

Bingsuo zou

List of Publications by Year in descending order

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355
papers

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23567

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#	ARTICLE	IF	CITATIONS
1	Brightly Luminescent and Color-Tunable Colloidal $\text{CH}_3\text{NH}_3\text{PbX}_3$ (X = Br, I, Cl) Quantum Dots: Potential Alternatives for Display Technology. <i>ACS Nano</i> , 2015, 9, 4533-4542.	14.6	2,001
2	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.	21.0	635
3	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.	14.9	449
4	Emulsion Synthesis of Size-Tunable $\text{CH}_3\text{NH}_3\text{PbBr}_3$ Quantum Dots: An Alternative Route toward Efficient Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 28128-28133.	8.0	429
5	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.	13.7	411
6	Tuning the Luminescence Properties of Colloidal In_2S_3 Semiconductor Nanocrystals for Optoelectronics and Biotechnology Applications. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 3167-3175.	4.6	402
7	Reverse Micelle Synthesis and Characterization of Superparamagnetic MnFe_2O_4 Spinel Ferrite Nanocrystallites. <i>Journal of Physical Chemistry B</i> , 2000, 104, 1141-1145.	2.6	349
8	A New Route to Zinc-Blende CdSe Nanocrystals: Mechanism and Synthesis. <i>Journal of Physical Chemistry B</i> , 2005, 109, 16671-16675.	2.6	285
9	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	275
10	Highly Efficient Blue Emission from Self-Trapped Excitons in Stable Sb^{3+} -Doped $\text{Cs}_2\text{NaInCl}_6$ Double Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2053-2061.	4.6	259
11	Centimeter-Sized Cs_4PbBr_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.	14.9	251
12	Efficient Light-Emitting Diodes Based on <i>In Situ</i> Fabricated FAPbBr_3 Nanocrystals: The Enhancing Role of the Ligand-Assisted Reprecipitation Process. <i>ACS Nano</i> , 2018, 12, 8808-8816.	14.6	237
13	Color-Tunable Photoluminescence of Alloyed $\text{CdS}_x\text{Se}_{1-x}$ Nanobelts. <i>Journal of the American Chemical Society</i> , 2005, 127, 15692-15693.	13.7	221
14	Optical Waveguide through CdS Nanoribbons. <i>Small</i> , 2005, 1, 980-983.	10.0	193
15	Continuous Alloy-Composition Spatial Grading and Superbroad Wavelength-Tunable Nanowire Lasers on a Single Chip. <i>Nano Letters</i> , 2009, 9, 784-788.	9.1	191
16	Controllable ZnO Architectures by Ethanolamine-Assisted Hydrothermal Reaction for Enhanced Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2011, 115, 2769-2775.	3.1	175
17	Photochromism and Size Effect of WO_3 and $\text{WO}_3 \cdot x\text{H}_2\text{O}$ Aqueous Sol. <i>Chemistry of Materials</i> , 2003, 15, 4039-4045.	6.7	159
18	Hydroxyl-Terminated CuInS_2 Based Quantum Dots: Toward Efficient and Bright Light Emitting Diodes. <i>Chemistry of Materials</i> , 2016, 28, 1085-1091.	6.7	155

