Ou Chen

List of Publications by Year
in descending order

88 papers	9,121 citations	53794 45 h-index	45317 90 g-index
93 all docs	93 docs citations	93 times ranked	13097 citing authors

#	Article	IF	Citations
1	Three-dimensional atomic packing in amorphous solids with liquid-like structure. Nature Materials, 2022, 21, 95-102.	27.5	44
2	New insights to the interactions between amorphous georgite pigment and linseed oil binder that lead to a drastic color change. Inorganica Chimica Acta, 2022, 529, 120661.	2.4	2
3	Synthesis of double perovskite and quadruple perovskite nanocrystals through post-synthetic transformation reactions. Chemical Science, 2022, 13, 4874-4883.	7.4	12
4	Excitation wavelength-dependent photoluminescence decay of single quantum dots near plasmonic gold nanoparticles. Journal of Chemical Physics, 2022, 156, 154701.	3.0	3
5	Bulk Grain-Boundary Materials from Nanocrystals. CheM, 2021, 7, 509-525.	11.7	10
6	Synthesis of Lead-Free Cs₂AgBiX₆ (X = Cl, Br, I) Double Perovskite Nanoplatelets and Their Application in CO₂ Photocatalytic Reduction. Nano Letters, 2021, 21, 1620-1627.	9.1	140
7	Synthesis of Ultrathin Perovskite Nanowires via a Postsynthetic Transformation Reaction of Zero-Dimensional Perovskite Nanocrystals. Crystal Growth and Design, 2021, 21, 1924-1930.	3.0	13
8	Lysosomal lipoprotein processing in endothelial cells stimulates adipose tissue thermogenic adaptation. Cell Metabolism, 2021, 33, 547-564.e7.	16.2	48
9	Thick-Shell CdSe/ZnS/CdZnS/ZnS Core/Shell Quantum Dots for Quantitative Immunoassays. ACS Applied Nano Materials, 2021, 4, 2855-2865.	5.0	17
10	Recent Advances in Ligand Design and Engineering in Lead Halide Perovskite Nanocrystals. Advanced Science, 2021, 8, 2100214.	11.2	109
11	Ultrafast cation doping of perovskite quantum dots in flow. Matter, 2021, 4, 2429-2447.	10.0	20
12	Quantum Dot Photocatalysts for Organic Transformations. Journal of Physical Chemistry Letters, 2021, 12, 7180-7193.	4.6	48
13	Fast Lifetime Blinking in Compact CdSe/CdS Core/Shell Quantum Dots. Journal of Physical Chemistry C, 2021, 125, 15433-15440.	3.1	2
14	Brightening of Dark States in CsPbBr₃ Quantum Dots Caused by Lightâ€Induced Magnetism. Small, 2021, 17, e2101527.	10.0	5
15	Colloidal synthesis and charge carrier dynamics of Cs4Cd1â^'Cu Sb2Cl12 (0Ââ‰ x â‰ 1) layered double perovskite nanocrystals. Matter, 2021, 4, 2936-2952.	10.0	20
16	Three-dimensional macroporous photonic crystal enhanced photon collection for quantum dot-based luminescent solar concentrator. Nano Energy, 2020, 67, 104217.	16.0	29
17	Synthesis and transformation of zero-dimensional Cs3BiX6 (X = Cl, Br) perovskite-analogue nanocrystals. Nano Research, 2020, 13, 282-291.	10.4	79
18	Strain Effect in Palladium Nanostructures as Nanozymes. Nano Letters, 2020, 20, 272-277.	9.1	85

