

Hui Wu

List of Publications by Citations

Source: <https://exaly.com/author-pdf/4447076/hui-wu-publications-by-citations.pdf>

Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Stable cycling of double-walled silicon nanotube battery anodes through solid-electrolyte interphase control. <i>Nature Nanotechnology</i> , 2012 , 7, 310-5	28.7	1831
358	Stable Li-ion battery anodes by in-situ polymerization of conducting hydrogel to conformally coat silicon nanoparticles. <i>Nature Communications</i> , 2013 , 4, 1943	17.4	971
357	Unusual and highly tunable missing-linker defects in zirconium metal-organic framework UiO-66 and their important effects on gas adsorption. <i>Journal of the American Chemical Society</i> , 2013 , 135, 10525-32	16.4	902
356	Pore chemistry and size control in hybrid porous materials for acetylene capture from ethylene. <i>Science</i> , 2016 , 353, 141-4	33.3	783
355	A transparent electrode based on a metal nanotrough network. <i>Nature Nanotechnology</i> , 2013 , 8, 421-5	28.7	749
354	Thin, flexible secondary Li-ion paper batteries. <i>ACS Nano</i> , 2010 , 4, 5843-8	16.7	703
353	Microporous metal-organic framework with potential for carbon dioxide capture at ambient conditions. <i>Nature Communications</i> , 2012 , 3, 954	17.4	615
352	Engineering empty space between Si nanoparticles for lithium-ion battery anodes. <i>Nano Letters</i> , 2012 , 12, 904-9	11.5	602
351	High-capacity methane storage in metal-organic frameworks M2(dhtp): the important role of open metal sites. <i>Journal of the American Chemical Society</i> , 2009 , 131, 4995-5000	16.4	485
350	Enhanced Photocatalysis of Electrospun Ag ₂ O Heterostructured Nanofibers. <i>Chemistry of Materials</i> , 2009 , 21, 3479-3484	9.6	478
349	Ethane/ethylene separation in a metal-organic framework with iron-peroxo sites. <i>Science</i> , 2018 , 362, 443-446	33.3	478
348	Enhanced H ₂ adsorption in isostructural metal-organic frameworks with open metal sites: strong dependence of the binding strength on metal ions. <i>Journal of the American Chemical Society</i> , 2008 , 130, 15268-9	16.4	470
347	Hydrogen and Methane Adsorption in Metal-Organic Frameworks: A High-Pressure Volumetric Study. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 16131-16137	3.8	406
346	Metal nanogrids, nanowires, and nanofibers for transparent electrodes. <i>MRS Bulletin</i> , 2011 , 36, 760-765	3.2	399
345	Hydrogen carriers. <i>Nature Reviews Materials</i> , 2016 , 1,	73.3	394
344	A flexible metal-organic framework with a high density of sulfonic acid sites for proton conduction. <i>Nature Energy</i> , 2017 , 2, 877-883	62.3	377
343	Hydrogen storage in a prototypical zeolitic imidazolate framework-8. <i>Journal of the American Chemical Society</i> , 2007 , 129, 5314-5	16.4	357

