Yadong Yin

List of Publications by Citations

430 papers	60,055 citations	114 h-index	239 g-index
475 ext. papers	65,465 ext. citations	12.5 avg, IF	8.13 L-index

#	Paper	IF	Citations
430	One-Dimensional Nanostructures: Synthesis, Characterization, and Applications. *Advanced Materials* , **2003**, 15, 353-389	24	7667
429	Formation of hollow nanocrystals through the nanoscale Kirkendall effect. *Science*, **2004**, 304, 711-4	33.3	2984
428	Colloidal nanocrystal synthesis and the organic-inorganic interface. *Nature*, **2005**, 437, 664-70	50.4	2739
427	Monodispersed Colloidal Spheres: Old Materials with New Applications. *Advanced Materials*, **2000**, 12, 693-713	24	1754
426	Uniform Silver Nanowires Synthesis by Reducing AgNO3 with Ethylene Glycol in the Presence of Seeds and Poly(Vinyl Pyrrolidone). *Chemistry of Materials*, **2002**, 14, 4736-4745	9.6	1293
425	Cation exchange reactions in ionic nanocrystals. *Science*, **2004**, 306, 1009-12	33.3	1016
424	Synthesis, Properties, and Applications of Hollow Micro-/Nanostructures. *Chemical Reviews*, **2016**, 116, 10983-1060	68.1	996
423	Modifying the Surface Properties of Superparamagnetic Iron Oxide Nanoparticles through A Sol□el Approach. *Nano Letters*, **2002**, 2, 183-186	11.5	919
422	Responsive photonic crystals. *Angewandte Chemie - International Edition*, **2011**, 50, 1492-522	16.4	846
421	Superparamagnetic magnetite colloidal nanocrystal clusters. *Angewandte Chemie - International Edition*, **2007**, 46, 4342-5	16.4	821
420	Preparation of Mesoscale Hollow Spheres of TiO2 and SnO2 by Templating Against Crystalline Arrays of Polystyrene Beads. *Advanced Materials*, **2000**, 12, 206-209	24	744
419	Template-assisted self-assembly: a practical route to complex aggregates of monodispersed colloids with well-defined sizes, shapes, and structures. *Journal of the American Chemical Society*, **2001**, 123, 8718-29	16.4	740
418	Templated synthesis of nanostructured materials. *Chemical Society Reviews*, **2013**, 42, 2610-53	58.5	699
417	Kinetically controlled synthesis of triangular and hexagonal nanoplates of palladium and their SPR/SERS properties. *Journal of the American Chemical Society*, **2005**, 127, 17118-27	16.4	590
416	A systematic study of the synthesis of silver nanoplates: is citrate a "magic" reagent?. *Journal of the American Chemical Society*, **2011**, 133, 18931-9	16.4	563
415	Permeable silica shell through surface-protected etching. *Nano Letters*, **2008**, 8, 2867-71	11.5	526
414	Structural colour printing using a magnetically tunable and lithographically fixable photonic crystal. *Nature Photonics*, **2009**, 3, 534-540	33.9	515

413	Synthesis and Self-Assembly of 2 Core Shell Colloids. *Nano Letters*, **2002**, 2, 785-788	11.5	513
412	Composite titanium dioxide nanomaterials. *Chemical Reviews*, **2014**, 114, 9853-89	68.1	498
411	Hollow Nanocrystals through the Nanoscale Kirkendall Effect. *Chemistry of Materials*, **2013**, 25, 1179-1189	9.6	465
410	Reduction by the End Groups of Poly(vinyl pyrrolidone): A New and Versatile Route to the Kinetically Controlled Synthesis of Ag Triangular Nanoplates. *Advanced Materials*, **2006**, 18, 1745-1749	24	452
409	Highly tunable superparamagnetic colloidal photonic crystals. *Angewandte Chemie - International Edition*, **2007**, 46, 7428-31	16.4	446
408	Core-satellite nanocomposite catalysts protected by a porous silica shell: controllable reactivity, high stability, and magnetic recyclability. *Angewandte Chemie - International Edition*, **2008**, 47, 8924-8	16.4	421
407	Core-shell nanostructured catalysts. *Accounts of Chemical Research*, **2013**, 46, 1816-24	24.3	420
406	Self-templated synthesis of hollow nanostructures. *Nano Today*, **2009**, 4, 494-507	17.9	411
405	Synthesis and characterization of stable aqueous dispersions of silver nanoparticles through the Tollens process. *Journal of Materials Chemistry*, **2002**, 12, 522-527		403
404	Understanding the role of oxidative etching in the polyol synthesis of Pd nanoparticles with uniform shape and size. *Journal of the American Chemical Society*, **2005**, 127, 7332-3	16.4	396
