

Yu Han

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426
papers

32,343
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89
h-index

169
g-index

450
ext. papers

38,823
ext. citations

11.2
avg, IF

7.42
L-index

#	Paper	IF	Citations
426	Simultaneous phase and size control of upconversion nanocrystals through lanthanide doping. <i>Nature</i> , 2010 , 463, 1061-5	50.4	2560
425	Hydrogen evolution by a metal-free electrocatalyst. <i>Nature Communications</i> , 2014 , 5, 3783	17.4	1572
424	Tuning upconversion through energy migration in core-shell nanoparticles. <i>Nature Materials</i> , 2011 , 10, 968-73	27	1372
423	Molecule-Level g-CN Coordinated Transition Metals as a New Class of Electrocatalysts for Oxygen Electrode Reactions. <i>Journal of the American Chemical Society</i> , 2017 , 139, 3336-3339	16.4	816
422	Pore chemistry and size control in hybrid porous materials for acetylene capture from ethylene. <i>Science</i> , 2016 , 353, 141-4	33.3	783
421	High Electrocatalytic Hydrogen Evolution Activity of an Anomalous Ruthenium Catalyst. <i>Journal of the American Chemical Society</i> , 2016 , 138, 16174-16181	16.4	586
420	Ordered macro-microporous metal-organic framework single crystals. <i>Science</i> , 2018 , 359, 206-210	33.3	570
419	Managing grains and interfaces via ligand anchoring enables 22.3%-efficiency inverted perovskite solar cells. <i>Nature Energy</i> , 2020 , 5, 131-140	62.3	552
418	Sub-10 nm Fe ₃ O ₄ @Cu(2-x)S core-shell nanoparticles for dual-modal imaging and photothermal therapy. <i>Journal of the American Chemical Society</i> , 2013 , 135, 8571-7	16.4	510
417	Enhancing multiphoton upconversion through energy clustering at sublattice level. <i>Nature Materials</i> , 2014 , 13, 157-62	27	435
416	Monolayer MoSe ₂ grown by chemical vapor deposition for fast photodetection. <i>ACS Nano</i> , 2014 , 8, 8582-8597	16.4	413
415	Enhanced binding affinity, remarkable selectivity, and high capacity of CO ₂ by dual functionalization of a rht-type metal-organic framework. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 1412-5	16.4	398
414	Thermally stable single atom Pt/m-AlO for selective hydrogenation and CO oxidation. <i>Nature Communications</i> , 2017 , 8, 16100	17.4	390
413	High-quality sandwiched black phosphorus heterostructure and its quantum oscillations. <i>Nature Communications</i> , 2015 , 6, 7315	17.4	369
412	A perfluorinated covalent triazine-based framework for highly selective and water-tolerant CO ₂ capture. <i>Energy and Environmental Science</i> , 2013 , 6, 3684	35.4	352
411	UTSA-74: A MOF-74 Isomer with Two Accessible Binding Sites per Metal Center for Highly Selective Gas Separation. <i>Journal of the American Chemical Society</i> , 2016 , 138, 5678-84	16.4	351
410	Strongly Acidic and High-Temperature Hydrothermally Stable Mesoporous Aluminosilicates with Ordered Hexagonal Structure. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 1258-1262	16.4	344

