

Xingchen Ye

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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 | 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 |
| 89 | 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 |
| 88 | 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 |
| 87 | Quasicrystalline order in self-assembled binary nanoparticle superlattices. <i>Nature</i> , 2009 , 461, 964-7 | 50.4 | 485 |
| 86 | 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 |
| 85 | Platinum nanocrystals selectively shaped using facet-specific peptide sequences. <i>Nature Chemistry</i> , 2011 , 3, 393-9 | 17.6 | 361 |
| 84 | 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 |
| 83 | 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 |
| 82 | 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 |
| 81 | Competition of shape and interaction patchiness for self-assembling nanoplates. <i>Nature Chemistry</i> , 2013 , 5, 466-73 | 17.6 | 253 |
| 80 | 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 |
| 79 | Metal-enhanced upconversion luminescence tunable through metal nanoparticle-nanophosphor separation. <i>ACS Nano</i> , 2012 , 6, 8758-66 | 16.7 | 240 |
| 78 | Exploiting the colloidal nanocrystal library to construct electronic devices. <i>Science</i> , 2016 , 352, 205-8 | 33.3 | 189 |
| 77 | 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 |
| 76 | Plasmonic enhancement of nanophosphor upconversion luminescence in Au nanohole arrays. <i>ACS Nano</i> , 2013 , 7, 7186-92 | 16.7 | 174 |
| 75 | 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 |
| 74 | Single-particle mapping of nonequilibrium nanocrystal transformations. <i>Science</i> , 2016 , 354, 874-877 | 33.3 | 165 |

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| 73 | Structural diversity in binary superlattices self-assembled from polymer-grafted nanocrystals. <i>Nature Communications</i> , 2015 , 6, 10052 | 17.4 | 162 |
| 72 | 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 |
| 71 | Seeded growth of monodisperse gold nanorods using bromide-free surfactant mixtures. <i>Nano Letters</i> , 2013 , 13, 2163-71 | 11.5 | 161 |
| 70 | Shape-controlled synthesis of Pt nanocrystals: the role of metal carbonyls. <i>ACS Nano</i> , 2013 , 7, 645-53 | 16.7 | 149 |
| 69 | Two-dimensional binary and ternary nanocrystal superlattices: the case of monolayers and bilayers. <i>Nano Letters</i> , 2011 , 11, 1804-9 | 11.5 | 144 |
| 68 | 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 |
| 67 | Collective dipolar interactions in self-assembled magnetic binary nanocrystal superlattice membranes. <i>Nano Letters</i> , 2010 , 10, 5103-8 | 11.5 | 125 |
| 66 | 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 |
| 65 | High-Efficiency PbS Quantum-Dot Solar Cells with Greatly Simplified Fabrication Processing via "Solvent-Curing". <i>Advanced Materials</i> , 2018 , 30, e1707572 | 24 | 106 |
| 64 | 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 |
| 63 | In vivo multiple color lymphatic imaging using upconverting nanocrystals. <i>Journal of Materials Chemistry</i> , 2009 , 19, 6481 | | 104 |
| 62 | 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 |
| 61 | 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 |
| 60 | Quasicrystalline nanocrystal superlattice with partial matching rules. <i>Nature Materials</i> , 2017 , 16, 214-219 | 27 | 96 |
| 59 | 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 |
| 58 | 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 |
| 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 | Shape alloys of nanorods and nanospheres from self-assembly. <i>Nano Letters</i> , 2013 , 13, 4980-8 | 11.5 | 87 |

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|----|---|------|----|
| 55 | 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 |
| 54 | Chemical Control of Plasmons in Metal Chalcogenide and Metal Oxide Nanostructures. <i>Advanced Materials</i> , 2015 , 27, 5830-7 | 24 | 82 |
| 53 | Polymorphism in self-assembled AB ₆ binary nanocrystal superlattices. <i>Journal of the American Chemical Society</i> , 2011 , 133, 2613-20 | 16.4 | 78 |
| 52 | 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 |
| 51 | 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 |
| 50 | 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 |
| 49 | Multiscale periodic assembly of striped nanocrystal superlattice films on a liquid surface. <i>Nano Letters</i> , 2011 , 11, 841-6 | 11.5 | 73 |
| 48 | 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 |
| 47 | 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 |
| 46 | Large-Area Nanoimprinted Colloidal Au Nanocrystal-Based Nanoantennas for Ultrathin Polarizing Plasmonic Metasurfaces. <i>Nano Letters</i> , 2015 , 15, 5254-60 | 11.5 | 56 |
| 45 | Probing Single-Particle Electrocatalytic Activity at Facet-Controlled Gold Nanocrystals. <i>Nano Letters</i> , 2020 , 20, 1233-1239 | 11.5 | 56 |
| 44 | Gold nanorod translocations and charge measurement through solid-state nanopores. <i>Nano Letters</i> , 2014 , 14, 5358-64 | 11.5 | 48 |
| 43 | 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 |
| 42 | Systematic electron crystallographic studies of self-assembled binary nanocrystal superlattices. <i>ACS Nano</i> , 2010 , 4, 2374-81 | 16.7 | 46 |
| 41 | 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 |
| 40 | 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 |
| 39 | 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 | 26.6 | 41 |
| 38 | Tuning infrared plasmon resonances in doped metal-oxide nanocrystals through cation-exchange reactions. <i>Nature Communications</i> , 2019 , 10, 1394 | 17.4 | 39 |

