Yu Han

List of Publications by Year
in descending order

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429 papers	45,704 citations	1697 104 h-index	2375 198 g-index
450 all docs	450 docs citations	450 times ranked	43784 citing authors

#	Article	IF	Citations
1	Simultaneous phase and size control of upconversion nanocrystals through lanthanide doping. Nature, 2010, 463, 1061-1065.	13.7	2,872
2	Hydrogen evolution by a metal-free electrocatalyst. Nature Communications, 2014, 5, 3783.	5.8	1,851
3	Tuning upconversion through energy migration in coreâ€“shell nanoparticles. Nature Materials, 2011, 10, 968-973.	13.3	1,570
4	Molecule-Level g-C₃N₄ Coordinated Transition Metals as a New Class of Electrocatalysts for Oxygen Electrode Reactions. Journal of the American Chemical Society, 2017, 139, 3336-3339.	6.6	1,094
5	Pore chemistry and size control in hybrid porous materials for acetylene capture from ethylene. Science, 2016, 353, 141-144.	6.0	1,088
6	Managing grains and interfaces via ligand anchoring enables 22.3%-efficiency inverted perovskite solar cells. Nature Energy, 2020, 5, 131-140.	19.8	894
7	High Electrocatalytic Hydrogen Evolution Activity of an Anomalous Ruthenium Catalyst. Journal of the American Chemical Society, 2016, 138, 16174-16181.	6.6	852
8	Ordered macro-microporous metal-organic framework single crystals. Science, 2018, 359, 206-210.	6.0	836
9	Sub-10 nm Fe₃O₄@Cu_{2â€“x}S Coreâ€“Shell Nanoparticles for Dual-Modal Imaging and Photothermal Therapy. Journal of the American Chemical Society, 2013, 135, 8571-8577.	6.6	581
10	Out-of-Plane Piezoelectricity and Ferroelectricity in Layered Î±-In₂Se₃ Nanoflakes. Nano Letters, 2017, 17, 5508-5513.	4.5	567
11	Thermally stable single atom Pt/m-Al2O3 for selective hydrogenation and CO oxidation. Nature Communications, 2017, 8, 16100.	5.8	545
12	Enhancing multiphoton upconversion through energy clustering at sublattice level. Nature Materials, 2014, 13, 157-162.	13.3	528
13	Monolayer MoSe₂ Grown by Chemical Vapor Deposition for Fast Photodetection. ACS Nano, 2014, 8, 8582-8590.	7.3	515
14	UTSA-74: A MOF-74 Isomer with Two Accessible Binding Sites per Metal Center for Highly Selective Gas Separation. Journal of the American Chemical Society, 2016, 138, 5678-5684.	6.6	489
15	Ultrathin Two-Dimensional Covalent Organic Framework Nanosheets: Preparation and Application in Highly Sensitive and Selective DNA Detection. Journal of the American Chemical Society, 2017, 139, 8698-8704.	6.6	440
16	Enhanced Binding Affinity, Remarkable Selectivity, and High Capacity of CO₂ by Dual Functionalization of a rhtâ€Type Metalâ€“Organic Framework. Angewandte Chemie - International Edition, 2012, 51, 1412-1415.	7.2	430
17	A perfluorinated covalent triazine-based framework for highly selective and waterâ€“tolerant CO2 capture. Energy and Environmental Science, 2013, 6, 3684.	15.6	429
18	High-quality sandwiched black phosphorus heterostructure and its quantum oscillations. Nature Communications, 2015, 6, 7315.	5.8	423

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19	Two-dimensional semiconducting covalent organic frameworks via condensation at arylmethyl carbon atoms. Nature Communications, 2019, 10, 2467.	5.8	414
