

Xingchen Ye

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

90
papers

9,400
citations

47
h-index

94
g-index

94
ext. papers

10,391
ext. citations

13.1
avg, IF

6.02
L-index

#	Paper	IF	Citations
90	Ultrafast Dynamics of Colloidal Copper Nanorods: Intraband versus Interband Excitation. <i>Small Science</i> , 2022 , 2, 2100103		1
89	Hydrophobic Cargo Encapsulation into Virus Protein Cages by Self-Assembly in an Aprotic Organic Solvent. <i>Bioconjugate Chemistry</i> , 2021 , 32, 2366-2376	6.3	
88	Controlling Infrared Plasmon Resonances in Inverse-Spinel Cadmium Stannate Nanocrystals via Site-Selective Cation-Exchange Reactions. <i>Chemistry of Materials</i> , 2021 , 33, 1954-1963	9.6	3
87	Characterization of Ligand Adsorption at Individual Gold Nanocubes. <i>Langmuir</i> , 2021 , 37, 7701-7711	4	2
86	Kinetically Controlled Self-Assembly of Binary Polymer-Grafted Nanocrystals into Ordered Superstructures via Solvent Vapor Annealing. <i>Nano Letters</i> , 2021 , 21, 5053-5059	11.5	7
85	Optically and Structurally Stabilized Plasmobio Interlinking Networks. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2001370	4.6	5
84	Electrospray deposition for single nanoparticle studies. <i>Analytical Methods</i> , 2021 , 13, 4105-4113	3.2	1
83	Macromolecular Ligand Engineering for Programmable Nanoprism Assembly. <i>Journal of the American Chemical Society</i> , 2021 , 143, 16163-16172	16.4	1
82	Novel computational design of high refractive index nanocomposites and effective refractive index tuning based on nanoparticle morphology effect. <i>Composites Part B: Engineering</i> , 2021 , 223, 109128	10	0
81	Manipulating atomic defects in plasmonic vanadium dioxide for superior solar and thermal management. <i>Materials Horizons</i> , 2021 , 8, 1700-1710	14.4	4
80	Imaging the kinetics of anisotropic dissolution of bimetallic core-shell nanocubes using graphene liquid cells. <i>Nature Communications</i> , 2020 , 11, 3041	17.4	18
79	Colloidal Synthesis of Nanohelices via Bilayer Lattice Misfit. <i>Journal of the American Chemical Society</i> , 2020 , 142, 12777-12783	16.4	6
78	Nanorod position and orientation in vertical cylinder block copolymer films. <i>Soft Matter</i> , 2020 , 16, 3005-3014	30.4	5
77	Broadband Tunable Mid-infrared Plasmon Resonances in Cadmium Oxide Nanocrystals Induced by Size-Dependent Nonstoichiometry. <i>Nano Letters</i> , 2020 , 20, 2821-2828	11.5	16
76	Probing Single-Particle Electrocatalytic Activity at Facet-Controlled Gold Nanocrystals. <i>Nano Letters</i> , 2020 , 20, 1233-1239	11.5	56
75	Packing State Management to Realize Dense and Semiconducting Lead Sulfide Nanocrystals Film via a Single-Step Deposition. <i>Cell Reports Physical Science</i> , 2020 , 1, 100183	6.1	8
74	Enhanced mid-wavelength infrared refractive index of organically modified chalcogenide (ORMOCHALC) polymer nanocomposites with thermomechanical stability. <i>Optical Materials</i> , 2020 , 108, 110197	3.3	7

