-5196	7.7	15
197	Mg-Doped ZnO Nanoparticle Films as the Interlayer between the ZnO Electron Transport Layer and InP Quantum Dot Layer for Light-Emitting Diodes. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 8758-8765	3.8	15
196	Ultralong Homogeneously Alloyed CdSe _x S _{1-x} Nanowires with Highly Polarized and Color-Tunable Emissions. <i>Advanced Optical Materials</i> , 2014 , 2, 885-891	8.1	15
195	Synthesis and photoluminescence of wurtzite CdS and ZnS architectural structures via a facile solvothermal approach in mixed solvents. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 9959-9963	5.7	15

194	The large-scale synthesis of one-dimensional TiO ₂ nanostructures using palladium as catalyst at low temperature. <i>Nanotechnology</i> , 2009 , 20, 055605	3.4	15
193	Sn-catalyst growth and optical waveguide of ultralong CdS nanowires. <i>Chemical Physics Letters</i> , 2010 , 497, 85-88	2.5	15
192	Observation of delayed fluorescence in CdS _x Se _{1-x} nanobelts by femtosecond time-resolved fluorescence spectroscopy. <i>Applied Physics Letters</i> , 2008 , 92, 032102	3.4	15
191	Stability enhancement of PbSe quantum dots via post-synthetic ammonium chloride treatment for a high-performance infrared photodetector. <i>Nanotechnology</i> , 2016 , 27, 065201	3.4	15
190	Transport tuning of photonic topological edge states by optical cavities. <i>Physical Review A</i> , 2019 , 99,	2.6	14
189	Bound magnetic polaron in Zn-rich cobalt-doped ZnSe nanowires. <i>Nanotechnology</i> , 2018 , 29, 055707	3.4	14
188	High-performance solution-processed colloidal quantum dots-based tandem broadband photodetectors with dielectric interlayer. <i>Nanotechnology</i> , 2019 , 30, 465203	3.4	14
187	Synthesis and photoluminescence of pure and Mn doped CdS nanowires. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2013 , 47, 162-166	3	14
186	Synthesis and growth mechanism of triangular Mn doped CdS nanowires. <i>Materials Letters</i> , 2011 , 65, 2522-2525	3.3	14
185	A simple and cheap way to produce porous ZnO ribbons and their photovoltaic response. <i>Materials Letters</i> , 2007 , 61, 4459-4462	3.3	14
184	Porous Single-Wall Carbon Nanotube Templates Decorated with All-inorganic Perovskite Nanocrystals for Ultraflexible Photodetectors. <i>ACS Applied Nano Materials</i> , 2020 , 3, 459-467	5.6	14
183	Controlled Structural Transformation in Sb-Doped Indium Halides A ₃ InCl ₆ and A ₂ InCl ₅ ·2H ₂ O Yields Reversible Green-to-Yellow Emission Switch. <i>Advanced Optical Materials</i> , 2021 , 9, 2002267	8.1	14
182	Influence of the active layer nanomorphology on device performance for ternary PbS(x)Se(1-x) quantum dots based solution-processed infrared photodetector. <i>Nanotechnology</i> , 2016 , 27, 165202	3.4	14
181	A solvothermal route to synthesize kesterite Cu ₂ ZnSnS ₄ nanocrystals for solution-processed solar cells. <i>Journal of Alloys and Compounds</i> , 2016 , 663, 617-623	5.7	13
180	Direct Observation of Surface Polarons in Capped CuInS Quantum Dots by Ultrafast Pump-Probe Spectroscopies. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 5297-5301	6.4	13
179	Ultra-sensitive solution-processed broadband photodetectors based on vertical field-effect transistor. <i>Nanotechnology</i> , 2019 , 31, 105203	3.4	13
178	Electric field modulation of the band gap, dielectric constant and polarizability in SnS atomically thin layers. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016 , 380, 2227-2232	2.3	13
177	Large-area photodetector with high-sensitivity and broadband spectral response based on composition-graded CdS _x Se nanowire-chip. <i>Journal of Alloys and Compounds</i> , 2015 , 649, 793-800	5.7	12

176	Performance Enhancement of FET-Based Photodetector by Blending P3HT With PMMA. <i>IEEE Photonics Technology Letters</i> , 2015 , 27, 1535-1538	2.2	12
175	Probing Exciton Move and Localization in Solution-Grown Colloidal CdSexS1-x Alloyed Nanowires by Temperature- and Time-Resolved Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 22709-22717	3.8	12
174	Impact of vacancy defects on optoelectronic and magnetic properties of Mn-doped ZnSe. <i>Computational Materials Science</i> , 2020 , 174, 109493	3.2	12