20	Microporous metalâ€“organic framework with dual functionalities for highly efficient removal of acetylene from ethylene/acetylene mixtures. Nature Communications, 2015, 6, 7328.	5.8	404
21	Introduction of Ï€-Complexation into Porous Aromatic Framework for Highly Selective Adsorption of Ethylene over Ethane. Journal of the American Chemical Society, 2014, 136, 8654-8660.	6.6	383
22	Strongly Acidic and High-Temperature Hydrothermally Stable Mesoporous Aluminosilicates with Ordered Hexagonal Structure. Angewandte Chemie - International Edition, 2001, 40, 1258-1262.	7.2	378
23	Atomic-resolution transmission electron microscopy of electron beamâ€“sensitive crystalline materials. Science, 2018, 359, 675-679.	6.0	374
24	Imaging defects and their evolution in a metalâ€“organic framework at sub-unit-cell resolution. Nature Chemistry, 2019, 11, 622-628.	6.6	371
25	CoP nanosheet assembly grown on carbon cloth: A highly efficient electrocatalyst for hydrogen generation. Nano Energy, 2015, 15, 634-641.	8.2	357
26	Metal Halide Perovskite Nanosheet for X-ray High-Resolution Scintillation Imaging Screens. ACS Nano, 2019, 13, 2520-2525.	7.3	346
27	Full-color fluorescent carbon quantum dots. Science Advances, 2020, 6, .	4.7	344
28	Mesoporous Aluminosilicates with Ordered Hexagonal Structure, Strong Acidity, and Extraordinary Hydrothermal Stability at High Temperatures. Journal of the American Chemical Society, 2001, 123, 5014-5021.	6.6	343
29	Lanthanide-Doped Na_xScF_{3+x} Nanocrystals: Crystal Structure Evolution and Multicolor Tuning. Journal of the American Chemical Society, 2012, 134, 8340-8343.	6.6	315
30	Creating Hierarchical Pores by Controlled Linker Thermolysis in Multivariate Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2018, 140, 2363-2372.	6.6	310
31	3D Hierarchical ZnIn₂S₄ Nanosheets with Rich Zn Vacancies Boosting Photocatalytic CO₂ Reduction. Advanced Functional Materials, 2019, 29, 1905153.	7.8	308
32	Unravelling surface and interfacial structures of a metalâ€“organic framework by transmission electron microscopy. Nature Materials, 2017, 16, 532-536.	13.3	306
33	Sinter-resistant metal nanoparticle catalysts achieved by immobilization within zeolite crystals via seed-directed growth. Nature Catalysis, 2018, 1, 540-546.	16.1	297
34	Synthesis of Heteroatom Substituted SBA-15 by the â€œpH-Adjustingâ€•Method. Chemistry of Materials, 2004, 16, 486-492.	3.2	291
35	A Rodâ€Packing Microporous Hydrogenâ€Bonded Organic Framework for Highly Selective Separation of C₂H₂/CO₂ at Room Temperature. Angewandte Chemie - International Edition, 2015, 54, 574-577.	7.2	289
36	Short-Range Ordered Iridium Single Atoms Integrated into Cobalt Oxide Spinel Structure for Highly Efficient Electrocatalytic Water Oxidation. Journal of the American Chemical Society, 2021, 143, 5201-5211.	6.6	287

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37	Controlled nâ€Doping in Airâ€Stable CsPbI₂Br Perovskite Solar Cells with a Record Efficiency of 16.79%. Advanced Functional Materials, 2020, 30, 1909972.	7.8	282
38	Highly Mesoporous Single-Crystalline Zeolite Beta Synthesized Using a Nonsurfactant Cationic Polymer as a Dual-Function Template. Journal of the American Chemical Society, 2014, 136, 2503-2510.	6.6	266
39	Artificial channels for confined mass transport at the sub-nanometre scale. Nature Reviews Materials, 2021, 6, 294-312.	23.3	263