403	Metal Sulfides as Excellent Co-catalysts for H2O2 Decomposition in Advanced Oxidation Processes. *CheM*, **2018**, 4, 1359-1372	16.2	393
402	Size-dependence of surface plasmon resonance and oxidation for Pd nanocubes synthesized via a seed etching process. *Nano Letters*, **2005**, 5, 1237-42	11.5	368
401	Mesoporous Anatase Titania Hollow Nanostructures though Silica-Protected Calcination. *Advanced Functional Materials*, **2012**, 22, 166-174	15.6	365
400	Template-Assisted Self-Assembly of Spherical Colloids into Complex and Controllable Structures. *Advanced Functional Materials*, **2003**, 13, 907-918	15.6	365
399	CoP-Doped MOF-Based Electrocatalyst for pH-Universal Hydrogen Evolution Reaction. *Angewandte Chemie - International Edition*, **2019**, 58, 4679-4684	16.4	348
398	Graphene-supported ultrafine metal nanoparticles encapsulated by mesoporous silica: robust catalysts for oxidation and reduction reactions. *Angewandte Chemie - International Edition*, **2014**, 53, 250-4	16.4	341
397	Colloidal Synthesis of Hollow Cobalt Sulfide Nanocrystals. *Advanced Functional Materials*, **2006**, 16, 1389-1399	15.6	337
396	Silver Nanowires Can Be Directly Coated with Amorphous Silica To Generate Well-Controlled Coaxial Nanocables of Silver/Silica. *Nano Letters*, **2002**, 2, 427-430	11.5	335

395	Right bipyramids of silver: a new shape derived from single twinned seeds. *Nano Letters*, **2006**, 6, 765-8	11.5	331
394	A general approach for transferring hydrophobic nanocrystals into water. *Nano Letters*, **2007**, 7, 3203-7	11.5	325
393	Porous cobalt oxide nanoplates enriched with oxygen vacancies for oxygen evolution reaction. *Nano Energy*, **2018**, 43, 110-116	17.1	324
392	Porous Au-Ag Nanospheres with High-Density and Highly Accessible Hotspots for SERS Analysis. *Nano Letters*, **2016**, 16, 3675-81	11.5	322
391	Colloidal nanoparticle clusters: functional materials by design. *Chemical Society Reviews*, **2012**, 41, 6874-87	38.5	319
390	A Solution-Phase Approach to the Synthesis of Uniform Nanowires of Crystalline Selenium with Lateral Dimensions in the Range of 10−30 nm. *Journal of the American Chemical Society*, **2000**, 122, 12582-12583	16.4	300
389	Corrosion-based synthesis of single-crystal Pd nanoboxes and nanocages and their surface plasmon properties. *Angewandte Chemie - International Edition*, **2005**, 44, 7913-7	16.4	294
388	Magnetically recoverable core-shell nanocomposites with enhanced photocatalytic activity. *Chemistry - A European Journal*, **2010**, 16, 6243-50	4.8	285
387	A yolk@shell nanoarchitecture for Au/TiO2 catalysts. *Angewandte Chemie - International Edition*, **2011**, 50, 10208-11	16.4	283
386	Formation of hollow silica colloids through a spontaneous dissolution-regrowth process. *Angewandte Chemie - International Edition*, **2008**, 47, 5806-11	16.4	283
385	Highly stable silver nanoplates for surface plasmon resonance biosensing. *Angewandte Chemie - International Edition*, **2012**, 51, 5629-33	16.4	281
384	Upconversion luminescence with tunable lifetime in NaYF4:Yb,Er nanocrystals: role of nanocrystal size. *Nanoscale*, **2013**, 5, 944-52	7.7	278
383	From Nonluminescent CsPbX (X = Cl, Br, I) Nanocrystals to Highly Luminescent CsPbX Nanocrystals: Water-Triggered Transformation through a CsX-Stripping Mechanism. *Nano Letters*, **2017**, 17, 5799-5804	11.5	276
382	Vacancy coalescence during oxidation of iron nanoparticles. *Journal of the American Chemical Society*, **2007**, 129, 10358-60	16.4	270
381	Magnetic assembly route to colloidal responsive photonic nanostructures. *Accounts of Chemical Research*, **2012**, 45, 1431-40	24.3	265
380	A highly active titanium dioxide based visible-light photocatalyst with nonmetal doping and plasmonic metal decoration. *Angewandte Chemie - International Edition*, **2011**, 50, 7088-92	16.4	263
379	Noble-Metal-Free Electrocatalysts for Oxygen Evolution. *Small*, **2019**, 15, e1804201	11	262
378	Magnetically Tunable Colloidal Photonic Structures in Alkanol Solutions. *Advanced Materials*, **2008**, 20, 3485-3491	24	260

