

Xingchen Ye

List of Publications by Year in descending order

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papers

11,167
citations

36203

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42291

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times ranked

15776
citing authors

#	ARTICLE	IF	CITATIONS
1	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, 765-771.	4.5	910
2	A Generalized Ligand-Exchange Strategy Enabling Sequential Surface Functionalization of Colloidal Nanocrystals. <i>Journal of the American Chemical Society</i> , 2011, 133, 998-1006.	6.6	770
3	Improved Size-Tunable Synthesis of Monodisperse Gold Nanorods through the Use of Aromatic Additives. <i>ACS Nano</i> , 2012, 6, 2804-2817.	7.3	749
4	Quasicrystalline order in self-assembled binary nanoparticle superlattices. <i>Nature</i> , 2009, 461, 964-967.	13.7	551
5	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, 22430-22435.	3.3	416
6	Platinum nanocrystals selectively shaped using facet-specific peptide sequences. <i>Nature Chemistry</i> , 2011, 3, 393-399.	6.6	404
7	Ligand Mediated Transformation of Cesium Lead Bromide Perovskite Nanocrystals to Lead Depleted Cs ₄ PbBr ₆ Nanocrystals. <i>Journal of the American Chemical Society</i> , 2017, 139, 5309-5312.	6.6	389
8	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, 8978-8985.	1.2	334
9	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, 15753-15761.	6.6	309
10	Competition of shape and interaction patchiness for self-assembling nanoplates. <i>Nature Chemistry</i> , 2013, 5, 466-473.	6.6	278
11	Synthesis, Shape Control, and Methanol Electro-oxidation Properties of Pt-Zn Alloy and Pt ₃ Zn Intermetallic Nanocrystals. <i>ACS Nano</i> , 2012, 6, 5642-5647.	7.3	273
12	Metal-Enhanced Upconversion Luminescence Tunable through Metal Nanoparticle-Nanophosphor Separation. <i>ACS Nano</i> , 2012, 6, 8758-8766.	7.3	262
13	Exploiting the colloidal nanocrystal library to construct electronic devices. <i>Science</i> , 2016, 352, 205-208.	6.0	234
14	Single-particle mapping of nonequilibrium nanocrystal transformations. <i>Science</i> , 2016, 354, 874-877.	6.0	204
15	Seeded Growth of Monodisperse Gold Nanorods Using Bromide-Free Surfactant Mixtures. <i>Nano Letters</i> , 2013, 13, 2163-2171.	4.5	200
16	Plasmonic Enhancement of Nanophosphor Upconversion Luminescence in Au Nanohole Arrays. <i>ACS Nano</i> , 2013, 7, 7186-7192.	7.3	199
17	Structural diversity in binary superlattices self-assembled from polymer-grafted nanocrystals. <i>Nature Communications</i> , 2015, 6, 10052.	5.8	199
18	Size- and Shape-Selective Synthesis of Metal Nanocrystals and Nanowires Using CO as a Reducing Agent. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 6156-6159.	7.2	195

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19	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, 42-45.	6.6	180
20	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, 2337-2342.	1.7	169
21	Shape-Controlled Synthesis of Pt Nanocrystals: The Role of Metal Carbonyls. <i>ACS Nano</i> , 2013, 7, 645-653.	7.3	162
22	Two-Dimensional Binary and Ternary Nanocrystal Superlattices: The Case of Monolayers and Bilayers. <i>Nano Letters</i> , 2011, 11, 1804-1809.	4.5	159
23	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, 2867-2872.	4.5	155
24	Collective Dipolar Interactions in Self-Assembled Magnetic Binary Nanocrystal Superlattice Membranes. <i>Nano Letters</i> , 2010, 10, 5103-5108.	4.5	143
25	High-Efficiency PbS Quantum-Dot Solar Cells with Greatly Simplified Fabrication Processing via Solvent-Free Curing. <i>Advanced Materials</i> , 2018, 30, e1707572.	11.1	139
26	Plasmon-Enhanced Upconversion Luminescence in Single Nanophosphor Nanorod Heterodimers Formed through Template-Assisted Self-Assembly. <i>ACS Nano</i> , 2014, 8, 9482-9491.	7.3	127
27	Tunable Plasmonic Coupling in Self-Assembled Binary Nanocrystal Superlattices Studied by Correlated Optical Microspectrophotometry and Electron Microscopy. <i>Nano Letters</i> , 2013, 13, 1291-1297.	4.5	125
28	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, 1499-1505.	6.6	122
29	Interaction Potentials of Anisotropic Nanocrystals from the Trajectory Sampling of Particle Motion using <i>in Situ</i> Liquid Phase Transmission Electron Microscopy. <i>ACS Central Science</i> , 2015, 1, 33-39.	5.3	121
30	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, 11680-11686.	6.6	119
31	Quasicrystalline nanocrystal superlattice with partial matching rules. <i>Nature Materials</i> , 2017, 16, 214-219.	13.3	114
32	In vivo multiple color lymphatic imaging using upconverting nanocrystals. <i>Journal of Materials Chemistry</i> , 2009, 19, 6481.	6.7	112
33	Study of Heat Transfer Dynamics from Gold Nanorods to the Environment via Time-Resolved Infrared Spectroscopy. <i>ACS Nano</i> , 2016, 10, 2144-2151.	7.3	109
34	1D Tellurium Nanostructures: Photothermally Assisted Morphology-Controlled Synthesis and Applications in Preparing Functional Nanoscale Materials. <i>Advanced Functional Materials</i> , 2007, 17, 486-492.	7.8	104
35	Shape Alloys of Nanorods and Nanospheres from Self-Assembly. <i>Nano Letters</i> , 2013, 13, 4980-4988.	4.5	104
36	Probing Single-Particle Electrocatalytic Activity at Facet-Controlled Gold Nanocrystals. <i>Nano Letters</i> , 2020, 20, 1233-1239.	4.5	103