40	Topologically guided tuning of Zr-MOF pore structures for highly selective separation of C6 alkane isomers. Nature Communications, 2018, 9, 1745.	5.8	251
41	Generalized Fluorocarbon-Surfactant-Mediated Synthesis of Nanoparticles with Various Mesoporous Structures. Angewandte Chemie - International Edition, 2005, 44, 288-292.	7.2	244
42	Tailorâ€Made Microporous Metalâ€“Organic Frameworks for the Full Separation of Propane from Propylene Through Selective Size Exclusion. Advanced Materials, 2018, 30, e1805088.	11.1	241
43	Investigating the Origin of Enhanced C₂₊ Selectivity in Oxide-/Hydroxide-Derived Copper Electrodes during CO₂ Electroreduction. Journal of the American Chemical Society, 2020, 142, 4213-4222.	6.6	236
44	Metalâ€“Organic Framework-Based Separators for Enhancing Liâ€“S Battery Stability: Mechanism of Mitigating Polysulfide Diffusion. ACS Energy Letters, 2017, 2, 2362-2367.	8.8	229
45	Site-Specific Growth of Auâ€“Pd Alloy Horns on Au Nanorods: A Platform for Highly Sensitive Monitoring of Catalytic Reactions by Surface Enhancement Raman Spectroscopy. Journal of the American Chemical Society, 2013, 135, 8552-8561.	6.6	226
46	Quantum Dots Supply Bulk- and Surface-Passivation Agents for Efficient and Stable Perovskite Solar Cells. Joule, 2019, 3, 1963-1976.	11.7	222
47	Polymers of intrinsic microporosity for energy-intensive membrane-based gas separations. Materials Today Nano, 2018, 3, 69-95.	2.3	214
48	A Novel Method for Incorporation of Heteroatoms into the Framework of Ordered Mesoporous Silica Materials Synthesized in Strong Acidic Media. Journal of Physical Chemistry B, 2001, 105, 7963-7966.	1.2	211
49	Hydrothermally Stable Ordered Mesoporous Titanosilicates with Highly Active Catalytic Sites. Journal of the American Chemical Society, 2002, 124, 888-889.	6.6	210
50	Chlorine Vacancy Passivation in Mixed Halide Perovskite Quantum Dots by Organic Pseudohalides Enables Efficient Rec. 2020 Blue Light-Emitting Diodes. ACS Energy Letters, 2020, 5, 793-798.	8.8	208
51	The first example of commensurate adsorption of atomic gas in a MOF and effective separation of xenon from other noble gases. Chemical Science, 2014, 5, 620-624.	3.7	203
52	Inside Perovskites: Quantum Luminescence from Bulk Cs₄PbBr₆ Single Crystals. Chemistry of Materials, 2017, 29, 7108-7113.	3.2	200
53	Superior Capture of CO₂ Achieved by Introducing Extra-framework Cations into N-doped Microporous Carbon. Chemistry of Materials, 2012, 24, 4725-4734.	3.2	199
54	Ultrathin graphdiyne film on graphene through solution-phase van der Waals epitaxy. Science Advances, 2018, 4, eaat6378.	4.7	198

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55	A nitrogen-rich covalent organic framework for simultaneous dynamic capture of iodine and methyl iodide. CheM, 2021, 7, 699-714.	5.8	197
56	Surface modification-induced phase transformation of hexagonal close-packed gold square sheets. Nature Communications, 2015, 6, 6571.	5.8	195
57	Synthesis and Gas Transport Properties of Hydroxyl-Functionalized Polyimides with Intrinsic Microporosity. Macromolecules, 2012, 45, 3841-3849.	2.2	193
58	Label-free, electrochemical detection of methicillin-resistant staphylococcus aureus DNA with reduced graphene oxide-modified electrodes. Biosensors and Bioelectronics, 2011, 26, 3881-3886.	5.3	191