173	A facile method to synthesize two-dimensional CsPb2Br5 nano-/micro-sheets for high-performance solution-processed photodetectors. <i>Journal of Alloys and Compounds</i> , 2020 , 824, 153970	5.7	12
172	Ordered CdS micro/nanostructures on CdSe nanostructures. <i>Nanotechnology</i> , 2009 , 20, 125601	3.4	12
171	Electron transport properties in ZnO nanowires/poly(3-hexylthiophene) hybrid nanostructure. <i>Materials Chemistry and Physics</i> , 2010 , 124, 1239-1242	4.4	12
170	A clean route for preparation of cdte nanocrystals and their conjugation with bacterium. <i>Journal of Nanoscience and Nanotechnology</i> , 2006 , 6, 3784-8	1.3	12
169	Origin of emission from porous silicon: Temperature-dependence correlation with proton conductivity. <i>Physical Review B</i> , 2000 , 62, 16595-16599	3.3	12
168	Tailoring the electrocaloric effect of Pb0.78Ba0.2La0.02ZrO3 relaxor thin film by GaN substrates. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 14109-14115	7.1	12
167	High-sensitivity broadband colloidal quantum dot heterojunction photodetector for night-sky radiation. <i>Journal of Alloys and Compounds</i> , 2018 , 764, 446-451	5.7	12
166	Efficient broadband near-infrared luminescence of Cr3+ doped fluoride K2NaInF6 and its NIR-LED application toward veins imaging. <i>Chemical Engineering Journal</i> , 2022 , 427, 131740	14.7	12
165	Surfactant-treated graphene oxide in organic solvents and its application in photovoltaic cells. <i>Current Applied Physics</i> , 2017 , 17, 343-350	2.6	11
164	CdSSe nanowire-chip based wearable sweat sensor. <i>Journal of Nanobiotechnology</i> , 2019 , 17, 42	9.4	11
163	Growth of CdS nanotubes and their strong optical microcavity effects. <i>Nanoscale</i> , 2019 , 11, 5325-5329	7.7	11
162	The effect of dopant and optical micro-cavity on the photoluminescence of Mn-doped ZnSe nanobelts. <i>Nanoscale Research Letters</i> , 2013 , 8, 314	5	11
161	Structure and optical properties of pure and doped ZnO 1D nanostructures. <i>Materials Letters</i> , 2013 , 91, 369-371	3.3	11
160	Formation of Mn doped CH3NH3PbBr3 perovskite microrods and their collective EMP lasing. <i>Journal of Physics Communications</i> , 2017 , 1, 055018	1.2	11
159	Eu3+-doped LaPO4 and LaAlO3 nanosystems and their luminescence properties. <i>Science in China Series B: Chemistry</i> , 2009 , 52, 1104-1112		11

158	Conjugated Polymer-Assisted Preparation of CdSe Nanospheres and Their Photovoltaic Properties. <i>Science of Advanced Materials</i> , 2012 , 4, 342-345	2.3	11
157	All-solution-processed UV-IR broadband trilayer photodetectors with CsPbBr colloidal nanocrystals as carriers-extracting layer. <i>Nanotechnology</i> , 2020 , 31, 165502	3.4	11
156	A one-step method to synthesize CHNHPbI:MoS nanohybrids for high-performance solution-processed photodetectors in the visible region. <i>Nanotechnology</i> , 2019 , 30, 085707	3.4	11
155	Recent progress of infrared photodetectors based on lead chalcogenide colloidal quantum dots. <i>Chinese Physics B</i> , 2019 , 28, 020701	1.2	10
154	Fabrication and micro-photoluminescence property of CdSe/CdS core/shell nanowires. <i>Applied Physics A: Materials Science and Processing</i> , 2015 , 119, 343-349	2.6	10
153	Tunable emission and conductivity enhancement by tellurium doping in CdS nanowires for optoelectronic applications. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017 , 86, 81-87	3	10
152	FACILE SYNTHESIS OF HUMIC ACID-COATED IRON OXIDE NANOPARTICLES AND THEIR APPLICATIONS IN WASTEWATER TREATMENT. <i>Functional Materials Letters</i> , 2011 , 04, 373-376	1.2	10
151	Dual-Color Lasing Lines from EMPs in Diluted Magnetic Semiconductor CdS:Ni Structure. <i>Research</i> , 2019 , 2019, 6956937	7.8	10
150	Solution-processed, flexible and broadband photodetector based on CsPbBr ₃ /PbSe quantum dot heterostructures. <i>Journal of Materials Science and Technology</i> , 2021 , 68, 216-226	9.1	10
149	Surface polarons and optical micro-cavity modulated broad range multi-mode emission of Te-doped CdS nanowires. <i>Nanotechnology</i> , 2018 , 29, 465709	3.4	10
