

Taeghwan Hyeon

List of Publications by Year in descending order

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292
papers

63,400
citations

613

124
h-index

794

247
g-index

316
all docs

316
docs citations

316
times ranked

59580
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultra-large-scale syntheses of monodisperse nanocrystals. <i>Nature Materials</i> , 2004, 3, 891-895.	13.3	3,713
2	Synthesis of Highly Crystalline and Monodisperse Maghemite Nanocrystallites without a Size-Selection Process. <i>Journal of the American Chemical Society</i> , 2001, 123, 12798-12801.	6.6	1,937
3	Synthesis of Monodisperse Spherical Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 4630-4660.	7.2	1,751
4	Chemical synthesis of magnetic nanoparticles. <i>Chemical Communications</i> , 2003, , 927-934.	2.2	1,415
5	A graphene-based electrochemical device with thermoresponsive microneedles for diabetes monitoring and therapy. <i>Nature Nanotechnology</i> , 2016, 11, 566-572.	15.6	1,394
6	The surface science of nanocrystals. <i>Nature Materials</i> , 2016, 15, 141-153.	13.3	1,293
7	Multifunctional wearable devices for diagnosis and therapy of movement disorders. <i>Nature Nanotechnology</i> , 2014, 9, 397-404.	15.6	1,246
8	Stretchable silicon nanoribbon electronics for skin prosthesis. <i>Nature Communications</i> , 2014, 5, 5747.	5.8	1,145
9	Multifunctional Uniform Nanoparticles Composed of a Magnetite Nanocrystal Core and a Mesoporous Silica Shell for Magnetic Resonance and Fluorescence Imaging and for Drug Delivery. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 8438-8441.	7.2	1,135
10	Prospects of Nanoscience with Nanocrystals. <i>ACS Nano</i> , 2015, 9, 1012-1057.	7.3	1,005
11	Multifunctional nanostructured materials for multimodal imaging, and simultaneous imaging and therapy. <i>Chemical Society Reviews</i> , 2009, 38, 372-390.	18.7	981
12	Recent Advances in Flexible and Stretchable Bio-Electronic Devices Integrated with Nanomaterials. <i>Advanced Materials</i> , 2016, 28, 4203-4218.	11.1	894
13	Designed synthesis of uniformly sized iron oxide nanoparticles for efficient magnetic resonance imaging contrast agents. <i>Chemical Society Reviews</i> , 2012, 41, 2575-2589.	18.7	865
14	Wearable/disposable sweat-based glucose monitoring device with multistage transdermal drug delivery module. <i>Science Advances</i> , 2017, 3, e1601314.	4.7	836
15	Large-Scale Synthesis of Uniform and Extremely Small-Sized Iron Oxide Nanoparticles for High-Resolution ^{51}Cr Magnetic Resonance Imaging Contrast Agents. <i>Journal of the American Chemical Society</i> , 2011, 133, 12624-12631.	6.6	835
16	Iron Oxide Based Nanoparticles for Multimodal Imaging and Magneto-responsive Therapy. <i>Chemical Reviews</i> , 2015, 115, 10637-10689.	23.0	827
17	Atomic-level tuning of Co-N-C catalyst for high-performance electrochemical H ₂ O ₂ production. <i>Nature Materials</i> , 2020, 19, 436-442.	13.3	725
18	Synthesis of a new mesoporous carbon and its application to electrochemical double-layer capacitors. <i>Chemical Communications</i> , 1999, , 2177-2178.	2.2	716

