Ren-Guo Xie

List of Publications by Year
in descending order

44 papers	4,578 citations	257450 24 h-index	223800 46 g-index
47 all docs	47 docs citations	47 times ranked	5788 citing authors

#	Article	IF	Citations
1	Synthesis and Characterization of Highly Luminescent CdSeâˆ'Core CdS/Zn0.5Cd0.5S/ZnS Multishell Nanocrystals. Journal of the American Chemical Society, 2005, 127, 7480-7488.	13.7	857
2	Formation of High-Quality Iâˆ'IIIâˆ'VI Semiconductor Nanocrystals by Tuning Relative Reactivity of Cationic Precursors. Journal of the American Chemical Society, 2009, 131, 5691-5697.	13.7	715
3	Colloidal InP Nanocrystals as Efficient Emitters Covering Blue to Near-Infrared. Journal of the American Chemical Society, 2007, 129, 15432-15433.	13.7	454
4	Synthesis of Cu-Doped InP Nanocrystals (d-dots) with ZnSe Diffusion Barrier as Efficient and Color-Tunable NIR Emitters. Journal of the American Chemical Society, 2009, 131, 10645-10651.	13.7	311
5	Surface Ligand Dynamics in Growth of Nanocrystals. Journal of the American Chemical Society, 2007, 129, 9500-9509.	13.7	274
6	A Simple Route for Highly Luminescent Quaternary Cu-Zn-In-S Nanocrystal Emitters. Chemistry of Materials, 2011, 23, 3357-3361.	6.7	229
7	Nucleation Kinetics vs Chemical Kinetics in the Initial Formation of Semiconductor Nanocrystals. Journal of the American Chemical Society, 2009, 131, 15457-15466.	13.7	179
8	Synthesis of Highly Emissive Mn-Doped ZnSe Nanocrystals without Pyrophoric Reagents. Chemistry of Materials, 2010, 22, 2107-2113.	6.7	144
9	Synthetic Scheme for Highâ€Quality InAs Nanocrystals Based on Selfâ€Focusing and Oneâ€Pot Synthesis of InAsâ€Based Coreâ€“Shell Nanocrystals. Angewandte Chemie - International Edition, 2008, 47, 7677-7680.	13.8	130
10	Syntheses and Characterization of Nearly Monodispersed, Size-Tunable Silver Nanoparticles over a Wide Size Range of 7â€“200 nm by Tannic Acid Reduction. Langmuir, 2014, 30, 3876-3882.	3.5	112
11	Dotâ€“Wireâ€“Plateletâ€“Cube: Step Growth and Structural Transformations in CsPbBr₃ Perovskite Nanocrystals. ACS Energy Letters, 2018, 3, 2014-2020.	17.4	106
12	InAs/InP/ZnSe core/shell/shell quantum dots as near-infrared emitters: Bright, narrow-band, non-cadmium containing, and biocompatible. Nano Research, 2008, 1, 457-464.	10.4	103
13	Non-injection gram-scale synthesis of cesium lead halide perovskite quantum dots with controllable size and composition. Nano Research, 2016, 9, 1994-2006.	10.4	93
14	Dual Emissive Cu:InP/ZnS/InP/ZnS Nanocrystals: Single-Source â€œGreenerâ€•Emitters with Flexibly Tunable Emission from Visible to Near-Infrared and Their Application in White Light-Emitting Diodes. Chemistry of Materials, 2015, 27, 1405-1411.	6.7	90
15	Arm Growth and Facet Modulation in Perovskite Nanocrystals. Journal of the American Chemical Society, 2019, 141, 16160-16168.	13.7	84
16	Design and Synthesis of Colloidal Nanocrystal Heterostructures with Tetrapod Morphology. Small, 2006, 2, 1454-1457.	10.0	76
17	Aqueous Synthesis of ZnSe Nanocrystals by Using Glutathione As Ligand: The pH-Mediated Coordination of Zn²⁺ with Glutathione. Journal of Physical Chemistry C, 2010, 114, 11087-11091.	3.1	69
18	Colloidal preparation and electrocatalytic hydrogen production of MoS2and WS2nanosheets with controllable lateral sizes and layer numbers. Nanoscale, 2016, 8, 15262-15272.	5.6	64