59	Mixed-dimensional MXene-hydrogel heterostructures for electronic skin sensors with ultrabroad working range. Science Advances, 2020, 6, .	4.7	182
60	Probing the electron states and metal-insulator transition mechanisms in molybdenum disulphide vertical heterostructures. Nature Communications, 2015, 6, 6088.	5.8	181
61	Reverse Microemulsion-Mediated Synthesis of Silica-Coated Gold and Silver Nanoparticles. Langmuir, 2008, 24, 5842-5848.	1.6	180
62	Hydrothermally Stable Ordered Hexagonal Mesoporous Aluminosilicates Assembled from a Triblock Copolymer and Preformed Aluminosilicate Precursors in Strongly Acidic Media. Chemistry of Materials, 2002, 14, 1144-1148.	3.2	177
63	Controlled growth of high-density CdS and CdSe nanorod arrays on selective facets of two-dimensional semiconductor nanoplates. Nature Chemistry, 2016, 8, 470-475.	6.6	177
64	Novel porous carbon materials with ultrahigh nitrogen contents for selective CO2 capture. Journal of Materials Chemistry, 2012, 22, 19726.	6.7	171
65	Capture of organic iodides from nuclear waste by metal-organic framework-based molecular traps. Nature Communications, 2017, 8, 485.	5.8	171
66	Catalytic amino acid production from biomass-derived intermediates. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 5093-5098.	3.3	168
67	A Novel Anion Doping for Stable CsPbI₂Br Perovskite Solar Cells with an Efficiency of 15.56% and an Open Circuit Voltage of 1.30 V. Advanced Energy Materials, 2019, 9, 1902279.	10.2	166
68	Multicolour synthesis in lanthanide-doped nanocrystals through cation exchange in water. Nature Communications, 2016, 7, 13059.	5.8	164
69	Direct Pyrolysis of Supermolecules: An Ultrahigh Edgeâ€Nitrogen Doping Strategy of Carbon Anodes for Potassiumâ€Ion Batteries. Advanced Materials, 2020, 32, e2000732.	11.1	164
70	Crystal Phase and Architecture Engineering of Lotusâ€Thalamusâ€Shaped Ptâ€Ni Anisotropic Superstructures for Highly Efficient Electrochemical Hydrogen Evolution. Advanced Materials, 2018, 30, e1801741.	11.1	163
71	Single-site catalyst promoters accelerate metal-catalyzed nitroarene hydrogenation. Nature Communications, 2018, 9, 1362.	5.8	161
72	Towards the development of the emerging process of CO₂heterogenous hydrogenation into high-value unsaturated heavy hydrocarbons. Chemical Society Reviews, 2021, 50, 10764-10805.	18.7	161

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73	Ultrasmall gold nanoparticles in cancer diagnosis and therapy. Theranostics, 2020, 10, 4944-4957.	4.6	160
74	Ionic Functionalization of Multivariate Covalent Organic Frameworks to Achieve an Exceptionally High Iodineâ€Capture Capacity. Angewandte Chemie - International Edition, 2021, 60, 22432-22440.	7.2	148
75	Highâ€Performance Largeâ€Scale Solar Steam Generation with Nanolayers of Reusable Biomimetic Nanoparticles. Advanced Sustainable Systems, 2017, 1, 1600013.	2.7	145
76	Mechanistic investigation into the spontaneous linear assembly of gold nanospheres. Physical Chemistry Chemical Physics, 2010, 12, 11850.	1.3	144
77	High-Temperature Generalized Synthesis of Stable Ordered Mesoporous Silica-Based Materials by Using Fluorocarbonâ€“Hydrocarbon Surfactant Mixtures. Angewandte Chemie - International Edition, 2003, 42, 3633-3637.	7.2	143
78	Point Defects and Green Emission in Zero-Dimensional Perovskites. Journal of Physical Chemistry Letters, 2018, 9, 5490-5495.	2.1	143