#	Article	IF	Citations
19	The effects of monovalent metal cations on the crystal and electronic structures of Cs2MBiCl6 (M =) Tj ETQq1 1 0.784314 rgBT /Overlo	3.0	43
20	Mn²⁺/Yb³⁺ Codoped CsPbCl₃ Perovskite Nanocrystals with Tripleâ€Wavelength Emission for Luminescent Solar Concentrators. Advanced Science, 2020, 7, 2001317.	11.2	105
21	Influence of local structures on the energy transfer efficiencies of quantum-dot films. Physical Review B, 2020, 102, .	3.2	3
22	Synthesis of lead-free Cs₄(Cd_{1âˆ’x}Mn_x)Bi₂Cl₁₂ (0 â‰¤ <i>x</i> â‰¤ 1) layered double perovskite nanocrystals with controlled Mnâ€“Mn coupling interaction. Nanoscale, 2020, 12, 23191-23199.	5.6	31
23	Stereoselective Câˆ’C Oxidative Coupling Reactions Photocatalyzed by Zwitterionic Ligand Capped CsPbBr₃ Perovskite Quantum Dots. Angewandte Chemie, 2020, 132, 22752-22758.	2.0	16
24	Stereoselective Câˆ’C Oxidative Coupling Reactions Photocatalyzed by Zwitterionic Ligand Capped CsPbBr₃ Perovskite Quantum Dots. Angewandte Chemie - International Edition, 2020, 59, 22563-22569.	13.8	73
25	Lead-Free Cs₄CuSb₂Cl₁₂ Layered Double Perovskite Nanocrystals. Journal of the American Chemical Society, 2020, 142, 11927-11936.	13.7	131
26	Structural distortion and electron redistribution in dual-emitting gold nanoclusters. Nature Communications, 2020, 11, 2897.	12.8	42
27	Colloidal Assembly of Auâ€“Quantum Dotâ€“Au Sandwiched Nanostructures with Strong Plasmonâ€“Exciton Coupling. Journal of Physical Chemistry Letters, 2020, 11, 2449-2456.	4.6	18
28	Quantification of the Photon Absorption, Scattering, and On-Resonance Emission Properties of CdSe/CdS Core/Shell Quantum Dots: Effect of Shell Geometry and Volumes. Analytical Chemistry, 2020, 92, 5346-5353.	6.5	13
29	The correlation between phase transition and photoluminescence properties of CsPbX₃ (X) Tj ETQq1 1 0.784314 rgBT /Ov	4.6	27
30	Ligand Engineering for Mn²⁺ Doping Control in CsPbCl₃ Perovskite Nanocrystals via a Quasi-Solidâ€“Solid Cation Exchange Reaction. Chemistry of Materials, 2020, 32, 2489-2500.	6.7	46
31	Crystalline Mesoporous Complex Oxides: Porosityâ€Controlled Electromagnetic Response. Advanced Functional Materials, 2020, 30, 1909491.	14.9	15
32	Introducing Manganese-Doped Lead Halide Perovskite Quantum Dots: A Simple Synthesis Illustrating Optoelectronic Properties of Semiconductors. Journal of Chemical Education, 2019, 96, 2300-2307.	2.3	18
33	Quantum-Dot-Induced Cesium-Rich Surface Imparts Enhanced Stability to Formamidinium Lead Iodide Perovskite Solar Cells. ACS Energy Letters, 2019, 4, 1970-1975.	17.4	82
34	Pressure-Induced Transformations of Three-Component Heterostructural Nanocrystals with CdSâ€“Au2S Janus Nanoparticles as Hosts and Small Au Nanoparticles as Satellites. ACS Applied Nano Materials, 2019, 2, 6804-6808.	5.0	11
35	Editorial: Metal and Semiconductor Nanocrystals. Frontiers in Chemistry, 2019, 7, 310.	3.6	0
36	A Divide-and-Conquer Strategy for Quantification of Light Absorption, Scattering, and Emission Properties of Fluorescent Nanomaterials in Solutions. Analytical Chemistry, 2019, 91, 8540-8548.	6.5	20