409	Microporous metal-organic framework with dual functionalities for highly efficient removal of acetylene from ethylene/acetylene mixtures. <i>Nature Communications</i> , 2015 , 6, 7328	17.4	326
408	Mesoporous aluminosilicates with ordered hexagonal structure, strong acidity, and extraordinary hydrothermal stability at high temperatures. <i>Journal of the American Chemical Society</i> , 2001 , 123, 5014-21	16.4	325
407	Out-of-Plane Piezoelectricity and Ferroelectricity in Layered HnSe Nanoflakes. <i>Nano Letters</i> , 2017 , 17, 5508-5513	11.5	317
406	Introduction of π -complexation into porous aromatic framework for highly selective adsorption of ethylene over ethane. <i>Journal of the American Chemical Society</i> , 2014 , 136, 8654-60	16.4	304
405	Ultrathin Two-Dimensional Covalent Organic Framework Nanosheets: Preparation and Application in Highly Sensitive and Selective DNA Detection. <i>Journal of the American Chemical Society</i> , 2017 , 139, 8698-8704	16.4	301
404	CoP nanosheet assembly grown on carbon cloth: A highly efficient electrocatalyst for hydrogen generation. <i>Nano Energy</i> , 2015 , 15, 634-641	17.1	290
403	Lanthanide-doped $\text{Na}(x)\text{ScF}(3+x)$ nanocrystals: crystal structure evolution and multicolor tuning. <i>Journal of the American Chemical Society</i> , 2012 , 134, 8340-3	16.4	286
402	Synthesis of Heteroatom Substituted SBA-15 by the pH -Adjusting Method. <i>Chemistry of Materials</i> , 2004 , 16, 486-492	9.6	261
401	Atomic-resolution transmission electron microscopy of electron beam-sensitive crystalline materials. <i>Science</i> , 2018 , 359, 675-679	33.3	242
400	Generalized fluorocarbon-surfactant-mediated synthesis of nanoparticles with various mesoporous structures. <i>Angewandte Chemie - International Edition</i> , 2004 , 44, 288-92	16.4	226
399	Two-dimensional semiconducting covalent organic frameworks via condensation at arylmethyl carbon atoms. <i>Nature Communications</i> , 2019 , 10, 2467	17.4	218
398	Metal Halide Perovskite Nanosheet for X-ray High-Resolution Scintillation Imaging Screens. <i>ACS Nano</i> , 2019 , 13, 2520-2525	16.7	218
397	Highly mesoporous single-crystalline zeolite beta synthesized using a nonsurfactant cationic polymer as a dual-function template. <i>Journal of the American Chemical Society</i> , 2014 , 136, 2503-10	16.4	214
396	Imaging defects and their evolution in a metal-organic framework at sub-unit-cell resolution. <i>Nature Chemistry</i> , 2019 , 11, 622-628	17.6	211
395	Unravelling surface and interfacial structures of a metal-organic framework by transmission electron microscopy. <i>Nature Materials</i> , 2017 , 16, 532-536	27	207
394	Creating Hierarchical Pores by Controlled Linker Thermolysis in Multivariate Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2018 , 140, 2363-2372	16.4	200
393	A Novel Method for Incorporation of Heteroatoms into the Framework of Ordered Mesoporous Silica Materials Synthesized in Strong Acidic Media. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 7963-7968	3.4	200
392	Site-specific growth of Au-Pd alloy horns on Au nanorods: a platform for highly sensitive monitoring of catalytic reactions by surface enhancement Raman spectroscopy. <i>Journal of the American Chemical Society</i> , 2013 , 135, 8552-61	16.4	198