73	Tracking the Effects of Ligands on Oxidative Etching of Gold Nanorods in Graphene Liquid Cell Electron Microscopy. <i>ACS Nano</i> , 2020 , 14, 10239-10250	16.7	18
72	Heterometallic Seed-Mediated Growth of Monodisperse Colloidal Copper Nanorods with Widely Tunable Plasmonic Resonances. <i>Nano Letters</i> , 2020 , 20, 7263-7271	11.5	19
71	Amifostine inhibited the differentiation of RAW264.7 cells into osteoclasts by reducing the production of ROS under 2 Gy radiation. <i>Journal of Cellular Biochemistry</i> , 2020 , 121, 497-507	4.7	3
70	Tuning infrared plasmon resonances in doped metal-oxide nanocrystals through cation-exchange reactions. <i>Nature Communications</i> , 2019 , 10, 1394	17.4	39
69	High-Efficiency PbS Quantum-Dot Solar Cells with Greatly Simplified Fabrication Processing via "Solvent-Curing". <i>Advanced Materials</i> , 2018 , 30, e1707572	24	106
68	Microscopic mechanisms of deformation transfer in high dynamic range branched nanoparticle deformation sensors. <i>Nature Communications</i> , 2018 , 9, 1155	17.4	3
67	Large-size niobium disulfide nanoflakes down to bilayers grown by sulfurization. <i>Nano Research</i> , 2018 , 11, 5978-5988	10	15
66	Shape control in the synthesis of colloidal semiconductor nanocrystals 2018 , 37-54		4
65	Tailoring Morphology of Cu-Ag Nanocrescents and Core-Shell Nanocrystals Guided by a Thermodynamic Model. <i>Journal of the American Chemical Society</i> , 2018 , 140, 8569-8577	16.4	41
64	Cooperative interactions among CTA+, Br ⁻ and Ag ⁺ during seeded growth of gold nanorods. <i>Nano Research</i> , 2017 , 10, 2146-2155	10	19
63	Tolerance to structural disorder and tunable mechanical behavior in self-assembled superlattices of polymer-grafted nanocrystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 2836-2841	11.5	47
62	Ligand Mediated Transformation of Cesium Lead Bromide Perovskite Nanocrystals to Lead Depleted CsPbBr Nanocrystals. <i>Journal of the American Chemical Society</i> , 2017 , 139, 5309-5312	16.4	301
61	The effect of loading methods and parameters on defect detection in digital shearography. <i>Results in Physics</i> , 2017 , 7, 3744-3755	3.7	6
60	Rapid Large-Scale Assembly and Pattern Transfer of One-Dimensional Gold Nanorod Superstructures. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 25513-25521	9.5	24
59	Quasicrystalline nanocrystal superlattice with partial matching rules. <i>Nature Materials</i> , 2017 , 16, 214-219	27	96
58	Single-particle mapping of nonequilibrium nanocrystal transformations. <i>Science</i> , 2016 , 354, 874-877	33.3	165
57	Study of Heat Transfer Dynamics from Gold Nanorods to the Environment via Time-Resolved Infrared Spectroscopy. <i>ACS Nano</i> , 2016 , 10, 2144-51	16.7	89
56	Three novel missense mutations in the filamin B gene are associated with isolated congenital talipes equinovarus. <i>Human Genetics</i> , 2016 , 135, 1181-9	6.3	15

55	Exploiting the colloidal nanocrystal library to construct electronic devices. <i>Science</i> , 2016 , 352, 205-8	33.3	189
54	Large-Area Nanoimprinted Colloidal Au Nanocrystal-Based Nanoantennas for Ultrathin Polarizing Plasmonic Metasurfaces. <i>Nano Letters</i> , 2015 , 15, 5254-60	11.5	56
53	Interaction Potentials of Anisotropic Nanocrystals from the Trajectory Sampling of Particle Motion using in Situ Liquid Phase Transmission Electron Microscopy. <i>ACS Central Science</i> , 2015 , 1, 33-9	16.8	102
52	Probing the Structure, Composition, and Spatial Distribution of Ligands on Gold Nanorods. <i>Nano Letters</i> , 2015 , 15, 5730-8	11.5	33
51	Chemical Control of Plasmons in Metal Chalcogenide and Metal Oxide Nanostructures. <i>Advanced Materials</i> , 2015 , 27, 5830-7	24	82
50	Structural diversity in binary superlattices self-assembled from polymer-grafted nanocrystals. <i>Nature Communications</i> , 2015 , 6, 10052	17.4	162
49	Doubling the efficiency of third harmonic generation by positioning ITO nanocrystals into the hot-spot of plasmonic gap-antennas. <i>Nano Letters</i> , 2014 , 14, 2867-72	11.5	137
48	Air-stable, nanostructured electronic and plasmonic materials from solution-processable, silver nanocrystal building blocks. <i>ACS Nano</i> , 2014 , 8, 2746-54	16.7	33
47	Gold nanorod length controls dispersion, local ordering, and optical absorption in polymer nanocomposite films. <i>Soft Matter</i> , 2014 , 10, 3404-13	3.6	25
46	Gold nanorod translocations and charge measurement through solid-state nanopores. <i>Nano Letters</i> , 2014 , 14, 5358-64	11.5	48
45	Mineralizer-Assisted Shape-Control of Rare Earth Oxide Nanoplates. <i>Chemistry of Materials</i> , 2014 , 26, 6328-6332	9.6	27
44	Plasmon-enhanced upconversion luminescence in single nanophosphor-nanorod heterodimers formed through template-assisted self-assembly. <i>ACS Nano</i> , 2014 , 8, 9482-91	16.7	105
43	Expanding the spectral tunability of plasmonic resonances in doped metal-oxide nanocrystals through cooperative cation-anion codoping. <i>Journal of the American Chemical Society</i> , 2014 , 136, 11680-6	16.4	92
42	Seeded growth of metal-doped plasmonic oxide heterodimer nanocrystals and their chemical transformation. <i>Journal of the American Chemical Society</i> , 2014 , 136, 5106-15	16.4	60
41	Plasmonic enhancement of nanophosphor upconversion luminescence in Au nanohole arrays. <i>ACS Nano</i> , 2013 , 7, 7186-92	16.7	174
40	Shape alloys of nanorods and nanospheres from self-assembly. <i>Nano Letters</i> , 2013 , 13, 4980-8	11.5	87
39	Shape-controlled synthesis of Pt nanocrystals: the role of metal carbonyls. <i>ACS Nano</i> , 2013 , 7, 645-53	16.7	149
38	Using binary surfactant mixtures to simultaneously improve the dimensional tunability and monodispersity in the seeded growth of gold nanorods. <i>Nano Letters</i> , 2013 , 13, 765-71	11.5	708

