

Yanjie he

List of Publications by Year in descending order

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papers

3,849
citations

136950

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all docs

68
docs citations

68
times ranked

5652
citing authors

#	ARTICLE	IF	CITATIONS
1	Meniscus-assisted solution printing of large-grained perovskite films for high-efficiency solar cells. Nature Communications, 2017, 8, 16045.	12.8	359
2	1D nanocrystals with precisely controlled dimensions, compositions, and architectures. Science, 2016, 353, 1268-1272.	12.6	316
3	Polymer-templated Formation of Polydopamine-coated SnO ₂ Nanocrystals: Anodes for Cyclable Lithium-ion Batteries. Angewandte Chemie - International Edition, 2017, 56, 1869-1872.	13.8	260
4	Monodisperse Dual-functional Upconversion Nanoparticles Enabled Near-infrared Organolead Halide Perovskite Solar Cells. Angewandte Chemie - International Edition, 2016, 55, 4280-4284.	13.8	257
5	Highly Branched Metal Alloy Networks with Superior Activities for the Methanol Oxidation Reaction. Angewandte Chemie - International Edition, 2017, 56, 4488-4493.	13.8	210
6	<i>In-Situ</i> Crafting of ZnFe ₂ O ₄ Nanoparticles Impregnated within Continuous Carbon Network as Advanced Anode Materials. ACS Nano, 2016, 10, 2728-2735.	14.6	192
7	Bottlebrush polymers: From controlled synthesis, self-assembly, properties to applications. Progress in Polymer Science, 2021, 116, 101387.	24.7	138
8	Enabling Tailorable Optical Properties and Markedly Enhanced Stability of Perovskite Quantum Dots by Permanently Ligating with Polymer Hairs. Advanced Materials, 2019, 31, e1901602.	21.0	119
9	Unconventional route to dual-shelled organolead halide perovskite nanocrystals with controlled dimensions, surface chemistry, and stabilities. Science Advances, 2019, 5, eaax4424.	10.3	116
10	Interconnected Ni(HCO ₃) ₂ Hollow Spheres Enabled by Self-Sacrificial Templating with Enhanced Lithium Storage Properties. ACS Energy Letters, 2017, 2, 111-116.	17.4	108
11	Recent Advances in Synthesis, Properties, and Applications of Metal Halide Perovskite Nanocrystals/Polymer Nanocomposites. Advanced Materials, 2021, 33, e2005888.	21.0	108
12	Hairy Uniform Permanently Ligated Hollow Nanoparticles with Precise Dimension Control and Tunable Optical Properties. Journal of the American Chemical Society, 2017, 139, 12956-12967.	13.7	107
13	Light-enabled reversible self-assembly and tunable optical properties of stable hairy nanoparticles. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E1391-E1400.	7.1	106
14	A Robust Route to Co ₂ (OH) ₂ CO ₃ Ultrathin Nanosheets with Superior Lithium Storage Capability Templated by Aspartic Acid-functionalized Graphene Oxide. Advanced Energy Materials, 2019, 9, 1901093.	19.5	94
15	Nonepitaxial growth of uniform and precisely size-tunable core/shell nanoparticles and their enhanced plasmon-driven photocatalysis. Journal of Materials Chemistry A, 2016, 4, 7190-7199.	10.3	85
16	All-Inorganic Perovskite Nanocrystals with a Stellar Set of Stabilities and Their Use in White Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2018, 10, 37267-37276.	8.0	82
17	Unconventional Route to Hairy Plasmonic/Semiconductor Core/Shell Nanoparticles with Precisely Controlled Dimensions and Their Use in Solar Energy Conversion. Chemistry of Materials, 2015, 27, 5271-5278.	6.7	76
18	Hollow titanium dioxide spheres as anode material for lithium ion battery with largely improved rate stability and cycle performance by suppressing the formation of solid electrolyte interface layer. Journal of Materials Chemistry A, 2015, 3, 13340-13349.	10.3	71