391	Hydrothermally stable ordered mesoporous titanosilicates with highly active catalytic sites. <i>Journal of the American Chemical Society</i> , 2002 , 124, 888-9	16.4	195
390	Label-free, electrochemical detection of methicillin-resistant <i>Staphylococcus aureus</i> DNA with reduced graphene oxide-modified electrodes. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 3881-6	11.8	180
389	Superior Capture of CO ₂ Achieved by Introducing Extra-framework Cations into N-doped Microporous Carbon. <i>Chemistry of Materials</i> , 2012 , 24, 4725-4734	9.6	176
388	Sinter-resistant metal nanoparticle catalysts achieved by immobilization within zeolite crystals via seed-directed growth. <i>Nature Catalysis</i> , 2018 , 1, 540-546	36.5	175
387	The first example of commensurate adsorption of atomic gas in a MOF and effective separation of xenon from other noble gases. <i>Chemical Science</i> , 2014 , 5, 620-624	9.4	175
386	Controlled n-Doping in Air-Stable CsPbI ₂ Br Perovskite Solar Cells with a Record Efficiency of 16.79%. <i>Advanced Functional Materials</i> , 2020 , 30, 1909972	15.6	173
385	Hydrothermally Stable Ordered Hexagonal Mesoporous Aluminosilicates Assembled from a Triblock Copolymer and Preformed Aluminosilicate Precursors in Strongly Acidic Media. <i>Chemistry of Materials</i> , 2002 , 14, 1144-1148	9.6	168
384	Topologically guided tuning of Zr-MOF pore structures for highly selective separation of C ₆ alkane isomers. <i>Nature Communications</i> , 2018 , 9, 1745	17.4	166
383	Synthesis and Gas Transport Properties of Hydroxyl-Functionalized Polyimides with Intrinsic Microporosity. <i>Macromolecules</i> , 2012 , 45, 3841-3849	5.5	163
382	Reverse microemulsion-mediated synthesis of silica-coated gold and silver nanoparticles. <i>Langmuir</i> , 2008 , 24, 5842-8	4	162
381	Metal-Organic Framework-Based Separators for Enhancing Li ⁺ Battery Stability: Mechanism of Mitigating Polysulfide Diffusion. <i>ACS Energy Letters</i> , 2017 , 2, 2362-2367	20.1	160
380	Inside Perovskites: Quantum Luminescence from Bulk Cs ₄ PbBr ₆ Single Crystals. <i>Chemistry of Materials</i> , 2017 , 29, 7108-7113	9.6	160
379	Surface modification-induced phase transformation of hexagonal close-packed gold square sheets. <i>Nature Communications</i> , 2015 , 6, 6571	17.4	157
378	Novel porous carbon materials with ultrahigh nitrogen contents for selective CO ₂ capture. <i>Journal of Materials Chemistry</i> , 2012 , 22, 19726		157
377	Quantum Dots Supply Bulk- and Surface-Passivation Agents for Efficient and Stable Perovskite Solar Cells. <i>Joule</i> , 2019 , 3, 1963-1976	27.8	154
376	Probing the electron states and metal-insulator transition mechanisms in molybdenum disulphide vertical heterostructures. <i>Nature Communications</i> , 2015 , 6, 6088	17.4	151
375	Multicolour synthesis in lanthanide-doped nanocrystals through cation exchange in water. <i>Nature Communications</i> , 2016 , 7, 13059	17.4	144
374	Controlled growth of high-density CdS and CdSe nanorod arrays on selective facets of two-dimensional semiconductor nanoplates. <i>Nature Chemistry</i> , 2016 , 8, 470-5	17.6	142

373	High-temperature generalized synthesis of stable ordered mesoporous silica-based materials by using fluorocarbon-hydrocarbon surfactant mixtures. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 3633-7	16.4	142
372	3D Hierarchical ZnIn ₂ S ₄ Nanosheets with Rich Zn Vacancies Boosting Photocatalytic CO ₂ Reduction. <i>Advanced Functional Materials</i> , 2019 , 29, 1905153	15.6	139
371	Tailor-Made Microporous Metal-Organic Frameworks for the Full Separation of Propane from Propylene Through Selective Size Exclusion. <i>Advanced Materials</i> , 2018 , 30, e1805088	24	139
370	A rod-packing microporous hydrogen-bonded organic framework for highly selective separation of C ₂ H ₂ /CO ₂ at room temperature. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 574-7	16.4	137
369	Pressure-Driven Enzyme Entrapment in Siliceous Mesocellular Foam. <i>Chemistry of Materials</i> , 2006 , 18, 643-649	9.6	137
368	Ultrathin graphdiyne film on graphene through solution-phase van der Waals epitaxy. <i>Science Advances</i> , 2018 , 4, eaat6378	14.3	134
367	Full-color fluorescent carbon quantum dots. <i>Science Advances</i> , 2020 , 6,	14.3	133
366	Mechanistic investigation into the spontaneous linear assembly of gold nanospheres. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 11850-60	3.6	131
365	Crystal Phase and Architecture Engineering of Lotus-Thalamus-Shaped Pt-Ni Anisotropic Superstructures for Highly Efficient Electrochemical Hydrogen Evolution. <i>Advanced Materials</i> , 2018 , 30, e1801741	24	128
364	Polymers of intrinsic microporosity for energy-intensive membrane-based gas separations. <i>Materials Today Nano</i> , 2018 , 3, 69-95	9.7	128
363	Spherical Siliceous Mesocellular Foam Particles for High-Speed Size Exclusion Chromatography. <i>Chemistry of Materials</i> , 2007 , 19, 2292-2298	9.6	123
362	A tri-continuous mesoporous material with a silica pore wall following a hexagonal minimal surface. <i>Nature Chemistry</i> , 2009 , 1, 123-7	17.6	120
361	Multifunctional polypyrrole@Fe ₃ O ₄ nanoparticles for dual-modal imaging and in vivo photothermal cancer therapy. <i>Small</i> , 2014 , 10, 1063-8	11	119
360	Entropy-Driven Helical Mesostructure Formation with Achiral Cationic Surfactant Templates. <i>Advanced Materials</i> , 2007 , 19, 2454-2459	24	116
359	Single-site catalyst promoters accelerate metal-catalyzed nitroarene hydrogenation. <i>Nature Communications</i> , 2018 , 9, 1362	17.4	111
358	High-Performance Large-Scale Solar Steam Generation with Nanolayers of Reusable Biomimetic Nanoparticles. <i>Advanced Sustainable Systems</i> , 2017 , 1, 1600013	5.9	109
357	Investigating the Origin of Enhanced C Selectivity in Oxide-/Hydroxide-Derived Copper Electrodes during CO Electroreduction. <i>Journal of the American Chemical Society</i> , 2020 , 142, 4213-4222	16.4	109
356	Palladium nanoclusters supported on propylurea-modified siliceous mesocellular foam for coupling and hydrogenation reactions. <i>Chemistry - A European Journal</i> , 2008 , 14, 3118-25	4.8	108

