Yu Han

List of Publications by Year in Descending Order

426 papers	32,343 citations	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	Wafer-scale single-crystal monolayer graphene grown on sapphire substrate.. *Nature Materials*, **2022**,	27	13
425	Engineering the interplanar spacing of K-birnessite for ultra-long cycle Zn-ion battery through hydrothermal potassium insertion strategy. *Chemical Engineering Journal*, **2022**, 435, 134754	14.7	2
424	Analysis of the n-GaN electrochemical etching process and its mechanism in oxalic acid.. *RSC Advances*, **2022**, 12, 4648-4655	3.7	1
423	State-of-the-art polymers of intrinsic microporosity for high-performance gas separation membranes. *Current Opinion in Chemical Engineering*, **2022**, 35, 100755	5.4	0
422	The influence of melt status and beta-nucleation agent distribution on the crystallization of isotactic polypropylene. *CrystEngComm*, **2022**, 24, 2429-2445	3.3	1
421	Free-standing homochiral 2D monolayers by exfoliation of molecular crystals.. *Nature*, **2022**, 602, 606-611	50.4	14
420	Carbon nanotube supported oriented metal organic framework membrane for effective ethylene/ethane separation.. *Science Advances*, **2022**, 8, eabm6741	14.3	6
419	Cryogenic Focused Ion Beam Enables Atomic-Resolution Imaging of Local Structures in Highly Sensitive Bulk Crystals and Devices.. *Journal of the American Chemical Society*, **2022**,	16.4	3
418	Poly(Anthraquinonyl Sulfide)/CNT Composites as High-Rate-Performance Cathodes for Nonaqueous Rechargeable Calcium-Ion Batteries.. *Advanced Science*, **2022**, e2200397	13.6	0
417	Single atom and defect engineering of CuO for efficient electrochemical reduction of CO 2 to C 2 H 4. *SmartMat*, **2022**, 3, 194-205	22.8	1
416	Near-infrared-II photothermal ultra-small carbon dots promoting anticancer efficiency by enhancing tumor penetration.. *Journal of Colloid and Interface Science*, **2022**, 616, 595-604	9.3	3
415	Balancing uptake and selectivity in a copper-based metal organic framework for xenon and krypton separation. *Separation and Purification Technology*, **2022**, 291, 120932	8.3	1
414	Design of a fast ion-transport interlayer on cathode-electrolyte interface for solid-state lithium metal batteries. *Energy Storage Materials*, **2022**, 48, 205-211	19.4	1
413	Highly Potassiophilic Graphdiyne Skeletons Decorated with Cu Quantum Dots Enable Dendrite-Free Potassium Metal Anodes.. *Advanced Materials*, **2022**, e2202685	24	4
412	Three-dimensional stacked filter (3DSF): a nonlinear filter for series images of TEM. *Ultramicroscopy* , **2022**, 240, 113560	3.1	0
411	Decadal acidification in a subtropical coastal area under chronic eutrophication. *Environmental Pollution*, **2021**, 293, 118487	9.3	0
410	Highly dispersed Pd nanoparticles confined in ZSM-5 zeolite crystals for selective hydrogenation of cinnamaldehyde. *Microporous and Mesoporous Materials*, **2021**, 111566	5.3	2

409	Oriented Two-Dimensional Covalent Organic Framework Membranes with High Ion Flux and Smart Gating Nanofluidic Transport. *Angewandte Chemie - International Edition*, **2021**,	16.4	8
408	Highly sensitive novel fluorescent chiral probe possessing (S)-2-methylproline structures for the determination of chiral amino compounds by ultra-performance liquid chromatography with fluorescence: An application in the saliva of healthy volunteer.. *Journal of Chromatography A*, **2021**, 1661, 462672	4.5	1
407	Unraveling Passivation Mechanism of Imidazolium-Based Ionic Liquids on Inorganic Perovskite to Achieve Near-Record-Efficiency CsPbIBr Solar Cells. *Nano-Micro Letters*, **2021**, 14, 7	19.5	11