148	Hybrid Bulk-Heterojunction of Colloidal Quantum Dots and Mixed-Halide Perovskite Nanocrystals for High-Performance Self-Powered Broadband Photodetectors. <i>Advanced Functional Materials</i> , 2021 , 31, 210527	15.6	10
147	Spin-related optical behaviors of dilute magnetic semiconductor ZnSe:Ni(II) nanobelts. <i>Nanotechnology</i> , 2020 , 31, 325002	3.4	9
146	The polarization modulation and fabrication method of two dimensional silica photonic crystals based on UV nanoimprint lithography and hot imprint. <i>Scientific Reports</i> , 2016 , 6, 34495	4.9	9
145	Enhancement of the power conversion efficiency of polymer solar cells by functionalized single-walled carbon nanotubes decorated with CdSe/ZnS core-shell colloidal quantum dots. <i>Journal of Materials Science</i> , 2014 , 49, 2571-2577	4.3	9
144	Tuning emission property of CdS nanowires via indium doping. <i>Journal of Alloys and Compounds</i> , 2013 , 551, 150-154	5.7	9
143	Novel Cd-CdS micro/nano heterostructures: Synthesis and luminescence properties. <i>Optical Materials</i> , 2017 , 73, 527-534	3.3	9
142	Efficiency enhancement of organic solar cells by inserting PbS quantum dots film as the infrared absorption layer. <i>Materials Letters</i> , 2017 , 187, 136-139	3.3	9
141	Spin-Related Micro-Photoluminescence in Fe ³⁺ Doped ZnSe Nanoribbons. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 39	2.6	9

140	Vertically Stacked MoSe ₂ /MoO ₂ Nanolayered Photodetectors with Tunable Photoresponses. <i>ACS Applied Nano Materials</i> , 2020 , 3, 7543-7553	5.6	9
139	To enhance the performance of all-inorganic perovskite photodetectors via constructing both bilayer heterostructure and bipolar carrier transporting channels. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 14938-14948	7.1	9
138	Robust Fano resonance in the photonic valley Hall states. <i>Physical Review A</i> , 2021 , 103,	2.6	9
137	Bulk Assembly of Zero-Dimensional Organic Copper Bromide Hybrid with Bright Self-Trapped Exciton Emission and High Antiwater Stability. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 20014-20021	3.8	9
136	PbS quantum dots based organic-inorganic hybrid infrared detecting and display devices. <i>Materials Letters</i> , 2017 , 196, 176-178	3.3	8
135	Enhancement of the power conversion efficiency of polymer solar cells by incorporating PbSe quantum dots. <i>Journal of Materials Science</i> , 2015 , 50, 840-847	4.3	8
134	Efficiency enhancement for solution-processed PbS quantum dots solar cells by inserting graphene oxide as hole-transporting and interface modifying layer. <i>Organic Electronics</i> , 2018 , 58, 270-275	3.5	8
133	The aggregation of Fe and their d-d radiative transitions in ZnSe:Fe nanobelts by CVD growth.. <i>RSC Advances</i> , 2018 , 8, 3133-3139	3.7	8
132	Accuracy enhancement of laser induced breakdown spectroscopy by safely low-power discharge. <i>Optics Express</i> , 2018 , 26, 13973-13984	3.3	8
131	Visual monitoring of laser power and spot profile in micron region by a single chip of Zn-doped CdS nanobelts. <i>RSC Advances</i> , 2014 , 4, 52550-52554	3.7	8
130	Alkylthiol-enabled Se powder dissolving for phosphine-free synthesis of highly emissive, large-sized and spherical Mn-doped ZnSeS nanocrystals. <i>RSC Advances</i> , 2017 , 7, 44867-44873	3.7	8
129	Group delay of single-photon transmission in a waveguide side coupled with a Jaynes-Cummings chain. <i>Journal of Applied Physics</i> , 2013 , 113, 143105	2.5	8
128	FULVIC ACID COATED IRON OXIDE NANOPARTICLES FOR MAGNETIC RESONANCE IMAGING CONTRAST AGENT. <i>Functional Materials Letters</i> , 2010 , 03, 197-200	1.2	8
127	Ultrafast optical bistable behaviors of vanadyl phthalocyanine-doped polymer film quasi-waveguide and waveguide. <i>Thin Solid Films</i> , 1997 , 298, 215-220	2.2	8
126	Nonresonant optical nonlinearity of ZnO composite nanoparticles with different interfacial chemical environments. <i>Materials Research Innovations</i> , 1998 , 2, 49-52	1.9	8
125	Formation and spectroscopic characterization of nearly mono-dispersed CdS nanocrystals. <i>Optical Materials</i> , 2004 , 26, 71-74	3.3	8