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19	Highly conductive, stretchable and biocompatible Ag@Au core-shell nanowire composite for wearable and implantable bioelectronics. <i>Nature Nanotechnology</i> , 2018, 13, 1048-1056.	15.6	695
20	Uniform Mesoporous Dye-Doped Silica Nanoparticles Decorated with Multiple Magnetite Nanocrystals for Simultaneous Enhanced Magnetic Resonance Imaging, Fluorescence Imaging, and Drug Delivery. <i>Journal of the American Chemical Society</i> , 2010, 132, 552-557.	6.6	687
21	Multifunctional Mesoporous Silica Nanocomposite Nanoparticles for Theranostic Applications. <i>Accounts of Chemical Research</i> , 2011, 44, 893-902.	7.6	676
22	Continuous O ₂ -Evolving MnFe ₂ O ₄ Nanoparticle-Anchored Mesoporous Silica Nanoparticles for Efficient Photodynamic Therapy in Hypoxic Cancer. <i>Journal of the American Chemical Society</i> , 2017, 139, 10992-10995.	6.6	616
23	One-Nanometer-Scale Size-Controlled Synthesis of Monodisperse Magnetic Iron Oxide Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 2872-2877.	7.2	571
24	Reverse-Micelle-Induced Porous Pressure-Sensitive Rubber for Wearable Human-Machine Interfaces. <i>Advanced Materials</i> , 2014, 26, 4825-4830.	11.1	564
25	Nonblinking and Nonbleaching Upconverting Nanoparticles as an Optical Imaging Nanoprobe and T1 Magnetic Resonance Imaging Contrast Agent. <i>Advanced Materials</i> , 2009, 21, 4467-4471.	11.1	548
26	Development of a T1 Contrast Agent for Magnetic Resonance Imaging Using MnO Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 5397-5401.	7.2	545
27	Wearable red-green-blue quantum dot light-emitting diode array using high-resolution intaglio transfer printing. <i>Nature Communications</i> , 2015, 6, 7149.	5.8	536
28	Nano-Sized CT Contrast Agents. <i>Advanced Materials</i> , 2013, 25, 2641-2660.	11.1	522
29	Highly Durable and Active PtFe Nanocatalyst for Electrochemical Oxygen Reduction Reaction. <i>Journal of the American Chemical Society</i> , 2015, 137, 15478-15485.	6.6	517
30	Upconverting nanoparticles: a versatile platform for wide-field two-photon microscopy and multi-modal in vivo imaging. <i>Chemical Society Reviews</i> , 2015, 44, 1302-1317.	18.7	504
31	Reversible and cooperative photoactivation of single-atom Cu/TiO ₂ photocatalysts. <i>Nature Materials</i> , 2019, 18, 620-626.	13.3	501
32	Transparent and Stretchable Interactive Human Machine Interface Based on Patterned Graphene Heterostructures. <i>Advanced Functional Materials</i> , 2015, 25, 375-383.	7.8	496
33	Mesoporous Silica-Coated Hollow Manganese Oxide Nanoparticles as Positive T ₁ Contrast Agents for Labeling and MRI Tracking of Adipose-Derived Mesenchymal Stem Cells. <i>Journal of the American Chemical Society</i> , 2011, 133, 2955-2961.	6.6	491
34	Formation Mechanisms of Uniform Nanocrystals via Hot-Injection and Heat-Up Methods. <i>Small</i> , 2011, 7, 2685-2702.	5.2	486
35	Enzyme-Based Glucose Sensor: From Invasive to Wearable Device. <i>Advanced Healthcare Materials</i> , 2018, 7, e1701150.	3.9	483
36	Mitochondria-Targeting Ceria Nanoparticles as Antioxidants for Alzheimer's Disease. <i>ACS Nano</i> , 2016, 10, 2860-2870.	7.3	481