406	Effective surface passivation with 4-bromo-benzonitrile to enhance the performance of perovskite solar cells. *Journal of Materials Chemistry C*, **2021**, 9, 17089-17098	7.1	0
405	Cyanamide Passivation Enables Robust Elemental Imaging of Metal Halide Perovskites at Atomic Resolution. *Journal of Physical Chemistry Letters*, **2021**, 12, 10402-10409	6.4	6
404	High-Efficiency Separation of n-Hexane by a Dynamic Metal-Organic Framework with Reduced Energy Consumption. *Angewandte Chemie - International Edition*, **2021**, 60, 10593-10597	16.4	8
403	High-Efficiency Separation of n-Hexane by a Dynamic Metal-Organic Framework with Reduced Energy Consumption. *Angewandte Chemie*, **2021**, 133, 10687-10691	3.6	1
402	Recent Progress and Prospects of Layered Cathode Materials for Potassium-ion Batteries. *Energy and Environmental Materials*, **2021**, 4, 178-200	13	18
401	Theoretical Insight on Highly Efficient Electrocatalytic CO2 Reduction Reaction of Monoatom Dispersion Catalyst (Metal-Nitrogen-Carbon). *Electrocatalysis*, **2021**, 12, 390-402	2.7	1
400	A nitrogen-rich covalent organic framework for simultaneous dynamic capture of iodine and methyl iodide. *CheM*, **2021**, 7, 699-714	16.2	53
399	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	16.4	98
398	Highly Active Heterogeneous Catalyst for Ethylene Dimerization Prepared by Selectively Doping Ni on the Surface of a Zeolitic Imidazolate Framework. *Journal of the American Chemical Society*, **2021**, 143, 7144-7153	16.4	15
397	Molecular Scalpel to Chemically Cleave Metal-Organic Frameworks for Induced Phase Transition. *Journal of the American Chemical Society*, **2021**, 143, 6681-6690	16.4	26
396	Nano-Confinement Effects on Structural Development and Organic Solvent-Induced Swelling of Ultrathin Carbon Molecular Sieve Films. *ACS Applied Materials & Interfaces*, **2021**, 13, 21765-21774	9.5	3
395	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	10.3	15
394	A single-molecule van der Waals compass. *Nature*, **2021**, 592, 541-544	50.4	28
393	Defect engineering of photocatalysts for solar-driven conversion of CO2 into valuable fuels. *Materials Today*, **2021**, 50, 358-358	21.8	10
392	La(OH)3 nanorods with different sizes enhanced osteogenic differentiation on mice bone marrow mesenchymal stem cells. *Journal of Nanoparticle Research*, **2021**, 23, 1	2.3	

391	Tumor-Associated-Macrophage-Membrane-Coated Nanoparticles for Improved Photodynamic Immunotherapy. *Nano Letters*, **2021**, 21, 5522-5531	11.5	30
390	Engineering the Coordination Sphere of Isolated Active Sites to Explore the Intrinsic Activity in Single-Atom Catalysts. *Nano-Micro Letters*, **2021**, 13, 136	19.5	28
389	[CuH(PET)(PPh)Cl] Reveals Surface Vacancy Defects in Ligand-Stabilized Metal Nanoclusters. *Journal of the American Chemical Society*, **2021**, 143, 11026-11035	16.4	7
388	Separation of hexane isomers by introducing triangular-like and quadrilateral-like channels in a bcu-type metal-organic framework. *Nano Research*, **2021**, 14, 526-531	10	6
387	Synthesis of a microporous poly-benzimidazole as high performance anode materials for lithium-ion batteries. *Chemical Engineering Journal*, **2021**, 405, 126621	14.7	5
386	Gas separation and water desalination performance of defect-free interfacially polymerized para-linked polyamide thin-film composite membranes. *Journal of Membrane Science*, **2021**, 618, 118572	9.6	13
385	Gas-sieving zeolitic membranes fabricated by condensation of precursor nanosheets. *Nature Materials*, **2021**, 20, 362-369	27	36
384	Liquid Nanoparticles: Manipulating the Nucleation and Growth of Nanoscale Droplets. *Angewandte Chemie - International Edition*, **2021**, 60, 3047-3054	16.4	4