377	V2O5 nanorods on TiO2 nanofibers: a new class of hierarchical nanostructures enabled by electrospinning and calcination. *Nano Letters*, **2006**, 6, 1297-302	11.5	259
376	Self-Assembled Au/CdSe Nanocrystal Clusters for Plasmon-Mediated Photocatalytic Hydrogen Evolution. *Advanced Materials*, **2017**, 29, 1700803	24	258
375	Control of the nanoscale crystallinity in mesoporous TiO2 shells for enhanced photocatalytic activity. *Energy and Environmental Science*, **2012**, 5, 6321-6327	35.4	258
374	Interfacial Synthesis of Highly Stable CsPbX/Oxide Janus Nanoparticles. *Journal of the American Chemical Society*, **2018**, 140, 406-412	16.4	256
373	A nanoplasmonic molecular ruler for measuring nuclease activity and DNA footprinting. *Nature Nanotechnology*, **2006**, 1, 47-52	28.7	247
372	Electron-beam-assisted superplastic shaping of nanoscale amorphous silica. *Nature Communications* , **2010**, 1, 24	17.4	244
371	Faceting of nanocrystals during chemical transformation: from solid silver spheres to hollow gold octahedra. *Journal of the American Chemical Society*, **2006**, 128, 12671-3	16.4	241
370	Hierarchical magnetite/silica nanoassemblies as magnetically recoverable catalyst-supports. *Nano Letters*, **2008**, 8, 931-4	11.5	236
369	Synthesis of palladium icosahedra with twinned structure by blocking oxidative etching with citric acid or citrate ions. *Angewandte Chemie - International Edition*, **2007**, 46, 790-4	16.4	234
368	Single-crystalline nanowires of Ag(2)Se can be synthesized by templating against nanowires of trigonal Se. *Journal of the American Chemical Society*, **2001**, 123, 11500-1	16.4	229
367	All-Inorganic Metal Halide Perovskite Nanocrystals: Opportunities and Challenges. *ACS Central Science*, **2018**, 4, 668-679	16.8	226
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365	Fully alloyed Ag/Au nanospheres: combining the plasmonic property of Ag with the stability of Au. *Journal of the American Chemical Society*, **2014**, 136, 7474-9	16.4	222
364	Reconstruction of silver nanoplates by UV irradiation: tailored optical properties and enhanced stability. *Angewandte Chemie - International Edition*, **2009**, 48, 3516-9	16.4	219
363	Magnetochromatic microspheres: rotating photonic crystals. *Journal of the American Chemical Society*, **2009**, 131, 15687-94	16.4	214
362	Surface-Protected Etching of Mesoporous Oxide Shells for the Stabilization of Metal Nanocatalysts. *Advanced Functional Materials*, **2010**, 20, 2201-2214	15.6	210
361	Superparamagnetic composite colloids with anisotropic structures. *Journal of the American Chemical Society*, **2007**, 129, 8974-5	16.4	209
360	Seeded growth of uniform Ag nanoplates with high aspect ratio and widely tunable surface plasmon bands. *Nano Letters*, **2010**, 10, 5037-42	11.5	205

359	Rewritable Photonic Paper with Hygroscopic Salt Solution as Ink. *Advanced Materials*, **2009**, 21, 4259-4264	24	204
358	One-step synthesis of highly water-soluble magnetite colloidal nanocrystals. *Chemistry - A European Journal*, **2007**, 13, 7153-61	4.8	204
357	A Self-Templated Route to Hollow Silica Microspheres. *Journal of Physical Chemistry C*, **2009**, 113, 3168-3175	4.8	201
356	Controllable Synthesis of Mesoporous TiO2 Hollow Shells: Toward an Efficient Photocatalyst. *Advanced Functional Materials*, **2013**, 23, 4246-4254	15.6	199
355	Self-Assembly of Monodispersed Spherical Colloids into Complex Aggregates with Well-Defined Sizes, Shapes, and Structures. *Advanced Materials*, **2001**, 13, 267-271	24	199
354	Fabrication and Characterization of Porous Membranes with Highly Ordered Three-Dimensional Periodic Structures. *Chemistry of Materials*, **1999**, 11, 2827-2836	9.6	190
353	Tailored synthesis of mesoporous TiO2 hollow nanostructures for catalytic applications. *Energy and Environmental Science*, **2013**, 6, 2082	35.4	186
352	Synthesis of silver nanoplates at high yields by slowing down the polyol reduction of silver nitrate with polyacrylamide. *Journal of Materials Chemistry*, **2007**, 17, 2600		183