37	Bistable magnetoresistance switching in exchange-coupled CoFe ₂ O ₄ /Fe ₃ O ₄ binary nanocrystal superlattices by self-assembly and thermal annealing. <i>ACS Nano</i> , 2013 , 7, 1478-86	16.7	73
36	Tunable plasmonic coupling in self-assembled binary nanocrystal superlattices studied by correlated optical microspectrophotometry and electron microscopy. <i>Nano Letters</i> , 2013 , 13, 1291-7	11.5	103
35	Seeded growth of monodisperse gold nanorods using bromide-free surfactant mixtures. <i>Nano Letters</i> , 2013 , 13, 2163-71	11.5	161
34	Chemically tailored dielectric-to-metal transition for the design of metamaterials from nanoimprinted colloidal nanocrystals. <i>Nano Letters</i> , 2013 , 13, 350-7	11.5	75
33	Competition of shape and interaction patchiness for self-assembling nanoplates. <i>Nature Chemistry</i> , 2013 , 5, 466-73	17.6	253
32	Three-dimensional self-assembly of chalcopyrite copper indium diselenide nanocrystals into oriented films. <i>ACS Nano</i> , 2013 , 7, 4307-15	16.7	37
31	Engineering catalytic contacts and thermal stability: gold/iron oxide binary nanocrystal superlattices for CO oxidation. <i>Journal of the American Chemical Society</i> , 2013 , 135, 1499-505	16.4	107
30	Design of Pt-Pd binary superlattices exploiting shape effects and synergistic effects for oxygen reduction reactions. <i>Journal of the American Chemical Society</i> , 2013 , 135, 42-5	16.4	166
29	Dendritic upconverting nanoparticles enable in vivo multiphoton microscopy with low-power continuous wave sources. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 20826-31	11.5	85
28	Improved size-tunable synthesis of monodisperse gold nanorods through the use of aromatic additives. <i>ACS Nano</i> , 2012 , 6, 2804-17	16.7	641
27	Metal-enhanced upconversion luminescence tunable through metal nanoparticle-nanophosphor separation. <i>ACS Nano</i> , 2012 , 6, 8758-66	16.7	240
26	Synthesis, shape control, and methanol electro-oxidation properties of Pt-Zn alloy and Pt ₃ Zn intermetallic nanocrystals. <i>ACS Nano</i> , 2012 , 6, 5642-7	16.7	242
25	Two-dimensional binary and ternary nanocrystal superlattices: the case of monolayers and bilayers. <i>Nano Letters</i> , 2011 , 11, 1804-9	11.5	144
24	Near-Infrared Absorption of Monodisperse Silver Telluride (Ag ₂ Te) Nanocrystals and Photoconductive Response of Their Self-Assembled Superlattices. <i>Chemistry of Materials</i> , 2011 , 23, 4657-4659	2.6	41
23	Thiocyanate-capped nanocrystal colloids: vibrational reporter of surface chemistry and solution-based route to enhanced coupling in nanocrystal solids. <i>Journal of the American Chemical Society</i> , 2011 , 133, 15753-61	16.4	278
22	A generalized ligand-exchange strategy enabling sequential surface functionalization of colloidal nanocrystals. <i>Journal of the American Chemical Society</i> , 2011 , 133, 998-1006	16.4	631
21	Platinum nanocrystals selectively shaped using facet-specific peptide sequences. <i>Nature Chemistry</i> , 2011 , 3, 393-9	17.6	361
20	Enhanced thermal stability and magnetic properties in NaCl-type FePt-MnO binary nanocrystal superlattices. <i>Journal of the American Chemical Society</i> , 2011 , 133, 13296-9	16.4	45

