

Hui Wu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

359
papers

29,059
citations

82
h-index

163
g-index

370
ext. papers

33,973
ext. citations

11
avg, IF

7.37
L-index

#	Paper	IF	Citations
359	Immobilization of Lewis Basic Sites into a Stable Ethane-Selective MOF Enabling One-Step Separation of Ethylene from a Ternary Mixture.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	11
358	Hydrogen-Bonded Metal-Nucleobase Frameworks for Efficient Separation of Xenon and Krypton.. <i>Angewandte Chemie - International Edition</i> , 2022 ,	16.4	1
357	Maximizing acetylene packing density for highly efficient C ₂ H ₂ /CO ₂ separation through immobilization of amine sites within a prototype MOF. <i>Chemical Engineering Journal</i> , 2022 , 431, 134184	14.7	7
356	High-throughput production of kilogram-scale nanofibers by K \bar{m} \bar{m} vortex solution blow spinning.. <i>Science Advances</i> , 2022 , 8, eabn3690	14.3	6
355	Ten-Hour Stable Noninvasive Brain-Computer Interface Realized by Semidry Hydrogel-Based Electrodes.. <i>Research</i> , 2022 , 2022, 9830457	7.8	2
354	Wet-milling synthesis of immobilized Pt/Ir nanoclusters as promising heterogeneous catalysts. <i>Nano Research</i> , 2022 , 15, 3065-3072	10	1
353	Electrostatically Driven Selective Adsorption of Carbon Dioxide over Acetylene in an Ultramicroporous Material. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 9604-9609	16.4	26
352	Continuous Roll-to-Roll Production of Carbon Nanoparticles from Candle Soot. <i>Nano Letters</i> , 2021 , 21, 3198-3204	11.5	16
351	A Rod-Packing Hydrogen-Bonded Organic Framework with Suitable Pore Confinement for Benchmark Ethane/Ethylene Separation. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 10304-10310	16.4	41
350	Robust Biological Hydrogen-Bonded Organic Framework with Post-Functionalized Rhenium(I) Sites for Efficient Heterogeneous Visible-Light-Driven CO Reduction. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 8983-8989	16.4	32
349	Two-Dimensional Covalent Organic Frameworks with Cobalt(II)-Phthalocyanine Sites for Efficient Electrocatalytic Carbon Dioxide Reduction. <i>Journal of the American Chemical Society</i> , 2021 , 143, 7104-7113	16.4	45
348	A Distinct Spin Structure and Giant Baromagnetic Effect in MnNiGe Compounds with Fe-Doping. <i>Journal of the American Chemical Society</i> , 2021 , 143, 6798-6804	16.4	1
347	Mechanochemical Synthesis of Pt/NbCT MXene Composites for Enhanced Electrocatalytic Hydrogen Evolution. <i>Materials</i> , 2021 , 14,	3.5	5
346	Quantum-confined blue photoemission in strain-engineered few-atomic-layer 2D germanium. <i>Nano Energy</i> , 2021 , 83, 105790	17.1	3
345	Mass Production of Ultrafine Fibers by a Versatile Solution Blow Spinning Method. <i>Accounts of Materials Research</i> , 2021 , 2, 432-446	7.5	8
344	A Microporous Hydrogen-Bonded Organic Framework for the Efficient Capture and Purification of Propylene. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 20400-20406	16.4	26
343	Polymorphism of Calcium Decahydrido--decaborate and Characterization of Its Hydrates. <i>Inorganic Chemistry</i> , 2021 , 60, 10943-10957	5.1	4