355	Catalytic amino acid production from biomass-derived intermediates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 5093-5098	11.5	107
354	Rugae-like FeP nanocrystal assembly on a carbon cloth: an exceptionally efficient and stable cathode for hydrogen evolution. <i>Nanoscale</i> , 2015 , 7, 10974-81	7.7	107
353	A Novel Anion Doping for Stable CsPbI ₂ Br Perovskite Solar Cells with an Efficiency of 15.56% and an Open Circuit Voltage of 1.30 V. <i>Advanced Energy Materials</i> , 2019 , 9, 1902279	21.8	105
352	CO oxidation catalyzed by Pt-embedded graphene: a first-principles investigation. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 23584-93	3.6	103
351	Point Defects and Green Emission in Zero-Dimensional Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 5490-5495	6.4	103
350	Chlorine Vacancy Passivation in Mixed Halide Perovskite Quantum Dots by Organic Pseudohalides Enables Efficient Rec. 2020 Blue Light-Emitting Diodes. <i>ACS Energy Letters</i> , 2020 , 5, 793-798	20.1	100
349	Capture of organic iodides from nuclear waste by metal-organic framework-based molecular traps. <i>Nature Communications</i> , 2017 , 8, 485	17.4	99
348	Direct Conversion of Cellulose to Glycolic Acid with a Phosphomolybdic Acid Catalyst in a Water Medium. <i>ACS Catalysis</i> , 2012 , 2, 1698-1702	13.1	99
347	Two-dimensional gold nanostructures with high activity for selective oxidation of carbon-hydrogen bonds. <i>Nature Communications</i> , 2015 , 6, 6957	17.4	98
346	Microporous carbonaceous adsorbents for CO ₂ separation via selective adsorption. <i>RSC Advances</i> , 2015 , 5, 30310-30330	3.7	98
345	Short-Range Ordered Iridium Single Atoms Integrated into Cobalt Oxide Spinel Structure for Highly Efficient Electrocatalytic Water Oxidation. <i>Journal of the American Chemical Society</i> , 2021 , 143, 5201-5211	16.4	98
344	Carbon molecular sieve gas separation membranes based on an intrinsically microporous polyimide precursor. <i>Carbon</i> , 2013 , 62, 88-96	10.4	95
343	Harnessing structural darkness in the visible and infrared wavelengths for a new source of light. <i>Nature Nanotechnology</i> , 2016 , 11, 60-6	28.7	94
342	Synthesis of ultrathin face-centered-cubic au@pt and au@pd core-shell nanoplates from hexagonal-close-packed au square sheets. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 5672-6	16.4	94
341	A Rod-Packing Microporous Hydrogen-Bonded Organic Framework for Highly Selective Separation of C ₂ H ₂ /CO ₂ at Room Temperature. <i>Angewandte Chemie</i> , 2015 , 127, 584-587	3.6	92
340	Edge Epitaxy of Two-Dimensional MoSe and MoS Nanosheets on One-Dimensional Nanowires. <i>Journal of the American Chemical Society</i> , 2017 , 139, 8653-8660	16.4	90
339	Towards super-clean graphene. <i>Nature Communications</i> , 2019 , 10, 1912	17.4	89
338	High storage capacity and separation selectivity for C ₂ hydrocarbons over methane in the metal-organic framework Cu ^{II} DPAT. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 15823-15828	13	89