124	Theoretical investigation of optoelectronic and magnetic properties of Co-doped ZnS and (Al, Co) co-doped ZnS. <i>Computational Materials Science</i> , 2020 , 174, 109491	3.2	8
123	Reversible Zn Insertion in Tungsten Ion-Activated Titanium Dioxide Nanocrystals for Electrochromic Windows. <i>Nano-Micro Letters</i> , 2021 , 13, 196	19.5	8

122	A Polarization-Sensitive Self-Powered Photodetector Based on a p-WSe/TaIrTe/n-MoS van der Waals Heterojunction.. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 61544-61554	9.5	8
121	Gaining Insight into the Underlayer Treatment for in Situ Fabrication of Efficient Perovskite Nanocrystal-Based Light-Emitting Diodes. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 17353-17359	3.8	7
120	Room temperature synthesis of Mn-doped Cs ₃ Pb ₆ Cl ₁₆ perovskite nanocrystals with pure dopant emission and temperature-dependent photoluminescence. <i>CrystEngComm</i> , 2019 , 21, 3568-3575	3.3	7
119	Red, Green, and Blue Microcavity Quantum Dot Light-Emitting Devices with Narrow Line Widths. <i>ACS Applied Nano Materials</i> , 2020 , 3, 5301-5310	5.6	7
118	Single Source Precursor Chemical Vapor Decomposition Method to Fabricate Stable, Bright Emissive Aluminum Hydroxide Phosphors for UV-Pumped White Light-Emitting Devices. <i>Advanced Optical Materials</i> , 2018 , 6, 1701115	8.1	7
117	PEDOT:PSS Modification by blending graphene oxide to improve the efficiency of organic solar cells. <i>Polymer Composites</i> , 2018 , 39, 3066-3072	3	7
116	Generation of optical vortices by exciton polaritons in pillar semiconductor microcavities. <i>Optics Express</i> , 2018 , 26, 22273-22283	3.3	7
115	Spherical hexagonal tellurium nanocrystals: fabrication and size-dependent structural phase transition at high pressure. <i>Nanotechnology</i> , 2008 , 19, 045707	3.4	7
114	The photoelectric response of gold-nanoparticle monolayers. <i>ChemPhysChem</i> , 2007 , 8, 1611-4	3.2	7
113	Picosecond optical bistability in metallophthalocyanine-doped polymer film waveguides. <i>Optics Letters</i> , 1996 , 21, 357-9	3	7
112	Self-trapped state and phonon localization in TiO ₂ quantum dot with a dipole layer. <i>Journal of Applied Physics</i> , 1993 , 73, 4689-4690	2.5	7
111	Photoluminescence and Magnetic Properties of Mn-Doped ZnS Nanobelts. <i>Nanoscience and Nanotechnology Letters</i> , 2014 , 6, 706-710	0.8	7
110	Bosonic Lasing of Collective Exciton Magnetic Polarons in CuCl ₂ -Doped CdS Nanoribbons: Implications for Quantum Light Sources. <i>ACS Applied Nano Materials</i> , 2020 , 3, 5019-5032	5.6	7
109	Anomalous nonlinear optical effect and enhanced emission by magnetic excitons in CVD grown cobalt-doped ZnSe nanoribbon. <i>New Journal of Physics</i> , 2021 , 23, 033019	2.9	7
108	Surface organic ligand-passivated quantum dots: toward high-performance light-emitting diodes with long lifetimes. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 2483-2490	7.1	7
107	Thermal and photo stability of all inorganic lead halide perovskite nanocrystals. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 17113-17128	3.6	7
106	Cavity-Enhanced Microphotoluminescence in a Core-Shell n-p CdS/CdO Micrometer Wire and Its Efficient Surface Photovoltage Responses in the Whole Visible Range. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 14349-14358	3.8	6
105	Synthesis of Novel Sea-Urchin-Like CdS and Their Optical Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 4435-41	1.3	6

104	Antiferromagnetic Magnetic Polaron Formation and Optical Properties of CVD-Grown Mn-Doped Zinc Stannate (ZTO). <i>ACS Applied Electronic Materials</i> , 2020 , 2, 1679-1688	4	6
103	Self-powered, all-solution processed, trilayer heterojunction perovskite-based photodetectors. <i>Nanotechnology</i> , 2020 , 31, 254001	3.4	6
102	Synthesis and optical properties of Mn ²⁺ -doped CdTe colloidal nanocrystals. <i>Journal of Materials Science</i> , 2020 , 55, 12801-12810	4.3	6
101	Transmission and correlation of a two-photon pulse in a one-dimensional waveguide coupled with quantum emitters. <i>Physical Review A</i> , 2018 , 97,	2.6	6
