

Ou Chen

List of Publications by Year in descending order

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88
papers

9,121
citations

53751

45
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45285

90
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93
all docs

93
docs citations

93
times ranked

13097
citing authors

#	ARTICLE	IF	CITATIONS
1	Compact high-quality CdSe/CdS core-shell nanocrystals with narrow emission linewidths and suppressed blinking. <i>Nature Materials</i> , 2013, 12, 445-451.	13.3	1,168
2	Normalization of tumour blood vessels improves the delivery of nanomedicines in a size-dependent manner. <i>Nature Nanotechnology</i> , 2012, 7, 383-388.	15.6	928
3	Next-generation in vivo optical imaging with short-wave infrared quantum dots. <i>Nature Biomedical Engineering</i> , 2017, 1, .	11.6	490
4	Fluorescent Nanorods and Nanospheres for Real-Time In Vivo Probing of Nanoparticle Shape-Dependent Tumor Penetration. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11417-11420.	7.2	399
5	Exceedingly small iron oxide nanoparticles as positive MRI contrast agents. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 2325-2330.	3.3	374
6	Self-Assembled Colloidal Superparticles from Nanorods. <i>Science</i> , 2012, 338, 358-363.	6.0	332
7	Radial-Position-Controlled Doping in CdS/ZnS Core/Shell Nanocrystals. <i>Journal of the American Chemical Society</i> , 2006, 128, 12428-12429.	6.6	297
8	Nanocube Superlattices of Cesium Lead Bromide Perovskites and Pressure-Induced Phase Transformations at Atomic and Mesoscale Levels. <i>Advanced Materials</i> , 2017, 29, 1606666.	11.1	238
9	Magneto-fluorescent core-shell supernanoparticles. <i>Nature Communications</i> , 2014, 5, 5093.	5.8	223
10	Continuous injection synthesis of indium arsenide quantum dots emissive in the short-wavelength infrared. <i>Nature Communications</i> , 2016, 7, 12749.	5.8	209
11	Synthesis of Metal-Selenide Nanocrystals Using Selenium Dioxide as the Selenium Precursor. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 8638-8641.	7.2	195
12	Yb- and Mn-Doped Lead-Free Double Perovskite Cs ₂ AgBiX ₆ (X = Cl, Br, I) Double Perovskite Nanoplatelets and Their Application in CO ₂ Photocatalytic Reduction. <i>Nature Communications</i> , 2017, 8, 14019.	4.0	190
13	On Doping CdS/ZnS Core/Shell Nanocrystals with Mn. <i>Journal of the American Chemical Society</i> , 2008, 130, 15649-15661.	6.6	168
14	Shortwave Infrared in Vivo Imaging with Gold Nanoclusters. <i>Nano Letters</i> , 2017, 17, 6330-6334.	4.5	149
15	Superstructures generated from truncated tetrahedral quantum dots. <i>Nature</i> , 2018, 561, 378-382.	13.7	143
16	Synthesis of Lead-Free Cs ₂ AgBiX ₆ (X = Cl, Br, I) Double Perovskite Nanoplatelets and Their Application in CO ₂ Photocatalytic Reduction. <i>Nano Letters</i> , 2021, 21, 1620-1627.	4.5	140
17	Evolution of the Single-Nanocrystal Photoluminescence Linewidth with Size and Shell: Implications for Exciton-Phonon Coupling and the Optimization of Spectral Linewidths. <i>Nano Letters</i> , 2016, 16, 289-296.	4.5	133
18	Lead-Free Cs ₄ CuSb ₂ Cl ₁₂ Layered Double Perovskite Nanocrystals. <i>Journal of the American Chemical Society</i> , 2020, 142, 11927-11936.	6.6	131