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19	Stimulated Emissions in Aligned CdS Nanowires at Room Temperature. <i>Journal of Physical Chemistry B</i> , 2005, 109, 24268-24272.	2.6	153
20	Sol-gel Synthesis of Free-Standing Ferroelectric Lead Zirconate Titanate Nanoparticles. <i>Journal of the American Chemical Society</i> , 2001, 123, 4344-4345.	13.7	152
21	Integration of CuInS ₂ -based nanocrystals for high efficiency and high colour rendering white light-emitting diodes. <i>Nanoscale</i> , 2013, 5, 3514.	5.6	145
22	Synthesis of Highly Emissive Mn-Doped ZnSe Nanocrystals without Pyrophoric Reagents. <i>Chemistry of Materials</i> , 2010, 22, 2107-2113.	6.7	144
23	Highly Efficient Self-Trapped Exciton Emission of a (MA) ₄ Cu ₂ Br ₆ Single Crystal. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 4703-4710.	4.6	138
24	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.	6.7	135
25	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.	6.7	132
26	ZnO flowers made up of thin nanosheets and their optical properties. <i>Journal of Crystal Growth</i> , 2005, 282, 165-172.	1.5	128
27	Boosting triplet self-trapped exciton emission in Te(IV)-doped Cs ₂ SnCl ₆ perovskite variants. <i>Nano Research</i> , 2021, 14, 1551-1558.	10.4	127
28	Efficient Energy Transfer in Te ⁴⁺ -Doped Cs ₂ ZrCl ₆ Vacancy-Ordered Perovskites and Ultrahigh Moisture Stability via A-Site Rb-Alloying Strategy. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 1829-1837.	4.6	127
29	Lasing Mechanism of ZnO Nanowires/Nanobelts at Room Temperature. <i>Journal of Physical Chemistry B</i> , 2006, 110, 12865-12873.	2.6	120
30	Applications of Mesenchymal Stem Cells Labeled with Tat Peptide Conjugated Quantum Dots to Cell Tracking in Mouse Body. <i>Bioconjugate Chemistry</i> , 2008, 19, 421-427.	3.6	115
31	Homo- and Heterovalent Doping-Mediated Self-Trapped Exciton Emission and Energy Transfer in Mn-Doped Cs ₂ NaAgBiCl ₆ Double Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 340-348.	4.6	104
32	Facile synthesis and enhanced photocatalytic activity of hierarchical porous ZnO microspheres. <i>Materials Letters</i> , 2012, 66, 72-75.	2.6	97
33	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.	3.1	96
34	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, 18225-18230.	2.6	95
35	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.	7.0	94
36	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.	30.8	93

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37	Colloidal Synthesis of CH ₃ NH ₃ PbBr ₃ Nanoplatelets with Polarized Emission through Self-Organization. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 1780-1783.	13.8	92
38	Formation of nanoparticulate iron(III) oxide-stearate multilayer through Langmuir-Blodgett method. <i>The Journal of Physical Chemistry</i> , 1992, 96, 3412-3415.	2.9	91
39	Small GSH-Capped CuInS ₂ Quantum Dots: MPA-Assisted Aqueous Phase Transfer and Bioimaging Applications. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 17623-17629.	8.0	91
40	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.	3.1	88
41	Aggregation-Induced Emission Features of Organometal Halide Perovskites and Their Fluorescence Probe Applications. <i>Advanced Optical Materials</i> , 2015, 3, 112-119.	7.3	87
42	Self-Trapped Exciton Emission in a Zero-Dimensional (TMA) ₂ SbCl ₅ ·DMF Single Crystal and Molecular Dynamics Simulation of Structural Stability. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 7091-7099.	4.6	86
43	Organic-inorganic hybrid manganese bromine single crystal with dual-band photoluminescence from polaronic and bipolaronic excitons. <i>Nano Energy</i> , 2021, 87, 106166.	16.0	85
44	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.	4.6	83
45	Broadband perovskite quantum dot spectrometer beyond human visual resolution. <i>Light: Science and Applications</i> , 2020, 9, 73.	16.6	83
46	Near-Unity Red Mn ²⁺ Photoluminescence Quantum Yield of Doped CsPbCl ₃ Nanocrystals with Cd Incorporation. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2142-2149.	4.6	77
47	Highly Stable Red Quantum Dot Light-Emitting Diodes with Long <i>T</i> ₉₅ Operation Lifetimes. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3111-3115.	4.6	76
48	Ultraviolet lasing and time-resolved photoluminescence of well-aligned ZnO nanorod arrays. <i>Applied Physics Letters</i> , 2005, 86, 223106.	3.3	73
49	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.	4.6	73
50	Efficient broadband near-infrared luminescence of Cr ³⁺ doped fluoride K ₂ NaInF ₆ and its NIR-LED application toward veins imaging. <i>Chemical Engineering Journal</i> , 2022, 427, 131740.	12.7	72
51	Hybrid Bulk-Heterojunction of Colloidal Quantum Dots and Mixed-Halide Perovskite Nanocrystals for High-Performance Self-Powered Broadband Photodetectors. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	69
52	Fabrication and photoluminescence of high-quality ternary CdSSe nanowires and nanoribbons. <i>Nanotechnology</i> , 2006, 17, 1083-1086.	2.6	67
53	Bound Exciton and Optical Properties of SnO ₂ One-Dimensional Nanostructures. <i>Journal of Physical Chemistry C</i> , 2009, 113, 1719-1726.	3.1	66
54	Color-Changeable Optical Transport through Se-Doped CdS 1D Nanostructures. <i>Nano Letters</i> , 2007, 7, 2970-2975.	9.1	65