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37	Designed Fabrication of Multifunctional Magnetic Gold Nanoshells and Their Application to Magnetic Resonance Imaging and Photothermal Therapy. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 7754-7758.	7.2	475
38	Galvanic Replacement Reactions in Metal Oxide Nanocrystals. <i>Science</i> , 2013, 340, 964-968.	6.0	472
39	Ceria Nanoparticles that can Protect against Ischemic Stroke. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 11039-11043.	7.2	464
40	Stretchable Heater Using Ligand-Exchanged Silver Nanowire Nanocomposite for Wearable Articular Thermotherapy. <i>ACS Nano</i> , 2015, 9, 6626-6633.	7.3	462
41	Multifunctional Tumor pH-Sensitive Self-Assembled Nanoparticles for Bimodal Imaging and Treatment of Resistant Heterogeneous Tumors. <i>Journal of the American Chemical Society</i> , 2014, 136, 5647-5655.	6.6	452
42	Large-Scale Synthesis of Carbon-Shell-Coated FeP Nanoparticles for Robust Hydrogen Evolution Reaction Electrocatalyst. <i>Journal of the American Chemical Society</i> , 2017, 139, 6669-6674.	6.6	451
43	Synthesis of Uniform Ferrimagnetic Magnetite Nanocubes. <i>Journal of the American Chemical Society</i> , 2009, 131, 454-455.	6.6	434
44	Chemical Synthesis and Assembly of Uniformly Sized Iron Oxide Nanoparticles for Medical Applications. <i>Accounts of Chemical Research</i> , 2015, 48, 1276-1285.	7.6	428
45	Ni/NiO Core/Shell Nanoparticles for Selective Binding and Magnetic Separation of Histidine-Tagged Proteins. <i>Journal of the American Chemical Society</i> , 2006, 128, 10658-10659.	6.6	425
46	Colloidal Chemical Synthesis and Formation Kinetics of Uniformly Sized Nanocrystals of Metals, Oxides, and Chalcogenides. <i>Accounts of Chemical Research</i> , 2008, 41, 1696-1709.	7.6	420
47	Kinetics of Monodisperse Iron Oxide Nanocrystal Formation by a Heating-Up Process. <i>Journal of the American Chemical Society</i> , 2007, 129, 12571-12584.	6.6	407
48	Electric Double-Layer Capacitor Performance of a New Mesoporous Carbon. <i>Journal of the Electrochemical Society</i> , 2000, 147, 2507.	1.3	405
49	Synthesis of Monodisperse Palladium Nanoparticles. <i>Nano Letters</i> , 2003, 3, 1289-1291.	4.5	403
50	Wrap-bake-peel process for nanostructural transformation from Fe ²⁺ -FeOOH nanorods to biocompatible iron oxide nanocapsules. <i>Nature Materials</i> , 2008, 7, 242-247.	13.3	401
51	Chemical Design of Biocompatible Iron Oxide Nanoparticles for Medical Applications. <i>Small</i> , 2013, 9, 1450-1466.	5.2	401
52	High-performance stretchable conductive nanocomposites: materials, processes, and device applications. <i>Chemical Society Reviews</i> , 2019, 48, 1566-1595.	18.7	400
53	Design Principle of Fe-N-C Electrocatalysts: How to Optimize Multimodal Porous Structures?. <i>Journal of the American Chemical Society</i> , 2019, 141, 2035-2045.	6.6	383
54	Synthesis of new nanoporous carbon materials using nanostructured silica materials as templates. <i>Journal of Materials Chemistry</i> , 2004, 14, 478.	6.7	379

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55	Synthesis and biomedical applications of hollow nanostructures. <i>Nano Today</i> , 2009, 4, 359-373.	6.2	370
56	Theranostic Probe Based on Lanthanide-Doped Nanoparticles for Simultaneous In Vivo Dual-Modal Imaging and Photodynamic Therapy. <i>Advanced Materials</i> , 2012, 24, 5755-5761.	11.1	367
57	Nonclassical nucleation and growth of inorganic nanoparticles. <i>Nature Reviews Materials</i> , 2016, 1, .	23.3	343
58	Self-Assembled Fe ₃ O ₄ Nanoparticle Clusters as High-Performance Anodes for Lithium Ion Batteries via Geometric Confinement. <i>Nano Letters</i> , 2013, 13, 4249-4256.	4.5	334
59	Synergistic Oxygen Generation and Reactive Oxygen Species Scavenging by Manganese Ferrite/Ceria Co-decorated Nanoparticles for Rheumatoid Arthritis Treatment. <i>ACS Nano</i> , 2019, 13, 3206-3217.	7.3	325
60	Large-Scale Synthesis of Bioinert Tantalum Oxide Nanoparticles for X-ray Computed Tomography Imaging and Bimodal Image-Guided Sentinel Lymph Node Mapping. <i>Journal of the American Chemical Society</i> , 2011, 133, 5508-5515.	6.6	316
61	Fabrication of Integrated Energy Devices for Wearable Activity Monitors. <i>Advanced Materials</i> , 2014, 26, 6329-6334.	11.1	311
62	Large-scale Soft Colloidal Template Synthesis of 1.4-µm Thick CdSe Nanosheets. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 6861-6864.	7.2	298
63	Synthesis of Highly Crystalline and Monodisperse Cobalt Ferrite Nanocrystals. <i>Journal of Physical Chemistry B</i> , 2002, 106, 6831-6833.	1.2	297
64	Arginine-Rich Manganese Silicate Nanobubbles as a Ferroptosis-Inducing Agent for Tumor-Targeted Theranostics. <i>ACS Nano</i> , 2018, 12, 12380-12392.	7.3	292
65	High-Performance Direct Methanol Fuel Cell Electrodes using Solid-Phase-Synthesized Carbon Nanocoils. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 4352-4356.	7.2	286
66	Chitosan Oligosaccharide-Stabilized Ferrimagnetic Iron Oxide Nanocubes for Magnetically Modulated Cancer Hyperthermia. <i>ACS Nano</i> , 2012, 6, 5266-5273.	7.3	286
67	Generalized Synthesis of Metal Phosphide Nanorods via Thermal Decomposition of Continuously Delivered Metal-Phosphine Complexes Using a Syringe Pump. <i>Journal of the American Chemical Society</i> , 2005, 127, 8433-8440.	6.6	282
68	Fabrication of Novel Mesocellular Carbon Foams with Uniform Ultralarge Mesopores. <i>Journal of the American Chemical Society</i> , 2001, 123, 5146-5147.	6.6	276
69	Low-Temperature Solution-Phase Synthesis of Quantum Well Structured CdSe Nanoribbons. <i>Journal of the American Chemical Society</i> , 2006, 128, 5632-5633.	6.6	270
70	Water-Dispersible Ferrimagnetic Iron Oxide Nanocubes with Extremely High Relaxivity for Highly Sensitive in Vivo MRI of Tumors. <i>Nano Letters</i> , 2012, 12, 3127-3131.	4.5	269
71	Ceria-Zirconia Nanoparticles as an Enhanced Multi-Antioxidant for Sepsis Treatment. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 11399-11403.	7.2	261
72	Flexible quantum dot light-emitting diodes for next-generation displays. <i>Npj Flexible Electronics</i> , 2018, 2, .	5.1	261