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19	Direct probe of spectral inhomogeneity reveals synthetic tunability of single-nanocrystal spectral linewidths. <i>Nature Chemistry</i> , 2013, 5, 602-606.	6.6	130
20	Lipolysis Triggers a Systemic Insulin Response Essential for Efficient Energy Replenishment of Activated Brown Adipose Tissue in Mice. <i>Cell Metabolism</i> , 2018, 28, 644-655.e4.	7.2	129
21	Surface-Functionalization-Dependent Optical Properties of II-VI Semiconductor Nanocrystals. <i>Journal of the American Chemical Society</i> , 2011, 133, 17504-17512.	6.6	121
22	Synthesis of formamidinium lead halide perovskite nanocrystals through solid-liquid-solid cation exchange. <i>Journal of Materials Chemistry C</i> , 2017, 5, 5680-5684.	2.7	113
23	Recent Advances in Ligand Design and Engineering in Lead Halide Perovskite Nanocrystals. <i>Advanced Science</i> , 2021, 8, 2100214.	5.6	109
24	Optical Trapping and Two-Photon Excitation of Colloidal Quantum Dots Using Bowtie Apertures. <i>ACS Photonics</i> , 2016, 3, 423-427.	3.2	107
25	Mn ²⁺ /Yb ³⁺ Codoped CsPbCl ₃ Perovskite Nanocrystals with Triple-Wavelength Emission for Luminescent Solar Concentrators. <i>Advanced Science</i> , 2020, 7, 2001317.	5.6	105
26	Pure colors from core-shell quantum dots. <i>MRS Bulletin</i> , 2013, 38, 696-702.	1.7	99
27	Cylindrical Superparticles from Semiconductor Nanorods. <i>Journal of the American Chemical Society</i> , 2009, 131, 6084-6085.	6.6	93
28	Synthesis of All-Inorganic Cd-Doped CsPbCl ₃ Perovskite Nanocrystals with Dual-Wavelength Emission. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 7079-7084.	2.1	92
29	Strain Effect in Palladium Nanostructures as Nanozymes. <i>Nano Letters</i> , 2020, 20, 272-277.	4.5	85
30	Excitation-Intensity-Dependent Color-Tunable Dual Emissions from Manganese-Doped CdS/ZnS Core/Shell Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 10132-10135.	7.2	82
31	Quantum-Dot-Induced Cesium-Rich Surface Imparts Enhanced Stability to Formamidinium Lead Iodide Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2019, 4, 1970-1975.	8.8	82
32	Biexciton Quantum Yield Heterogeneities in Single CdSe (CdS) Core (Shell) Nanocrystals and Its Correlation to Exciton Blinking. <i>Nano Letters</i> , 2012, 12, 4477-4483.	4.5	81
33	Single-component quasicrystalline nanocrystal superlattices through flexible polygon tiling rule. <i>Science</i> , 2018, 362, 1396-1400.	6.0	79
34	Synthesis and transformation of zero-dimensional Cs ₃ BiX ₆ (X = Cl, Br) perovskite-analogue nanocrystals. <i>Nano Research</i> , 2020, 13, 282-291.	5.8	79
35	Pressure-Induced Phase Transformation and Band-Gap Engineering of Formamidinium Lead Iodide Perovskite Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4199-4205.	2.1	78
36	Structural Control of Nanocrystal Superlattices Using Organic Guest Molecules. <i>Journal of the American Chemical Society</i> , 2012, 134, 2868-2871.	6.6	76

