

Bingsuo zou

List of Publications by Year in descending order

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355
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23500

58
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docs citations

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times ranked

15713
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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.	7.3	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.	11.1	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.	7.8	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.	4.0	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.	6.6	411
6	Tuning the Luminescence Properties of Colloidal $\text{In}^{\text{III}}\text{VI}$ Semiconductor Nanocrystals for Optoelectronics and Biotechnology Applications. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 3167-3175.	2.1	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.	1.2	349
8	A New Route to Zinc-Blende CdSe Nanocrystals: Mechanism and Synthesis. <i>Journal of Physical Chemistry B</i> , 2005, 109, 16671-16675.	1.2	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.	1.3	275
10	Highly Efficient Blue Emission from Self-Trapped Excitons in Stable Sb^{3+} -Doped $\text{Cs}_2\text{NaNCl}_6$ Double Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2053-2061.	2.1	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.	7.8	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.	7.3	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.	6.6	221
14	Optical Waveguide through CdS Nanoribbons. <i>Small</i> , 2005, 1, 980-983.	5.2	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.	4.5	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.	1.5	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.	3.2	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.	3.2	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.	1.2	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.	6.6	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.	2.8	145
22	Synthesis of Highly Emissive Mn-Doped ZnSe Nanocrystals without Pyrophoric Reagents. <i>Chemistry of Materials</i> , 2010, 22, 2107-2113.	3.2	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.	2.1	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.	3.2	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.	3.2	132
26	ZnO flowers made up of thin nanosheets and their optical properties. <i>Journal of Crystal Growth</i> , 2005, 282, 165-172.	0.7	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.	5.8	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.	2.1	127
29	Lasing Mechanism of ZnO Nanowires/Nanobelts at Room Temperature. <i>Journal of Physical Chemistry B</i> , 2006, 110, 12865-12873.	1.2	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.	1.8	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.	2.1	104
32	Facile synthesis and enhanced photocatalytic activity of hierarchical porous ZnO microspheres. <i>Materials Letters</i> , 2012, 66, 72-75.	1.3	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.	1.5	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.	1.2	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.	3.4	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.	15.6	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.	7.2	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.	4.0	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.	1.5	88
41	Aggregation-Induced Emission Features of Organometal Halide Perovskites and Their Fluorescence Probe Applications. <i>Advanced Optical Materials</i> , 2015, 3, 112-119.	3.6	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.	2.1	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.	8.2	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.	2.1	83
45	Broadband perovskite quantum dot spectrometer beyond human visual resolution. <i>Light: Science and Applications</i> , 2020, 9, 73.	7.7	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.	2.1	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.	2.1	76
48	Ultraviolet lasing and time-resolved photoluminescence of well-aligned ZnO nanorod arrays. <i>Applied Physics Letters</i> , 2005, 86, 223106.	1.5	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.	2.1	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.	6.6	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, .	7.8	69
52	Fabrication and photoluminescence of high-quality ternary CdSSe nanowires and nanoribbons. <i>Nanotechnology</i> , 2006, 17, 1083-1086.	1.3	67
53	Bound Exciton and Optical Properties of SnO ₂ One-Dimensional Nanostructures. <i>Journal of Physical Chemistry C</i> , 2009, 113, 1719-1726.	1.5	66
54	Color-Changeable Optical Transport through Se-Doped CdS 1D Nanostructures. <i>Nano Letters</i> , 2007, 7, 2970-2975.	4.5	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.	3.6	63
56	Lead-free Mn ^{II} -based red-emitting hybrid halide (CH ₃ N ₃) ₂ MnCl ₄ toward high performance warm WLEDs. <i>Journal of Materials Chemistry C</i> , 2021, 9, 4895-4902.	2.7	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.	4.0	63
58	Reversible Zn ²⁺ Insertion in Tungsten Ion-Activated Titanium Dioxide Nanocrystals for Electrochromic Windows. <i>Nano-Micro Letters</i> , 2021, 13, 196.	14.4	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.	1.5	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.	4.0	59
61	Si-CdSSe Core/Shell Nanowires with Continuously Tunable Light Emission. <i>Nano Letters</i> , 2008, 8, 3413-3417.	4.5	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.	3.2	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.	1.2	57
64	The optical properties of ZnO sheets electrodeposited on ITO glass. <i>Materials Letters</i> , 2007, 61, 2000-2003.	1.3	57
65	Tunable emission properties by ferromagnetic coupling Mn(II) aggregates in Mn-doped CdS microbelts/nanowires. <i>Nanotechnology</i> , 2014, 25, 385201.	1.3	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.	1.5	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.	1.2	56
68	Red emissive CuInS ₂ -based nanocrystals: a potential phosphor for warm white light-emitting diodes. <i>Optics Express</i> , 2013, 21, 10105.	1.7	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.	3.6	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, .	7.7	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.	14.4	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.	2.1	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.	3.5	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.	1.5	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.	4.0	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.	1.5	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.	2.7	49
78	Size effect on the electron-phonon coupling in CuO nanocrystals. <i>Nanotechnology</i> , 2006, 17, 1099-1103.	1.3	48
79	Ray-trace simulation of CuInS(Se) ₂ quantum dot based luminescent solar concentrators. <i>Optics Express</i> , 2015, 23, A858.	1.7	48
80	Bosonic Lasing from Collective Exciton Magnetic Polarons in Diluted Magnetic Nanowires and Nanobelts. <i>ACS Photonics</i> , 2016, 3, 1809-1817.	3.2	48
81	Single-Step Synthesis of Monolithic Comb-like CdS Nanostructures with Tunable Waveguide Properties. <i>Nano Letters</i> , 2013, 13, 2997-3001.	4.5	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> , 2017, 29, 1604284.	11.1	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.	1.5	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.	4.0	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.	1.9	45
86	Thermal Stability and Lasing of CdS Nanowires Coated by Amorphous Silica. <i>Small</i> , 2005, 1, 1058-1062.	5.2	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.	1.5	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.	1.3	45
89	Transition from Photoconductivity to Photovoltaic Effect in P3HT/CuInSe ₂ Composites. <i>Journal of Physical Chemistry C</i> , 2012, 116, 7280-7286.	1.5	43
90	Tunable Emission Properties of Manganese Chloride Small Single Crystals by Pyridine Incorporation. <i>ACS Omega</i> , 2019, 4, 8039-8045.	1.6	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.	2.8	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.	2.7	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.	1.5	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.	1.2	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.	1.7	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.	1.3	39
97	Solution-Processed PbSe Colloidal Quantum Dot-Based Near-Infrared Photodetector. <i>IEEE Photonics Technology Letters</i> , 2015, 27, 612-615.	1.3	39
98	Formation and optical properties of ZnO:ZnFe ₂ O ₄ superlattice microwires. <i>Nano Research</i> , 2010, 3, 326-338.	5.8	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.	1.7	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.	5.6	37
101	Synthesis of PbS microcrystals via a hydrothermal process. <i>Materials Letters</i> , 2006, 60, 1242-1246.	1.3	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.	6.6	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.	2.7	36
104	Synthesis, characterization and optical properties of star-like ZnO nanostructures. <i>Materials Letters</i> , 2010, 64, 898-900.	1.3	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.	8.8	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.	1.9	35
107	Transient biphotonic holographic grating in photoisomerizable azo materials. <i>Physical Review B</i> , 1998, 57, 3874-3880.	1.1	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.	1.9	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.	2.1	34
110	Efficient Yellow Self-Trapped Exciton Emission in Sb ³⁺ -Doped RbCdCl ₃ Metal Halides. <i>Inorganic Chemistry</i> , 2022, 61, 7143-7152.	1.9	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.	1.5	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.	1.5	33
113	Structure and Photoluminescence of Pure and Indium-Doped ZnTe Microstructures. <i>Journal of Physical Chemistry C</i> , 2011, 115, 1415-1421.	1.5	33
114	Transport tuning of photonic topological edge states by optical cavities. <i>Physical Review A</i> , 2019, 99, .	1.0	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.	1.5	33
116	Stimulated emission from trapped excitons in SnO ₂ nanowires. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007, 39, 223-229.	1.3	32
117	Photoluminescence and Raman analysis of novel ZnO tetrapod and multipod nanostructures. <i>Applied Surface Science</i> , 2010, 256, 6814-6818.	3.1	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.	3.6	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.	1.5	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.	1.2	31
121	Pentacene-Based Photodetector in Visible Region With Vertical Field-Effect Transistor Configuration. <i>IEEE Photonics Technology Letters</i> , 2015, 27, 233-236.	1.3	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.	1.3	30
123	High-performance solution-processed colloidal quantum dots-based tandem broadband photodetectors with dielectric interlayer. <i>Nanotechnology</i> , 2019, 30, 465203.	1.3	30
124	Ultra-sensitive solution-processed broadband photodetectors based on vertical field-effect transistor. <i>Nanotechnology</i> , 2020, 31, 105203.	1.3	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.	1.5	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.	1.5	29