337	Platinum-nickel hydroxide nanocomposites for electrocatalytic reduction of water. <i>Nano Energy</i> , 2017 , 31, 456-461	17.1	88
336	Chiral transformation: from single nanowire to double helix. <i>Journal of the American Chemical Society</i> , 2011 , 133, 20060-3	16.4	87
335	A general solid-state synthesis of chemically-doped fluorescent graphene quantum dots for bioimaging and optoelectronic applications. <i>Nanoscale</i> , 2015 , 7, 10162-9	7.7	85
334	Extraordinary Separation of Acetylene-Containing Mixtures with Microporous Metal-Organic Frameworks with Open O Donor Sites and Tunable Robustness through Control of the Helical Chain Secondary Building Units. <i>Chemistry - A European Journal</i> , 2016 , 22, 5676-83	4.8	85
333	Defective Graphene Supported MPd12 (M = Fe, Co, Ni, Cu, Zn, Pd) Nanoparticles as Potential Oxygen Reduction Electrocatalysts: A First-Principles Study. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 1350-1357	3.8	83
332	Palladium Nanoparticles/Defective Graphene Composites as Oxygen Reduction Electrocatalysts: A First-Principles Study. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 2710-2719	3.8	82
331	Bone-Targeted Nanoplatfom Combining Zoledronate and Photothermal Therapy To Treat Breast Cancer Bone Metastasis. <i>ACS Nano</i> , 2019 , 13, 7556-7567	16.7	81
330	New Class of LAGP-Based Solid Polymer Composite Electrolyte for Efficient and Safe Solid-State Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 41837-41844	9.5	80
329	Catalytic oxidative conversion of cellulosic biomass to formic acid and acetic acid with exceptionally high yields. <i>Catalysis Today</i> , 2014 , 233, 77-82	5.3	80
328	Direct Pyrolysis of Supermolecules: An Ultrahigh Edge-Nitrogen Doping Strategy of Carbon Anodes for Potassium-Ion Batteries. <i>Advanced Materials</i> , 2020 , 32, e2000732	24	78
327	Quantum-Dot-Derived Catalysts for CO ₂ Reduction Reaction. <i>Joule</i> , 2019 , 3, 1703-1718	27.8	78
326	Centromere repositioning in cucurbit species: implication of the genomic impact from centromere activation and inactivation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 14937-41	11.5	77
325	Nanocomposites of graphene oxide and upconversion rare-earth nanocrystals with superior optical limiting performance. <i>Small</i> , 2012 , 8, 2271-6	11	75
324	Mixed-dimensional MXene-hydrogel heterostructures for electronic skin sensors with ultrabroad working range. <i>Science Advances</i> , 2020 , 6,	14.3	74
323	Light-Induced Self-Assembly of Cubic CsPbBr ₃ Perovskite Nanocrystals into Nanowires. <i>Chemistry of Materials</i> , 2019 , 31, 6642-6649	9.6	73
322	Highly Selective and Complete Conversion of Cellobiose to Gluconic Acid over Au/Cs ₂ HPW ₁₂ O ₄₀ Nanocomposite Catalyst. <i>ChemCatChem</i> , 2011 , 3, 1294-1298	5.2	72
321	Understanding of the High Hydrothermal Stability of the Mesoporous Materials Prepared by the Assembly of Triblock Copolymer with Preformed Zeolite Precursors in Acidic Media. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 7551-7556	3.4	71
320	Monodisperse Pt atoms anchored on N-doped graphene as efficient catalysts for CO oxidation: a first-principles investigation. <i>Catalysis Science and Technology</i> , 2015 , 5, 1658-1667	5.5	69