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19	Monodisperse Dual-Functional Upconversion Nanoparticles Enabled Near-Infrared Organolead Halide Perovskite Solar Cells. <i>Angewandte Chemie</i> , 2016, 128, 4352-4356.	2.0	71
20	SnO ₂ as Advanced Anode of Alkali-Ion Batteries: Inhibiting Sn Coarsening by Crafting Robust Physical Barriers, Void Boundaries, and Heterophase Interfaces for Superior Electrochemical Reaction Reversibility. <i>Advanced Energy Materials</i> , 2020, 10, 1902657.	19.5	71
21	Precisely Size-Tunable Magnetic/Plasmonic Core/Shell Nanoparticles with Controlled Optical Properties. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12091-12096.	13.8	69
22	A general route to nanocrystal kebabs periodically assembled on stretched flexible polymer shish. <i>Science Advances</i> , 2015, 1, e1500025.	10.3	69
23	Precisely Size-Tunable Monodisperse Hairy Plasmonic Nanoparticles via Amphiphilic Star-Like Block Copolymers. <i>Small</i> , 2016, 12, 6714-6723.	10.0	68
24	Block copolymer/ferroelectric nanoparticle nanocomposites. <i>Nanoscale</i> , 2013, 5, 8695.	5.6	54
25	An Unconventional Route to Monodisperse and Intimately Contacted Semiconducting Organic-Inorganic Nanocomposites. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4636-4640.	13.8	54
26	Dual-Protected Metal Halide Perovskite Nanosheets with an Enhanced Set of Stabilities. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7259-7266.	13.8	45
27	A versatile strategy for uniform hybrid nanoparticles and nanocapsules. <i>Polymer Chemistry</i> , 2015, 6, 5190-5197.	3.9	43
28	Robust Route to Unimolecular Core-Shell and Hollow Polymer Nanoparticles. <i>Chemistry of Materials</i> , 2014, 26, 6058-6067.	6.7	42
29	Ultrafast Visible-Light-Induced ATRP in Aqueous Media with Carbon Quantum Dots as the Catalyst and Its Application for 3D Printing. <i>Journal of the American Chemical Society</i> , 2022, 144, 9817-9826.	13.7	41
30	Highly Branched Metal Alloy Networks with Superior Activities for the Methanol Oxidation Reaction. <i>Angewandte Chemie</i> , 2017, 129, 4559-4564.	2.0	40
31	Unconventional Route to Uniform Hollow Semiconducting Nanoparticles with Tailorable Dimensions, Compositions, Surface Chemistry, and Near-Infrared Absorption. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12946-12951.	13.8	34
32	Advancing Performance and Unfolding Mechanism of Lithium and Sodium Storage in SnO ₂ via Precision Synthesis of Monodisperse PEG-Ligated Nanoparticles. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	34
33	Effect of combined magnetic field on the eliminating inclusions from liquid aluminum alloy. <i>Materials Letters</i> , 2011, 65, 1226-1228.	2.6	26
34	Polymer-Templated Formation of Polydopamine-Coated SnO ₂ Nanocrystals: Anodes for Cyclable Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2017, 129, 1895-1898.	2.0	26
35	Tailoring electrocatalytic activity of in situ crafted perovskite oxide nanocrystals via size and dopant control. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	22
36	Confined Unimolecular Micelles for Precisely Controlled In Situ Synthesis of Stable Ultrasmall Metal Nanocluster Assemblies. <i>Chemistry of Materials</i> , 2021, 33, 5067-5075.	6.7	20