79	Machine-Learning-Driven Synthesis of Carbon Dots with Enhanced Quantum Yields. ACS Nano, 2020, 14, 14761-14768.	7.3	143
80	Pressure-Driven Enzyme Entrapment in Siliceous Mesocellular Foam. Chemistry of Materials, 2006, 18, 643-649.	3.2	141
81	Carbon molecular sieve gas separation membranes based on an intrinsically microporous polyimide precursor. Carbon, 2013, 62, 88-96.	5.4	138
82	Engineering the Coordination Sphere of Isolated Active Sites to Explore the Intrinsic Activity in Single-Atom Catalysts. Nano-Micro Letters, 2021, 13, 136.	14.4	138
83	Rugae-like FeP nanocrystal assembly on a carbon cloth: an exceptionally efficient and stable cathode for hydrogen evolution. Nanoscale, 2015, 7, 10974-10981.	2.8	133
84	Two-dimensional gold nanostructures with high activity for selective oxidation of carbonâ€“hydrogen bonds. Nature Communications, 2015, 6, 6957.	5.8	133
85	Towards super-clean graphene. Nature Communications, 2019, 10, 1912.	5.8	133
86	A tri-continuous mesoporous material with a silica pore wall following a hexagonal minimal surface. Nature Chemistry, 2009, 1, 123-127.	6.6	131
87	Electrostatic Stabilization of Single-Atom Catalysts by Ionic Liquids. CheM, 2019, 5, 3207-3219.	5.8	131
88	Bone-Targeted Nanoplatform Combining Zoledronate and Photothermal Therapy To Treat Breast Cancer Bone Metastasis. ACS Nano, 2019, 13, 7556-7567.	7.3	130
89	Spherical Siliceous Mesocellular Foam Particles for High-Speed Size Exclusion Chromatography. Chemistry of Materials, 2007, 19, 2292-2298.	3.2	129
90	Direct Conversion of Cellulose to Glycolic Acid with a Phosphomolybdic Acid Catalyst in a Water Medium. ACS Catalysis, 2012, 2, 1698-1702.	5.5	126

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91	Multifunctional Polypyrrole@Fe₃O₄ Nanoparticles for Dualâ€Modal Imaging and In Vivo Photothermal Cancer Therapy. Small, 2014, 10, 1063-1068.	5.2	126
92	Harnessing structural darkness in the visible and infrared wavelengths for a new source of light. Nature Nanotechnology, 2016, 11, 60-66.	15.6	125
93	Direct Imaging of Atomically Dispersed Molybdenum that Enables Location of Aluminum in the Framework of Zeolite ZSMâ€5. Angewandte Chemie - International Edition, 2020, 59, 819-825.	7.2	125
94	A general solid-state synthesis of chemically-doped fluorescent graphene quantum dots for bioimaging and optoelectronic applications. Nanoscale, 2015, 7, 10162-10169.	2.8	121
95	Microporous carbonaceous adsorbents for CO₂separation via selective adsorption. RSC Advances, 2015, 5, 30310-30330.	1.7	119
96	Platinum-nickel hydroxide nanocomposites for electrocatalytic reduction of water. Nano Energy, 2017, 31, 456-461.	8.2	119
97	Light-Induced Self-Assembly of Cubic CsPbBr₃ Perovskite Nanocrystals into Nanowires. Chemistry of Materials, 2019, 31, 6642-6649.	3.2	119
98	Entropyâ€Driven Helical Mesostructure Formation with Achiral Cationic Surfactant Templates. Advanced Materials, 2007, 19, 2454-2459.	11.1	118
99	Edge Epitaxy of Two-Dimensional MoSe₂ and MoS₂ Nanosheets on One-Dimensional Nanowires. Journal of the American Chemical Society, 2017, 139, 8653-8660.	6.6	118
100	Palladium Nanoclusters Supported on Propylureaâ€Modified Siliceous Mesocellular Foam for Coupling and Hydrogenation Reactions. Chemistry - A European Journal, 2008, 14, 3118-3125.	1.7	116
