Yadong Yin

List of Publications by Year
in descending order

437 papers	70,739 citations	553 126 h-index	640 256 g-index
475 all docs	475 docs citations	475 times ranked	56093 citing authors

#	Article	IF	Citations
1	One-Dimensional Nanostructures: Synthesis, Characterization, and Applications. Advanced Materials, 2003, 15, 353-389.	11.1	8,229
2	Formation of Hollow Nanocrystals Through the Nanoscale Kirkendall Effect. Science, 2004, 304, 711-714.	6.0	3,255
3	Colloidal nanocrystal synthesis and the organicâ€“inorganic interface. Nature, 2005, 437, 664-670.	13.7	2,996
4	Monodispersed Colloidal Spheres: Old Materials with New Applications. Advanced Materials, 2000, 12, 693-713.	11.1	1,940
5	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.	3.2	1,421
6	Synthesis, Properties, and Applications of Hollow Micro-/Nanostructures. Chemical Reviews, 2016, 116, 10983-11060.	23.0	1,215
7	Cation Exchange Reactions in Ionic Nanocrystals. Science, 2004, 306, 1009-1012.	6.0	1,135
8	Responsive Photonic Crystals. Angewandte Chemie - International Edition, 2011, 50, 1492-1522.	7.2	1,006
9	Modifying the Surface Properties of Superparamagnetic Iron Oxide Nanoparticles through A Solâ^'Gel Approach. Nano Letters, 2002, 2, 183-186.	4.5	1,000
10	Superparamagnetic Magnetite Colloidal Nanocrystal Clusters. Angewandte Chemie - International Edition, 2007, 46, 4342-4345.	7.2	914
11	Template-Assisted Self-Assembly:â€‰ A Practical Route to Complex Aggregates of Monodispersed Colloids with Well-Defined Sizes, Shapes, and Structures. Journal of the American Chemical Society, 2001, 123, 8718-8729.	6.6	853
12	Templated synthesis of nanostructured materials. Chemical Society Reviews, 2013, 42, 2610-2653.	18.7	806
13	Preparation of Mesoscale Hollow Spheres of TiO2 and SnO2 by Templating Against Crystalline Arrays of Polystyrene Beads. Advanced Materials, 2000, 12, 206-209.	11.1	790
14	A Systematic Study of the Synthesis of Silver Nanoplates: Is Citrate a â€œMagicâ€•Reagent?. Journal of the American Chemical Society, 2011, 133, 18931-18939.	6.6	687
15	Metal Sulfides as Excellent Co-catalysts for H2O2 Decomposition in Advanced Oxidation Processes. CheM, 2018, 4, 1359-1372.	5.8	679
16	Kinetically Controlled Synthesis of Triangular and Hexagonal Nanoplates of Palladium and Their SPR/SERS Properties. Journal of the American Chemical Society, 2005, 127, 17118-17127.	6.6	629
17	Structural colour printing using a magnetically tunable and lithographically fixable photonic crystal. Nature Photonics, 2009, 3, 534-540.	15.6	617
18	Composite Titanium Dioxide Nanomaterials. Chemical Reviews, 2014, 114, 9853-9889.	23.0	580

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19	Permeable Silica Shell through Surface-Protected Etching. Nano Letters, 2008, 8, 2867-2871.	4.5	561
20	Synthesis and Self-Assembly of Au@SiO2 Coreâ˜Shell Colloids. Nano Letters, 2002, 2, 785-788.	4.5	548
21	Hollow Nanocrystals through the Nanoscale Kirkendall Effect. Chemistry of Materials, 2013, 25, 1179-1189.	3.2	534
22	Highly Tunable Superparamagnetic Colloidal Photonic Crystals. Angewandte Chemie - International Edition, 2007, 46, 7428-7431.	7.2	511
23	Coreâ€“Shell Nanostructured Catalysts. Accounts of Chemical Research, 2013, 46, 1816-1824.	7.6	501
24	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.	11.1	480
25	CoPâ€Doped MOFâ€Based Electrocatalyst for pHâ€Universal Hydrogen Evolution Reaction. Angewandte Chemie - International Edition, 2019, 58, 4679-4684.	7.2	480