342	A novel anion-pillared metal-organic framework for highly efficient separation of acetylene from ethylene and carbon dioxide. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 9248-9255	13	12
341	Ultrafast heating to boost the electrocatalytic activity of iridium towards oxygen evolution reaction. <i>Chemical Communications</i> , 2021 , 57, 7830-7833	5.8	1
340	Intermediate Sr ₂ Co _{1.5} Fe _{0.5} O ₆ Tetragonal Structure between Perovskite and Brownmillerite as a Model Catalyst with Layered Oxygen Deficiency for Enhanced Electrochemical Water Oxidation. <i>ACS Catalysis</i> , 2021 , 11, 4327-4337	13.1	8
339	Synthesis and Characterization of Sr ₂ Co _{2-x} Fe _x O _{5+d} Perovskite Oxides. <i>Microscopy and Microanalysis</i> , 2021 , 27, 714-715	0.5	
338	Developing Ideal Metalorganic Hydrides for Hydrogen Storage: From Theoretical Prediction to Rational Fabrication 2021 , 3, 1417-1425		4
337	Thermal-responsive, super-strong, ultrathin firewalls for quenching thermal runaway in high-energy battery modules. <i>Energy Storage Materials</i> , 2021 , 40, 329-336	19.4	13
336	Highly Selective Adsorption of Carbon Dioxide over Acetylene in an Ultramicroporous Metal-Organic Framework. <i>Advanced Materials</i> , 2021 , 33, e2105880	24	14
335	Giant Topological Hall Effect and Superstable Spontaneous Skyrmions below 330 K in a Centrosymmetric Complex Noncollinear Ferromagnet NdMnGe. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 24125-24132	9.5	4
334	Continuous production and properties of multi-level nanofiber air filters by blow spinning.. <i>RSC Advances</i> , 2020 , 10, 19615-19620	3.7	12
333	Large nonlinear optical effect in tungsten bronze structures via Li/Na cross-substitutions. <i>Chemical Communications</i> , 2020 , 56, 8384-8387	5.8	1
332	A Garnet-Type Solid-Electrolyte-Based Molten Lithium-Molybdenum-Iron(II) Chloride Battery with Advanced Reaction Mechanism. <i>Advanced Materials</i> , 2020 , 32, e2000960	24	11
331	A Foldable All-Ceramic Air Filter Paper with High Efficiency and High-Temperature Resistance. <i>Nano Letters</i> , 2020 , 20, 4993-5000	11.5	27
330	A large-area AgNW-modified textile with high-performance electromagnetic interference shielding. <i>Npj Flexible Electronics</i> , 2020 , 4,	10.7	26
329	Ionic Sensing Hydrogels: Ultrasensitive, Low-Voltage Operational, and Asymmetric Ionic Sensing Hydrogel for Multipurpose Applications (Adv. Funct. Mater. 12/2020). <i>Advanced Functional Materials</i> , 2020 , 30, 2070080	15.6	1
328	Large-scale blow spinning of heat-resistant nanofibrous air filters. <i>Nano Research</i> , 2020 , 13, 861-867	10	19
327	Black ZrO ₂ synthesized by molten lithium reduction strategy for photocatalytic hydrogen generation. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 4035-4042	3.8	8
326	Noble-Metal-Free Ni-W-O-Derived Catalysts for High-Capacity Hydrogen Production from Hydrazine Monohydrate. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8,	8.3	9
325	Reversible Switching between Nonporous and Porous Phases of a New SIFSIX Coordination Network Induced by a Flexible Linker Ligand. <i>Journal of the American Chemical Society</i> , 2020 , 142, 6896-6901	16.4	20