100	Synthesis of dual-emission Ag- and Mn-codoped Zn-In-S nanocrystals and their optical radiometric temperature sensors. <i>Journal of Nanoparticle Research</i> , 2019 , 21, 1	2.3	6
99	Effects of non-coupling between one-dimensional waveguides and side optical cavities. <i>Physical Review A</i> , 2014 , 89,	2.6	6
98	Interfacial polaron in quantum dots and luminescent porous silicon. <i>Science Bulletin</i> , 2001 , 46, 630-635		6
97	Photoinduced vibrational absorptions from poly(3-octylthiophene)/Fe ₂ O ₃ nanoparticle composite, a time-resolved FTIR study. <i>Synthetic Metals</i> , 2000 , 113, 223-226	3.6	6
96	Stoichiometry-Controlled Phase Engineering of Cesium Bismuth Halides and Reversible Structure Switch. <i>Advanced Optical Materials</i> , 2101406	8.1	6
95	Component Engineering to Tailor the Structure and Optical Properties of Sb-Doped Indium-Based Halides.. <i>Inorganic Chemistry</i> , 2022 ,	5.1	6
94	(C ₁₆ H ₂₈ N) ₂ SbCl ₅ : A new lead-free zero-dimensional metal-halide hybrid with bright orange emission. <i>Science China Materials</i> , 1	7.1	6
93	Effect of Vanadium doping on optoelectronic and magnetic properties of wurtzite ZnS crystal. <i>Optik</i> , 2020 , 204, 164162	2.5	6
92	Surface plasmons promoted single-mode polariton lasing in a subwavelength ZnO nanowire. <i>Nano Energy</i> , 2020 , 78, 105202	17.1	6
91	Strong yellow emission of polaronic magnetic exciton in Fe ³⁺ -doped CsCdCl ₃ perovskites. <i>Applied Physics Letters</i> , 2021 , 118, 152102	3.4	6
90	Inorganic Solid Phosphorus Precursor of Sodium Phosphaethynolate for Synthesis of Highly Luminescent InP-Based Quantum Dots. <i>ACS Energy Letters</i> , 2021 , 6, 2697-2703	20.1	6
89	Arbuscular mycorrhizal fungi can ameliorate salt stress in <i>Elaeagnus angustifolia</i> by improving leaf photosynthetic function and ultrastructure. <i>Plant Biology</i> , 2021 , 23 Suppl 1, 232-241	3.7	6
88	The role of surfactant-treated graphene oxide in polymer solar cells: Mobility study. <i>Organic Electronics</i> , 2018 , 53, 303-307	3.5	6
87	Polaronic Magnetic Excitons and Photoluminescence in Mn ²⁺ -Doped CsCdBr ₃ Metal Halides. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 18031-18039	3.8	6

86	Effects of Electron-Phonon Coupling and Spin-Spin Coupling on the Photoluminescence of Low-Dimensional Metal Halides.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 1752-1764	6.4	6
85	Multipoint Nanolaser Array in an Individual Core-Shell CdS Branched Nanostructure. <i>Advanced Optical Materials</i> , 2020 , 8, 1901644	8.1	5
84	Single microwave photon switch controlled by an external electrostatic field. <i>Physical Review A</i> , 2018 , 98,	2.6	5
83	Optoelectronic and magnetic properties of Mn-doped and Mn-C co-doped Wurtzite ZnS: a first-principles study. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 395702	1.8	5
82	Synthesis of high-efficient Mn ²⁺ doped CsPbCl ₃ perovskite nanocrystals in toluene and surprised lattice ejection of dopants at mild temperature. <i>Journal of Alloys and Compounds</i> , 2019 , 806, 858-863	5.7	5
81	Negative differential resistance phenomena in colloidal quantum dots-based organic light-emitting diodes. <i>Applied Physics Letters</i> , 2014 , 104, 033301	3.4	5
80	Multi-Band-Stop Filter for Single-Photon Transport Based on a One-Dimensional Waveguide Side Coupled with Optical Cavities. <i>Plasmonics</i> , 2014 , 9, 1085-1089	2.4	5
79	The length controllable synthesis and near-infrared photoluminescence of one-dimensional ternary Cu ₄ Bi ₄ S ₉ semiconductor nanobelts. <i>Materials Research Bulletin</i> , 2014 , 49, 180-186	5.1	5
78	Modulation of optical intensity on curved surfaces and its application to fabricate DOEs with arbitrary profile by interference. <i>Optics Express</i> , 2013 , 21, 5140-8	3.3	5
77	Facile preparation of TiO ₂ nanostructures by direct annealing of the Ti foil. <i>Materials Letters</i> , 2010 , 64, 2392-2394	3.3	5
76	PHOTOLUMINESCENCE EMITTING PROPERTIES OF SINGLE ZnO NANOWIRE STUDIED BY SCANNING NEAR-FIELD OPTICAL MICROSCOPE. <i>Modern Physics Letters B</i> , 2007 , 21, 543-549	1.6	5
75	Magnetic polaronic and bipolaronic excitons in Mn(II) doped (TDMP)PbBr ₄ and their high emission. <i>Nano Energy</i> , 2022 , 93, 106863	17.1	5