383	Noble metal nanowire arrays as an ethanol oxidation electrocatalyst. *Nanoscale Advances*, **2021**, 3, 177-181	5.1	2
382	Liquid Nanoparticles: Manipulating the Nucleation and Growth of Nanoscale Droplets. *Angewandte Chemie*, **2021**, 133, 3084-3091	3.6	0
381	Distributions of volatile halocarbons and impacts of ocean acidification on their production in coastal waters of China. *Science of the Total Environment*, **2021**, 752, 141756	10.2	1
380	Piezo2 channel in nodose ganglia neurons is essential in controlling hypertension in a pathway regulated directly by Nedd4-2. *Pharmacological Research*, **2021**, 164, 105391	10.2	1
379	Controllable synthesis and luminescence properties of one-dimensional La2O3 and La2O3:Ln3+ (Ln = Er, Eu, Tb) nanorods with different aspect ratios. *Journal of Luminescence*, **2021**, 229, 117663	3.8	1
378	Towards the development of the emerging process of CO heterogenous hydrogenation into high-value unsaturated heavy hydrocarbons. *Chemical Society Reviews*, **2021**, 50, 10764-10805	58.5	27
377	Artificial channels for confined mass transport at the sub-nanometre scale. *Nature Reviews Materials*, **2021**, 6, 294-312	73.3	57
376	High-performance polymer molecular sieve membranes prepared by direct fluorination for efficient helium enrichment. *Journal of Materials Chemistry A*, **2021**, 9, 18313-18322	13	1
375	Probing the Catalytic Active Sites of Mo/HZSM-5 and Their Deactivation during Methane Dehydroaromatization. *Cell Reports Physical Science*, **2021**, 2, 100309	6.1	6
374	Layer number dependent ferroelasticity in 2D Ruddlesden-Popper organic-inorganic hybrid perovskites. *Nature Communications*, **2021**, 12, 1332	17.4	10

373	R□ktitelbild: Liquid Nanoparticles: Manipulating the Nucleation and Growth of Nanoscale Droplets (Angew. Chem. 6/2021). *Angewandte Chemie*, **2021**, 133, 3352-3352	3.6	
372	Single-Crystalline Ultrathin 2D Porous Nanosheets of Chiral Metal-Organic Frameworks. *Journal of the American Chemical Society*, **2021**, 143, 3509-3518	16.4	28
371	Upgrading Octane Number of Naphtha by a Robust and Easily Attainable Metal-Organic Framework through Selective Molecular Sieving of Alkane Isomers. *Chemistry - A European Journal*, **2021**, 27, 11795-11798	4.8	3
370	Air-Resistant Lead Halide Perovskite Nanocrystals Embedded into Polyimide of Intrinsic Microporosity. *Energy Material Advances*, **2021**, 2021, 1-9	1	4
369	Recent Progress on Polymers of Intrinsic Microporosity and Thermally Modified Analogue Materials for Membrane-Based Fluid Separations. *Small Structures*, **2021**, 2, 2100049	8.7	24
368	Modifying Ionic Membranes with Carbon Dots Enables Direct Production of High-Purity Hydrogen through Water Electrolysis. *ACS Applied Materials & Interfaces*, **2021**, 13, 39304-39310	9.5	2
367	Possible Misidentification of Heteroatom Species in Scanning Transmission Electron Microscopy Imaging of Zeolites. *Journal of Physical Chemistry C*, **2021**, 125, 18952-18960	3.8	2
366	-Phenylenediammonium as a New Spacer for Dion-Jacobson Two-Dimensional Perovskites. *Journal of the American Chemical Society*, **2021**, 143, 12063-12073	16.4	18
365	p-Type Carbon Dots for Effective Surface Optimization for Near-Record-Efficiency CsPbI Br Solar Cells. *Small*, **2021**, 17, e2102272	11	10
364	A Special Additive Enables All Cations and Anions Passivation for Stable Perovskite Solar Cells with Efficiency over 23. *Nano-Micro Letters*, **2021**, 13, 169	19.5	29
363	The Complex Crystal Structure and Abundant Local Defects of Zeolite EMM-17 Unraveled by Combined Electron Crystallography and Microscopy. *Angewandte Chemie*, **2021**, 133, 24429	3.6	