101	Extraordinary Separation of Acetyleneâ€Containing Mixtures with Microporous Metalâ€“Organic Frameworks with Open O Donor Sites and Tunable Robustness through Control of the Helical Chain Secondary Building Units. Chemistry - A European Journal, 2016, 22, 5676-5683.	1.7	113
102	CO oxidation catalyzed by Pt-embedded graphene: a first-principles investigation. Physical Chemistry Chemical Physics, 2014, 16, 23584-23593.	1.3	111
103	Synthesis of Ultrathin Faceâ€Centeredâ€Cubic Au@Pt and Au@Pd Coreâ€“Shell Nanoplates from Hexagonalâ€Closeâ€Packed Au Square Sheets. Angewandte Chemie - International Edition, 2015, 54, 5672-5676.	7.2	111
104	New Class of LAGP-Based Solid Polymer Composite Electrolyte for Efficient and Safe Solid-State Lithium Batteries. ACS Applied Materials & Interfaces, 2017, 9, 41837-41844.	4.0	106
105	Quantum-Dot-Derived Catalysts for CO2 Reduction Reaction. Joule, 2019, 3, 1703-1718.	11.7	106
106	Precursor Engineering for Ambientâ€Compatible Antisolventâ€Free Fabrication of Highâ€Efficiency CsPbI₂Br Perovskite Solar Cells. Advanced Energy Materials, 2020, 10, 2000691.	10.2	106
107	Tumor-Associated-Macrophage-Membrane-Coated Nanoparticles for Improved Photodynamic Immunotherapy. Nano Letters, 2021, 21, 5522-5531.	4.5	106
108	2D Cs₂PbI₂Cl₂ Nanosheets for Holistic Passivation of Inorganic CsPbI₂Br Perovskite Solar Cells for Improved Efficiency and Stability. Advanced Energy Materials, 2020, 10, 2002882.	10.2	105

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109	Ultra-selective carbon molecular sieve membranes for natural gas separations based on a carbon-rich intrinsically microporous polyimide precursor. Journal of Membrane Science, 2019, 585, 1-9.	4.1	104
110	One-of-a-kind: a microporous metalâ€“organic framework capable of adsorptive separation of linear, mono- and di-branched alkane isomers via temperature- and adsorbate-dependent molecular sieving. Energy and Environmental Science, 2018, 11, 1226-1231.	15.6	103
111	Molecular Scalpel to Chemically Cleave Metalâ€“Organic Frameworks for Induced Phase Transition. Journal of the American Chemical Society, 2021, 143, 6681-6690.	6.6	103
112	High storage capacity and separation selectivity for C₂ hydrocarbons over methane in the metalâ€“organic framework Cuâ€“TDPAT. Journal of Materials Chemistry A, 2014, 2, 15823-15828.	5.2	102
113	Chiral Transformation: From Single Nanowire to Double Helix. Journal of the American Chemical Society, 2011, 133, 20060-20063.	6.6	101
114	Interfacing with Carbonaceous Potassium Promoters Boosts Catalytic CO₂ Hydrogenation of Iron. ACS Catalysis, 2020, 10, 12098-12108.	5.5	101
115	Efficient and simultaneous capture of iodine and methyl iodide achieved by a covalent organic framework. Nature Communications, 2022, 13, .	5.8	101
116	3D Crumpled Ultrathin 1T MoS₂ for Inkjet Printing of Mg-Ion Asymmetric Micro-supercapacitors. ACS Nano, 2020, 14, 7308-7318.	7.3	100
117	Thickness-Dependent Dielectric Constant of Few-Layer In₂Se₃ Nanoflakes. Nano Letters, 2015, 15, 8136-8140.	4.5	99
118	Selfâ€Assembly of Highly Stable Zirconium(IV) Coordination Cages with Aggregation Induced Emission Molecular Rotors for Liveâ€Cell Imaging. Angewandte Chemie - International Edition, 2020, 59, 10151-10159.	7.2	99