74	Dual self-trapped exciton emission of (TBA) ₂ Cu ₂ I ₄ : optical properties and high anti-water stability. <i>Journal of Materials Chemistry C</i> ,	7.1	5
73	Frequency dependent electrocaloric effect in Nb-doped PZST relaxor thin film with the coexistence of tetragonal antiferroelectric and rhombohedral ferroelectric phases. <i>Ceramics International</i> , 2020 , 46, 4300-4306	5.1	5
72	Sn-Doped CdS Nanowires with Low-Temperature Lasing by CW-Laser Excitation. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 282-289	4	5
71	Bulk assembly of a 0D organic antimony chloride hybrid with highly efficient orange dual emission by self-trapped states. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 12184-12190	7.1	5
70	The tunable bandgap effect of SnS films. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 465302	1.8	5
69	Large-scale facile-synthesis and bistable emissions of one-dimensional organic-inorganic C ₄ H ₁₄ N ₂ PbBr ₄ metal halide crystals with bipolaronic states. <i>New Journal of Chemistry</i> , 2021 , 45, 17247-17257	3.6	5

68	The high-accuracy prediction of carbon content in semi-coke by laser-induced breakdown spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2020 , 35, 984-992	3.7	4
67	Ultrafast photomechanical transduction through thermophoretic implosion. <i>Nature Communications</i> , 2020 , 11, 50	17.4	4
66	Spin-polarized exciton formation in Co-doped GaN nanowires. <i>Materials Chemistry and Physics</i> , 2020 , 245, 122756	4.4	4
65	Synthesis and characterization of zinc sulfide nanobelts with periodically modulated thickness. <i>Materials Letters</i> , 2014 , 132, 224-227	3.3	4
64	Yellow-light generation and engineering in zinc-doped cadmium sulfide nanobelts with low-threshold two-photon excitation. <i>Nanotechnology</i> , 2014 , 25, 325702	3.4	4
63	In situ TEM observation of novel chemical evolution of MnBr ₂ catalyzed by Cu under electron beam irradiation. <i>Chemical Physics Letters</i> , 2017 , 686, 44-48	2.5	4
62	Simple Synthesis and Growth Mechanism of Core/Shell CdSe/SiO _x Nanowires. <i>Journal of Nanomaterials</i> , 2010 , 2010, 1-6	3.2	4
61	Magnetic-field modulated exciton-exciton interaction in semiconductor microcavities. <i>Journal of Applied Physics</i> , 2010 , 107, 053527	2.5	4
60	Labeling of hematopoietic stem cells by Tat peptide conjugated quantum dots for cell tracking in mouse body. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 6880-6	1.3	4
59	Applications of fluorescent quantum dots to stem cell tracing in vivo. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 5726-30	1.3	4
58	Cobalt-doped disulfide nanotubes prepared by exfoliation/intercalation/hydrothermal adulteration. <i>Materials Letters</i> , 2006 , 60, 815-819	3.3	4
57	Magnetic coupling in 3D-hierarchical MnO ₂ microsphere. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 2802-2808	2.1	4
56	Bulk assembly of a 0D organic tin(ii)chloride hybrid with high anti-water stability. <i>Chemical Communications</i> , 2021 , 57, 8162-8165	5.8	4
55	A Monolithic Solid-State Sodium-Sulfur Battery with Al-Doped NaZr(SiPO) Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 42927-42934	9.5	4
54	In situ preparation of Mn-doped perovskite nanocrystalline films and application to white light emitting devices. <i>Journal of Colloid and Interface Science</i> , 2022 , 606, 1163-1169	9.3	4
53	High-efficient yellow-green emission in (TDMP)MnBr ₄ single crystal with modulation of spin-phonon-charge interactions. <i>Materials Today Physics</i> , 2022 , 25, 100703	8	4
52	The contribution of Cr(III)-doping on the modulation of magnetic and luminescence properties of GaN nanowires. <i>Superlattices and Microstructures</i> , 2019 , 132, 106159	2.8	3
51	Spin-induced magnetic anisotropy in novel Co-doped GaN nanoneedles and their related photoluminescence. <i>New Journal of Chemistry</i> , 2018 , 42, 8338-8341	3.6	3

50	Transmission comb of a distributed Bragg reflector with two surface dielectric gratings. <i>Scientific Reports</i> , 2016 , 6, 21125	4.9	3