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37	Chemical Control of Plasmons in Metal Chalcogenide and Metal Oxide Nanostructures. <i>Advanced Materials</i> , 2015, 27, 5830-5837.	11.1	98
38	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, 20826-20831.	3.3	88
39	Chemically Tailored Dielectric-to-Metal Transition for the Design of Metamaterials from Nanoimprinted Colloidal Nanocrystals. <i>Nano Letters</i> , 2013, 13, 350-357.	4.5	87
40	Bistable Magnetoresistance Switching in Exchange-Coupled CoFe_2O_4 - Fe_3O_4 Binary Nanocrystal Superlattices by Self-Assembly and Thermal Annealing. <i>ACS Nano</i> , 2013, 7, 1478-1486.	7.3	85
41	Polymorphism in Self-Assembled AB_6 Binary Nanocrystal Superlattices. <i>Journal of the American Chemical Society</i> , 2011, 133, 2613-2620.	6.6	84
42	Biomolecule-assisted synthesis of single-crystalline selenium nanowires and nanoribbons via a novel flake-cracking mechanism. <i>Nanotechnology</i> , 2006, 17, 385-390.	1.3	79
43	Multiscale Periodic Assembly of Striped Nanocrystal Superlattice Films on a Liquid Surface. <i>Nano Letters</i> , 2011, 11, 841-846.	4.5	79
44	Large-Area Nanoimprinted Colloidal Au Nanocrystal-Based Nanoantennas for Ultrathin Polarizing Plasmonic Metasurfaces. <i>Nano Letters</i> , 2015, 15, 5254-5260.	4.5	73
45	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, 2571-2574.	7.2	65
46	Seeded Growth of Metal-Doped Plasmonic Oxide Heterodimer Nanocrystals and Their Chemical Transformation. <i>Journal of the American Chemical Society</i> , 2014, 136, 5106-5115.	6.6	65
47	Tuning infrared plasmon resonances in doped metal-oxide nanocrystals through cation-exchange reactions. <i>Nature Communications</i> , 2019, 10, 1394.	5.8	64
48	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.	3.3	63
49	Gold Nanorod Translocations and Charge Measurement through Solid-State Nanopores. <i>Nano Letters</i> , 2014, 14, 5358-5364.	4.5	59
50	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.	6.6	57
51	Enhanced Thermal Stability and Magnetic Properties in NaCl-Type FePt@MnO Binary Nanocrystal Superlattices. <i>Journal of the American Chemical Society</i> , 2011, 133, 13296-13299.	6.6	54
52	Systematic Electron Crystallographic Studies of Self-Assembled Binary Nanocrystal Superlattices. <i>ACS Nano</i> , 2010, 4, 2374-2381.	7.3	52
53	Near-Infrared Absorption of Monodisperse Silver Telluride (Ag_2Te) Nanocrystals and Photoconductive Response of Their Self-Assembled Superlattices. <i>Chemistry of Materials</i> , 2011, 23, 4657-4659.	3.2	51
54	Heterometallic Seed-Mediated Growth of Monodisperse Colloidal Copper Nanorods with Widely Tunable Plasmonic Resonances. <i>Nano Letters</i> , 2020, 20, 7263-7271.	4.5	49