342	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
341	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
340	Molecular sieving of ethylene from ethane using a rigid metal-organic framework. <i>Nature Materials</i> , 2018 , 17, 1128-1133	27	326
339	A metal-organic framework with optimized open metal sites and pore spaces for high methane storage at room temperature. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 3178-81	16.4	321
338	Carbon capture in metal-organic frameworks: a comparative study. <i>Energy and Environmental Science</i> , 2011 , 4, 2177	35.4	312
337	Exceptional Mechanical Stability of Highly Porous Zirconium Metal-Organic Framework UiO-66 and Its Important Implications. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 925-30	6.4	283
336	A porous metal-organic framework with dynamic pyrimidine groups exhibiting record high methane storage working capacity. <i>Journal of the American Chemical Society</i> , 2014 , 136, 6207-10	16.4	278
335	Electrospinning of Fe, Co, and Ni Nanofibers: Synthesis, Assembly, and Magnetic Properties. <i>Chemistry of Materials</i> , 2007 , 19, 3506-3511	9.6	266
334	Optimized Separation of Acetylene from Carbon Dioxide and Ethylene in a Microporous Material. <i>Journal of the American Chemical Society</i> , 2017 , 139, 8022-8028	16.4	263
333	Paper supercapacitors by a solvent-free drawing method. <i>Energy and Environmental Science</i> , 2011 , 4, 3368	35.4	263
332	A Flexible Microporous Hydrogen-Bonded Organic Framework for Gas Sorption and Separation. <i>Journal of the American Chemical Society</i> , 2015 , 137, 9963-70	16.4	254
331	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
330	Performance enhancement of metal nanowire transparent conducting electrodes by mesoscale metal wires. <i>Nature Communications</i> , 2013 , 4, 2522	17.4	244
329	Adsorption Sites and Binding Nature of CO ₂ in Prototypical Metal-Organic Frameworks: A Combined Neutron Diffraction and First-Principles Study. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 1946-1951	6.4	235
328	Improving battery safety by early detection of internal shorting with a bifunctional separator. <i>Nature Communications</i> , 2014 , 5, 5193	17.4	233
327	Alkali and alkaline-earth metal amidoboranes: structure, crystal chemistry, and hydrogen storage properties. <i>Journal of the American Chemical Society</i> , 2008 , 130, 14834-9	16.4	231
326	An iodide-based Li ₇ P ₂ S ₈ I superionic conductor. <i>Journal of the American Chemical Society</i> , 2015 , 137, 1384-7	16.4	228
325	Tuning defects in oxides at room temperature by lithium reduction. <i>Nature Communications</i> , 2018 , 9, 1302	17.4	225

324	Iced photochemical reduction to synthesize atomically dispersed metals by suppressing nanocrystal growth. <i>Nature Communications</i> , 2017 , 8, 1490	17.4	219
323	An Ideal Molecular Sieve for Acetylene Removal from Ethylene with Record Selectivity and Productivity. <i>Advanced Materials</i> , 2017 , 29, 1704210	24	213
322	Metal-organic frameworks with exceptionally high methane uptake: where and how is methane stored?. <i>Chemistry - A European Journal</i> , 2010 , 16, 5205-14	4.8	208
321	Silicon-Carbon Nanotube Coaxial Sponge as Li-Ion Anodes with High Areal Capacity. <i>Advanced Energy Materials</i> , 2011 , 1, 523-527	21.8	206
320	Lithium-Ion Textile Batteries with Large Areal Mass Loading. <i>Advanced Energy Materials</i> , 2011 , 1, 1012-1017	11.8	205
319	Roll-to-Roll Production of Transparent Silver-Nanofiber-Network Electrodes for Flexible Electrochromic Smart Windows. <i>Advanced Materials</i> , 2017 , 29, 1703238	24	198
318	Electrospinning of ceramic nanofibers: Fabrication, assembly and applications. <i>Journal of Advanced Ceramics</i> , 2012 , 1, 2-23	10.7	193
317	Direct Blow-Spinning of Nanofibers on a Window Screen for Highly Efficient PM Removal. <i>Nano Letters</i> , 2017 , 17, 1140-1148	11.5	187
316	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
315	Unparalleled Lithium and Sodium Superionic Conduction in Solid Electrolytes with Large Monovalent Cage-like Anions. <i>Energy and Environmental Science</i> , 2015 , 8, 3637-3645	35.4	183
314	Exceptional superionic conductivity in disordered sodium decahydro-closo-decaborate. <i>Advanced Materials</i> , 2014 , 26, 7622-6	24	179
313	Flexible-Robust Metal-Organic Framework for Efficient Removal of Propyne from Propylene. <i>Journal of the American Chemical Society</i> , 2017 , 139, 7733-7736	16.4	177
312	Printed energy storage devices by integration of electrodes and separators into single sheets of paper. <i>Applied Physics Letters</i> , 2010 , 96, 183502	3.4	171
311	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
310	New high T(c) multiferroics KBiFe ₂ O ₇ with narrow band gap and promising photovoltaic effect. <i>Scientific Reports</i> , 2013 , 3, 1265	4.9	160
309	Tunable titanium metal-organic frameworks with infinite 1D TiO ₂ rods for efficient visible-light-driven photocatalytic H ₂ evolution. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 11928-11933	13	153
308	Liquid-Like Ionic Conduction in Solid Lithium and Sodium Monocarbonyl-closo-Decaborates Near or at Room Temperature. <i>Advanced Energy Materials</i> , 2016 , 6, 1502237	21.8	148
307	Graphene-based Recyclable Photo-Absorbers for High-Efficiency Seawater Desalination. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 9194-9	9.5	141