#	Article	IF	Citations
37	Reversible Photo-Switching of Dual-Color Fluorescent Mn-Doped CdS-ZnS Quantum Dots Modulated by Diarylethene Molecules. Frontiers in Chemistry, 2019, 7, 145.	3.6	13
38	Fusing Nanowires into Thin Films: Fabrication of Gradedâ€Heterojunction Perovskite Solar Cells with Enhanced Performance. Advanced Energy Materials, 2019, 9, 1900243.	19.5	45
39	Cu-Catalyzed Synthesis of CdZnSeâ€“CdZnS Alloy Quantum Dots with Highly Tunable Emission. Chemistry of Materials, 2019, 31, 2635-2643.	6.7	41
40	Controlling Nanoparticle Orientations in the Self-Assembly of Patchy Quantum Dot-Gold Heterostructural Nanocrystals. Journal of the American Chemical Society, 2019, 141, 6013-6021.	13.7	49
41	Yb- and Mn-Doped Lead-Free Double Perovskite Cs₂AgBiX₆ (X = Cl^{â€“},) Tj ETQq1 1 0.784314	8.0	190
42	Manipulating Charge Transfer from Core to Shell in CdSe/CdS/Au Heterojunction Quantum Dots. ACS Applied Materials & Interfaces, 2019, 11, 48551-48555.	8.0	7
43	A Ligand System for the Flexible Functionalization of Quantum Dots via Click Chemistry. Angewandte Chemie - International Edition, 2018, 57, 4652-4656.	13.8	28
44	A Ligand System for the Flexible Functionalization of Quantum Dots via Click Chemistry. Angewandte Chemie, 2018, 130, 4742-4746.	2.0	7
45	Carrier Transport Dynamics in High Speed Black Phosphorus Photodetectors. ACS Photonics, 2018, 5, 1412-1417.	6.6	15
46	Stable, small, specific, low-valency quantum dots for single-molecule imaging. Nanoscale, 2018, 10, 4406-4414.	5.6	20
47	Excitation wavelength dependent photon anti-bunching/bunching from single quantum dots near gold nanostructures. Nanoscale, 2018, 10, 1038-1046.	5.6	16
48	Single-component quasicrystalline nanocrystal superlattices through flexible polygon tiling rule. Science, 2018, 362, 1396-1400.	12.6	79
49	Synthesis of All-Inorganic Cd-Doped CsPbCl₃ Perovskite Nanocrystals with Dual-Wavelength Emission. Journal of Physical Chemistry Letters, 2018, 9, 7079-7084.	4.6	92
50	Building bridges between halide perovskite nanocrystals and thin-film solar cells. Sustainable Energy and Fuels, 2018, 2, 2381-2397.	4.9	37
51	Superstructures generated from truncated tetrahedral quantum dots. Nature, 2018, 561, 378-382.	27.8	143
52	Reactive two-component monolayers template bottom-up assembly of nanoparticle arrays on HOPG. Chemical Communications, 2018, 54, 8056-8059.	4.1	12
53	Pressure-Induced Phase Transformation and Band-Gap Engineering of Formamidinium Lead Iodide Perovskite Nanocrystals. Journal of Physical Chemistry Letters, 2018, 9, 4199-4205.	4.6	78
54	Self-Assembly of Quantum Dotâ€“Gold Heterodimer Nanocrystals with Orientational Order. Nano Letters, 2018, 18, 5049-5056.	9.1	25

#	Article	IF	Citations
55	Lipolysis Triggers a Systemic Insulin Response Essential for Efficient Energy Replenishment of Activated Brown Adipose Tissue in Mice. Cell Metabolism, 2018, 28, 644-655.e4.	16.2	129
56	Nanocube Superlattices of Cesium Lead Bromide Perovskites and Pressureâ€Induced Phase Transformations at Atomic and Mesoscale Levels. Advanced Materials, 2017, 29, 1606666.	21.0	238
57	Exceedingly small iron oxide nanoparticles as positive MRI contrast agents. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2325-2330.	7.1	374
58	Next-generation in vivo optical imaging with short-wave infrared quantum dots. Nature Biomedical Engineering, 2017, 1, .	22.5	490
59	Monodisperse Hexagonal Pyramidal and Bipyramidal Wurtzite CdSe-CdS Coreâ€“Shell Nanocrystals. Chemistry of Materials, 2017, 29, 4097-4108.	6.7	59
60	Pressure-Enabled Synthesis of Hetero-Dimers and Hetero-Rods through Intraparticle Coalescence and Interparticle Fusion of Quantum-Dot-Au Satellite Nanocrystals. Journal of the American Chemical Society, 2017, 139, 8408-8411.	13.7	62
61	Synthesis of formamidinium lead halide perovskite nanocrystals through solidâ€“liquidâ€“solid cation exchange. Journal of Materials Chemistry C, 2017, 5, 5680-5684.	5.5	113
62	Shortwave Infrared in Vivo Imaging with Gold Nanoclusters. Nano Letters, 2017, 17, 6330-6334.	9.1	149
63	Multi-component superstructures self-assembled from nanocrystal building blocks. Nanoscale, 2016, 8, 9944-9961.	5.6	49
64	Continuous injection synthesis of indium arsenide quantum dots emissive in the short-wavelength infrared. Nature Communications, 2016, 7, 12749.	12.8	209
65	Evolution of the Single-Nanocrystal Photoluminescence Linewidth with Size and Shell: Implications for Excitonâ€“Phonon Coupling and the Optimization of Spectral Linewidths. Nano Letters, 2016, 16, 289-296.	9.1	133
66	Competing Interactions between Various Entropic Forces toward Assembly of Pt₃Ni Octahedra into a Body-Centered Cubic Superlattice. Nano Letters, 2016, 16, 2792-2799.	9.1	48
67	Optical Trapping and Two-Photon Excitation of Colloidal Quantum Dots Using Bowtie Apertures. ACS Photonics, 2016, 3, 423-427.	6.6	107
68	Monolayer Silaneâ€Coated, Waterâ€Soluble Quantum Dots. Small, 2015, 11, 6091-6096.	10.0	19
69	An experimental and theoretical mechanistic study of biexciton quantum yield enhancement in single quantum dots near gold nanoparticles. Nanoscale, 2015, 7, 6851-6858.	5.6	33
70	Locating and classifying fluorescent tags behind turbid layers using time-resolved inversion. Nature Communications, 2015, 6, 6796.	12.8	33
71	Magneto-fluorescent core-shell supernanoparticles. Nature Communications, 2014, 5, 5093.	12.8	223
72	Pure colors from coreâ€“shell quantum dots. MRS Bulletin, 2013, 38, 696-702.	3.5	99