324	Strong Second Harmonic Generation in a Tungsten Bronze Oxide by Enhancing Local Structural Distortion. <i>Journal of the American Chemical Society</i> , 2020 , 142, 7480-7486	16.4	18
323	Rapid Thermal Annealing toward High-Quality 2D Cobalt Fluoride Oxide as an Advanced Oxygen Evolution Electrocatalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 6905-6913	8.3	30
322	Blowspinning: A New Choice for Nanofibers. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 33447-33454	4.4	24
321	High-purity electrolytic lithium obtained from low-purity sources using solid electrolyte. <i>Nature Sustainability</i> , 2020 , 3, 386-390	22.1	23
320	Metal-Based Nanocatalysts: Metal-Based Nanocatalysts via a Universal Design on Cellular Structure (Adv. Sci. 3/2020). <i>Advanced Science</i> , 2020 , 7, 2070013	13.6	2
319	Solution-blow spun PLA/SiO ₂ nanofiber membranes toward high efficiency oil/water separation. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 49103	2.9	16
318	Large Enhancement of Magnetocaloric and Barocaloric Effects by Hydrostatic Pressure in La(Fe _{0.92} Co _{0.08}) _{11.9} Si _{1.1} with a NaZn ₁₃ -Type Structure. <i>Chemistry of Materials</i> , 2020 , 32, 1807-1818	9.6	10
317	Ultrasensitive, Low-Voltage Operational, and Asymmetric Ionic Sensing Hydrogel for Multipurpose Applications. <i>Advanced Functional Materials</i> , 2020 , 30, 1909616	15.6	16
316	A core-shell structured CoMoO ₄ ·nH ₂ O@CoFeOOH nanocatalyst for electrochemical evolution of oxygen. <i>Electrochimica Acta</i> , 2020 , 345, 136125-136125	6.7	4
315	A Review on Anode Side Interface Stability Micromechanisms and Engineering for Garnet Electrolyte-based Solid-state Batteries. <i>Chemical Research in Chinese Universities</i> , 2020 , 36, 351-359	2.2	5
314	An Ultramicroporous Metal-Organic Framework for High Sieving Separation of Propylene from Propane. <i>Journal of the American Chemical Society</i> , 2020 , 142, 17795-17801	16.4	67
313	A calix[4]resorcinarene-based giant coordination cage: controlled assembly and iodine uptake. <i>Chemical Communications</i> , 2020 , 56, 2491-2494	5.8	14
312	Mixed Metal-Organic Framework with Multiple Binding Sites for Efficient C ₂ H ₂ /CO Separation. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 4396-4400	16.4	169
311	Engineering microporous ethane-trapping metal-organic frameworks for boosting ethane/ethylene separation. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 3613-3620	13	55
310	Cone-spiral magnetic ordering dominated lattice distortion and giant negative thermal expansion in Fe-doped MnNiGe compounds. <i>Materials Horizons</i> , 2020 , 7, 804-810	14.4	9
309	Metallo-N-Heterocycles - A new family of hydrogen storage material. <i>Energy Storage Materials</i> , 2020 , 26, 198-202	19.4	11
308	Highly Robust, Flexible, and Large-Scale 3D-Metallized Sponge for High-Performance Electromagnetic Interference Shielding. <i>Advanced Materials Technologies</i> , 2020 , 5, 1900761	6.8	36
307	Selective Ethane/Ethylene Separation in a Robust Microporous Hydrogen-Bonded Organic Framework. <i>Journal of the American Chemical Society</i> , 2020 , 142, 633-640	16.4	86