49	Transport and entanglement for single photons in optical waveguide ladders. <i>Physical Review A</i> , 2019 , 100,	2.6	3
48	To observe bidirectional negative differential resistance at room temperature by narrowing transport channels for charge carriers in vertical organic light-emitting transistor. <i>Organic Electronics</i> , 2013 , 14, 362-369	3.5	3
47	Surface polarity induced three-dimensional wurtzite ZnS/ZnS _x Se _{1-x} nano-heterostructures with integrating emission property. <i>CrystEngComm</i> , 2013 , 15, 9988	3.3	3
46	Diamagnetism of microcavity polaritons induced by spin-dependent polariton-polariton interactions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012 , 376, 3332-3336	2.3	3
45	Fabrication and optical waveguide of Sn-catalyzed CdSe microstructures. <i>Solid State Communications</i> , 2013 , 167, 31-35	1.6	3
44	Molecular beam epitaxy growth of high mobility InN film for high-performance broadband heterointerface photodetectors. <i>Surfaces and Interfaces</i> , 2022 , 29, 101772	4.1	3
43	Colloidal Synthesis of Giant Shell PbSe-Based Core/Shell Quantum Dots in Polar Solvent: Cation Exchange versus Epitaxial Growth. <i>Chemistry of Materials</i> , 2020 , 32, 6650-6656	9.6	3
42	One-step synthesis of nail-like Mn-doped CdS/CdBr hetero-nanostructures for potential lasing application. <i>Nanotechnology</i> , 2019 , 30, 075605	3.4	3
41	First principle calculations on electronic, magnetic and optical properties of Mn doped and N co-doped CdS. <i>Materials Research Express</i> , 2019 , 6, 116126	1.7	2
40	Interstitial Zn-modulated ferromagnetism in Co-doped ZnSe. <i>Materials Research Express</i> , 2019 , 6, 106121	1.7	2
39	Single-channel dual tunable emission in the visible and near-infrared region using aggregations of Mn(II) ions in an individual Mn-doped CdS nanosheet. <i>Journal of Physics and Chemistry of Solids</i> , 2019 , 132, 197-203	3.9	2
38	Dynamics of chiral state transitions and relaxations in an FeGe thin plate via in situ Lorentz microscopy. <i>Nanoscale</i> , 2020 , 12, 14919-14925	7.7	2
37	Influence of the Post-Synthesis Annealing on Device Performance of PbS Quantum Dot Photoconductive Detectors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018 , 215, 1800408	1.6	2
36	Ab initio study of optoelectronic and magnetic properties of Mn-doped ZnS with and without vacancy defects. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 485706	1.8	2
35	Tailoring of optical modes of semiconductor microcavities via metal and dielectric gratings. <i>Optics Letters</i> , 2012 , 37, 5085-7	3	2
34	Comparison of the optical waveguide behaviors of Se-doped and undoped CdS nanoribbons by using near-field optical microscopy. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 978-81	1.3	2
33	Third order optical nonlinearities in ZnFe ₂ O ₄ nanocrystals. <i>Optics Communications</i> , 2008 , 281, 851-854	2	2

32	Carrier density and confined polaron effects in the photoluminescence of fresh and oxidized porous silicon. <i>Surface and Interface Analysis</i> , 2004 , 36, 166-171	1.5	2
31	Excitonic properties of Cu ₂ O microcrystals. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1993 , 182, 130-134	2.3	2
30	Fragile topologically protected perfect reflection for acoustic waves. <i>Physical Review Research</i> , 2020 , 2,	3.9	2
29	Large-Scale Synthesis of Highly Pure Novel Cadmium Semi-Spheres and Their Anomalous Optical Properties. <i>Science of Advanced Materials</i> , 2014 , 6, 2666-2672	2.3	2
28	Optical Josephson oscillation achieved by two coupled exciton-polariton condensates. <i>Optics Express</i> , 2020 , 28, 9136-9148	3.3	2
27	Enhanced performance of solution-processed all-inorganic halide perovskite photodetectors by using bulk heterojunction and lateral configuration. <i>Journal of Alloys and Compounds</i> , 2021 , 896, 163022	5.7	2
26	Surface-Activated Ti ₃ C ₂ T _x MXene Cocatalyst Assembled with CdZnS-Formed 0D/2D CdZnS/Ti ₃ C ₂ -A 40 Schottky Heterojunction for Enhanced Photocatalytic Hydrogen Evolution. <i>Solar Rrl</i> , 2100863	7.1	2
25	Synthesis and Photoluminescence of Single-Crystalline Fe(III)-Doped CdS Nanobelts. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 4086-93	1.3	2