#	Article	IF	Citations
73	Compact high-quality CdSeâ€“CdS coreâ€“shell nanocrystals with narrow emission linewidthsÂandÂsuppressed blinking. Nature Materials, 2013, 12, 445-451.	27.5	1,168
74	Direct probe of spectral inhomogeneity reveals synthetic tunability of single-nanocrystal spectral linewidths. Nature Chemistry, 2013, 5, 602-606.	13.6	130
75	Self-Assembled Colloidal Superparticles from Nanorods. Science, 2012, 338, 358-363.	12.6	332
76	Structural Control of Nanocrystal Superlattices Using Organic Guest Molecules. Journal of the American Chemical Society, 2012, 134, 2868-2871.	13.7	76
77	Biexciton Quantum Yield Heterogeneities in Single CdSe (CdS) Core (Shell) Nanocrystals and Its Correlation to Exciton Blinking. Nano Letters, 2012, 12, 4477-4483.	9.1	81
78	Normalization of tumour blood vessels improves the delivery of nanomedicines in a size-dependent manner. Nature Nanotechnology, 2012, 7, 383-388.	31.5	928
79	Formation of Heterodimer Nanocrystals: UO₂/In₂O₃ and FePt/In₂O₃. Journal of the American Chemical Society, 2011, 133, 14327-14337.	13.7	70
80	Surface-Functionalization-Dependent Optical Properties of IIâ€“VI Semiconductor Nanocrystals. Journal of the American Chemical Society, 2011, 133, 17504-17512.	13.7	121
81	Fluorescent Nanorods and Nanospheres for Realâ€Time In Vivo Probing of Nanoparticle Shapeâ€Dependent Tumor Penetration. Angewandte Chemie - International Edition, 2011, 50, 11417-11420.	13.8	399
82	Excitationâ€Intensityâ€Dependent Colorâ€Tunable Dual Emissions from Manganeseâ€Doped CdS/ZnS Core/Shell Nanocrystals. Angewandte Chemie - International Edition, 2010, 49, 10132-10135.	13.8	82
83	Integrating <i>in situ</i> high pressure small and wide angle synchrotron x-ray scattering for exploiting new physics of nanoparticle supercrystals. Review of Scientific Instruments, 2010, 81, 093902.	1.3	57
84	Cylindrical Superparticles from Semiconductor Nanorods. Journal of the American Chemical Society, 2009, 131, 6084-6085.	13.7	93
85	Synthesis of Water-Soluble 2,2â€²-Diphenyl-1-Picrylhydrazyl Nanoparticles: A New Standard for Electron Paramagnetic Resonance Spectroscopy. Journal of the American Chemical Society, 2009, 131, 12542-12543.	13.7	12
86	Synthesis of Metalâ€“Selenide Nanocrystals Using Selenium Dioxide as the Selenium Precursor. Angewandte Chemie - International Edition, 2008, 47, 8638-8641.	13.8	195
87	On Doping CdS/ZnS Core/Shell Nanocrystals with Mn. Journal of the American Chemical Society, 2008, 130, 15649-15661.	13.7	168
88	Radial-Position-Controlled Doping in CdS/ZnS Core/Shell Nanocrystals. Journal of the American Chemical Society, 2006, 128, 12428-12429.	13.7	297