362	The Complex Crystal Structure and Abundant Local Defects of Zeolite EMM-17 Unraveled by Combined Electron Crystallography and Microscopy. *Angewandte Chemie - International Edition*, **2021**, 60, 24227-24233	16.4	1
361	Recent Progress on Polymers of Intrinsic Microporosity and Thermally Modified Analogue Materials for Membrane-Based Fluid Separations. *Small Structures*, **2021**, 2, 2170026	8.7	2
360	Bacteria-based nanosystems for enhanced antitumor therapy. *Science China Life Sciences*, **2021**, 1	8.5	1
359	Ionic Functionalization of Multivariate Covalent Organic Frameworks to Achieve an Exceptionally High Iodine-Capture Capacity. *Angewandte Chemie - International Edition*, **2021**, 60, 22432-22440	16.4	21
358	Ionic Functionalization of Multivariate Covalent Organic Frameworks to Achieve an Exceptionally High Iodine-Capture Capacity. *Angewandte Chemie*, **2021**, 133, 22606-22614	3.6	2
357	Lithium- gel polymer electrolyte composite anode with large electrolyte-lithium interface for solid-state battery. *Electrochimica Acta*, **2021**, 394, 139123	6.7	0
356	Phase and morphology evolution of NaGdF4:Yb,Er nanocrystals with power density-dependent upconversion fluorescence via one-step microwave-assisted solvothermal method. *Journal of Luminescence*, **2021**, 239, 118283	3.8	1

355	Copper-comprising nanocrystals as well-defined electrocatalysts to advance electrochemical CO2 reduction. *Journal of Energy Chemistry*, **2021**, 62, 71-102	12	5
354	The formation and evolution of carbonate species in CO oxidation over mono-dispersed Fe on graphene. *Physical Chemistry Chemical Physics*, **2021**, 23, 10509-10517	3.6	3
353	Electrocatalytic CO2 Reduction Activity Over Transition Metal Anchored on Nitrogen-Doped Carbon: A Density Functional Theory Investigation. *Catalysis Letters*, **2021**, 151, 2547-2559	2.8	1
352	Propane Dehydrogenation Catalyzed by Isolated Pt Atoms in ?SiOZn-OH Nests in Dealuminated Zeolite Beta. *Journal of the American Chemical Society*, **2021**,	16.4	19
351	Adsorption, diffusion and aggregation of Ir atoms on graphdiyne: a first-principles investigation. *Physical Chemistry Chemical Physics*, **2020**, 22, 25841-25847	3.6	3
350	Facile synthesis of a mixed-conductive Li2S composites for all-solid-state lithium-sulfur batteries. *Ionics*, **2020**, 26, 4257-4265	2.7	3
349	3D Crumpled Ultrathin 1T MoS for Inkjet Printing of Mg-Ion Asymmetric Micro-supercapacitors. *ACS Nano*, **2020**, 14, 7308-7318	16.7	55
348	Chemical Separation: Finely Tuned Submicroporous Thin-Film Molecular Sieve Membranes for Highly Efficient Fluid Separations (Adv. Mater. 22/2020). *Advanced Materials*, **2020**, 32, 2070171	24	
347	Direct Pyrolysis of Supermolecules: An Ultrahigh Edge-Nitrogen Doping Strategy of Carbon Anodes for Potassium-Ion Batteries. *Advanced Materials*, **2020**, 32, e2000732	24	78
346	Splitting Mono- and Dibranched Alkane Isomers by a Robust Aluminum-Based Metal-Organic Framework Material with Optimal Pore Dimensions. *Journal of the American Chemical Society*, **2020**, 142, 6925-6929	16.4	23
345	Intramolecular Hydrogen Bonding-Based Topology Regulation of Two-Dimensional Covalent Organic Frameworks. *Journal of the American Chemical Society*, **2020**, 142, 13162-13169	16.4	29
344	Methanol-to-Olefin Conversion over Small-Pore DDR Zeolites: Tuning the Propylene Selectivity via the Olefin-Based Catalytic Cycle. *ACS Catalysis*, **2020**, 10, 3009-3017	13.1	5
343	Controlled n-Doping in Air-Stable CsPbI2Br Perovskite Solar Cells with a Record Efficiency of 16.79%. *Advanced Functional Materials*, **2020**, 30, 1909972	15.6	173