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73	Fabrication of New Nanoporous Carbons through Silica Templates and Their Application to the Adsorption of Bulky Dyes. <i>Chemistry of Materials</i> , 2000, 12, 3337-3341.	3.2	246
74	Surface design of magnetic nanoparticles for stimuli-responsive cancer imaging and therapy. <i>Biomaterials</i> , 2017, 136, 98-114.	5.7	244
75	High-resolution three-photon biomedical imaging using doped ZnS nanocrystals. <i>Nature Materials</i> , 2013, 12, 359-366.	13.3	240
76	Large-Scale Nonhydrolytic Sol-Gel Synthesis of Uniform-Sized Ceria Nanocrystals with Spherical, Wire, and Tadpole Shapes. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 7411-7414.	7.2	238
77	Device-assisted transdermal drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2018, 127, 35-45.	6.6	237
78	Nanostructured T1 MRI contrast agents. <i>Journal of Materials Chemistry</i> , 2009, 19, 6267.	6.7	233
79	Direct Synthesis of Self-Assembled Ferrite/Carbon Hybrid Nanosheets for High Performance Lithium-Ion Battery Anodes. <i>Journal of the American Chemical Society</i> , 2012, 134, 15010-15015.	6.6	231
80	Long-Term Real-Time Tracking of Lanthanide Ion Doped Upconverting Nanoparticles in Living Cells. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 6093-6097.	7.2	230
81	Generalized Fabrication of Multifunctional Nanoparticle Assemblies on Silica Spheres. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 4789-4793.	7.2	227
82	Facile Synthesis of Various Phosphine-Stabilized Monodisperse Palladium Nanoparticles through the Understanding of Coordination Chemistry of the Nanoparticles. <i>Nano Letters</i> , 2004, 4, 1147-1151.	4.5	226
83	Giant Zeeman splitting in nucleation-controlled doped CdSe:Mn ²⁺ quantum nanoribbons. <i>Nature Materials</i> , 2010, 9, 47-53.	13.3	222
84	Multifunctional Fe ₃ O ₄ /TaO _x Core/Shell Nanoparticles for Simultaneous Magnetic Resonance Imaging and X-ray Computed Tomography. <i>Journal of the American Chemical Society</i> , 2012, 134, 10309-10312.	6.6	219
85	Synthesis and Biomedical Applications of Multifunctional Nanoparticles. <i>Advanced Materials</i> , 2018, 30, e1802309.	11.1	216
86	Designed Assembly and Integration of Colloidal Nanocrystals for Device Applications. <i>Advanced Materials</i> , 2016, 28, 1176-1207.	11.1	211
87	Synthesis of Uniform Hollow Oxide Nanoparticles through Nanoscale Acid Etching. <i>Nano Letters</i> , 2008, 8, 4252-4258.	4.5	210
88	Ceria Nanoparticle Systems for Selective Scavenging of Mitochondrial, Intracellular, and Extracellular Reactive Oxygen Species in Parkinson's Disease. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 9408-9412.	7.2	204
89	Bioresorbable Electronic Stent Integrated with Therapeutic Nanoparticles for Endovascular Diseases. <i>ACS Nano</i> , 2015, 9, 5937-5946.	7.3	203
90	Synthesis, Characterization, and Self-Assembly of Pencil-Shaped CoO Nanorods. <i>Journal of the American Chemical Society</i> , 2006, 128, 9753-9760.	6.6	201