26	Synthesis and characterization of stable aqueous dispersions of silver nanoparticles through the Tollens processElectronic supplementary information (ESI) available: photographs of silver mirror, and of stable dispersions of silver nanoparticles from mixing diluted silvering solutions under sonication at various times. See http://www.rsc.org/suppdata/jm/b1/b107469e/. Journal of Materials Chemistry, 2002, 12, 522-527.	6.7	445
27	Coreâ€“Satellite Nanocomposite Catalysts Protected by a Porous Silica Shell: Controllable Reactivity, High Stability, and Magnetic Recyclability. Angewandte Chemie - International Edition, 2008, 47, 8924-8928.	7.2	444
28	Self-templated synthesis of hollow nanostructures. Nano Today, 2009, 4, 494-507.	6.2	439
29	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, 7332-7333.	6.6	428
30	Porous cobalt oxide nanoplates enriched with oxygen vacancies for oxygen evolution reaction. Nano Energy, 2018, 43, 110-116.	8.2	428
31	Encapsulated Metal Nanoparticles for Catalysis. Chemical Reviews, 2021, 121, 834-881.	23.0	426
32	Mesoporous Anatase Titania Hollow Nanostructures though Silicaâ€Protected Calcination. Advanced Functional Materials, 2012, 22, 166-174.	7.8	404
33	Template-Assisted Self-Assembly of Spherical Colloids into Complex and Controllable Structures. Advanced Functional Materials, 2003, 13, 907-918.	7.8	403
34	Size-Dependence of Surface Plasmon Resonance and Oxidation for Pd Nanocubes Synthesized via a Seed Etching Process. Nano Letters, 2005, 5, 1237-1242.	4.5	399
35	Porous Auâ€“Ag Nanospheres with High-Density and Highly Accessible Hotspots for SERS Analysis. Nano Letters, 2016, 16, 3675-3681.	4.5	388
36	Nobleâ€Metalâ€Free Electrocatalysts for Oxygen Evolution. Small, 2019, 15, e1804201.	5.2	388

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37	Grapheneâ€Supported Ultrafine Metal Nanoparticles Encapsulated by Mesoporous Silica: Robust Catalysts for Oxidation and Reduction Reactions. Angewandte Chemie - International Edition, 2014, 53, 250-254.	7.2	384
38	Colloidal nanoparticle clusters: functional materials by design. Chemical Society Reviews, 2012, 41, 6874.	18.7	375
39	From Nonluminescent Cs₄PbX₆ (X = Cl, Br, I) Nanocrystals to Highly Luminescent CsPbX₃ Nanocrystals: Water-Triggered Transformation through a CsX-Stripping Mechanism. Nano Letters, 2017, 17, 5799-5804.	4.5	367
40	Right Bipyramids of Silver:â€‰ A New Shape Derived from Single Twinned Seeds. Nano Letters, 2006, 6, 765-768.	4.5	365
41	Silver Nanowires Can Be Directly Coated with Amorphous Silica To Generate Well-Controlled Coaxial Nanocables of Silver/Silica. Nano Letters, 2002, 2, 427-430.	4.5	351
42	Colloidal Synthesis of Hollow Cobalt Sulfide Nanocrystals. Advanced Functional Materials, 2006, 16, 1389-1399.	7.8	351
43	A General Approach for Transferring Hydrophobic Nanocrystals into Water. Nano Letters, 2007, 7, 3203-3207.	4.5	348
44	Interfacial Synthesis of Highly Stable CsPbX₃/Oxide Janus Nanoparticles. Journal of the American Chemical Society, 2018, 140, 406-412.	6.6	348
45	A Solution-Phase Approach to the Synthesis of Uniform Nanowires of Crystalline Selenium with Lateral Dimensions in the Range of 10â^'30 nm. Journal of the American Chemical Society, 2000, 122, 12582-12583.	6.6	338
46	Magnetic Assembly Route to Colloidal Responsive Photonic Nanostructures. Accounts of Chemical Research, 2012, 45, 1431-1440.	7.6	327
47	Upconversion luminescence with tunable lifetime in NaYF₄:Yb,Er nanocrystals: role of nanocrystal size. Nanoscale, 2013, 5, 944-952.	2.8	327
48	Highly Stable Silver Nanoplates for Surface Plasmon Resonance Biosensing. Angewandte Chemie - International Edition, 2012, 51, 5629-5633.	7.2	313