342	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	20.1	100
341	Investigating the Origin of Enhanced C Selectivity in Oxide-/Hydroxide-Derived Copper Electrodes during CO Electroreduction. *Journal of the American Chemical Society*, **2020**, 142, 4213-4222	16.4	109
340	Effect of conductor materials in lithium composite anode on plating and stripping of lithium. *Ionics*, **2020**, 26, 3307-3314	2.7	2
339	Engineering effective structural defects of metal□rganic frameworks to enhance their catalytic performances. *Journal of Materials Chemistry A*, **2020**, 8, 4464-4472	13	31
338	Selective Acetylene Adsorption within an Imino-Functionalized Nanocage-Based Metal-Organic Framework. *ACS Applied Materials & Interfaces*, **2020**, 12, 5999-6006	9.5	19

337	Bifunctional polymer-of-intrinsic-microporosity membrane for flexible Li/Na□2O2 batteries with hybrid electrolytes. *Journal of Materials Chemistry A*, **2020**, 8, 3491-3498	13	4
336	Managing grains and interfaces via ligand anchoring enables 22.3%-efficiency inverted perovskite solar cells. *Nature Energy*, **2020**, 5, 131-140	62.3	552
335	Superior Catalytic Performance of Atomically Dispersed Palladium on Graphene in CO Oxidation. *ACS Catalysis*, **2020**, 10, 3084-3093	13.1	24
334	Atomic-Resolution Imaging of Halide Perovskites Using Electron Microscopy. *Advanced Energy Materials*, **2020**, 10, 1904006	21.8	32
333	Theoretical Study on Cobalt Ferrite ConFe3□O4 (n = 1□) Nanoparticles with Multi-enzyme Activities. *Catalysis Surveys From Asia*, **2020**, 24, 166-177	2.8	2
332	Metal-Based Nanocatalyst for Combined Cancer Therapeutics. *Bioconjugate Chemistry*, **2020**, 31, 1247-1258	4.3	20
331	[Cu(PhS)(BuNH)(H)] 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	16.4	37
330	Facile synthesis and gas transport properties of H□lich's base-derived intrinsically microporous polyimides. *Polymer*, **2020**, 201, 122619	3.9	2
329	Designing Sub-2 nm Organosilica Nanohybrids for Far-Field Super-Resolution Imaging. *Angewandte Chemie*, **2020**, 132, 756-761	3.6	2
328	Designing Sub-2 nm Organosilica Nanohybrids for Far-Field Super-Resolution Imaging. *Angewandte Chemie - International Edition*, **2020**, 59, 746-751	16.4	16
327	Direct Imaging of Atomically Dispersed Molybdenum that Enables Location of Aluminum in the Framework of Zeolite ZSM-5. *Angewandte Chemie - International Edition*, **2020**, 59, 819-825	16.4	63
326	Direct Imaging of Atomically Dispersed Molybdenum that Enables Location of Aluminum in the Framework of Zeolite ZSM-5. *Angewandte Chemie*, **2020**, 132, 829-835	3.6	23
325	Recent Progress of Atmospheric Water Harvesting Using Metal-Organic Frameworks. *Chemical Research in Chinese Universities*, **2020**, 36, 33-40	2.2	17
324	Nanoscale pathways for human tooth decay - Central planar defect, organic-rich precipitate and high-angle grain boundary. *Biomaterials*, **2020**, 235, 119748	15.6	15
323	Self-Assembly of Highly Stable Zirconium(IV) Coordination Cages with Aggregation Induced Emission Molecular Rotors for Live-Cell Imaging. *Angewandte Chemie*, **2020**, 132, 10237-10245	3.6	8
322	Self-Assembly of Highly Stable Zirconium(IV) Coordination Cages with Aggregation Induced Emission Molecular Rotors for Live-Cell Imaging. *Angewandte Chemie - International Edition*, **2020**, 59, 10151-10159	16.4	55
321	Strain stabilized nickel hydroxide nanoribbons for efficient water splitting. *Energy and Environmental Science*, **2020**, 13, 229-237	35.4	43
320	A Comparative Study on C2 Hydrocarbons and Methanol Synthesis from CO Hydrogenation Catalyzed by M1/W6S8 (M = Ir and Ca) Single-Atom Catalysts. *Catalysis Letters*, **2020**, 150, 1515-1526	2.8	0