319	Rationally Designed Efficient Dual-Mode Colorimetric/Fluorescence Sensor Based on Carbon Dots for Detection of pH and Cu ²⁺ Ions. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 12668-12674	8.3	69
318	Direct Observation of Nanorange Ordered Microporosity within Mesoporous Molecular Sieves. <i>Chemistry of Materials</i> , 2002 , 14, 2536-2540	9.6	69
317	Investigating the Influence of Mesoporosity in Zeolite Beta on Its Catalytic Performance for the Conversion of Methanol to Hydrocarbons. <i>ACS Catalysis</i> , 2015 , 5, 5837-5845	13.1	68
316	Electrostatic Stabilization of Single-Atom Catalysts by Ionic Liquids. <i>Chem</i> , 2019 , 5, 3207-3219	16.2	68
315	Direct conversion of cellulose using carbon monoxide and water on a PtMo ₂ C/C catalyst. <i>Energy and Environmental Science</i> , 2014 , 7, 393-398	35.4	68
314	Precursor Engineering for Ambient-Compatible Antisolvent-Free Fabrication of High-Efficiency CsPbI ₂ Br Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 2000691	21.8	68
313	Thickness-Dependent Dielectric Constant of Few-Layer InSe Nanoflakes. <i>Nano Letters</i> , 2015 , 15, 8136-4011.5	11.5	67
312	Aqueous phase synthesis of upconversion nanocrystals through layer-by-layer epitaxial growth for in vivo X-ray computed tomography. <i>Nanoscale</i> , 2013 , 5, 6950-9	7.7	67
311	Hierarchical Nanospheres Constructed by Ultrathin MoS Nanosheets Braced on Nitrogen-Doped Carbon Polyhedra for Efficient Lithium and Sodium Storage. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 2112-2119	9.5	67
310	[Al ₁₂ P ₁₃ O ₅₂] ₃ -[(CH ₂) ₆ N ₄ H ₃] ₃ ⁺ : An Anionic Aluminophosphate Molecular Sieve with Brønsted Acidity. <i>Chemistry of Materials</i> , 2000 , 12, 2517-2519	9.6	66
309	Epitaxial growth of unusual 4H hexagonal Ir, Rh, Os, Ru and Cu nanostructures on 4H Au nanoribbons. <i>Chemical Science</i> , 2017 , 8, 795-799	9.4	64
308	High-temperature synthesis of stable ordered mesoporous silica materials by using fluorocarbon-hydrocarbon surfactant mixtures. <i>Chemistry - A European Journal</i> , 2004 , 10, 5911-22	4.8	64
307	Functional Two-Dimensional Coordination Polymeric Layer as a Charge Barrier in Li-S Batteries. <i>ACS Nano</i> , 2018 , 12, 836-843	16.7	63
306	Direct Imaging of Atomically Dispersed Molybdenum that Enables Location of Aluminum in the Framework of Zeolite ZSM-5. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 819-825	16.4	63
305	Light Hydrocarbon Adsorption Mechanisms in Two Calcium-Based Microporous Metal Organic Frameworks. <i>Chemistry of Materials</i> , 2016 , 28, 1636-1646	9.6	61
304	Europium and Acetate Co-doping Strategy for Developing Stable and Efficient CsPbI Br Perovskite Solar Cells. <i>Small</i> , 2019 , 15, e1904387	11	61
303	Ultrasmall gold nanoparticles in cancer diagnosis and therapy. <i>Theranostics</i> , 2020 , 10, 4944-4957	12.1	61
302	Dual-template engineering of triple-layered nanoarray electrode of metal chalcogenides sandwiched with hydrogen-substituted graphdiyne. <i>Nature Communications</i> , 2018 , 9, 3132	17.4	60