49	Selfâ€Assembled Au/CdSe Nanocrystal Clusters for Plasmonâ€Mediated Photocatalytic Hydrogen Evolution. Advanced Materials, 2017, 29, 1700803.	11.1	311
50	Magnetically Recoverable Coreâ€“Shell Nanocomposites with Enhanced Photocatalytic Activity. Chemistry - A European Journal, 2010, 16, 6243-6250.	1.7	310
51	Corrosion-Based Synthesis of Single-Crystal Pd Nanoboxes and Nanocages and Their Surface Plasmon Properties. Angewandte Chemie - International Edition, 2005, 44, 7913-7917.	7.2	305
52	Formation of Hollow Silica Colloids through a Spontaneous Dissolutionâ€“Regrowth Process. Angewandte Chemie - International Edition, 2008, 47, 5806-5811.	7.2	305
53	A Yolk@Shell Nanoarchitecture for Au/TiO₂ Catalysts. Angewandte Chemie - International Edition, 2011, 50, 10208-10211.	7.2	299
54	Vacancy Coalescence during Oxidation of Iron Nanoparticles. Journal of the American Chemical Society, 2007, 129, 10358-10360.	6.6	298

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55	All-Inorganic Metal Halide Perovskite Nanocrystals: Opportunities and Challenges. ACS Central Science, 2018, 4, 668-679.	5.3	298
56	Magnetically Tunable Colloidal Photonic Structures in Alkanol Solutions. Advanced Materials, 2008, 20, 3485-3491.	11.1	292
57	A Highly Active Titanium Dioxide Based Visibleâ€Light Photocatalyst with Nonmetal Doping and Plasmonic Metal Decoration. Angewandte Chemie - International Edition, 2011, 50, 7088-7092.	7.2	290
58	Electron-beam-assisted superplastic shaping of nanoscale amorphous silica. Nature Communications, 2010, 1, 24.	5.8	280
59	Control of the nanoscale crystallinity in mesoporous TiO₂shells for enhanced photocatalytic activity. Energy and Environmental Science, 2012, 5, 6321-6327.	15.6	272
60	Fully Alloyed Ag/Au Nanospheres: Combining the Plasmonic Property of Ag with the Stability of Au. Journal of the American Chemical Society, 2014, 136, 7474-7479.	6.6	272
61	V2O5Nanorods on TiO2Nanofibers: A New Class of Hierarchical Nanostructures Enabled by Electrospinning and Calcination. Nano Letters, 2006, 6, 1297-1302.	4.5	269
62	A nanoplasmonic molecular ruler for measuring nuclease activity and DNA footprinting. Nature Nanotechnology, 2006, 1, 47-52.	15.6	266
63	Ligand-Exchange Assisted Formation of Au/TiO₂ Schottky Contact for Visible-Light Photocatalysis. Nano Letters, 2014, 14, 6731-6736.	4.5	265
64	Single-Crystalline Nanowires of Ag2Se Can Be Synthesized by Templating against Nanowires of Trigonal Se. Journal of the American Chemical Society, 2001, 123, 11500-11501.	6.6	259
65	Synthesis of Palladium Icosahedra with Twinned Structure by Blocking Oxidative Etching with Citric Acid or Citrate Ions. Angewandte Chemie - International Edition, 2007, 46, 790-794.	7.2	254
66	Hierarchical Magnetite/Silica Nanoassemblies as Magnetically Recoverable Catalystâ€“Supports. Nano Letters, 2008, 8, 931-934.	4.5	249
67	Magnetochromatic Microspheres: Rotating Photonic Crystals. Journal of the American Chemical Society, 2009, 131, 15687-15694.	6.6	246
68	Faceting of Nanocrystals during Chemical Transformation:Â From Solid Silver Spheres to Hollow Gold Octahedra. Journal of the American Chemical Society, 2006, 128, 12671-12673.	6.6	245
69	A Self-Templated Route to Hollow Silica Microspheres. Journal of Physical Chemistry C, 2009, 113, 3168-3175.	1.5	243
70	Seeded Growth of Uniform Ag Nanoplates with High Aspect Ratio and Widely Tunable Surface Plasmon Bands. Nano Letters, 2010, 10, 5037-5042.	4.5	242
71	Reconstruction of Silver Nanoplates by UV Irradiation: Tailored Optical Properties and Enhanced Stability. Angewandte Chemie - International Edition, 2009, 48, 3516-3519.	7.2	241