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37	Stereoselective C ⁺ C Oxidative Coupling Reactions Photocatalyzed by Zwitterionic Ligand Capped CsPbBr ₃ Perovskite Quantum Dots. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 22563-22569.	7.2	73
38	Formation of Heterodimer Nanocrystals: UO ₂ /In ₂ O ₃ and FePt/In ₂ O ₃ . <i>Journal of the American Chemical Society</i> , 2011, 133, 14327-14337.	6.6	70
39	Pressure-Enabled Synthesis of Hetero-Dimers and Hetero-Rods through Intraparticle Coalescence and Interparticle Fusion of Quantum-Dot-Au Satellite Nanocrystals. <i>Journal of the American Chemical Society</i> , 2017, 139, 8408-8411.	6.6	62
40	Monodisperse Hexagonal Pyramidal and Bipyramidal Wurtzite CdSe-CdS Core-Shell Nanocrystals. <i>Chemistry of Materials</i> , 2017, 29, 4097-4108.	3.2	59
41	Integrating <i>in situ</i> high pressure small and wide angle synchrotron x-ray scattering for exploiting new physics of nanoparticle supercrystals. <i>Review of Scientific Instruments</i> , 2010, 81, 093902.	0.6	57
42	Multi-component superstructures self-assembled from nanocrystal building blocks. <i>Nanoscale</i> , 2016, 8, 9944-9961.	2.8	49
43	Controlling Nanoparticle Orientations in the Self-Assembly of Patchy Quantum Dot-Gold Heterostructural Nanocrystals. <i>Journal of the American Chemical Society</i> , 2019, 141, 6013-6021.	6.6	49
44	Competing Interactions between Various Entropic Forces toward Assembly of Pt ₃ Ni Octahedra into a Body-Centered Cubic Superlattice. <i>Nano Letters</i> , 2016, 16, 2792-2799.	4.5	48
45	Lysosomal lipoprotein processing in endothelial cells stimulates adipose tissue thermogenic adaptation. <i>Cell Metabolism</i> , 2021, 33, 547-564.e7.	7.2	48
46	Quantum Dot Photocatalysts for Organic Transformations. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 7180-7193.	2.1	48
47	Ligand Engineering for Mn ²⁺ Doping Control in CsPbCl ₃ Perovskite Nanocrystals via a Quasi-Solid-Solid Cation Exchange Reaction. <i>Chemistry of Materials</i> , 2020, 32, 2489-2500.	3.2	46
48	Fusing Nanowires into Thin Films: Fabrication of Graded Heterojunction Perovskite Solar Cells with Enhanced Performance. <i>Advanced Energy Materials</i> , 2019, 9, 1900243.	10.2	45
49	Three-dimensional atomic packing in amorphous solids with liquid-like structure. <i>Nature Materials</i> , 2022, 21, 95-102.	13.3	44
50	The effects of monovalent metal cations on the crystal and electronic structures of Cs ₂ MBiCl ₆ (M = Tl, Ag, Cu, Au, Hg, Pb, Bi, Sb, Sn, Te, Se, S, Te, Se, S). <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 1120-1127.	1.2	43
51	Structural distortion and electron redistribution in dual-emitting gold nanoclusters. <i>Nature Communications</i> , 2020, 11, 2897.	5.8	42
52	Cu-Catalyzed Synthesis of CdZnSe/CdZnS Alloy Quantum Dots with Highly Tunable Emission. <i>Chemistry of Materials</i> , 2019, 31, 2635-2643.	3.2	41
53	Building bridges between halide perovskite nanocrystals and thin-film solar cells. <i>Sustainable Energy and Fuels</i> , 2018, 2, 2381-2397.	2.5	37
54	An experimental and theoretical mechanistic study of biexciton quantum yield enhancement in single quantum dots near gold nanoparticles. <i>Nanoscale</i> , 2015, 7, 6851-6858.	2.8	33

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55	Locating and classifying fluorescent tags behind turbid layers using time-resolved inversion. <i>Nature Communications</i> , 2015, 6, 6796.	5.8	33
56	Synthesis of lead-free Cs ₄ (Cd _{1-x} Mn _x)Bi ₂ Cl ₁₂ (0 ≤ x ≤ 1) layered double perovskite nanocrystals with controlled Mn-Mn coupling interaction. <i>Nanoscale</i> , 2020, 12, 23191-23199.	2.8	31
57	Three-dimensional macroporous photonic crystal enhanced photon collection for quantum dot-based luminescent solar concentrator. <i>Nano Energy</i> , 2020, 67, 104217.	8.2	29
58	A Ligand System for the Flexible Functionalization of Quantum Dots via Click Chemistry. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4652-4656.	7.2	28
59	The correlation between phase transition and photoluminescence properties of CsPbX ₃ (X = Cl, Br, I) quantum dots. <i>Nanoscale</i> , 2020, 12, 7843-7851.	2.2	27
60	Self-Assembly of Quantum Dot-Gold Heterodimer Nanocrystals with Orientational Order. <i>Nano Letters</i> , 2018, 18, 5049-5056.	4.5	25
61	Stable, small, specific, low-valency quantum dots for single-molecule imaging. <i>Nanoscale</i> , 2018, 10, 4406-4414.	2.8	20
62	A Divide-and-Conquer Strategy for Quantification of Light Absorption, Scattering, and Emission Properties of Fluorescent Nanomaterials in Solutions. <i>Analytical Chemistry</i> , 2019, 91, 8540-8548.	3.2	20
63	Ultrafast cation doping of perovskite quantum dots in flow. <i>Matter</i> , 2021, 4, 2429-2447.	5.0	20
64	Colloidal synthesis and charge carrier dynamics of Cs ₄ Cd _{1-x} Cu _x Sb ₂ Cl ₁₂ (0 ≤ x ≤ 1) layered double perovskite nanocrystals. <i>Matter</i> , 2021, 4, 2936-2952.	5.0	20
65	Monolayer Silane-Coated, Water-Soluble Quantum Dots. <i>Small</i> , 2015, 11, 6091-6096.	5.2	19
66	Introducing Manganese-Doped Lead Halide Perovskite Quantum Dots: A Simple Synthesis Illustrating Optoelectronic Properties of Semiconductors. <i>Journal of Chemical Education</i> , 2019, 96, 2300-2307.	1.1	18
67	Colloidal Assembly of Au-Quantum Dot-Au Sandwiched Nanostructures with Strong Plasmon-Exciton Coupling. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2449-2456.	2.1	18
68	Thick-Shell CdSe/ZnS/CdZnS/ZnS Core/Shell Quantum Dots for Quantitative Immunoassays. <i>ACS Applied Nano Materials</i> , 2021, 4, 2855-2865.	2.4	17
69	Excitation wavelength dependent photon anti-bunching/bunching from single quantum dots near gold nanostructures. <i>Nanoscale</i> , 2018, 10, 1038-1046.	2.8	16
70	Stereoselective C-C Oxidative Coupling Reactions Photocatalyzed by Zwitterionic Ligand Capped CsPbBr ₃ Perovskite Quantum Dots. <i>Angewandte Chemie</i> , 2020, 132, 22752-22758.	1.6	16
71	Carrier Transport Dynamics in High Speed Black Phosphorus Photodetectors. <i>ACS Photonics</i> , 2018, 5, 1412-1417.	3.2	15
72	Crystalline Mesoporous Complex Oxides: Porosity-Controlled Electromagnetic Response. <i>Advanced Functional Materials</i> , 2020, 30, 1909491.	7.8	15