24	Dielectric polarization effect and transient relaxation in FAPbBr films before and after PMMA passivation. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 10153-10163	3.6	2
23	Phase-Selective Solution Synthesis of Cd-Based Perovskite Derivatives and Their Structure/Emission Modulation.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 3682-3690	6.4	2
22	Hybrid Nanocomposites of All-Inorganic Halide Perovskites with Polymers for High-Performance Field-Effect-Transistor-Based Photodetectors: An Experimental and Simulation Study. <i>Advanced Materials Interfaces</i> , 2200017	4.6	2
21	Optically programmable encoder based on light propagation in two-dimensional regular nanoplates. <i>Nanotechnology</i> , 2017 , 28, 145701	3.4	1
20	Magnetic quantification of single-crystalline Fe and Co nanowires via off-axis electron holography. <i>Journal of Chemical Physics</i> , 2020 , 152, 114202	3.9	1
19	First principles calculations of optoelectronic and magnetic properties of Co-doped and (Co, Al) co-doped ZnO. <i>Journal of Applied Physics</i> , 2020 , 127, 065707	2.5	1
18	P-80: Intelligent Remote Light-Emitting Systems using PMMA and CuInS ₂ Nanocrystals Composite Films. <i>Digest of Technical Papers SID International Symposium</i> , 2014 , 45, 1285-1287	0.5	1
17	Suppression of space broadening of exciton polariton transport by Bloch oscillation effect. <i>Journal of Optics (United Kingdom)</i> , 2015 , 17, 125401	1.7	1
16	Disorder-induced transparency in a one-dimensional waveguide side coupled with optical cavities. <i>Journal of Applied Physics</i> , 2014 , 115, 173105	2.5	1
15	Stable optical-signal emitter based on a semiconductor photonic dot. <i>Journal of Applied Physics</i> , 2011 , 109, 063107	2.5	1

14	Preparation of Single-crystalline Selenium Nanowires in the Presence of Ethylenediaminetetramethylenephosphonic Acid. <i>Chemistry Letters</i> , 2006 , 35, 330-331	1.7	1
13	Enhanced photoluminescence efficiencies of CsPbCl ₃ -xBr _x nanocrystals by incorporating neodymium ions. <i>Journal of Luminescence</i> , 2022 , 243, 118658	3.8	1
12	Stable blue-emissive aluminum acetylacetonate nanocrystals with high quantum yield of over 80% and embedded in polymer matrix for remote UV-pumped white light-emitting diodes. <i>Nanophotonics</i> , 2020 , 9, 1509-1518	6.3	1
11	Surface Plasmon Enhanced Exciton Transitions, Cavity Resonance Effects, and Exciton-Polariton-Phonon Interactions in ZnO Nanowires. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 28252-28260	3.8	1
10	New Type of Thermoelectric CdS _{Se} Nanowire Chip. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 30959-30966	9.5	1
9	Curvature effects in two-dimensional optical devices inspired by transformation optics. <i>Applied Physics Letters</i> , 2016 , 109, 201105	3.4	1
8	Influence of contact resistance on the electrical characteristics of organic static induction transistors. <i>Semiconductor Science and Technology</i> , 2019 , 34, 095022	1.8	0
7	Comparative Studies on Two-Dimensional (2D) Rectangular and Hexagonal Molybdenum Dioxide Nanosheets with Different Thickness. <i>Nanoscale Research Letters</i> , 2020 , 15, 156	5	0
6	Photoluminescence and Boosting Electron-Phonon Coupling in CdS Nanowires with Variable Sn(IV) Dopant Concentration. <i>Nanoscale Research Letters</i> , 2021 , 16, 19	5	0
5	Computational insights into optoelectronic and magnetic properties of V(III)-doped GaN. <i>Journal of Solid State Chemistry</i> , 2021 , 122606	3.3	0
4	Theoretical study of transparent peaks in a topological waveguide-cavity coupled system. <i>Applied Physics Letters</i> , 2021 , 119, 251101	3.4	0
3	Enhanced photocurrent from organic polymers-based photodiodes by blending PbS colloidal quantum dots. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 1163-7	1.3	
2	Two-photon scattering and correlation in a four-terminal waveguide system. <i>Optics Express</i> , 2021 , 29, 35664-35677	3.3	
1	Defect controls by silicon doping in non-polar a-plane AlGa _N epi-layers. <i>Materials Express</i> , 2021 , 11, 1466-1475	1.5	