306	Replacement reaction-assisted synthesis of silver nanoparticles by jet for conductive ink. <i>Nanotechnology</i> , 2020 , 31, 115301	3.4	3
305	Metal Nanoparticle Harvesting by Continuous Rotating Electrodeposition and Separation. <i>Matter</i> , 2020 , 3, 1294-1307	12.7	8
304	Porous organic cages as synthetic water channels. <i>Nature Communications</i> , 2020 , 11, 4927	17.4	17
303	Effect of HO Molecules on Thermal Expansion of TiCo(CN). <i>Inorganic Chemistry</i> , 2020 , 59, 14852-14855	5.1	8
302	Aqueous Solution Blow Spinning of Seawater-Stable Polyamidoxime Nanofibers from Water-Soluble Precursor for Uranium Extraction from Seawater. <i>Small Methods</i> , 2020 , 4, 2000558	12.8	10
301	Structural and Dynamical Properties of Potassium Dodecahydro-monocarpa-closo-dodecaborate: KCB11H12. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 17992-18002	3.8	10
300	Solid Electrolytes: A Garnet-Type Solid-Electrolyte-Based Molten Lithium Molybdenum Iron(II) Chloride Battery with Advanced Reaction Mechanism (Adv. Mater. 32/2020). <i>Advanced Materials</i> , 2020 , 32, 2070242	24	1
299	Highly compressible and anisotropic lamellar ceramic sponges with superior thermal insulation and acoustic absorption performances. <i>Nature Communications</i> , 2020 , 11, 3732	17.4	64
298	Boosting the Performance of Nitrogen-Doped Mesoporous Carbon Oxygen Electrode with Ultrathin 2D Iron/Cobalt Selenides. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000740	4.6	7
297	Direct electroplating of Ag nanowires using superionic conductors. <i>Nanoscale Horizons</i> , 2020 , 5, 89-94	10.8	0
296	Neutron diffraction study on hydrostatic pressure regulated magnetostructural transition and magnetocaloric effect in MnNi _{1-x} FexSi _{1-y} Gey alloys. <i>Journal of Applied Physics</i> , 2020 , 127, 133905	2.5	1
295	A Flexible, Robust, and Gel-Free Electroencephalogram Electrode for Noninvasive Brain-Computer Interfaces. <i>Nano Letters</i> , 2019 , 19, 6853-6861	11.5	80
294	Facile and High-Yield Replacement Reaction-Assisted Synthesis of Silver Dendrites by Jet for Conductive Ink. <i>Langmuir</i> , 2019 , 35, 12400-12406	4	9
293	Direct immobilization of an atomically dispersed Pt catalyst by suppressing heterogeneous nucleation at 40 °C. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 25779-25784	13	47
292	Enhanced Wear Performance of Cu-Carbon Nanotubes Composite Coatings Prepared by Jet Electrodeposition. <i>Materials</i> , 2019 , 12,	3.5	10
291	-60 °C solution synthesis of atomically dispersed cobalt electrocatalyst with superior performance. <i>Nature Communications</i> , 2019 , 10, 606	17.4	87
290	Ultralow-temperature photochemical synthesis of atomically dispersed Pt catalysts for the hydrogen evolution reaction. <i>Chemical Science</i> , 2019 , 10, 2830-2836	9.4	58
289	A metal-organic framework with suitable pore size and dual functionalities for highly efficient post-combustion CO ₂ capture. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 3128-3134	13	82

288	Room temperature Mg reduction of TiO: formation mechanism and application in photocatalysis. <i>Chemical Communications</i> , 2019 , 55, 7675-7678	5.8	9
287	Epitaxial growth of a 100-square-centimetre single-crystal hexagonal boron nitride monolayer on copper. <i>Nature</i> , 2019 , 570, 91-95	50.4	247
286	Postsynthetic Metalation of a Robust Hydrogen-Bonded Organic Framework for Heterogeneous Catalysis. <i>Journal of the American Chemical Society</i> , 2019 , 141, 8737-8740	16.4	82
285	Targeted Heating of Enzyme Systems Based on Photothermal Materials. <i>ChemBioChem</i> , 2019 , 20, 2467-2473	3.3	3
284	Direct spray-coating of highly robust and transparent Ag nanowires for energy saving windows. <i>Nano Energy</i> , 2019 , 62, 111-116	17.1	131
283	Ultrafine Fe/Fe ₃ C nanoparticles on nitrogen-doped mesoporous carbon by low-temperature synthesis for highly efficient oxygen reduction. <i>Electrochimica Acta</i> , 2019 , 313, 255-260	6.7	10
282	Scalable manufacturing and applications of nanofibers. <i>Materials Today</i> , 2019 , 28, 98-113	21.8	57
281	A Marine-Inspired Hybrid Sponge for Highly Efficient Uranium Extraction from Seawater. <i>Advanced Functional Materials</i> , 2019 , 29, 1901009	15.6	71
280	Large Piezoelectric Strain in Sub-10 Nanometer Two-Dimensional Polyvinylidene Fluoride Nanoflakes. <i>ACS Nano</i> , 2019 , 13, 4496-4506	16.7	26
279	Structural evolution and phase diagram of the superconducting iron selenides $\text{Li}_x(\text{C}_2\text{H}_8\text{N}_2)_y\text{Fe}_2\text{Se}_2(x=0\sim 0.8)$. <i>Physical Review B</i> , 2019 , 99,	3.3	7
278	Room-temperature production of silver-nanofiber film for large-area, transparent and flexible surface electromagnetic interference shielding. <i>Npj Flexible Electronics</i> , 2019 , 3,	10.7	107
277	Tunable titanium metal-organic frameworks with infinite 1D TiO rods for efficient visible-light-driven photocatalytic H ₂ evolution. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 11928-11933	13	153
276	Cu-TiO ₂ composites with high incorporated and uniform distributed TiO ₂ particles prepared by jet electrodeposition. <i>Surface Engineering</i> , 2019 , 35, 1048-1054	2.6	8
275	Direct Blow Spinning of Flexible and Transparent Ag Nanofiber Heater. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900045	6.8	12
274	Oxygen-deficient metal oxides: Synthesis routes and applications in energy and environment. <i>Nano Research</i> , 2019 , 12, 2150-2163	10	51
273	Draw-spun, photonically annealed Ag fibers as alternative electrodes for flexible CIGS solar cells. <i>Science and Technology of Advanced Materials</i> , 2019 , 20, 26-34	7.1	2
272	Low-Temperature Rotational Tunneling of Tetrahydroborate Anions in Lithium Benzimidazolate-Borohydride $\text{Li}_2(\text{blm})\text{BH}_4$. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 20789-20799	3.8	3
271	Uranium Extraction: A Marine-Inspired Hybrid Sponge for Highly Efficient Uranium Extraction from Seawater (Adv. Funct. Mater. 32/2019). <i>Advanced Functional Materials</i> , 2019 , 29, 1970219	15.6	3