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127	Preparation of Fe ₃ O ₄ -Embedded Graphene Oxide for Removal of Methylene Blue. Arabian Journal for Science and Engineering, 2014, 39, 6679-6685.	1.1	29
128	Spin-exciton interaction and related micro-photoluminescence spectra of ZnSe:Mn DMS nanoribbon. Nanotechnology, 2017, 28, 105202.	1.3	29
129	Electrical properties and phase transition of CoFe ₂ O ₄ nanocrystals under pressure. Journal of Applied Physics, 2003, 93, 9983-9987.	1.1	28
130	Structure and stimulated emission of ZnSe nanoribbons grown by thermal evaporation. Nanotechnology, 2007, 18, 305705.	1.3	28
131	Phonon-assisted stimulated emission in Mn-doped ZnO nanowires. Journal of Physics Condensed Matter, 2007, 19, 136206.	0.7	28
132	Synthesis of Mn-doped ZnS architectures in ternary solution and their optical properties. Applied Surface Science, 2011, 257, 10898-10902.	3.1	28
133	In-Plane Anisotropic Raman Response and Electrical Conductivity with Robust Electron-Photon and Electron-Phonon Interactions of Air Stable MoO ₂ Nanosheets. Journal of Physical Chemistry Letters, 2019, 10, 2182-2190.	2.1	28
134	One dimensional ternary Cu-Bi-S based semiconductor nanowires: synthesis, optical and electrical properties. Journal of Materials Chemistry, 2012, 22, 17813.	6.7	27
135	Transparent WO ₃ /Ag/WO ₃ electrode for flexible organic solar cells. Materials Letters, 2017, 188, 107-110.	1.3	27
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