301	The Development of YolkShell-Structured Pd&ZnO@Carbon Submicroreactors with High Selectivity and Stability. <i>Advanced Functional Materials</i> , 2018 , 28, 1801737	15.6	60
300	Fabricating a Homogeneously Alloyed AuAg Shell on Au Nanorods to Achieve Strong, Stable, and Tunable Surface Plasmon Resonances. <i>Small</i> , 2015 , 11, 5214-21	11	59
299	Synthesis, Characterization, and Catalytic Activity of Mesoporous Titanosilicates Assembled from Polymer Surfactants with Preformed Titanosilicate Precursors in Strongly Acidic Media. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 8972-8980	3.4	59
298	One-of-a-kind: a microporous metal-organic framework capable of adsorptive separation of linear, mono- and di-branched alkane isomers via temperature- and adsorbate-dependent molecular sieving. <i>Energy and Environmental Science</i> , 2018 , 11, 1226-1231	35.4	58
297	Redox-responsive core cross-linked micelles based on cypate and cisplatin prodrugs-conjugated block copolymers for synergistic photothermal-chemotherapy of cancer. <i>Polymer Chemistry</i> , 2014 , 5, 3707-3718	4.9	58
296	Graphene substrate-mediated catalytic performance enhancement of Ru nanoparticles: a first-principles study. <i>Dalton Transactions</i> , 2012 , 41, 1289-96	4.3	58
295	2D Cs ₂ PbI ₂ Cl ₂ Nanosheets for Holistic Passivation of Inorganic CsPbI ₂ Br Perovskite Solar Cells for Improved Efficiency and Stability. <i>Advanced Energy Materials</i> , 2020 , 10, 2002882	21.8	58
294	Intracellular glutathione-depleting polymeric micelles for cisplatin prodrug delivery to overcome cisplatin resistance of cancers. <i>Journal of Controlled Release</i> , 2018 , 273, 30-39	11.7	57
293	Artificial channels for confined mass transport at the sub-nanometre scale. <i>Nature Reviews Materials</i> , 2021 , 6, 294-312	73.3	57
292	Highly Compatible Hydroxyl-Functionalized Microporous Polyimide-ZIF-8 Mixed Matrix Membranes for Energy Efficient Propylene/Propane Separation. <i>ACS Applied Nano Materials</i> , 2018 , 1, 3541-3547	5.6	57
291	Site-specific growth of Au particles on ZnO nanopyramids under ultraviolet illumination. <i>Nanoscale</i> , 2011 , 3, 4195-200	7.7	56
290	3D Crumpled Ultrathin 1T MoS ₂ for Inkjet Printing of Mg-Ion Asymmetric Micro-supercapacitors. <i>ACS Nano</i> , 2020 , 14, 7308-7318	16.7	55
289	Functionalization of silicon nanowire surfaces with metal-organic frameworks. <i>Nano Research</i> , 2012 , 5, 109-116	10	55
288	High-performance gas sensing achieved by mesoporous tungsten oxide mesocrystals with increased oxygen vacancies. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 8653	13	55
287	Self-Assembly of Highly Stable Zirconium(IV) Coordination Cages with Aggregation Induced Emission Molecular Rotors for Live-Cell Imaging. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 10151-10159	16.4	55
286	A nitrogen-rich covalent organic framework for simultaneous dynamic capture of iodine and methyl iodide. <i>Chem</i> , 2021 , 7, 699-714	16.2	53
285	A mechanistic basis for the effect of aluminum content on ethene selectivity in methanol-to-hydrocarbons conversion on HZSM-5. <i>Journal of Catalysis</i> , 2017 , 348, 300-305	7.3	51
284	Ultra-selective carbon molecular sieve membranes for natural gas separations based on a carbon-rich intrinsically microporous polyimide precursor. <i>Journal of Membrane Science</i> , 2019 , 585, 1-9	9.6	51

283	Copper atoms embedded in hexagonal boron nitride as potential catalysts for CO oxidation: a first-principles investigation. <i>RSC Advances</i> , 2014 , 4, 38750-38760	3.7	51
282	Beyond Creation of Mesoporosity: The Advantages of Polymer-Based Dual-Function Templates for Fabricating Hierarchical Zeolites. <i>Advanced Functional Materials</i> , 2016 , 26, 1881-1891	15.6	51
281	Simultaneous Cesium and Acetate Coalloying Improves Efficiency and Stability of FA0.85MA0.15PbI3 Perovskite Solar Cell with an Efficiency of 21.95%. <i>Solar Rrl</i> , 2019 , 3, 1900220	7.1	50
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