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91	One-Pot Synthesis of Copper ²⁺ Indium Sulfide Nanocrystal Heterostructures with Acorn, Bottle, and Larva Shapes. <i>Journal of the American Chemical Society</i> , 2006, 128, 2520-2521.	6.6	192
92	Facile scalable synthesis of magnetite nanocrystals embedded in carbon matrix as superior anode materials for lithium-ion batteries. <i>Chemical Communications</i> , 2010, 46, 118-120.	2.2	192
93	Ultrathin Quantum Dot Display Integrated with Wearable Electronics. <i>Advanced Materials</i> , 2017, 29, 1700217.	11.1	187
94	Highly conductive and elastic nanomembrane for skin electronics. <i>Science</i> , 2021, 373, 1022-1026.	6.0	186
95	Recent Advances in Electrochemical Oxygen Reduction to H ₂ O ₂ : Catalyst and Cell Design. <i>ACS Energy Letters</i> , 2020, 5, 1881-1892.	8.8	185
96	Magnetosome-like ferrimagnetic iron oxide nanocubes for highly sensitive MRI of single cells and transplanted pancreatic islets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 2662-2667.	3.3	183
97	Synthesis of Hollow Iron Nanoframes. <i>Journal of the American Chemical Society</i> , 2007, 129, 5812-5813.	6.6	182
98	Highly Sensitive Diagnosis of Small Hepatocellular Carcinoma Using pH-Responsive Iron Oxide Nanocluster Assemblies. <i>Journal of the American Chemical Society</i> , 2018, 140, 10071-10074.	6.6	182
99	Curved neuromorphic image sensor array using a MoS ₂ -organic heterostructure inspired by the human visual recognition system. <i>Nature Communications</i> , 2020, 11, 5934.	5.8	182
100	Electromechanical cardioplasty using a wrapped elasto-conductive epicardial mesh. <i>Science Translational Medicine</i> , 2016, 8, 344ra86.	5.8	181
101	Mesenchymal stem cell-derived magnetic extracellular nanovesicles for targeting and treatment of ischemic stroke. <i>Biomaterials</i> , 2020, 243, 119942.	5.7	176
102	Highly Efficient Copper ²⁺ Indium ³⁺ Selenide Quantum Dot Solar Cells: Suppression of Carrier Recombination by Controlled ZnS Overlayers. <i>ACS Nano</i> , 2015, 9, 11286-11295.	7.3	175
103	Cephalopod ²⁺ Inspired Miniaturized Suction Cups for Smart Medical Skin. <i>Advanced Healthcare Materials</i> , 2016, 5, 80-87.	3.9	175
104	Surface ligands in synthesis, modification, assembly and biomedical applications of nanoparticles. <i>Nano Today</i> , 2014, 9, 457-477.	6.2	169
105	Simple and Generalized Synthesis of Oxide ²⁺ Metal Heterostructured Nanoparticles and their Applications in Multimodal Biomedical Probes. <i>Journal of the American Chemical Society</i> , 2008, 130, 15573-15580.	6.6	162
106	Direct Synthesis of Intermetallic Platinum ²⁺ Alloy Nanoparticles Highly Loaded on Carbon Supports for Efficient Electrocatalysis. <i>Journal of the American Chemical Society</i> , 2020, 142, 14190-14200.	6.6	160
107	An endoscope with integrated transparent bioelectronics and theranostic nanoparticles for colon cancer treatment. <i>Nature Communications</i> , 2015, 6, 10059.	5.8	159
108	Extremely Vivid, Highly Transparent, and Ultrathin Quantum Dot Light ²⁺ Emitting Diodes. <i>Advanced Materials</i> , 2018, 30, 1703279.	11.1	157