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|----|--|------|----|
| 37 | 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 |
| 36 | Three-dimensional self-assembly of chalcopyrite copper indium diselenide nanocrystals into oriented films. <i>ACS Nano</i> , 2013 , 7, 4307-15 | 16.7 | 37 |
| 35 | Solution-phase synthesis and electrochemical hydrogen storage of ultra-long single-crystal selenium submicrotubes. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 22830-5 | 3.4 | 37 |
| 34 | Probing the Structure, Composition, and Spatial Distribution of Ligands on Gold Nanorods. <i>Nano Letters</i> , 2015 , 15, 5730-8 | 11.5 | 33 |
| 33 | 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 |
| 32 | Mineralizer-Assisted Shape-Control of Rare Earth Oxide Nanoplates. <i>Chemistry of Materials</i> , 2014 , 26, 6328-6332 | 9.6 | 27 |
| 31 | A facile solution-phase deposition approach to porous selenium materials. <i>Journal of Materials Chemistry</i> , 2007 , 17, 2706 | | 27 |
| 30 | 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 |
| 29 | 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 |
| 28 | Cooperative interactions among CTA+, Br ⁻ and Ag ⁺ during seeded growth of gold nanorods. <i>Nano Research</i> , 2017 , 10, 2146-2155 | 10 | 19 |
| 27 | 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 |
| 26 | 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 |
| 25 | 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 |
| 24 | 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 |
| 23 | Large-size niobium disulfide nanoflakes down to bilayers grown by sulfurization. <i>Nano Research</i> , 2018 , 11, 5978-5988 | 10 | 15 |
| 22 | 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 |
| 21 | Multiarmed tubular selenium with potentially unique electrical properties: solution-phase synthesis and first-principles calculation. <i>Small</i> , 2007 , 3, 101-5 | 11 | 13 |
| 20 | 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 |

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| 19 | 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 |
| 18 | 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 |
| 17 | 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 |
| 16 | Colloidal Synthesis of Nanohelices via Bilayer Lattice Misfit. <i>Journal of the American Chemical Society</i> , 2020 , 142, 12777-12783 | 16.4 | 6 |
| 15 | 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 |
| 14 | Nanorod position and orientation in vertical cylinder block copolymer films. <i>Soft Matter</i> , 2020 , 16, 3005-3014 | 3.1 | 5 |
| 13 | Optically and Structurally Stabilized Plasm-Bio Interlinking Networks. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2001370 | 4.6 | 5 |
| 12 | Shape control in the synthesis of colloidal semiconductor nanocrystals 2018 , 37-54 | | 4 |
| 11 | Manipulating atomic defects in plasmonic vanadium dioxide for superior solar and thermal management. <i>Materials Horizons</i> , 2021 , 8, 1700-1710 | 14.4 | 4 |
| 10 | Microscopic mechanisms of deformation transfer in high dynamic range branched nanoparticle deformation sensors. <i>Nature Communications</i> , 2018 , 9, 1155 | 17.4 | 3 |
| 9 | 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 |
| 8 | 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 |
| 7 | Characterization of Ligand Adsorption at Individual Gold Nanocubes. <i>Langmuir</i> , 2021 , 37, 7701-7711 | 4 | 2 |
| 6 | 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 |
| 5 | Electrospray deposition for single nanoparticle studies. <i>Analytical Methods</i> , 2021 , 13, 4105-4113 | 3.2 | 1 |
| 4 | Macromolecular Ligand Engineering for Programmable Nanoprism Assembly. <i>Journal of the American Chemical Society</i> , 2021 , 143, 16163-16172 | 16.4 | 1 |
| 3 | Ultrafast Dynamics of Colloidal Copper Nanorods: Intraband versus Interband Excitation. <i>Small Science</i> , 2022 , 2, 2100103 | | 1 |
| 2 | 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 |

- 1 Hydrophobic Cargo Encapsulation into Virus Protein Cages by Self-Assembly in an Aprotic Organic Solvent. *Bioconjugate Chemistry*, **2021**, 32, 2366-2376

6.3