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73	Reversible Photo-Switching of Dual-Color Fluorescent Mn-Doped CdS-ZnS Quantum Dots Modulated by Diarylethene Molecules. <i>Frontiers in Chemistry</i> , 2019, 7, 145.	1.8	13
74	Quantification of the Photon Absorption, Scattering, and On-Resonance Emission Properties of CdSe/CdS Core/Shell Quantum Dots: Effect of Shell Geometry and Volumes. <i>Analytical Chemistry</i> , 2020, 92, 5346-5353.	3.2	13
75	Synthesis of Ultrathin Perovskite Nanowires via a Postsynthetic Transformation Reaction of Zero-Dimensional Perovskite Nanocrystals. <i>Crystal Growth and Design</i> , 2021, 21, 1924-1930.	1.4	13
76	Synthesis of Water-Soluble 2,2'-Diphenyl-1-Picrylhydrazyl Nanoparticles: A New Standard for Electron Paramagnetic Resonance Spectroscopy. <i>Journal of the American Chemical Society</i> , 2009, 131, 12542-12543.	6.6	12
77	Reactive two-component monolayers template bottom-up assembly of nanoparticle arrays on HOPG. <i>Chemical Communications</i> , 2018, 54, 8056-8059.	2.2	12
78	Synthesis of double perovskite and quadruple perovskite nanocrystals through post-synthetic transformation reactions. <i>Chemical Science</i> , 2022, 13, 4874-4883.	3.7	12
79	Pressure-Induced Transformations of Three-Component Heterostructural Nanocrystals with CdSe/Au ₂ S Janus Nanoparticles as Hosts and Small Au Nanoparticles as Satellites. <i>ACS Applied Nano Materials</i> , 2019, 2, 6804-6808.	2.4	11
80	Bulk Grain-Boundary Materials from Nanocrystals. <i>CheM</i> , 2021, 7, 509-525.	5.8	10
81	A Ligand System for the Flexible Functionalization of Quantum Dots via Click Chemistry. <i>Angewandte Chemie</i> , 2018, 130, 4742-4746.	1.6	7
82	Manipulating Charge Transfer from Core to Shell in CdSe/CdS/Au Heterojunction Quantum Dots. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 48551-48555.	4.0	7
83	Brightening of Dark States in CsPbBr ₃ Quantum Dots Caused by Light-Induced Magnetism. <i>Small</i> , 2021, 17, e2101527.	5.2	5
84	Influence of local structures on the energy transfer efficiencies of quantum-dot films. <i>Physical Review B</i> , 2020, 102, .	1.1	3
85	Excitation wavelength-dependent photoluminescence decay of single quantum dots near plasmonic gold nanoparticles. <i>Journal of Chemical Physics</i> , 2022, 156, 154701.	1.2	3
86	Fast Lifetime Blinking in Compact CdSe/CdS Core/Shell Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2021, 125, 15433-15440.	1.5	2
87	New insights to the interactions between amorphous georgite pigment and linseed oil binder that lead to a drastic color change. <i>Inorganica Chimica Acta</i> , 2022, 529, 120661.	1.2	2
88	Editorial: Metal and Semiconductor Nanocrystals. <i>Frontiers in Chemistry</i> , 2019, 7, 310.	1.8	0