306	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
305	Significantly Enhanced Uranium Extraction from Seawater with Mass Produced Fully Amidoximated Nanofiber Adsorbent. <i>Advanced Energy Materials</i> , 2018 , 8, 1802607	21.8	136
304	Biomimetic nanofiber patterns with controlled wettability. <i>Soft Matter</i> , 2008 , 4, 2429	3.6	133
303	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
302	Giant negative thermal expansion in bonded MnCoGe-based compounds with Ni ₂ In-type hexagonal structure. <i>Journal of the American Chemical Society</i> , 2015 , 137, 1746-9	16.4	130
301	Ultrahigh and Selective SO ₂ Uptake in Inorganic Anion-Pillared Hybrid Porous Materials. <i>Advanced Materials</i> , 2017 , 29, 1606929	24	127
300	High separation capacity and selectivity of C ₂ hydrocarbons over methane within a microporous metal-organic framework at room temperature. <i>Chemistry - A European Journal</i> , 2012 , 18, 1901-4	4.8	127
299	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
298	Ultralight, scalable, and high-temperature-resilient ceramic nanofiber sponges. <i>Science Advances</i> , 2017 , 3, e1603170	14.3	123
297	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
296	Structure and polarization in the high T _c ferroelectric Bi(Zn,Ti)O ₃ -PbTiO ₃ solid solutions. <i>Physical Review Letters</i> , 2007 , 98, 107601	7.4	118
295	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
294	Fabrication, assembly, and electrical characterization of CuO nanofibers. <i>Applied Physics Letters</i> , 2006 , 89, 133125	3.4	111
293	Methane Sorption in Nanoporous Metal-Organic Frameworks and First-Order Phase Transition of Confined Methane. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 3029-3035	3.8	110
292	Nanowire-Based High-Performance Micro Fuel Cells—One Nanowire, One Fuel Cell. <i>Advanced Materials</i> , 2008 , 20, 1644-1648	24	109
291	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
290	Porous metal-organic frameworks with Lewis basic nitrogen sites for high-capacity methane storage. <i>Energy and Environmental Science</i> , 2015 , 8, 2504-2511	35.4	107
289	Reorientation of magnetic dipoles at the antiferroelectric-paraelectric phase transition of Bi _{1-x} NdxFeO ₃ (0.15 ≤ x ≤ 0.25). <i>Physical Review B</i> , 2010 , 81,	3.3	106