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55	Strong Polarized Photoluminescence from Stretched Perovskiteâ€Nanocrystalâ€Embedded Polymer Composite Films. <i>Advanced Optical Materials</i> , 2017, 5, 1700594.	7.3	63
56	Lead-free Mn ^{II} -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.	5.5	63
57	Highly Efficient Cool-White Photoluminescence of (Ga) ₃ Cu ₂ I ₅ Single Crystals: Formation and Optical Properties. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 13443-13451.	8.0	63
58	Reversible Zn ²⁺ Insertion in Tungsten Ion-Activated Titanium Dioxide Nanocrystals for Electrochromic Windows. <i>Nano-Micro Letters</i> , 2021, 13, 196.	27.0	63
59	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.	3.1	62
60	Charge Carrier Conduction Mechanism in PbS Quantum Dot Solar Cells: Electrochemical Impedance Spectroscopy Study. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 18526-18533.	8.0	59
61	Si-CdSSe Core/Shell Nanowires with Continuously Tunable Light Emission. <i>Nano Letters</i> , 2008, 8, 3413-3417.	9.1	58
62	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.	6.7	58
63	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	57
64	The optical properties of ZnO sheets electrodeposited on ITO glass. <i>Materials Letters</i> , 2007, 61, 2000-2003.	2.6	57
65	Tunable emission properties by ferromagnetic coupling Mn(II) aggregates in Mn-doped CdS microbelts/nanowires. <i>Nanotechnology</i> , 2014, 25, 385201.	2.6	57
66	Ligandâ€Controlled Formation and Photoluminescence Properties of CH ₃ NH ₃ PbBr ₃ Nanocubes and Nanowires. <i>ChemNanoMat</i> , 2017, 3, 303-310.	2.8	57
67	High-Quality Alloyed Cd _x Se _{1-x} Whiskers as Waveguides with Tunable Stimulated Emission. <i>Journal of Physical Chemistry B</i> , 2006, 110, 22313-22317.	2.6	56
68	Red emissive CuInS ₂ -based nanocrystals: a potential phosphor for warm white light-emitting diodes. <i>Optics Express</i> , 2013, 21, 10105.	3.4	55
69	Controlled Structural Transformation in Sbâ€Doped Indium Halides A ₃ InCl ₆ and A ₂ InCl ₅ â™™H ₂ O Yields Reversible Greenâ€toâ€Yellow Emission Switch. <i>Advanced Optical Materials</i> , 2021, 9, 2002267.	7.3	55
70	Highly efficient green InP-based quantum dot light-emitting diodes regulated by inner alloyed shell component. <i>Light: Science and Applications</i> , 2022, 11, .	16.6	55
71	Advances and Challenges in Two-Dimensional Organicâ€Inorganic Hybrid Perovskites Toward High-Performance Light-Emitting Diodes. <i>Nano-Micro Letters</i> , 2021, 13, 163.	27.0	54
72	Water-Stable Zero-Dimensional (C ₄ H ₉) ₄ NCuCl ₂ Single Crystal with Highly Efficient Broadband Green Emission. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6639-6647.	4.6	53