19	Polymorphism in self-assembled AB ₆ binary nanocrystal superlattices. <i>Journal of the American Chemical Society</i> , 2011 , 133, 2613-20	16.4	78
18	Multiscale periodic assembly of striped nanocrystal superlattice films on a liquid surface. <i>Nano Letters</i> , 2011 , 11, 841-6	11.5	73
17	Morphologically controlled synthesis of colloidal upconversion nanophosphors and their shape-directed self-assembly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 22430-5	11.5	385
16	Collective dipolar interactions in self-assembled magnetic binary nanocrystal superlattice membranes. <i>Nano Letters</i> , 2010 , 10, 5103-8	11.5	125
15	Systematic electron crystallographic studies of self-assembled binary nanocrystal superlattices. <i>ACS Nano</i> , 2010 , 4, 2374-81	16.7	46
14	Size- and Shape-Selective Synthesis of Metal Nanocrystals and Nanowires Using CO as a Reducing Agent. <i>Angewandte Chemie</i> , 2010 , 122, 6292-6295	3.6	39
13	Size- and shape-selective synthesis of metal nanocrystals and nanowires using CO as a reducing agent. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 6156-9	16.4	181
12	Response To Comment On "1D Tellurium Nanostructures: Photothermally Assisted Morphology-Controlled Synthesis and Applications in Preparing Functional Nanoscale Materials" <i>Advanced Functional Materials</i> , 2009 , 19, 3193-3194	15.6	1
11	Quasicrystalline order in self-assembled binary nanoparticle superlattices. <i>Nature</i> , 2009 , 461, 964-7	50.4	485
10	In vivo multiple color lymphatic imaging using upconverting nanocrystals. <i>Journal of Materials Chemistry</i> , 2009 , 19, 6481		104
9	1D Tellurium Nanostructures: Photothermally Assisted Morphology-Controlled Synthesis and Applications in Preparing Functional Nanoscale Materials. <i>Advanced Functional Materials</i> , 2007 , 17, 486-492	15.6	90
8	Multiarmed tubular selenium with potentially unique electrical properties: solution-phase synthesis and first-principles calculation. <i>Small</i> , 2007 , 3, 101-5	11	13
7	A facile solution-phase deposition approach to porous selenium materials. <i>Journal of Materials Chemistry</i> , 2007 , 17, 2706		27
6	Biomolecule-assisted synthesis and electrochemical hydrogen storage of porous spongelike Ni ₃ S ₂ nanostructures grown directly on nickel foils. <i>Chemistry - A European Journal</i> , 2006 , 12, 2337-42	4.8	162
5	Photothermally assisted solution-phase synthesis of microscale tubes, rods, shuttles, and an urchin-like assembly of single-crystalline trigonal selenium. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 2571-4	16.4	64
4	Photothermally Assisted Solution-Phase Synthesis of Microscale Tubes, Rods, Shuttles, and an Urchin-Like Assembly of Single-Crystalline Trigonal Selenium. <i>Angewandte Chemie</i> , 2006 , 118, 2633-2636	3.6	6
3	Biomolecule-assisted synthesis of single-crystalline selenium nanowires and nanoribbons via a novel flake-cracking mechanism. <i>Nanotechnology</i> , 2006 , 17, 385-390	3.4	74
2	Biomolecule-assisted synthesis and electrochemical hydrogen storage of Bi ₂ S ₃ flowerlike patterns with well-aligned nanorods. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 8978-85	3.4	307

- 1 Solution-phase synthesis and electrochemical hydrogen storage of ultra-long single-crystal selenium submicrotubes. *Journal of Physical Chemistry B*, **2005**, 109, 22830-5 34 37