#	Article	IF	Citations
19	Lightâ€Emitting Metalâ€“Organic Halide 1D and 2D Structures: Nearâ€Unity Quantum Efficiency, Lowâ€Loss Optical Waveguide and Highly Polarized Emission. Angewandte Chemie - International Edition, 2021, 60, 13548-13553.	13.8	50
20	Synthesis of Monodisperse, Highly Emissive, and Size-Tunable Cd3P2 Nanocrystals. Chemistry of Materials, 2010, 22, 3820-3822.	6.7	47
21	Large-scale synthesis of single-source, thermally stable, and dual-emissive Mn-doped Znâ€“Cuâ€“Inâ€“S nanocrystals for bright white light-emitting diodes. Nano Research, 2015, 8, 3316-3331.	10.4	46
22	Color Tunable Selfâ€Trapped Emissions from Leadâ€Free All Inorganic IAâ€IB Bimetallic Halides Csâ€Agâ€X (X = Cl,) Tj ETQq0 0 0 rgBT /(	10.0	44
23	Synthesis of Cuâ€“Sbâ€“S nanocrystals: insight into the mechanism of composition and crystal phase selection. CrystEngComm, 2016, 18, 3703-3710.	2.6	29
24	A Rapid Detection Method of Brucella with Quantum Dots and Magnetic Beads Conjugated with Different Polyclonal Antibodies. Nanoscale Research Letters, 2017, 12, 179.	5.7	28
25	Single-phase dual emissive Cu:CdSâ€“ZnSe coreâ€“shell nanocrystals with â€œzero self-absorptionâ€•and their application in white light emitting diodes. Journal of Materials Chemistry C, 2015, 3, 3614-3622.	5.5	23
26	Zinc Chalcogenide Seed-Mediated Synthesis of CdSe Nanocrystals: Nails, Chesses and Tetrahedrons. Chemistry of Materials, 2015, 27, 3055-3064.	6.7	20
27	Insights into the Energy Levels of Semiconductor Nanocrystals by a Dopant Approach. Angewandte Chemie - International Edition, 2013, 52, 5052-5055.	13.8	19
28	Electrochemiluminescent quaternary Cu-Zn-In-S nanocrystals as a sensing platform: Enzyme-free and sensitive detection of the FLT3 gene based on triple signal amplification. Biosensors and Bioelectronics, 2018, 100, 445-452.	10.1	18
29	Large Scale Synthesis of Air Stable Precursors for the Preparation of High Quality Metal Arsenide and Phosphide Nanocrystals as Efficient Emitters Covering the Visible to Near Infrared Region. Chemistry of Materials, 2014, 26, 3599-3602.	6.7	16
30	Ultrafast Carrier Dynamics and Hot Electron Extraction in Tetrapod-Shaped CdSe Nanocrystals. ACS Applied Materials & Interfaces, 2015, 7, 7938-7944.	8.0	14
31	Ultra-small nickel phosphide nanoparticles as a high-performance electrocatalyst for the hydrogen evolution reaction. RSC Advances, 2016, 6, 74895-74902.	3.6	12
32	Zero-dimensional plate-shaped copper halide crystals with green-yellow emissions. Materials Advances, 2021, 2, 3744-3751.	5.4	12
33	Shape Control of Ternary Sulfide Nanocrystals. Crystal Growth and Design, 2018, 18, 864-871.	3.0	11
34	Bioinspired, Nanostructure-Amplified, Subcutaneous Light Harvesting to Power Implantable Biomedical Electronics. ACS Nano, 2021, 15, 12475-12482.	14.6	11
35	Bandgapâ€•and Radialâ€Positionâ€Dependent Mnâ€Doped Znâ€“Cuâ€“Inâ€“S/ZnS Core/Shell Nanocrystals. ChemPhysChem, 2016, 17, 752-758.	2.1	10
36	Phaseâ€Controlled Synthesis of Highâ€Biâ€Ratio Ternary Sulfide Nanocrystals of Cu_{1.57}Bi_{4.57}S₈ and Cu_{2.93}Bi_{4.89}S₉. ChemPlusChem, 2018, 83, 812-818.	2.8	9

#	Article	IF	Citations
37	Synthesis, Crystal Structure and Antitumor Activities of a New Cobalt-containing Tungstoantimonate Na₉[{Na(H₂O)₂}₃{Co(H₂O)}₃(Î±-B-Sb₂W₁₈O₉C Journal of Macromolecular Science - Pure and Applied Chemistry, 2014, 51, 33-36.		
38	Bovine serum albumin assisted preparation of ultra-stable gold nanoflowers and their selective Raman response to charged dyes. RSC Advances, 2019, 9, 28228-28233.	3.6	7
39	Histidine-directed formation of nearly monodispersed silver nanoflowers and their ultra-high peroxidase-like activity under physiological pH. Applied Surface Science, 2020, 532, 147457.	6.1	7
40	Doped Emitting Cesium Silver Halides as Xâ€Ray Scintillator with Fast Response Time, High Absorption Coefficient, and Light Yield. Advanced Photonics Research, 2021, 2, 2100066.	3.6	7
41	Lightâ€Emitting Metalâ€“Organic Halide 1D and 2D Structures: Nearâ€Unity Quantum Efficiency, Lowâ€Loss Optical Waveguide and Highly Polarized Emission. Angewandte Chemie, 2021, 133, 13660-13665.	2.0	5
42	Greener Gd-doped ZnAgInS3 quantum dots for fluorescent and magnetic resonance imaging applications. Chemical Research in Chinese Universities, 2015, 31, 1-3.	2.6	4
43	Cdâ€“Cuâ€“Feâ€“S quaternary nanocrystals exhibiting excellent optical/optoelectronic properties. Nanoscale, 2019, 11, 6533-6537.	5.6	3
44	Histidine-directed formation of Ag octopods via pseudomorphic transformation of Ag2O. Materials Chemistry Frontiers, 2021, 5, 5478-5485.	5.9	0