270	Ice as Solid Electrolyte To Conduct Various Kinds of Ions. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 12569-12573	16.4	24
269	Ice as Solid Electrolyte To Conduct Various Kinds of Ions. <i>Angewandte Chemie</i> , 2019 , 131, 12699-12703	3.6	6
268	High purity copper nanoparticles via sonoelectrochemical approach. <i>Materials Research Express</i> , 2019 , 6, 115058	1.7	8
267	Fe ₃ O ₄ /Nitrogen-Doped Carbon Electrodes from Tailored Thermal Expansion toward Flexible Solid-State Asymmetric Supercapacitors. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1901250	4.6	5
266	Elucidating J-Aggregation Effect in Boosting Singlet-Oxygen Evolution Using Zirconium-Porphyrin Frameworks: A Comprehensive Structural, Catalytic, and Spectroscopic Study. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 45118-45125	9.5	17
265	Giant zero-field cooling exchange-bias-like behavior in antiperovskite Mn ₃ Co _{0.61} Mn _{0.39} N compound. <i>Physical Review Materials</i> , 2019 , 3,	3.2	1
264	Structural and reorientational dynamics of tetrahydroborate (BH ₄ ⁻) and tetrahydrofuran (THF) in a Mg(BH ₄) ₂ ·3THF adduct: neutron-scattering characterization. <i>Physical Chemistry Chemical Physics</i> , 2019 , 22, 368-378	3.6	3
263	Tin Oxide Nanofiber and 3D Sponge Structure by Blow Spinning. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019 , 358, 052015	0.3	3
262	In situ grown Ni phosphide nanowire array on Ni foam as a high-performance catalyst for hydrazine electrooxidation. <i>Applied Catalysis B: Environmental</i> , 2019 , 241, 292-298	21.8	53
261	Experimental study of the effects of soil pH and ionic species on the electro-osmotic consolidation of kaolin. <i>Journal of Hazardous Materials</i> , 2019 , 368, 885-893	12.8	20
260	Boosting the Electrocatalytic Water Oxidation Performance of CoFeO Nanoparticles by Surface Defect Engineering. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 3978-3983	9.5	52
259	Rational Design of Ultrasmall Au Nanoparticles on Fe via Galvanic Replacement Under 0 °C for Efficient Methanol Oxidation Reaction Catalyst. <i>ACS Applied Energy Materials</i> , 2019 , 2, 468-476	6.1	1
258	Surface Engineering of Perovskite Oxide for Bifunctional Oxygen Electrocatalysis. <i>Small Methods</i> , 2019 , 3, 1800279	12.8	23
257	Innenrücktitelbild: Ice Melting to Release Reactants in Solution Syntheses (Angew. Chem. 13/2018). <i>Angewandte Chemie</i> , 2018 , 130, 3579-3579	3.6	0
256	Controlling Pore Shape and Size of Interpenetrated Anion-Pillared Ultramicroporous Materials Enables Molecular Sieving of CO Combined with Ultrahigh Uptake Capacity. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 16628-16635	9.5	61
255	High-Temperature Particulate Matter Filtration with Resilient Yttria-Stabilized ZrO Nanofiber Sponge. <i>Small</i> , 2018 , 14, e1800258	11	53
254	Tuning defects in oxides at room temperature by lithium reduction. <i>Nature Communications</i> , 2018 , 9, 1302	17.4	225
253	Ultrahigh Room-Temperature Photoluminescence from Few to Single Quintuple Layer Bi ₂ Te ₃ Nanosheets. <i>Advanced Optical Materials</i> , 2018 , 6, 1701322	8.1	17