288	Enhanced UV photoresponse from heterostructured Ag ₂ O nanowires. <i>Applied Physics Letters</i> , 2009 , 94, 172103	3.4	101
287	Dehydrogenation tuning of ammine borohydrides using double-metal cations. <i>Journal of the American Chemical Society</i> , 2011 , 133, 4690-3	16.4	95
286	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
285	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
284	ZnO Nanofiber Field-Effect Transistor Assembled by Electrospinning. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 656-659	3.8	89
283	New Insights into the Negative Thermal Expansion: Direct Experimental Evidence for the "Guitar-String" Effect in Cubic ScF ₃ . <i>Journal of the American Chemical Society</i> , 2016 , 138, 8320-3	16.4	88
282	-60 °C solution synthesis of atomically dispersed cobalt electrocatalyst with superior performance. <i>Nature Communications</i> , 2019 , 10, 606	17.4	87
281	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
280	Low reflectivity and high flexibility of tin-doped indium oxide nanofiber transparent electrodes. <i>Journal of the American Chemical Society</i> , 2011 , 133, 27-9	16.4	85
279	Giant barocaloric effect in hexagonal Ni ₂ In-type Mn-Co-Ge-In compounds around room temperature. <i>Scientific Reports</i> , 2015 , 5, 18027	4.9	83
278	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
277	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
276	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
275	A Flexible, Robust, and Gel-Free Electroencephalogram Electrode for Noninvasive Brain-Computer Interfaces. <i>Nano Letters</i> , 2019 , 19, 6853-6861	11.5	80
274	Nanoconfinement and catalytic dehydrogenation of ammonia borane by magnesium-metal-organic-framework-74. <i>Chemistry - A European Journal</i> , 2011 , 17, 6043-7	4.8	80
273	Porous TiNbO microspheres as high-performance anode materials for lithium-ion batteries of electric vehicles. <i>Nanoscale</i> , 2016 , 8, 18792-18799	7.7	78
272	Microporous Diaminotriazine-Decorated Porphyrin-Based Hydrogen-Bonded Organic Framework: Permanent Porosity and Proton Conduction. <i>Crystal Growth and Design</i> , 2016 , 16, 5831-5835	3.5	77
271	Large-scale hierarchical oxide nanostructures for high-performance electrocatalytic water splitting. <i>Nano Energy</i> , 2017 , 35, 207-214	17.1	74

270	Giant magnetoresistance in the half-metallic double-perovskite ferrimagnet Mn ₂ FeReO ₆ . <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 12069-73	16.4	73
269	Ultrathin Bi Nanosheets with Superior Photoluminescence. <i>Small</i> , 2017 , 13, 1701349	11	72
268	A Marine-Inspired Hybrid Sponge for Highly Efficient Uranium Extraction from Seawater. <i>Advanced Functional Materials</i> , 2019 , 29, 1901009	15.6	71
267	Photothermal therapy by using titanium oxide nanoparticles. <i>Nano Research</i> , 2016 , 9, 1236-1243	10	70
266	Stabilizing lithium and sodium fast-ion conduction in solid polyhedral-borate salts at device-relevant temperatures. <i>Energy Storage Materials</i> , 2016 , 4, 79-83	19.4	70
265	Switching Between Giant Positive and Negative Thermal Expansions of a YFe(CN) ₆ -based Prussian Blue Analogue Induced by Guest Species. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 9023-9028	16.4	69
264	A Fully Biodegradable Battery for Self-Powered Transient Implants. <i>Small</i> , 2018 , 14, e1800994	11	69
263	Efficient separation of ethylene from acetylene/ethylene mixtures by a flexible-robust metal-organic framework. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 18984-18988	13	68
262	Quasi-free methyl rotation in zeolitic imidazolate framework-8. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 12602-6	2.8	68
261	Feasibility study on the application of coal gangue as landfill liner material. <i>Waste Management</i> , 2017 , 63, 161-171	8.6	67
260	Large-Scale Spinning of Silver Nanofibers as Flexible and Reliable Conductors. <i>Nano Letters</i> , 2016 , 16, 5846-51	11.5	67
259	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
258	Sodium magnesium amidoborane: the first mixed-metal amidoborane. <i>Chemical Communications</i> , 2011 , 47, 4102-4	5.8	66
257	Versatile Assembly of Metal-Coordinated Calix[4]resorcinarene Cavitands and Cages through Ancillary Linker Tuning. <i>Journal of the American Chemical Society</i> , 2017 , 139, 7648-7656	16.4	65
256	Structure of ternary imide Li ₂ Ca(NH) ₂ and hydrogen storage mechanisms in amide-hydride system. <i>Journal of the American Chemical Society</i> , 2008 , 130, 6515-22	16.4	65
255	Structures and Crystal Chemistry of Li ₂ BNH ₆ and Li ₄ BN ₃ H ₁₀ . <i>Chemistry of Materials</i> , 2008 , 20, 1245-1247	3.6	65
254	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
253	Nanoconfined ammonia borane in a flexible metal-organic framework Fe-MIL-53: clean hydrogen release with fast kinetics. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 4167	13	62