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73	(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> , 2022, 65, 1594-1600.	6.3	53
74	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.	3.1	52
75	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.	8.0	51
76	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.	3.1	49
77	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.	5.5	49
78	Size effect on the electron-phonon coupling in CuO nanocrystals. <i>Nanotechnology</i> , 2006, 17, 1099-1103.	2.6	48
79	Ray-trace simulation of CuInS(Se) ₂ quantum dot based luminescent solar concentrators. <i>Optics Express</i> , 2015, 23, A858.	3.4	48
80	Bosonic Lasing from Collective Exciton Magnetic Polarons in Diluted Magnetic Nanowires and Nanobelts. <i>ACS Photonics</i> , 2016, 3, 1809-1817.	6.6	48
81	Single-Step Synthesis of Monolithic Comb-like CdS Nanostructures with Tunable Waveguide Properties. <i>Nano Letters</i> , 2013, 13, 2997-3001.	9.1	47
82	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> 21.0 2017, 29, 1604284.		47
83	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.	3.1	47
84	Pure White Emission with 91.9% Photoluminescence Quantum Yield of [(C ₃ H ₇) ₄ N] ₂ Cu ₂ l ₄ out of Polaronic States and Ultra-High Color Rendering Index. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 12395-12403.	8.0	47
85	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.	4.0	45
86	Thermal Stability and Lasing of CdS Nanowires Coated by Amorphous Silica. <i>Small</i> , 2005, 1, 1058-1062.	10.0	45
87	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.	3.1	45
88	Aqueous synthesis of type-II CdTe/CdSe core-shell quantum dots for fluorescent probe labeling tumor cells. <i>Nanotechnology</i> , 2009, 20, 095102.	2.6	45
89	Transition from Photoconductivity to Photovoltaic Effect in P3HT/CuInSe ₂ Composites. <i>Journal of Physical Chemistry C</i> , 2012, 116, 7280-7286.	3.1	43
90	Tunable Emission Properties of Manganese Chloride Small Single Crystals by Pyridine Incorporation. <i>ACS Omega</i> , 2019, 4, 8039-8045.	3.5	43

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91	ZnO nanorods array as light absorption antenna for high-gain UV photodetectors. <i>Journal of Alloys and Compounds</i> , 2020, 812, 152158.	5.5	43
92	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.	5.5	43
93	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.	3.1	42
94	Oleylamine-Assisted Phase-Selective Synthesis of Cu ₂ S Nanocrystals and the Mechanism of Phase Control. <i>Particle and Particle Systems Characterization</i> , 2015, 32, 907-914.	2.3	41
95	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.	3.6	41
96	Field-effect transistor-based solution-processed colloidal quantum dot photodetector with broad bandwidth into near-infrared region. <i>Nanotechnology</i> , 2012, 23, 255203.	2.6	39
97	Solution-Processed PbSe Colloidal Quantum Dot-Based Near-Infrared Photodetector. <i>IEEE Photonics Technology Letters</i> , 2015, 27, 612-615.	2.5	39
98	Formation and optical properties of ZnO:ZnFe ₂ O ₄ superlattice microwires. <i>Nano Research</i> , 2010, 3, 326-338.	10.4	38
99	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.	3.6	38
100	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.	10.7	37
101	Synthesis of PbS microcrystals via a hydrothermal process. <i>Materials Letters</i> , 2006, 60, 1242-1246.	2.6	36
102	Preparation and Periodic Emission of Superlattice CdS/CdS:SnS ₂ Microwires. <i>Journal of the American Chemical Society</i> , 2010, 132, 12174-12175.	13.7	36
103	Large tunable luminescence by Mn(II) aggregates in Mn-doped ZnS nanobelts. <i>Journal of Materials Chemistry C</i> , 2017, 5, 8749-8757.	5.5	36
104	Synthesis, characterization and optical properties of star-like ZnO nanostructures. <i>Materials Letters</i> , 2010, 64, 898-900.	2.6	35
105	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.	17.4	35
106	Component Engineering to Tailor the Structure and Optical Properties of Sb-Doped Indium-Based Halides. <i>Inorganic Chemistry</i> , 2022, 61, 1486-1494.	4.0	35
107	Transient biphotonic holographic grating in photoisomerizative azo materials. <i>Physical Review B</i> , 1998, 57, 3874-3880.	3.2	34
108	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.	3.7	34