252	Bilayer SiO ₂ Nanorod Arrays as Omnidirectional and Thermally Stable Antireflective Coating. <i>Advanced Engineering Materials</i> , 2018 , 20, 1700942	3.5	9
251	Room-temperature processing of silver submicron fiber mesh for flexible electronics. <i>Npj Flexible Electronics</i> , 2018 , 2,	10.7	8
250	Ice Melting to Release Reactants in Solution Syntheses. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 3354-3359	16.4	24
249	A Single-Molecule Propyne Trap: Highly Efficient Removal of Propyne from Propylene with Anion-Pillared Ultramicroporous Materials. <i>Advanced Materials</i> , 2018 , 30, 1705374	24	92
248	Ice Melting to Release Reactants in Solution Syntheses. <i>Angewandte Chemie</i> , 2018 , 130, 3412-3417	3.6	8
247	Large-area, transferable sub-10 nm polymer membranes at the air/water interface. <i>Nano Research</i> , 2018 , 11, 3833-3843	10	2
246	Free-Standing, Binder-Free Titania/Super-Aligned Carbon Nanotube Anodes for Flexible and Fast-Charging Li-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 3426-3433	8.3	22
245	Fine Tuning and Specific Binding Sites with a Porous Hydrogen-Bonded Metal-Complex Framework for Gas Selective Separations. <i>Journal of the American Chemical Society</i> , 2018 , 140, 4596-4603	16.4	115
244	Large-scale blow spinning of carbon microfiber sponge as efficient and recyclable oil sorbent. <i>Chemical Engineering Journal</i> , 2018 , 343, 638-644	14.7	29
243	Numerical Assessment of Equivalent Radius for Electrokinetic Geosynthetic Electrodes during Electroosmotic Consolidation. <i>International Journal of Geomechanics</i> , 2018 , 18, 04018024	3.1	5
242	Ultralight and resilient Al ₂ O ₃ nanotube aerogels with low thermal conductivity. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 1677-1683	3.8	31
241	Li NH-LiBH : a Complex Hydride with Near Ambient Hydrogen Adsorption and Fast Lithium Ion Conduction. <i>Chemistry - A European Journal</i> , 2018 , 24, 1342-1347	4.8	10
240	Mechanically robust antireflective coatings. <i>Nano Research</i> , 2018 , 11, 1699-1713	10	15
239	Omnidirectional SiO ₂ AR Coatings. <i>Coatings</i> , 2018 , 8, 210	2.9	3
238	Solution-Based, Template-Assisted Realization of Large-Scale Graphitic ZnO. <i>ACS Nano</i> , 2018 , 12, 7554-7561	16.7	13
237	Biodegradable Batteries: A Fully Biodegradable Battery for Self-Powered Transient Implants (Small 28/2018). <i>Small</i> , 2018 , 14, 1870129	11	1
236	Visualizing Structural Transformation and Guest Binding in a Flexible Metal-Organic Framework under High Pressure and Room Temperature. <i>ACS Central Science</i> , 2018 , 4, 1194-1200	16.8	29
235	Highly Dispersed Platinum on Honeycomb-like Film as a Synergistic Electrocatalyst for the Hydrogen Evolution Reaction. <i>ACS Catalysis</i> , 2018 , 8, 8866-8872	13.1	93

