Yuan Xiong

List of Publications by Year in descending order

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46 papers	2,788 citations	201674 27 h-index	233421 45 g-index
46 all docs	46 docs citations	46 times ranked	3967 citing authors

#	Article	IF	Citations
1	Molecular Fluorescence in Citric Acid-Based Carbon Dots. Journal of Physical Chemistry C, 2017, 121, 2014-2022.	3.1	517
2	Influence of molecular fluorophores on the research field of chemically synthesized carbon dots. Nano Today, 2018, 23, 124-139.	11.9	181
3	Hydrogen Peroxide Assisted Synthesis of Highly Luminescent Sulfur Quantum Dots. Angewandte Chemie - International Edition, 2019, 58, 7040-7044.	13.8	137
4	sp²â€“sp³-Hybridized Atomic Domains Determine Optical Features of Carbon Dots. ACS Nano, 2019, 13, 10737-10744.	14.6	136
5	Ruthenium(II) Complex Incorporated UiO-67 Metalâ€“Organic Framework Nanoparticles for Enhanced Two-Photon Fluorescence Imaging and Photodynamic Cancer Therapy. ACS Applied Materials & Interfaces, 2017, 9, 5699-5708.	8.0	129
6	Aggregated Molecular Fluorophores in the Ammonothermal Synthesis of Carbon Dots. Chemistry of Materials, 2017, 29, 10352-10361.	6.7	126
7	Revealing the Formation Mechanism of CsPbBr₃ Perovskite Nanocrystals Produced via a Slowedâ€Down Microwaveâ€Assisted Synthesis. Angewandte Chemie - International Edition, 2018, 57, 5833-5837.	13.8	109
8	Topâ€Down Fabrication of Stable Methylammonium Lead Halide Perovskite Nanocrystals by Employing a Mixture of Ligands as Coordinating Solvents. Angewandte Chemie - International Edition, 2017, 56, 9571-9576.	13.8	98
9	Light-permeable, photoluminescent microbatteries embedded in the color filter of a screen. Energy and Environmental Science, 2018, 11, 2414-2422.	30.8	97
10	Using Polar Alcohols for the Direct Synthesis of Cesium Lead Halide Perovskite Nanorods with Anisotropic Emission. ACS Nano, 2019, 13, 8237-8245.	14.6	84
11	Carbonization conditions influence the emission characteristics and the stability against photobleaching of nitrogen doped carbon dots. Nanoscale, 2017, 9, 11730-11738.	5.6	83
12	Carbon dots produced via space-confined vacuum heating: maintaining efficient luminescence in both dispersed and aggregated states. Nanoscale Horizons, 2019, 4, 388-395.	8.0	82
13	Energy Level Modification with Carbon Dot Interlayers Enables Efficient Perovskite Solar Cells and Quantum Dot Based Lightâ€Emitting Diodes. Advanced Functional Materials, 2020, 30, 1910530.	14.9	72
14	Aromatically C6- and C9-Substituted Phenanthro[9,10-d]imidazole Blue Fluorophores: Structureâ€“Property Relationship and Electroluminescent Application. ACS Applied Materials & Interfaces, 2017, 9, 26268-26278.	8.0	69
15	Organic nanostructures of thermally activated delayed fluorescent emitters with enhanced intersystem crossing as novel metal-free photosensitizers. Chemical Communications, 2016, 52, 11744-11747.	4.1	68
16	Rare earth-free composites of carbon dots/metalâ€“organic frameworks as white light emitting phosphors. Journal of Materials Chemistry C, 2019, 7, 2207-2211.	5.5	68
17	Deepâ€Red/Nearâ€Infrared Electroluminescence from Singleâ€Component Chargeâ€Transfer Complex via Thermally Activated Delayed Fluorescence Channel. Advanced Functional Materials, 2019, 29, 1903112.	14.9	59
18	In Situ Fabrication of Flexible, Thermally Stable, Large-Area, Strongly Luminescent Copper Nanocluster/Polymer Composite Films. Chemistry of Materials, 2017, 29, 10206-10211.	6.7	58