72	Rewritable Photonic Paper with Hygroscopic Salt Solution as Ink. Advanced Materials, 2009, 21, 4259-4264.	11.1	232

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73	From colloidal particles to photonic crystals: advances in self-assembly and their emerging applications. Chemical Society Reviews, 2021, 50, 5898-5951.	18.7	232
74	Mastering the surface strain of platinum catalysts for efficient electrocatalysis. Nature, 2021, 598, 76-81.	13.7	229
75	Explaining the Size Dependence in Platinumâ€Nanoparticleâ€Catalyzed Hydrogenation Reactions. Angewandte Chemie - International Edition, 2016, 55, 15656-15661.	7.2	225
76	Superparamagnetic Composite Colloids with Anisotropic Structures. Journal of the American Chemical Society, 2007, 129, 8974-8975.	6.6	224
77	Selfâ€Templated Fabrication of CoOâ€“MoO₂ Nanocages for Enhanced Oxygen Evolution. Advanced Functional Materials, 2017, 27, 1702324.	7.8	224
78	Surfaceâ€Protected Etching of Mesoporous Oxide Shells for the Stabilization of Metal Nanocatalysts. Advanced Functional Materials, 2010, 20, 2201-2214.	7.8	220
79	One-Step Synthesis of Highly Water-Soluble Magnetite Colloidal Nanocrystals. Chemistry - A European Journal, 2007, 13, 7153-7161.	1.7	219
80	Self-Assembly of Monodispersed Spherical Colloids into Complex Aggregates with Well-Defined Sizes, Shapes, and Structures. Advanced Materials, 2001, 13, 267-271.	11.1	217
81	Controllable Synthesis of Mesoporous TiO₂ Hollow Shells: Toward an Efficient Photocatalyst. Advanced Functional Materials, 2013, 23, 4246-4254.	7.8	216
82	Fabrication and Characterization of Porous Membranes with Highly Ordered Three-Dimensional Periodic Structures. Chemistry of Materials, 1999, 11, 2827-2836.	3.2	210
83	Selectivity on Etching: Creation of High-Energy Facets on Copper Nanocrystals for CO₂ Electrochemical Reduction. ACS Nano, 2016, 10, 4559-4564.	7.3	207
84	Tailored synthesis of mesoporous TiO2 hollow nanostructures for catalytic applications. Energy and Environmental Science, 2013, 6, 2082.	15.6	203
85	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.	6.7	201
86	Three-Dimensional Photonic Crystals with Non-spherical Colloids as Building Blocks. Advanced Materials, 2001, 13, 415-420.	11.1	200
87	A Self-Assembly Approach to the Formation of Asymmetric Dimers from Monodispersed Spherical Colloids. Journal of the American Chemical Society, 2001, 123, 771-772.	6.6	192
88	Porous monodisperse V2O5 microspheres as cathode materials for lithium-ion batteries. Journal of Materials Chemistry, 2011, 21, 6365.	6.7	192
89	Magnetic field guided colloidal assembly. Materials Today, 2013, 16, 110-116.	8.3	192
90	Templated Synthesis of Metal Nanorods in Silica Nanotubes. Journal of the American Chemical Society, 2011, 133, 19706-19709.	6.6	191

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91	Photocatalytic colour switching of redox dyes for ink-free light-printable rewritable paper. Nature Communications, 2014, 5, 5459.	5.8	183
92	Space-Confined Seeded Growth of Black Silver Nanostructures for Solar Steam Generation. Nano Letters, 2019, 19, 400-407.	4.5	181
93	Stimuliâ€Responsive Optical Nanomaterials. Advanced Materials, 2019, 31, e1807061.	11.1	178
94	Synthesis and Characterization of Mesoscopic Hollow Spheres of Ceramic Materials with Functionalized Interior Surfaces. Chemistry of Materials, 2001, 13, 1146-1148.	3.2	173
95	Photocatalytic Synthesis and Photovoltaic Application of Ag-TiO₂ Nanorod Composites. Nano Letters, 2013, 13, 5698-5702.	4.5	173
96	Colloidal Self-Assembly Approaches to Smart Nanostructured Materials. Chemical Reviews, 2022, 122, 4976-5067.	23.0	173