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37	Effect of nitrogen type on carbon dot photocatalysts for visible-light-induced atom transfer radical polymerization. <i>Polymer Chemistry</i> , 2021, 12, 3060-3066.	3.9	17
38	Synthesis of Amphiphilic and Double Hydrophilic Star-like Block Copolymers and the Dual pH-Responsiveness of Unimolecular Micelle. <i>Macromolecules</i> , 2020, 53, 8286-8295.	4.8	15
39	Simple Full-Spectrum Heterogeneous Photocatalyst for Photo-induced Atom Transfer Radical Polymerization (ATRP) under UV/vis/NIR and its Application for the Preparation of Dual Mode Curing Injectable Photoluminescence Hydrogel. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 21555-21563.	8.0	15
40	Dimensional Optimization for ZnO-Based Mechano-ATRP with Extraordinary Activity. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 4884-4890.	4.6	15
41	Separating Effect of a Novel Combined Magnetic Field on Inclusions in Molten Aluminum Alloy. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2012, 43, 1149-1155.	2.1	10
42	Continuous crafting of uniform colloidal nanocrystals using an inert-gas-driven microflow reactor. <i>Nanoscale</i> , 2015, 7, 9731-9737.	5.6	10
43	Dual-Protected Metal Halide Perovskite Nanosheets with an Enhanced Set of Stabilities. <i>Angewandte Chemie</i> , 2021, 133, 7335-7342.	2.0	10
44	Dual enhancement of carrier generation and migration on Au/g-C ₃ N ₄ photocatalysts for highly-efficient broadband PET-RAFT polymerization. <i>Polymer Chemistry</i> , 2022, 13, 1022-1030.	3.9	9
45	Unconventional Route to Uniform Hollow Semiconducting Nanoparticles with Tailorable Dimensions, Compositions, Surface Chemistry, and Near-Infrared Absorption. <i>Angewandte Chemie</i> , 2017, 129, 13126-13131.	2.0	8
46	Simple and robust nitroxide-mediated polymerization with oxygen tolerance. <i>Polymer Chemistry</i> , 2021, 12, 7010-7015.	3.9	8
47	Polymer-Ligated Uniform Lead Chalcogenide Nanoparticles with Tunable Size and Robust Stability Enabled by Judiciously Designed Surface Chemistry. <i>Chemistry of Materials</i> , 2021, 33, 6701-6712.	6.7	6
48	Mechanically induced atom transfer radical polymerization with high efficiency via piezoelectric heterostructures. <i>Polymer</i> , 2022, 252, 124949.	3.8	6
49	Unconventional Approach to Fabricating a TiO ₂ Nanoring with Precise Dimension Control Based on Starlike Polymeric Nanoreactors. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3456-3463.	4.6	5
50	Effect of Electromagnetic Vibration on the Agglomeration Behavior of Primary Silicon in Hypereutectic Al-Si Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012, 43, 1400-1404.	2.2	4
51	From 0-dimension to 1-dimensions: Au nanocrystals as versatile plasmonic photocatalyst for broadband light induced RAFT polymerization. <i>Polymer Chemistry</i> , 2021, 12, 2439-2446.	3.9	4
52	General Route to Colloidal Nanocrystal Clusters with Precise Hierarchical Control via Star-like Nanoreactors. <i>Langmuir</i> , 2021, 37, 10461-10468.	3.5	4
53	Preparation of highly colloidal stable Yolk-Shell nanocomposite and its multi-stimuli responsive based on surface aggregation-induced emission (S-AIE). <i>Journal of Colloid and Interface Science</i> , 2021, 600, 421-429.	9.4	4
54	Innen-Äußere Dual-Funktionale Upconversion Nanopartikel Enabled Near-Infrared Organolead Halide Perovskite Solar Cells (<i>Angew. Chem.</i> 13/2016). <i>Angewandte Chemie</i> , 2016, 128, 4441-4441.	2.0	3

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55	R&A-templated Formation of Polydopamine-Coated SnO ₂ Nanocrystals: Anodes for Cyclable Lithium-Ion Batteries (Angew. Chem. 7/2017). Angewandte Chemie, 2017, 129, 1958-1958.	2.0	2
56	Alkali-Ion Batteries: SnO ₂ as Advanced Anode of Alkali-Ion Batteries: Inhibiting Sn Coarsening by Crafting Robust Physical Barriers, Void Boundaries, and Heterophase Interfaces for Superior Electrochemical Reaction Reversibility (Adv. Energy Mater. 6/2020). Advanced Energy Materials, 2020, 10, 2070027.	19.5	2
57	Continuous Preparation of Homogeneous Crosslinked PDMS Microgel Particles through Photoinduced Reversible Addition-Fragmentation Chain Transfer Polymerization. ACS Applied Polymer Materials, 2022, 4, 4347-4354.	4.4	2
58	Magnetolectric Effect in Single-Phase Multiferroic Materials. , 2018, , 49-75.		1
59	In situ monitoring of photo-PISA via aggregation-induced emission (AIE) technology. Journal of Polymer Research, 2022, 29, 1.	2.4	1
60	Inner-templated: An Unconventional Route to Monodisperse and Intimately Contacted Semiconducting Organic-Inorganic Nanocomposites (Angew. Chem. 15/2015). Angewandte Chemie, 2015, 127, 4761-4761.	2.0	0
61	Inner-templated: Unconventional Route to Uniform Hollow Semiconducting Nanoparticles with Tailorable Dimensions, Compositions, Surface Chemistry, and Near-Infrared Absorption (Angew. Chem.) Tj ETQq1210.784314 rgBT /Ov	10.7843	14