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109	Thermally Controlled, Patterned Graphene Transfer Printing for Transparent and Wearable Electronic/Optoelectronic System. <i>Advanced Functional Materials</i> , 2015, 25, 7109-7118.	7.8	155
110	Ultra-Wideband Multi-Dye-Sensitized Upconverting Nanoparticles for Information Security Application. <i>Advanced Materials</i> , 2017, 29, 1603169.	11.1	153
111	Colloidal Synthesis of Uniform-Sized Molybdenum Disulfide Nanosheets for Wafer-Scale Flexible Nonvolatile Memory. <i>Advanced Materials</i> , 2016, 28, 9326-9332.	11.1	151
112	Wearable Force Touch Sensor Array Using a Flexible and Transparent Electrode. <i>Advanced Functional Materials</i> , 2017, 27, 1605286.	7.8	151
113	Iron oxide nanoclusters for T1 magnetic resonance imaging of non-human primates. <i>Nature Biomedical Engineering</i> , 2017, 1, 637-643.	11.6	151
114	Flexible, sticky, and biodegradable wireless device for drug delivery to brain tumors. <i>Nature Communications</i> , 2019, 10, 5205.	5.8	148
115	Parallel Comparative Studies on Mouse Toxicity of Oxide Nanoparticle- and Gadolinium-Based T1 MRI Contrast Agents. <i>ACS Nano</i> , 2015, 9, 12425-12435.	7.3	145
116	Tissue-like skin-device interface for wearable bioelectronics by using ultrasoft, mass-permeable, and low-impedance hydrogels. <i>Science Advances</i> , 2021, 7, .	4.7	144
117	Multifunctional Wearable System that Integrates Sweat-Based Sensing and Vital Sign Monitoring to Estimate Pre-/Post-Exercise Glucose Levels. <i>Advanced Functional Materials</i> , 2018, 28, 1805754.	7.8	143
118	A wearable multiplexed silicon nonvolatile memory array using nanocrystal charge confinement. <i>Science Advances</i> , 2016, 2, e1501101.	4.7	139
119	Dual Roles of Graphene Oxide in Chondrogenic Differentiation of Adult Stem Cells: Cell Adhesion Substrate and Growth Factor Delivery Carrier. <i>Advanced Functional Materials</i> , 2014, 24, 6455-6464.	7.8	138
120	Dynamically Reversible Iron Oxide Nanoparticle Assemblies for Targeted Amplification of T1-Weighted Magnetic Resonance Imaging of Tumors. <i>Nano Letters</i> , 2019, 19, 4213-4220.	4.5	137
121	Therapeutic Efficacy-Potentiated and Diseased Organ-Targeting Nanovesicles Derived from Mesenchymal Stem Cells for Spinal Cord Injury Treatment. <i>Nano Letters</i> , 2018, 18, 4965-4975.	4.5	133
122	Filtration-Free Recyclable Catalytic Asymmetric Dihydroxylation Using a Ligand Immobilized on Magnetic Mesocellular Mesoporous Silica. <i>Advanced Synthesis and Catalysis</i> , 2006, 348, 41-46.	2.1	130
123	Applications of inorganic nanoparticles as therapeutic agents. <i>Nanotechnology</i> , 2014, 25, 012001.	1.3	129
124	Simple synthesis of Pd-Fe ₃ O ₄ heterodimer nanocrystals and their application as a magnetically recyclable catalyst for Suzuki cross-coupling reactions. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 2512.	1.3	126
125	Stretchable and Transparent Biointerface Using Cell-Sheet-Graphene Hybrid for Electrophysiology and Therapy of Skeletal Muscle. <i>Advanced Functional Materials</i> , 2016, 26, 3207-3217.	7.8	123
126	Defect Engineering for High-Performance n-Type PbSe Thermoelectrics. <i>Journal of the American Chemical Society</i> , 2018, 140, 9282-9290.	6.6	123