97	Assembly of Magnetically Tunable Photonic Crystals in Nonpolar Solvents. Journal of the American Chemical Society, 2009, 131, 3484-3486.	6.6	172
98	Rattle-type silica colloidal particles prepared by a surface-protected etching process. Nano Research, 2009, 2, 583-591.	5.8	170
99	Modulation of the Reduction Potential of TiO_{2â€“x} by Fluorination for Efficient and Selective CH₄ Generation from CO₂ Photoreduction. Nano Letters, 2018, 18, 3384-3390.	4.5	166
100	The chemistry of functional nanomaterials. Chemical Society Reviews, 2013, 42, 2484.	18.7	164
101	Synthesis and Characterization of MgO Nanowires Through a Vapor-Phase Precursor Method. Advanced Functional Materials, 2002, 12, 293.	7.8	160
102	Magnetically assembled photonic crystal film for humidity sensing. Journal of Materials Chemistry, 2011, 21, 3672.	6.7	157
103	Selfâ€Templating Approaches to Hollow Nanostructures. Advanced Materials, 2019, 31, e1802349.	11.1	156
104	TiO₂/NiO hybrid shells: pâ€“n junction photocatalysts with enhanced activity under visible light. Journal of Materials Chemistry A, 2015, 3, 20727-20735.	5.2	154
105	Thermoresponsive Assembly of Charged Gold Nanoparticles and Their Reversible Tuning of Plasmon Coupling. Angewandte Chemie - International Edition, 2012, 51, 6373-6377.	7.2	151
106	Crystallinity control of TiO₂ hollow shells through resin-protected calcination for enhanced photocatalytic activity. Energy and Environmental Science, 2015, 8, 286-296.	15.6	150
107	Janus Evaporators with Self-Recovering Hydrophobicity for Salt-Rejecting Interfacial Solar Desalination. ACS Nano, 2020, 14, 17419-17427.	7.3	150
108	Magnetically Responsive Photonic Nanochains. Angewandte Chemie - International Edition, 2011, 50, 3747-3750.	7.2	145

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109	Synthesis and Electrical Characterization of Silver Nanobeams. Nano Letters, 2006, 6, 2273-2278.	4.5	144
110	Anisotropic plasmonic nanostructures for colorimetric sensing. Nano Today, 2020, 32, 100855.	6.2	143
111	Solâ€“gel coating of inorganic nanostructures with resorcinolâ€“formaldehyde resin. Chemical Communications, 2013, 49, 5135.	2.2	139
112	Colorimetric Stress Memory Sensor Based on Disassembly of Gold Nanoparticle Chains. Nano Letters, 2014, 14, 2466-2470.	4.5	139
113	Self-Assembly of Spherical Colloids into Helical Chains with Well-Controlled Handedness. Journal of the American Chemical Society, 2003, 125, 2048-2049.	6.6	138
114	Magnetically Responsive Nanostructures with Tunable Optical Properties. Journal of the American Chemical Society, 2016, 138, 6315-6323.	6.6	137
115	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, 1288-1292.	7.2	135
116	A Self-Templated Approach to TiO2 Microcapsules. Nano Letters, 2007, 7, 1832-1836.	4.5	135
117	Self-assembly and photocatalysis of mesoporous TiO2 nanocrystal clusters. Nano Research, 2011, 4, 103-114.	5.8	135
118	Magnetic Assembly and Fieldâ€Tuning of Ellipsoidalâ€Nanoparticleâ€Based Colloidal Photonic Crystals. Angewandte Chemie - International Edition, 2015, 54, 7077-7081.	7.2	135
119	Inflating hollow nanocrystals through a repeated Kirkendall cavitation process. Nature Communications, 2017, 8, 1261.	5.8	135
120	Selfâ€Assembled TiO₂ Nanocrystal Clusters for Selective Enrichment of Intact Phosphorylated Proteins. Angewandte Chemie - International Edition, 2010, 49, 1862-1866.	7.2	134
121	Self-Assembly and Field-Responsive Optical Diffractions of Superparamagnetic Colloids. Langmuir, 2008, 24, 3671-3680.	1.6	133
122	Aqueous Synthesis of Ultrathin Platinum/Nonâ€Noble Metal Alloy Nanowires for Enhanced Hydrogen Evolution Activity. Angewandte Chemie - International Edition, 2018, 57, 11678-11682.	7.2	133