252	A new family of metal borohydride ammonia borane complexes: Synthesis, structures, and hydrogen storage properties. <i>Journal of Materials Chemistry</i> , 2010 , 20, 6550		62
251	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
250	Invar-like Behavior of Antiperovskite $Mn_{3+x}Ni_{1-x}N$ Compounds. <i>Chemistry of Materials</i> , 2015 , 27, 2495-2501		60
249	Defective molybdenum sulfide quantum dots as highly active hydrogen evolution electrocatalysts. <i>Nano Research</i> , 2018 , 11, 751-761	10	60
248	Lowering Band Gap of an Electroactive Metal-Organic Framework via Complementary Guest Intercalation. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 32413-32417	9.5	59
247	Borohydride hydrazinates: high hydrogen content materials for hydrogen storage. <i>Energy and Environmental Science</i> , 2012 , 5, 5686-5689	35.4	59
246	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
245	Two solvent-induced porous hydrogen-bonded organic frameworks: solvent effects on structures and functionalities. <i>Chemical Communications</i> , 2017 , 53, 11150-11153	5.8	58
244	Scalable manufacturing and applications of nanofibers. <i>Materials Today</i> , 2019 , 28, 98-113	21.8	57
243	Mass production of two-dimensional oxides by rapid heating of hydrous chlorides. <i>Nature Communications</i> , 2016 , 7, 12543	17.4	56
242	Metal hydrazinoborane $LiN_2H_3BH_3$ and $LiN_2H_3BH_3 \cdot 2N_2H_4BH_3$: crystal structures and high-extent dehydrogenation. <i>Energy and Environmental Science</i> , 2012 , 5, 7531	35.4	55
241	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
240	Scalable Synthesis of 2D Si Nanosheets. <i>Advanced Materials</i> , 2017 , 29, 1701777	24	54
239	Facile Synthesis of Heterostructured ZnO/nS Nanocables and Enhanced Photocatalytic Activity. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 3384-3389	3.8	54
238	Lithium-Ion Battery Cycling for Magnetism Control. <i>Nano Letters</i> , 2016 , 16, 583-7	11.5	54
237	High-Performance Real-Time SERS Detection with Recyclable Ag Nanorods@HfO Substrates. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 27162-27168	9.5	54
236	High-Temperature Particulate Matter Filtration with Resilient Yttria-Stabilized ZrO Nanofiber Sponge. <i>Small</i> , 2018 , 14, e1800258	11	53
235	2D Metals by Repeated Size Reduction. <i>Advanced Materials</i> , 2016 , 28, 8170-8176	24	53

234	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
233	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
232	Oxygen-deficient metal oxides: Synthesis routes and applications in energy and environment. <i>Nano Research</i> , 2019 , 12, 2150-2163	10	51
231	A microporous hydrogen-bonded organic framework with amine sites for selective recognition of small molecules. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 8292-8296	13	50
230	Structure and magnetic properties of the RNaFeO_2 -type honeycomb compound $\text{Na}_3\text{Ni}_2\text{BiO}_6$. <i>Inorganic Chemistry</i> , 2013 , 52, 13605-11	5.1	48
229	Magnetic structure of bixbyite RMn_2O_3 : A combined DFT+U and neutron diffraction study. <i>Physical Review B</i> , 2013 , 87,	3.3	48
228	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
227	Surface graphited carbon scaffold enables simple and scalable fabrication of 3D composite lithium metal anode. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 19168-19174	13	47
226	Reusable DNA-functionalized-graphene for ultrasensitive mercury (II) detection and removal. <i>Biosensors and Bioelectronics</i> , 2017 , 87, 129-135	11.8	47
225	Structural stability and elastic properties of prototypical covalent organic frameworks. <i>Chemical Physics Letters</i> , 2010 , 499, 103-107	2.5	46
224	Crystal Chemistry of Perovskite-Type Hydride NaMgH_3 : Implications for Hydrogen Storage. <i>Chemistry of Materials</i> , 2008 , 20, 2335-2342	9.6	46
223	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
222	Uniform Lithium Deposition Induced by Polyacrylonitrile Submicron Fiber Array for Stable Lithium Metal Anode. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 10360-10365	9.5	43
221	High T_c in Electrospun BaTiO_3 Nanofibers. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 2162-2164	3.8	43
220	Strategies for the improvement of the hydrogen storage properties of metal hydride materials. <i>ChemPhysChem</i> , 2008 , 9, 2157-62	3.2	42
219	A flexible and transparent ceramic nanobelt network for soft electronics. <i>NPG Asia Materials</i> , 2014 , 6, e86-e86	10.3	41
218	Preparation of Necklace-Structured $\text{TiO}_2/\text{SnO}_2$ Hybrid Nanofibers and Their Photocatalytic Activity. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 2463-2466	3.8	41
217	Morphological Control of Centimeter Long Aluminum-Doped Zinc Oxide Nanofibers Prepared by Electrospinning. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 71-76	3.8	41