351	A self-assembly approach to the formation of asymmetric dimers from monodispersed spherical colloids. *Journal of the American Chemical Society*, **2001**, 123, 771-2	16.4	177
350	Porous monodisperse V2O5 microspheres as cathode materials for lithium-ion batteries. *Journal of Materials Chemistry*, **2011**, 21, 6365		176
349	Selectivity on Etching: Creation of High-Energy Facets on Copper Nanocrystals for CO2 Electrochemical Reduction. *ACS Nano*, **2016**, 10, 4559-64	16.7	168
348	Templated synthesis of metal nanorods in silica nanotubes. *Journal of the American Chemical Society*, **2011**, 133, 19706-9	16.4	168
347	Self-Templated Fabrication of CoO@MoO2 Nanocages for Enhanced Oxygen Evolution. *Advanced Functional Materials*, **2017**, 27, 1702324	15.6	167
346	Rattle-type silica colloidal particles prepared by a surface-protected etching process. *Nano Research*, **2009**, 2, 583-591	10	164
345	Synthesis and Characterization of Mesoscopic Hollow Spheres of Ceramic Materials with Functionalized Interior Surfaces. *Chemistry of Materials*, **2001**, 13, 1146-1148	9.6	163
344	Photocatalytic synthesis and photovoltaic application of Ag-TiO2 nanorod composites. *Nano Letters* , **2013**, 13, 5698-702	11.5	162
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342	Assembly of magnetically tunable photonic crystals in nonpolar solvents. *Journal of the American Chemical Society*, **2009**, 131, 3484-6	16.4	155

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340	Encapsulated Metal Nanoparticles for Catalysis. *Chemical Reviews*, **2021**, 121, 834-881	68.1	149
339	Synthesis and Characterization of MgO Nanowires Through a Vapor-Phase Precursor Method. *Advanced Functional Materials*, **2002**, 12, 293	15.6	145
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337	Photocatalytic colour switching of redox dyes for ink-free light-printable rewritable paper. *Nature Communications*, **2014**, 5, 5459	17.4	140
336	TiO2/NiO hybrid shells: p–n junction photocatalysts with enhanced activity under visible light. *Journal of Materials Chemistry A*, **2015**, 3, 20727-20735	13	136
335	Magnetically assembled photonic crystal film for humidity sensing. *Journal of Materials Chemistry*, **2011**, 21, 3672		135
334	Crystallinity control of TiO2 hollow shells through resin-protected calcination for enhanced photocatalytic activity. *Energy and Environmental Science*, **2015**, 8, 286-296	35.4	134
333	Synthesis and electrical characterization of silver nanobeams. *Nano Letters*, **2006**, 6, 2273-8	11.5	134
332	Synthesis, stability, and surface plasmonic properties of rhodium multipods, and their use as substrates for surface-enhanced Raman scattering. *Angewandte Chemie - International Edition*, **2006**, 45, 1288-92	16.4	131
331	Modulation of the Reduction Potential of TiO by Fluorination for Efficient and Selective CH Generation from CO Photoreduction. *Nano Letters*, **2018**, 18, 3384-3390	11.5	130
330	A self-templated approach to TiO2 microcapsules. *Nano Letters*, **2007**, 7, 1832-6	11.5	130
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328	Sol-gel coating of inorganic nanostructures with resorcinol-formaldehyde resin. *Chemical Communications*, **2013**, 49, 5135-7	5.8	127
327	Self-assembly and photocatalysis of mesoporous TiO2 nanocrystal clusters. *Nano Research*, **2011**, 4, 103-114	10	126
326	Magnetically responsive photonic nanochains. *Angewandte Chemie - International Edition*, **2011**, 50, 3747-50	16.4	126
325	Tailored synthesis of superparamagnetic gold nanoshells with tunable optical properties. *Advanced Materials*, **2010**, 22, 1905-9	24	123
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323	Self-assembly of spherical colloids into helical chains with well-controlled handedness. *Journal of the American Chemical Society*, **2003**, 125, 2048-9	16.4	123
322	Self-assembled TiO2 nanocrystal clusters for selective enrichment of intact phosphorylated proteins. *Angewandte Chemie - International Edition*, **2010**, 49, 1862-6	16.4	119