119	Rationally Designed Efficient Dual-Mode Colorimetric/Fluorescence Sensor Based on Carbon Dots for Detection of pH and Cu²⁺ Ions. ACS Sustainable Chemistry and Engineering, 2018, 6, 12668-12674.	3.2	96
120	Europium and Acetate Coâ€doping Strategy for Developing Stable and Efficient CsPbI₂Br Perovskite Solar Cells. Small, 2019, 15, e1904387.	5.2	95
121	Palladium Nanoparticles/Defective Graphene Composites as Oxygen Reduction Electrocatalysts: A First-Principles Study. Journal of Physical Chemistry C, 2012, 116, 2710-2719.	1.5	94
122	Morphological Map of ZIF-8 Crystals with Five Distinctive Shapes: Feature of Filler in Mixed-Matrix Membranes on C₃H₆/C₃H₈ Separation. Chemistry of Materials, 2018, 30, 3467-3473.	3.2	94
123	Direct Imaging of Tunable Crystal Surface Structures of MOF MIL-101 Using High-Resolution Electron Microscopy. Journal of the American Chemical Society, 2019, 141, 12021-12028.	6.6	93
124	Catalytic oxidative conversion of cellulosic biomass to formic acid and acetic acid with exceptionally high yields. Catalysis Today, 2014, 233, 77-82.	2.2	92
125	Wafer-scale single-crystal monolayer graphene grown on sapphire substrate. Nature Materials, 2022, 21, 740-747.	13.3	92
126	Propane Dehydrogenation Catalyzed by Isolated Pt Atoms in â‰¡SiOZnâ€“OH Nests in Dealuminated Zeolite Beta. Journal of the American Chemical Society, 2021, 143, 21364-21378.	6.6	92

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127	Centromere repositioning in cucurbit species: Implication of the genomic impact from centromere activation and inactivation. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 14937-14941.	3.3	90
128	Highly Compatible Hydroxyl-Functionalized Microporous Polyimide-ZIF-8 Mixed Matrix Membranes for Energy Efficient Propylene/Propane Separation. ACS Applied Nano Materials, 2018, 1, 3541-3547.	2.4	89
129	Chemically Stable Guanidinium Covalent Organic Framework for the Efficient Capture of Low-Concentration Iodine at High Temperatures. Journal of the American Chemical Society, 2022, 144, 6821-6829.	6.6	89
130	Defective Graphene Supported MPd₁₂ (M = Fe, Co, Ni, Cu, Zn, Pd) Nanoparticles as Potential Oxygen Reduction Electrocatalysts: A First-Principles Study. Journal of Physical Chemistry C, 2013, 117, 1350-1357.	1.5	88
131	Bortezomib-Encapsulated CuS/Carbon Dot Nanocomposites for Enhanced Photothermal Therapy via Stabilization of Polyubiquitinated Substrates in the Proteasomal Degradation Pathway. ACS Nano, 2020, 14, 10688-10703.	7.3	88
132	Light Hydrocarbon Adsorption Mechanisms in Two Calcium-Based Microporous Metal Organic Frameworks. Chemistry of Materials, 2016, 28, 1636-1646.	3.2	87
133	Gas-sieving zeolitic membranes fabricated by condensation of precursor nanosheets. Nature Materials, 2021, 20, 362-369.	13.3	86
134	A Roadmap to Sorption-Based Atmospheric Water Harvesting: From Molecular Sorption Mechanism to Sorbent Design and System Optimization. Environmental Science & Technology, 2021, 55, 6542-6560.	4.6	86
135	A Special Additive Enables All Cations and Anions Passivation for Stable Perovskite Solar Cells with Efficiency over 23%. Nano-Micro Letters, 2021, 13, 169.	14.4	86
136	Dual-template engineering of triple-layered nanoarray electrode of metal chalcogenides sandwiched with hydrogen-substituted graphdiyne. Nature Communications, 2018, 9, 3132.	5.8	85