319	In situ generated Li2S-LPS composite for all-solid-state lithium-sulfur battery. *Ionics*, **2020**, 26, 2335-2342	2.7	6
318	Atomic Spatial and Temporal Imaging of Local Structures and Light Elements inside Zeolite Frameworks. *Advanced Materials*, **2020**, 32, e1906103	24	38
317	Full-color fluorescent carbon quantum dots. *Science Advances*, **2020**, 6,	14.3	133
316	Metal-organic framework-based nanocatalytic medicine for chemodynamic therapy. *Science China Materials*, **2020**, 63, 2429-2434	7.1	8
315	Simultaneous generation of atmospheric water and electricity using a hygroscopic aerogel with fast sorption kinetics. *Nano Energy*, **2020**, 78, 105326	17.1	23
314	A solar-electro-thermal evaporation system with high water-production based on a facile integrated evaporator. *Journal of Materials Chemistry A*, **2020**, 8, 21771-21779	13	10
313	Anodic SnO porous nanostructures with rich grain boundaries for efficient CO electroreduction to formate.. *RSC Advances*, **2020**, 10, 22828-22835	3.7	2
312	Mixed-dimensional MXene-hydrogel heterostructures for electronic skin sensors with ultrabroad working range. *Science Advances*, **2020**, 6,	14.3	74
311	Bulk and local structures of metal–organic frameworks unravelled by high-resolution electron microscopy. *Communications Chemistry*, **2020**, 3,	6.3	20
310	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	16.7	36
309	Room-Temperature Valley Polarization in Atomically Thin Semiconductors Chalcogenide Alloying. *ACS Nano*, **2020**, 14, 9873-9883	16.7	10
308	2D Cs2PbI2Cl2 Nanosheets for Holistic Passivation of Inorganic CsPbI2Br Perovskite Solar Cells for Improved Efficiency and Stability. *Advanced Energy Materials*, **2020**, 10, 2002882	21.8	58
307	Uniform High-k Amorphous Native Oxide Synthesized by Oxygen Plasma for Top-Gated Transistors. *Nano Letters*, **2020**, 20, 7469-7475	11.5	14
306	Machine-Learning-Driven Synthesis of Carbon Dots with Enhanced Quantum Yields. *ACS Nano*, **2020**, 14, 14761-14768	16.7	46
305	Interfacing with Carbonaceous Potassium Promoters Boosts Catalytic CO2 Hydrogenation of Iron. *ACS Catalysis*, **2020**, 10, 12098-12108	13.1	40
304	Numerical Investigation of Arc-Pool-Metal Vapor Behavior in GTAW with an External Magnetic Field. *Metals*, **2020**, 10, 1199	2.3	0
303	Extension of Surface Organometallic Chemistry to Metal-Organic Frameworks: Development of a Well-Defined Single Site [(?Zr-O-)W(?O)(CHBu)] Olefin Metathesis Catalyst. *Journal of the American Chemical Society*, **2020**, 142, 16690-16703	16.4	19
302	Finely Tuned Submicroporous Thin-Film Molecular Sieve Membranes for Highly Efficient Fluid Separations. *Advanced Materials*, **2020**, 32, e2001132	24	24

301	Precursor Engineering for Ambient-Compatible Antisolvent-Free Fabrication of High-Efficiency CsPbI2Br Perovskite Solar Cells. *Advanced Energy Materials*, **2020**, 10, 2000691	21.8	68
300	DFT Comparison the Performance of Pd10Sn5 and Pd10Ag5 Electrocatalyst for Reduction of CO2. *Applied Organometallic Chemistry*, **2020**, 34, e5620	3.1	1
299	Li2S□i3PS4 (LPS) Composite Synthesized by Liquid-Phase Shaking for All-Solid-State Lithium□Sulfur Batteries with High Performance. *Energy Technology*, **2020**, 8, 2000023	3.5	4
298	Ultrasmall gold nanoparticles in cancer diagnosis and therapy. *Theranostics*, **2020**, 10, 4944-4957	12.1	61
297	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	21.8	105
296	Electrochemical Conversion of CO2 to 2-Bromoethanol in a Membraneless Cell. *ACS Energy Letters*, **2019**, 4, 600-605	20.1	6