321	Colorimetric stress memory sensor based on disassembly of gold nanoparticle chains. *Nano Letters*, **2014**, 14, 2466-70	11.5	118
320	Graphene-Supported Ultrafine Metal Nanoparticles Encapsulated by Mesoporous Silica: Robust Catalysts for Oxidation and Reduction Reactions. *Angewandte Chemie*, **2014**, 126, 254-258	3.6	118
319	Preparation and Characterization of Micrometer-Sized Egg Shells *Advanced Materials*, **2001**, 13, 271-274	24	117
318	Self-assembly and field-responsive optical diffractions of superparamagnetic colloids. *Langmuir*, **2008**, 24, 3671-80	4	114
317	A Highly Active Titanium Dioxide Based Visible-Light Photocatalyst with Nonmetal Doping and Plasmonic Metal Decoration. *Angewandte Chemie*, **2011**, 123, 7226-7230	3.6	113
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309	Sulfidation of cadmium at the nanoscale. *ACS Nano*, **2008**, 2, 1452-8	16.7	106
308	Self-Templating Approaches to Hollow Nanostructures. *Advanced Materials*, **2019**, 31, e1802349	24	105
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302	Magnetically actuated liquid crystals. *Nano Letters*, **2014**, 14, 3966-71	11.5	96
301	Carbon-Incorporated NiO/TiO Mesoporous Shells with p-n Heterojunctions for Efficient Visible Light Photocatalysis. *ACS Applied Materials & Interfaces*, **2016**, 8, 29511-29521	9.5	96
300	One-step seeded growth of Au nanoparticles with widely tunable sizes. *Nanoscale*, **2012**, 4, 2875-8	7.7	94
299	Encapsulation of supported Pt nanoparticles with mesoporous silica for increased catalyst stability. *Nano Research*, **2011**, 4, 115-123	10	94
298	Aqueous Synthesis of Ultrathin Platinum/Non-Noble Metal Alloy Nanowires for Enhanced Hydrogen Evolution Activity. *Angewandte Chemie - International Edition*, **2018**, 57, 11678-11682	16.4	93
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296	Photocatalytic Self-Doped SnO Nanocrystals Drive Visible-Light-Responsive Color Switching. *Angewandte Chemie - International Edition*, **2017**, 56, 7792-7796	16.4	92
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293	Direct assembly of hydrophobic nanoparticles to multifunctional structures. *Nano Letters*, **2011**, 11, 3404-13	11.5	91
292	Nitridation and Layered Assembly of Hollow TiO2 Shells for Electrochemical Energy Storage. *Advanced Functional Materials*, **2014**, 24, 848-856	15.6	90
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285	Colloidal Crystals Made of Polystyrene Spheroids: Fabrication and Structural/Optical Characterization. *Langmuir*, **2002**, 18, 7722-7727	4	81
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280	A Yolk@Shell Nanoarchitecture for Au/TiO2 Catalysts. *Angewandte Chemie*, **2011**, 123, 10390-10393	3.6	77
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278	Photocatalytic removal of hexavalent chromium by newly designed and highly reductive TiO nanocrystals. *Water Research*, **2017**, 108, 383-390	12.5	76
277	Detection of microRNA by fluorescence amplification based on cation-exchange in nanocrystals. *Analytical Chemistry*, **2009**, 81, 9723-9	7.8	76
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274	Surfactant-directed assembly of [corrected] Pt nanoparticles into colloidal spheres and their use [corrected] as substrates in forming Pt nanorods and nanowires. *Small*, **2006**, 2, 1340-3	11	72
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272	Magnetically induced colloidal assembly into field-responsive photonic structures. *Nanoscale*, **2011**, 3, 177-83	7.7	71
271	Gold Nanoframes by Nonepitaxial Growth of Au on AgI Nanocrystals for Surface-Enhanced Raman Spectroscopy. *Nano Letters*, **2015**, 15, 4448-54	11.5	70
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269	Lattice-mismatch-induced twinning for seeded growth of anisotropic nanostructures. *ACS Nano*, **2015**, 9, 3307-13	16.7	69
268	IR spectroscopic observation of molecular transport through Pt@CoO yolk-shell nanostructures. *Journal of the American Chemical Society*, **2007**, 129, 9510-3	16.4	69
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