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109	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, 13, 1752-1764.	4.6	34
110	Efficient Yellow Self-Trapped Exciton Emission in Sb ³⁺ -Doped RbCdCl ₃ Metal Halides. <i>Inorganic Chemistry</i> , 2022, 61, 7143-7152.	4.0	34
111	Fabrication and Red-Color Lasing of Individual Highly Uniform Single-Crystal CdSe Nanobelts. <i>Journal of Physical Chemistry C</i> , 2007, 111, 14253-14256.	3.1	33
112	Hierarchical SnO ₂ Nanostructures: Linear Assembly of Nanorods on the Nanowire Backbones. <i>Journal of Physical Chemistry C</i> , 2010, 114, 1844-1848.	3.1	33
113	Structure and Photoluminescence of Pure and Indium-Doped ZnTe Microstructures. <i>Journal of Physical Chemistry C</i> , 2011, 115, 1415-1421.	3.1	33
114	Transport tuning of photonic topological edge states by optical cavities. <i>Physical Review A</i> , 2019, 99, .	2.5	33
115	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.	3.1	33
116	Stimulated emission from trapped excitons in SnO ₂ nanowires. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007, 39, 223-229.	2.7	32
117	Photoluminescence and Raman analysis of novel ZnO tetrapod and multipod nanostructures. <i>Applied Surface Science</i> , 2010, 256, 6814-6818.	6.1	32
118	Solution-Processed, Self-Powered Broadband CH ₃ NH ₃ PbI ₃ Photodetectors Driven by Asymmetric Electrodes. <i>Advanced Optical Materials</i> , 2020, 8, 2000215.	7.3	32
119	The effects of different interfacial environments on the optical nonlinearity of nanometer-sized CdO organosol. <i>Applied Physics Letters</i> , 1997, 71, 2097-2099.	3.3	31
120	Time-resolved spectroscopic behavior of Fe ₂ O ₃ and ZnFe ₂ O ₄ nanocrystals. <i>Journal of Chemical Physics</i> , 2004, 120, 3406-3413.	3.0	31
121	Pentacene-Based Photodetector in Visible Region With Vertical Field-Effect Transistor Configuration. <i>IEEE Photonics Technology Letters</i> , 2015, 27, 233-236.	2.5	31
122	Enhanced performance of solution-processed broadband photodiodes by epitaxially blending MAPbBr ₃ quantum dots and ternary PbS _x Se _{1-x} quantum dots as the active layer. <i>Nanotechnology</i> , 2017, 28, 505501.	2.6	30
123	High-performance solution-processed colloidal quantum dots-based tandem broadband photodetectors with dielectric interlayer. <i>Nanotechnology</i> , 2019, 30, 465203.	2.6	30
124	Ultra-sensitive solution-processed broadband photodetectors based on vertical field-effect transistor. <i>Nanotechnology</i> , 2020, 31, 105203.	2.6	30
125	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.	3.1	30
126	Growth of Oriented Zinc Oxide Nanowire Array into Novel Hierarchical Structures in Aqueous Solutions. <i>Journal of Physical Chemistry C</i> , 2008, 112, 17546-17553.	3.1	29

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127	Preparation of Fe ₃ O ₄ -Embedded Graphene Oxide for Removal of Methylene Blue. <i>Arabian Journal for Science and Engineering</i> , 2014, 39, 6679-6685.	1.1	29
128	Spin-exciton interaction and related micro-photoluminescence spectra of ZnSe:Mn DMS nanoribbon. <i>Nanotechnology</i> , 2017, 28, 105202.	2.6	29
129	Electrical properties and phase transition of CoFe ₂ O ₄ nanocrystals under pressure. <i>Journal of Applied Physics</i> , 2003, 93, 9983-9987.	2.5	28
130	Structure and stimulated emission of ZnSe nanoribbons grown by thermal evaporation. <i>Nanotechnology</i> , 2007, 18, 305705.	2.6	28
131	Phonon-assisted stimulated emission in Mn-doped ZnO nanowires. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 136206.	1.8	28
132	Synthesis of Mn-doped ZnS architectures in ternary solution and their optical properties. <i>Applied Surface Science</i> , 2011, 257, 10898-10902.	6.1	28
133	In-Plane Anisotropic Raman Response and Electrical Conductivity with Robust Electron-Photon and Electron-Phonon Interactions of Air Stable MoO ₂ Nanosheets. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2182-2190.	4.6	28
134	One dimensional ternary Cu-Bi-S based semiconductor nanowires: synthesis, optical and electrical properties. <i>Journal of Materials Chemistry</i> , 2012, 22, 17813.	6.7	27
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