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19	Twoâ€Step Oxidation Synthesis of Sulfur with a Red Aggregationâ€Induced Emission. Angewandte Chemie - International Edition, 2020, 59, 9997-10002.	13.8	57
20	Waterâ€Soluble Biocompatible Copolymer Hypromellose Grafted Chitosan Able to Load Exogenous Agents and Copper Nanoclusters with Aggregationâ€Induced Emission. Advanced Functional Materials, 2018, 28, 1802848.	14.9	48
21	Reversible transformation between CsPbBr₃ and Cs₄PbBr₆ nanocrystals. CrystEngComm, 2018, 20, 4900-4904.	2.6	48
22	Deepâ€Blue OLEDs with Rec.2020 Blue Gamut Compliance and EQE Over 22% Achieved by Conformation Engineering. Advanced Materials, 2022, 34, e2200537.	21.0	46
23	Iron Self-Boosting Polymer Nanoenzyme for Low-Temperature Photothermal-Enhanced Ferrotherapy. ACS Applied Materials & Interfaces, 2021, 13, 30274-30283.	8.0	35
24	Incorporating Copper Nanoclusters into Metalâ€Organic Frameworks: Confinementâ€Assisted Emission Enhancement and Application for Trinitrotoluene Detection. Particle and Particle Systems Characterization, 2017, 34, 1700029.	2.3	32
25	Topâ€Down Fabrication of Stable Methylammonium Lead Halide Perovskite Nanocrystals by Employing a Mixture of Ligands as Coordinating Solvents. Angewandte Chemie, 2017, 129, 9699-9704.	2.0	31
26	Chemically Synthesized Carbon Nanorods with Dual Polarized Emission. ACS Nano, 2019, 13, 12024-12031.	14.6	31
27	Incorporating copper nanoclusters into a zeolitic imidazole framework-90 for use as a highly sensitive adenosine triphosphate sensing system to evaluate the freshness of aquatic products. Sensors and Actuators B: Chemical, 2020, 308, 127720.	7.8	31
28	Hydrogen Peroxide Assisted Synthesis of Highly Luminescent Sulfur Quantum Dots. Angewandte Chemie, 2019, 131, 7114-7118.	2.0	29
29	Room Temperature Synthesis of HgTe Quantum Dots in an Aprotic Solvent Realizing High Photoluminescence Quantum Yields in the Infrared. Chemistry of Materials, 2017, 29, 7859-7867.	6.7	27
30	Strongly Luminescent Dionâ€“Jacobson Tin Bromide Perovskite Microcrystals Induced by Molecular Proton Donors Chloroform and Dichloromethane. Advanced Functional Materials, 2021, 31, 2102182.	14.9	24
31	A Building Brick Principle to Create Transparent Composite Films with Multicolor Emission and Selfâ€Healing Function. Small, 2018, 14, e1800315.	10.0	21
32	Broad-Band Photodetectors Based on Copper Indium Diselenide Quantum Dots in a Methylammonium Lead Iodide Perovskite Matrix. ACS Applied Materials & Interfaces, 2020, 12, 35201-35210.	8.0	21
33	Copperâ€Nanoclusterâ€Based Transparent Ultravioletâ€Shielding Polymer Films. ChemNanoMat, 2019, 5, 110-115.	2.8	18
34	Growth of Multinary Copper-Based Sulfide Shells on CuInSe₂ Nanocrystals for Significant Improvement of Their Near-Infrared Emission. Chemistry of Materials, 2020, 32, 7842-7849.	6.7	15
35	Strongly Luminescent Composites Based on Carbon Dots Embedded in a Nanoporous Silicate Glass. Nanomaterials, 2020, 10, 1063.	4.1	15
36	Aqueous-Based Cadmium Telluride Quantum Dot/Polyurethane/Polyhedral Oligomeric Silsesquioxane Composites for Color Enhancement in Display Backlights. Journal of Physical Chemistry C, 2018, 122, 13391-13398.	3.1	12

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37	Revealing the Formation Mechanism of CsPbBr₃ Perovskite Nanocrystals Produced via a Slowedâ€Down Microwaveâ€Assisted Synthesis. Angewandte Chemie, 2018, 130, 5935-5939.	2.0	12
38	Phase-Dependent Shell Growth and Optical Properties of ZnSe/ZnS Core/Shell Nanorods. Chemistry of Materials, 2021, 33, 3413-3427.	6.7	12
39	Ligand-assisted reduction and reprecipitation synthesis of highly luminescent metal nanoclusters. Nanoscale Advances, 2019, 1, 834-839.	4.6	11
40	Chargeâ€Transfer Complexes: Deepâ€Red/Nearâ€Infrared Electroluminescence from Singleâ€Component Chargeâ€Transfer Complex via Thermally Activated Delayed Fluorescence Channel (Adv. Funct. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 T	14.9	9
41	Twoâ€Step Oxidation Synthesis of Sulfur with a Red Aggregationâ€Induced Emission. Angewandte Chemie, 2020, 132, 10083-10088.	2.0	8
42	Highly Luminescent Solidâ€State Carbon Dots Embedded in a Boric Acid Matrix. ChemistrySelect, 2020, 5, 13969-13973.	1.5	8
43	Identification of Molecular Fluorophore as a Component of Carbon Dots able to Induce Gelation in a Fluorescent Multivalent-Metal-Ion-Free Alginate Hydrogel. Scientific Reports, 2019, 9, 15080.	3.3	7
44	Composite Nanospheres Comprising Luminescent Carbon Dots Incorporated into a Polyhedral Oligomeric Silsesquioxane Matrix. Journal of Physical Chemistry C, 2021, 125, 15094-15102.	3.1	4
45	Constructing a Spectral Down Converter to Enhance Cu(In,Ga)Se₂ Solar Cell Performance Using Yttrium Aluminum Garnet:Ce³⁺ Ceramics. Solar Rrl, 2020, 4, 1900518.	5.8	3
46	Chemical Sensing: Incorporating Copper Nanoclusters into Metalâ€Organic Frameworks: Confinementâ€Assisted Emission Enhancement and Application for Trinitrotoluene Detection (Part.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.3	0