295	Hollow capsules of doped carbon incorporating metal@metal sulfide and metal@metal oxide core□shell nanoparticles derived from metal□organic framework composites for efficient oxygen electrocatalysis. *Journal of Materials Chemistry A*, **2019**, 7, 3624-3631	13	40
294	Photoinduced synthesis of Bi2O3 nanotubes based on oriented attachment. *Journal of Materials Chemistry A*, **2019**, 7, 1424-1428	13	6
293	Gate tunable giant anisotropic resistance in ultra-thin GaTe. *Nature Communications*, **2019**, 10, 2302	17.4	44
292	Two-dimensional semiconducting covalent organic frameworks via condensation at arylmethyl carbon atoms. *Nature Communications*, **2019**, 10, 2467	17.4	218
291	Plasmonic-Enhanced Light Harvesting and Perovskite Solar Cell Performance Using Au Biometric Dimers with Broadband Structural Darkness. *Solar Rrl*, **2019**, 3, 1900138	7.1	21
290	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	9.6	51
289	Imaging defects and their evolution in a metal-organic framework at sub-unit-cell resolution. *Nature Chemistry*, **2019**, 11, 622-628	17.6	211
288	Towards super-clean graphene. *Nature Communications*, **2019**, 10, 1912	17.4	89
287	Maintenance of SOX9 stability and ECM homeostasis by selenium-sensitive PRMT5 in cartilage. *Osteoarthritis and Cartilage*, **2019**, 27, 932-944	6.2	11
286	Novel Surface Passivation for Stable FA0.85MA0.15PbI3 Perovskite Solar Cells with 21.6% Efficiency. *Solar Rrl*, **2019**, 3, 1900072	7.1	49
285	Light-Induced Self-Assembly of Cubic CsPbBr3 Perovskite Nanocrystals into Nanowires. *Chemistry of Materials*, **2019**, 31, 6642-6649	9.6	73
284	On demand synthesis of hollow fullerene nanostructures. *Nature Communications*, **2019**, 10, 1548	17.4	32

283	A New Type of Capping Agent in Nanoscience: Metal Cations. *Small*, **2019**, 15, e1900444	11	4
282	Metal Halide Perovskite Nanosheet for X-ray High-Resolution Scintillation Imaging Screens. *ACS Nano*, **2019**, 13, 2520-2525	16.7	218
281	Cryo Focused Ion Beam Applications in High Resolution Electron Microscopy Studies of Beam Sensitive Crystals. *Microscopy and Microanalysis*, **2019**, 25, 1402-1403	0.5	2
280	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	16.4	47
279	Rational enhancement of enzyme-catalyzed enantioselective reaction by construction of recombinant enzymes based on additive strategy. *Bioprocess and Biosystems Engineering*, **2019**, 42, 1739-1746	3.7	2
278	A High Mobility Conjugated Polymer Enables Air and Thermally Stable CsPbI2Br Perovskite Solar Cells with an Efficiency Exceeding 15%. *Advanced Materials Technologies*, **2019**, 4, 1900311	6.8	39
277	Bone-Targeted Nanoplatform Combining Zoledronate and Photothermal Therapy To Treat Breast Cancer Bone Metastasis. *ACS Nano*, **2019**, 13, 7556-7567	16.7	81
276	Direct, Selective Production of Aromatic Alcohols from Ethanol Using a Tailored Bifunctional Cobalt□Hydroxyapatite Catalyst. *ACS Catalysis*, **2019**, 9, 7204-7216	13.1	23
275	Emergence of multiple fluorophores in individual cesium lead bromide nanocrystals. *Nature Communications*, **2019**, 10, 2930	17.4	31
274	Quantum Dots Supply Bulk- and Surface-Passivation Agents for Efficient and Stable Perovskite Solar Cells. *Joule*, **2019**, 3, 1963-1976	27.8	154
273	Quantum-Dot-Derived Catalysts for CO2 Reduction Reaction. *Joule*, **2019**, 3, 1703-1718	27.8	78
272	Simultaneous Cesium and Acetate Coalloying Improves Efficiency and Stability of FA0.85MA0.15PbI3 Perovskite Solar Cell with an Efficiency of 21.95%. *Solar Rrl*, **2019**, 3, 1900220	7.1	50
271	3D Hierarchical ZnIn2S4 Nanosheets with Rich Zn Vacancies Boosting Photocatalytic CO2 Reduction. *Advanced Functional Materials*, **2019**, 29, 1905153	15.6	139
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