123	Tailored Synthesis of Superparamagnetic Gold Nanoshells with Tunable Optical Properties. Advanced Materials, 2010, 22, 1905-1909.	11.1	128
124	Magnetically Actuated Liquid Crystals. Nano Letters, 2014, 14, 3966-3971.	4.5	125
125	Preparation and Characterization of Micrometer-Sized â€œEgg Shellsâ€. Advanced Materials, 2001, 13, 271-274.	11.1	123
126	Magnetically responsive colloidal photonic crystals. Journal of Materials Chemistry, 2008, 18, 5041.	6.7	122

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127	Integrated Evaporator for Efficient Solar-Driven Interfacial Steam Generation. Nano Letters, 2020, 20, 6051-6058.	4.5	121
128	Porous TiO₂/C Nanocomposite Shells As a High-Performance Anode Material for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2013, 5, 6478-6483.	4.0	119
129	Control over the permeation of silica nanoshells by surface-protected etching with water. Physical Chemistry Chemical Physics, 2010, 12, 11836.	1.3	116
130	Carbon-Incorporated NiO/TiO₂ Mesoporous Shells with pâ€“n Heterojunctions for Efficient Visible Light Photocatalysis. ACS Applied Materials & Interfaces, 2016, 8, 29511-29521.	4.0	116
131	Mesoporous TiO₂ Nanocrystal Clusters for Selective Enrichment of Phosphopeptides. Analytical Chemistry, 2010, 82, 7249-7258.	3.2	114
132	Photocatalytic Selfâ€Doped SnO_{2â‹’x} Nanocrystals Drive Visibleâ€Lightâ€Responsive Color Switching. Angewandte Chemie - International Edition, 2017, 56, 7792-7796.	7.2	114
133	Large-Scale Synthesis of Monodisperse Nanorods of Se/Te Alloys Through a Homogeneous Nucleation and Solution Growth Process. Advanced Materials, 2001, 13, 1380-1384.	11.1	113
134	Growth of Large Colloidal Crystals with Their (100) Planes Orientated Parallel to the Surfaces of Supporting Substrates. Advanced Materials, 2002, 14, 605.	11.1	113
135	Sulfidation of Cadmium at the Nanoscale. ACS Nano, 2008, 2, 1452-1458.	7.3	113
136	Unconventional Route to Encapsulated Ultrasmall Gold Nanoparticles for High-Temperature Catalysis. ACS Nano, 2014, 8, 7297-7304.	7.3	113
137	One-step seeded growth of Au nanoparticles with widely tunable sizes. Nanoscale, 2012, 4, 2875.	2.8	110
138	Synthesis and characterization of fivefold twinned nanorods and right bipyramids of palladium. Chemical Physics Letters, 2007, 440, 273-278.	1.2	109
139	New nanostructured heterogeneous catalysts with increased selectivity and stability. Physical Chemistry Chemical Physics, 2011, 13, 2449-2456.	1.3	109
140	Promotion of atomic hydrogen recombination as an alternative to electron trapping for the role of metals in the photocatalytic production of H ₂. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7942-7947.	3.3	109
141	Encapsulation of supported Pt nanoparticles with mesoporous silica for increased catalyst stability. Nano Research, 2011, 4, 115-123.	5.8	107
142	Role of Salt in the Spontaneous Assembly of Charged Gold Nanoparticles in Ethanol. Langmuir, 2011, 27, 5282-5289.	1.6	106
143	Controllable Synthesis of Ultrathin Transitionâ€Metal Hydroxide Nanosheets and their Extended Composite Nanostructures for Enhanced Catalytic Activity in the Heck Reaction. Angewandte Chemie - International Edition, 2016, 55, 2167-2170.	7.2	105
144	Direct Assembly of Hydrophobic Nanoparticles to Multifunctional Structures. Nano Letters, 2011, 11, 3404-3412.	4.5	104

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145	CoPâ€Doped MOFâ€Based Electrocatalyst for pHâ€Universal Hydrogen Evolution Reaction. Angewandte Chemie, 2019, 131, 4727-4732.	1.6	102
146	Magnetic Assembly of Nonmagnetic Particles into Photonic Crystal Structures. Nano Letters, 2010, 10, 4708-4714.	4.5	100