137	Intramolecular Hydrogen Bonding-Based Topology Regulation of Two-Dimensional Covalent Organic Frameworks. Journal of the American Chemical Society, 2020, 142, 13162-13169.	6.6	85
138	Investigating the Influence of Mesoporosity in Zeolite Beta on Its Catalytic Performance for the Conversion of Methanol to Hydrocarbons. ACS Catalysis, 2015, 5, 5837-5845.	5.5	84
139	Hierarchical Nanospheres Constructed by Ultrathin MoS₂ Nanosheets Braced on Nitrogen-Doped Carbon Polyhedra for Efficient Lithium and Sodium Storage. ACS Applied Materials & Interfaces, 2019, 11, 2112-2119.	4.0	83
140	Epitaxial growth of unusual 4H hexagonal Ir, Rh, Os, Ru and Cu nanostructures on 4H Au nanoribbons. Chemical Science, 2017, 8, 795-799.	3.7	81
141	Atomic Spatial and Temporal Imaging of Local Structures and Light Elements inside Zeolite Frameworks. Advanced Materials, 2020, 32, e1906103.	11.1	81
142	[Cu₈₁(PhS)₄₆(^tBuNH₂)₁₀(H)₃₂]³⁺ Reveals the Coexistence of Large Planar Cores and Hemispherical Shells in High-Nuclearity Copper Nanoclusters. Journal of the American Chemical Society, 2020, 142, 8696-8705.	6.6	81
143	Highly Selective and Complete Conversion of Cellobiose to Gluconic Acid over Au/Cs₂HPW₁₂O₄₀ Nanocomposite Catalyst. ChemCatChem, 2011, 3, 1294-1298.	1.8	80
144	Single-Crystalline Ultrathin 2D Porous Nanosheets of Chiral Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2021, 143, 3509-3518.	6.6	80

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145	Nanocomposites of Graphene Oxide and Upconversion Rareâ€Earth Nanocrystals with Superior Optical Limiting Performance. Small, 2012, 8, 2271-2276.	5.2	79
146	Monodisperse Pt atoms anchored on N-doped graphene as efficient catalysts for CO oxidation: a first-principles investigation. Catalysis Science and Technology, 2015, 5, 1658-1667.	2.1	78
147	The Development of Yolkâ€“Shellâ€Structured Pd&ZnO@Carbon Submicroreactors with High Selectivity and Stability. Advanced Functional Materials, 2018, 28, 1801737.	7.8	78
148	Strain stabilized nickel hydroxide nanoribbons for efficient water splitting. Energy and Environmental Science, 2020, 13, 229-237.	15.6	78
149	Intracellular glutathione-depleting polymeric micelles for cisplatin prodrug delivery to overcome cisplatin resistance of cancers. Journal of Controlled Release, 2018, 273, 30-39.	4.8	77
150	Direct Observation of Nanorange Ordered Microporosity within Mesoporous Molecular Sieves. Chemistry of Materials, 2002, 14, 2536-2540.	3.2	76
151	Fabricating a Homogeneously Alloyed AuAg Shell on Au Nanorods to Achieve Strong, Stable, and Tunable Surface Plasmon Resonances. Small, 2015, 11, 5214-5221.	5.2	76
152	Functional Two-Dimensional Coordination Polymeric Layer as a Charge Barrier in Liâ€“S Batteries. ACS Nano, 2018, 12, 836-843.	7.3	76
153	A single-molecule van der Waals compass. Nature, 2021, 592, 541-544.	13.7	75
154	Ultra-selective defect-free interfacially polymerized molecular sieve thin-film composite membranes for H₂ purification. Journal of Materials Chemistry A, 2018, 6, 30-35.	5.2	74
155	Simultaneous Cesium and Acetate Coalloying Improves Efficiency and Stability of FA_{0.85}MA_{0.15}PbI₃ Perovskite Solar Cell with an Efficiency of 21.95%. Solar Rrl, 2019, 3, 1900220.	3.1	74
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