234	Copper reduced defective TiO ₂ nanoparticles with enhanced visible light photocatalytic activity. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 4857-4863	3.8	4
233	Nature of Decahydro-closo-decaborate Anion Reorientations in an Ordered Alkali-Metal Salt: Rb ₂ B ₁₀ H ₁₀ . <i>Journal of Physical Chemistry C</i> , 2018 , 122, 15198-15207	3.8	7
232	Phase separation and zero thermal expansion in antiperovskite Mn ₃ Zn _{0.77} Mn _{0.19} N _{0.94} : An in situ neutron diffraction investigation. <i>Scripta Materialia</i> , 2018 , 146, 18-21	5.6	1
231	Defective molybdenum sulfide quantum dots as highly active hydrogen evolution electrocatalysts. <i>Nano Research</i> , 2018 , 11, 751-761	10	60
230	Transition from antiferromagnetic ground state to robust ferrimagnetic order with Curie temperatures above 420 K in manganese-based antiperovskite-type structures. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 13336-13344	7.1	4
229	Innovative lithium storage enhancement in cation-deficient anatase via layered oxide hydrothermal transformation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24232-24244	13	10
228	Carbon-coated cobalt molybdenum oxide as a high-performance electrocatalyst for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 23101-23108	6.7	6
227	Neutron radiation on tin anodes of lithium-ion batteries. <i>Radiation Effects and Defects in Solids</i> , 2018 , 173, 1068-1074	0.9	4
226	Uranium Extraction: Significantly Enhanced Uranium Extraction from Seawater with Mass Produced Fully Amidoximated Nanofiber Adsorbent (Adv. Energy Mater. 33/2018). <i>Advanced Energy Materials</i> , 2018 , 8, 1870143	21.8	2
225	A Metal-Organic Framework with Suitable Pore Size and Specific Functional Sites for the Removal of Trace Propyne from Propylene. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 15183-15188	16.4	83
224	Molecular Sieving of Ethane from Ethylene through the Molecular Cross-Section Size Differentiation in Gallate-based Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 16020-16025	16.4	121
223	Molecular sieving of ethylene from ethane using a rigid metal-organic framework. <i>Nature Materials</i> , 2018 , 17, 1128-1133	27	326
222	Ethane/ethylene separation in a metal-organic framework with iron-peroxo sites. <i>Science</i> , 2018 , 362, 443-446	33.3	478
221	Significantly Enhanced Uranium Extraction from Seawater with Mass Produced Fully Amidoximated Nanofiber Adsorbent. <i>Advanced Energy Materials</i> , 2018 , 8, 1802607	21.8	136
220	Boosting Ethane/Ethylene Separation within Isoreticular Ultramicroporous Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2018 , 140, 12940-12946	16.4	186
219	A Fully Biodegradable Battery for Self-Powered Transient Implants. <i>Small</i> , 2018 , 14, e1800994	11	69
218	An intermediate temperature garnet-type solid electrolyte-based molten lithium battery for grid energy storage. <i>Nature Energy</i> , 2018 , 3, 732-738	62.3	126
217	HfO ₂ Nanorod Array as High-Performance and High-Temperature Antireflective Coating. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1600892	4.6	9

216	Feasibility study on the application of coal gangue as landfill liner material. <i>Waste Management</i> , 2017 , 63, 161-171	8.6	67
215	Continuous Draw Spinning of Extra-Long Silver Submicron Fibers with Micrometer Patterning Capability. <i>Nano Letters</i> , 2017 , 17, 1883-1891	11.5	34
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