147	Nitridation and Layered Assembly of Hollow TiO₂ Shells for Electrochemical Energy Storage. Advanced Functional Materials, 2014, 24, 848-856.	7.8	100
148	Three-Dimensional Dendritic Cuâ€“Coâ€“P Electrode by One-Step Electrodeposition on a Hydrogen Bubble Template for Hydrogen Evolution Reaction. ACS Sustainable Chemistry and Engineering, 2019, 7, 10734-10741.	3.2	100
149	Bi(OH)₃/PdBi Composite Nanochains as Highly Active and Durable Electrocatalysts for Ethanol Oxidation. Nano Letters, 2019, 19, 4752-4759.	4.5	99
150	Magnetic Tuning of Plasmonic Excitation of Gold Nanorods. Journal of the American Chemical Society, 2013, 135, 15302-15305.	6.6	98
151	Surface patterning and its application in wetting/dewetting studies. Current Opinion in Colloid and Interface Science, 2001, 6, 54-64.	3.4	97
152	Photocatalytic removal of hexavalent chromium by newly designed and highly reductive TiO2 nanocrystals. Water Research, 2017, 108, 383-390.	5.3	97
153	Etchingâ€Free Epitaxial Growth of Gold on Silver Nanostructures for High Chemical Stability and Plasmonic Activity. Advanced Functional Materials, 2015, 25, 5435-5443.	7.8	96
154	Growth of Large Crystals of Monodispersed Spherical Colloids in Fluidic Cells Fabricated Using Non-photolithographic Methods. Langmuir, 2001, 17, 6344-6350.	1.6	95
155	Plasmonic Nanostructures for Photothermal Conversion. Small Science, 2021, 1, 2000055.	5.8	93
156	Au/AgI Dimeric Nanoparticles for Highly Selective and Sensitive Colorimetric Detection of Hydrogen Sulfide. Advanced Functional Materials, 2018, 28, 1800515.	7.8	92
157	One-Pot Synthesis and Optical Property of Copper(I) Sulfide Nanodisks. Inorganic Chemistry, 2010, 49, 6601-6608.	1.9	91
158	Gram-Scale Synthesis of Silica Nanotubes with Controlled Aspect Ratios by Templating of Nickel-Hydrazine Complex Nanorods. Langmuir, 2011, 27, 12201-12208.	1.6	90
159	Nanocrystalline TiO₂-Catalyzed Photoreversible Color Switching. Nano Letters, 2014, 14, 1681-1686.	4.5	90
160	Colloidal Crystals Made of Polystyrene Spheroids:Â Fabrication and Structural/Optical Characterization. Langmuir, 2002, 18, 7722-7727.	1.6	89
161	Smart Materials by Nanoscale Magnetic Assembly. Advanced Functional Materials, 2020, 30, 1903467.	7.8	88
162	Epitaxial Growth of Shape-Controlled Bi₂Te₃â”Te Heterogeneous Nanostructures. Journal of the American Chemical Society, 2010, 132, 17316-17324.	6.6	87

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163	Magnetically induced colloidal assembly into field-responsive photonic structures. Nanoscale, 2011, 3, 177-183.	2.8	87
164	Template-Directed Growth of (100)-Oriented Colloidal Crystals. Langmuir, 2003, 19, 622-631.	1.6	86
165	Lattice-Mismatch-Induced Twinning for Seeded Growth of Anisotropic Nanostructures. ACS Nano, 2015, 9, 3307-3313.	7.3	86
166	Metallic Active Sites on MoO2(110) Surface to Catalyze Advanced Oxidation Processes for Efficient Pollutant Removal. IScience, 2020, 23, 100861.	1.9	86
167	Synthesis of ultrathin platinum nanoplates for enhanced oxygen reduction activity. Chemical Science, 2018, 9, 398-404.	3.7	85
168	Nanostructured Hybrid Shells of r-GO/AuNP/m-TiO₂ as Highly Active Photocatalysts. ACS Applied Materials & Interfaces, 2015, 7, 6909-6918.	4.0	84
169	Electronic Structure of Cobalt Nanocrystals Suspended in Liquid. Nano Letters, 2007, 7, 1919-1922.	4.5	83
170	Photocatalytic Color Switching of Transition Metal Hexacyanometalate Nanoparticles for High-Performance Light-Printable Rewritable Paper. Nano Letters, 2017, 17, 755-761.	4.5	83
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