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127	Iron Oxide Nanoparticle-Mediated Development of Cellular Gap Junction Crosstalk to Improve Mesenchymal Stem Cells'™ Therapeutic Efficacy for Myocardial Infarction. <i>ACS Nano</i> , 2015, 9, 2805-2819.	7.3	122
128	Enhanced Chemodynamic Therapy by Cu'Fe Peroxide Nanoparticles: Tumor Microenvironment-Mediated Synergistic Fenton Reaction. <i>ACS Nano</i> , 2022, 16, 2535-2545.	7.3	120
129	Multiple'Interaction Ligands Inspired by Mussel Adhesive Protein: Synthesis of Highly Stable and Biocompatible Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11360-11365.	7.2	117
130	Fully Stretchable Optoelectronic Sensors Based on Colloidal Quantum Dots for Sensing Photoplethysmographic Signals. <i>ACS Nano</i> , 2017, 11, 5992-6003.	7.3	115
131	Hybrid Cellular Nanosheets for High-Performance Lithium-Ion Battery Anodes. <i>Journal of the American Chemical Society</i> , 2015, 137, 11954-11961.	6.6	114
132	Fabrication of a novel polypyrrole/poly(methyl methacrylate) coaxial nanocable using mesoporous silica as a nanoreactor. <i>Chemical Communications</i> , 2001, , 83-84.	2.2	113
133	Simple one-pot synthesis of Rh'Fe ₃ O ₄ heterodimer nanocrystals and their applications to a magnetically recyclable catalyst for efficient and selective reduction of nitroarenes and alkenes. <i>Chemical Communications</i> , 2011, 47, 3601.	2.2	112
134	Facile and economical synthesis of hierarchical carbon-coated magnetite nanocomposite particles and their applications in lithium ion battery anodes. <i>Energy and Environmental Science</i> , 2012, 5, 9528.	15.6	111
135	Enhancing p-Type Thermoelectric Performances of Polycrystalline SnSe via Tuning Phase Transition Temperature. <i>Journal of the American Chemical Society</i> , 2017, 139, 10887-10896.	6.6	110
136	Inorganic nanoparticles with enzyme-mimetic activities for biomedical applications. <i>Coordination Chemistry Reviews</i> , 2020, 403, 213092.	9.5	110
137	Nanovesicles derived from iron oxide nanoparticles'incorporated mesenchymal stem cells for cardiac repair. <i>Science Advances</i> , 2020, 6, eaaz0952.	4.7	109
138	Colloidal cobalt nanoparticles: a highly active and reusable Pauson'Khand catalyst. <i>Chemical Communications</i> , 2001, , 2212-2213.	2.2	104
139	High-Performance n-Type PbSe'Cu ₂ Se Thermoelectrics through Conduction Band Engineering and Phonon Softening. <i>Journal of the American Chemical Society</i> , 2018, 140, 15535-15545.	6.6	103
140	Critical differences in 3D atomic structure of individual ligand-protected nanocrystals in solution. <i>Science</i> , 2020, 368, 60-67.	6.0	103
141	Toward Full-Color Electroluminescent Quantum Dot Displays. <i>Nano Letters</i> , 2021, 21, 26-33.	4.5	103
142	pH-Sensitive Pt Nanocluster Assembly Overcomes Cisplatin Resistance and Heterogeneous Stemness of Hepatocellular Carcinoma. <i>ACS Central Science</i> , 2016, 2, 802-811.	5.3	101
143	Dimension'Controlled Synthesis of CdS Nanocrystals: From 0D Quantum Dots to 2D Nanoplates. <i>Small</i> , 2012, 8, 2394-2402.	5.2	99
144	Large'Scale Synthesis and Medical Applications of Uniform'Sized Metal Oxide Nanoparticles. <i>Advanced Materials</i> , 2018, 30, e1704290.	11.1	97

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145	In Vivo Micro-CT Imaging of Human Mesenchymal Stem Cells Labeled with Gold-Poly-L-Lysine Nanocomplexes. <i>Advanced Functional Materials</i> , 2017, 27, 1604213.	7.8	95
146	Versatile PEG-derivatized phosphine oxide ligands for water-dispersible metal oxide nanocrystals. <i>Chemical Communications</i> , 2007, , 5167.	2.2	93
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