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55	Probing the Structure, Composition, and Spatial Distribution of Ligands on Gold Nanorods. <i>Nano Letters</i> , 2015, 15, 5730-5738.	4.5	46
56	Air-Stable, Nanostructured Electronic and Plasmonic Materials from Solution-Processable, Silver Nanocrystal Building Blocks. <i>ACS Nano</i> , 2014, 8, 2746-2754.	7.3	40
57	Solution-Phase Synthesis and Electrochemical Hydrogen Storage of Ultra-Long Single-Crystal Selenium Submicrotubes. <i>Journal of Physical Chemistry B</i> , 2005, 109, 22830-22835.	1.2	38
58	Three-Dimensional Self-Assembly of Chalcopyrite Copper Indium Diselenide Nanocrystals into Oriented Films. <i>ACS Nano</i> , 2013, 7, 4307-4315.	7.3	38
59	Imaging the kinetics of anisotropic dissolution of bimetallic core-shell nanocubes using graphene liquid cells. <i>Nature Communications</i> , 2020, 11, 3041.	5.8	36
60	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.	7.3	35
61	Mineralizer-Assisted Shape-Control of Rare Earth Oxide Nanoplates. <i>Chemistry of Materials</i> , 2014, 26, 6328-6332.	3.2	31
62	Broadband Tunable Mid-infrared Plasmon Resonances in Cadmium Oxide Nanocrystals Induced by Size-Dependent Nonstoichiometry. <i>Nano Letters</i> , 2020, 20, 2821-2828.	4.5	29
63	Gold nanorod length controls dispersion, local ordering, and optical absorption in polymer nanocomposite films. <i>Soft Matter</i> , 2014, 10, 3404-3413.	1.2	28
64	A facile solution-phase deposition approach to porous selenium materials. <i>Journal of Materials Chemistry</i> , 2007, 17, 2706.	6.7	27
65	Rapid Large-Scale Assembly and Pattern Transfer of One-Dimensional Gold Nanorod Superstructures. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 25513-25521.	4.0	27
66	Cooperative interactions among CTA+, Br ⁻ and Ag ⁺ during seeded growth of gold nanorods. <i>Nano Research</i> , 2017, 10, 2146-2155.	5.8	25
67	Three novel missense mutations in the filamin B gene are associated with isolated congenital talipes equinovarus. <i>Human Genetics</i> , 2016, 135, 1181-1189.	1.8	22
68	Large-size niobium disulfide nanoflakes down to bilayers grown by sulfurization. <i>Nano Research</i> , 2018, 11, 5978-5988.	5.8	21
69	Surface-Limited Galvanic Replacement Reactions of Pd, Pt, and Au onto Ag Core Nanoparticles through Redox Potential Tuning. <i>Chemistry of Materials</i> , 2022, 34, 1897-1904.	3.2	17
70	Kinetically Controlled Self-Assembly of Binary Polymer-Grafted Nanocrystals into Ordered Superstructures via Solvent Vapor Annealing. <i>Nano Letters</i> , 2021, 21, 5053-5059.	4.5	15
71	Macromolecular Ligand Engineering for Programmable Nanoprism Assembly. <i>Journal of the American Chemical Society</i> , 2021, 143, 16163-16172.	6.6	15
72	Multiarmed Tubular Selenium with Potentially Unique Electrical Properties: Solution-Phase Synthesis and First-Principles Calculation. <i>Small</i> , 2007, 3, 101-105.	5.2	13

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73	Manipulating atomic defects in plasmonic vanadium dioxide for superior solar and thermal management. <i>Materials Horizons</i> , 2021, 8, 1700-1710.	6.4	13
74	Enhanced mid-wavelength infrared refractive index of organically modified chalcogenide (ORMOCHALC) polymer nanocomposites with thermomechanical stability. <i>Optical Materials</i> , 2020, 108, 110197.	1.7	12
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.	2.8	11
76	The effect of loading methods and parameters on defect detection in digital shearography. <i>Results in Physics</i> , 2017, 7, 3744-3755.	2.0	10
77	Colloidal Synthesis of Nanohelices via Bilayer Lattice Misfit. <i>Journal of the American Chemical Society</i> , 2020, 142, 12777-12783.	6.6	10
78	Nanorod position and orientation in vertical cylinder block copolymer films. <i>Soft Matter</i> , 2020, 16, 3005-3014.	1.2	9
79	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.	1.2	8
80	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.	3.2	8
81	Optically and Structurally Stabilized Plasmo-Bio Interlinking Networks. <i>Advanced Materials Interfaces</i> , 2021, 8, .	1.9	7
82	Shape control in the synthesis of colloidal semiconductor nanocrystals. , 2018, , 37-54.		5
83	Electrospray deposition for single nanoparticle studies. <i>Analytical Methods</i> , 2021, 13, 4105-4113.	1.3	5
84	Ultrafast Dynamics of Colloidal Copper Nanorods: Intraband versus Interband Excitation. <i>Small Science</i> , 2022, 2, 2100103.	5.8	5
85	Microscopic mechanisms of deformation transfer in high dynamic range branched nanoparticle deformation sensors. <i>Nature Communications</i> , 2018, 9, 1155.	5.8	4
86	Characterization of Ligand Adsorption at Individual Gold Nanocubes. <i>Langmuir</i> , 2021, 37, 7701-7711.	1.6	4
87	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.	5.9	4
88	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.	7.8	2
89	Hydrophobic Cargo Encapsulation into Virus Protein Cages by Self-Assembly in an Aprotic Organic Solvent. <i>Bioconjugate Chemistry</i> , 2021, 32, 2366-2376.	1.8	1