216	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
215	Baromagnetic Effect in Antiperovskite Mn ₃ Ga _{0.95} N _{0.94} by Neutron Powder Diffraction Analysis. <i>Advanced Materials</i> , 2016 , 28, 3761-7	24	41
214	Geotechnical Properties of Mine Tailings. <i>Journal of Materials in Civil Engineering</i> , 2017 , 29, 04016220	3	40
213	Direct writing of half-meter long CNT based fiber for flexible electronics. <i>Nano Letters</i> , 2015 , 15, 1609-14	11.5	40
212	Phase transitions and magnetocaloric effect in Mn ₃ Cu _{0.89} N _{0.96} . <i>Acta Materialia</i> , 2014 , 74, 58-65	8.4	39
211	Order-Disorder Transitions and Superionic Conductivity in the Sodium nido-Undeca(carba)borates. <i>Chemistry of Materials</i> , 2017 , 29, 10496-10509	9.6	39
210	Photocatalytic and Magnetic Properties of the Fe-TiO ₂ /SnO ₂ Nanofiber Via Electrospinning. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 605-608	3.8	37
209	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
208	Evolution of the Reorientational Motions of the Tetrahydroborate Anions in Hexagonal LiBH ₄ LiI Solid Solution by High-Q Quasielastic Neutron Scattering. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 12010-12018	3.8	35
207	Continuous Draw Spinning of Extra-Long Silver Submicron Fibers with Micrometer Patterning Capability. <i>Nano Letters</i> , 2017 , 17, 1883-1891	11.5	34
206	High conductivity of La ₂ Zr ₂ O ₇ nanofibers by phase control. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 1855-1861	13	34
205	Buckled Tin Oxide Nanobelt Webs as Highly Stretchable and Transparent Photosensors. <i>Small</i> , 2015 , 11, 5712-8	11	34
204	TiN Nanofibers: A New Material with High Conductivity and Transmittance for Transparent Conductive Electrodes. <i>Advanced Functional Materials</i> , 2013 , 23, 209-214	15.6	34
203	Size effects on the hydrogen storage properties of nanoscaffolded Li ₃ BN ₂ H ₈ . <i>Nanotechnology</i> , 2009 , 20, 204002	3.4	33
202	Cycling of a Lithium-Ion Battery with a Silicon Anode Drives Large Mechanical Actuation. <i>Advanced Materials</i> , 2016 , 28, 10236-10243	24	33
201	Suppressed phase transition and giant ionic conductivity in La ₂ Mo ₂ O ₉ nanowires. <i>Nature Communications</i> , 2015 , 6, 8354	17.4	32
200	LiBH ₄ ·NH ₃ BH ₃ : A new lithium borohydride ammonia borane compound with a novel structure and favorable hydrogen storage properties. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 10750-10757	6.7	32
199	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

198	Structural Behavior of Li ₂ B ₁₀ H ₁₀ . <i>Journal of Physical Chemistry C</i> , 2015 , 119, 6481-6487	3.8	31
197	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
196	Highly Flexible Indium Tin Oxide Nanofiber Transparent Electrodes by Blow Spinning. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 32661-32666	9.5	31
195	A transparent, conducting tape for flexible electronics. <i>Nano Research</i> , 2016 , 9, 917-924	10	31
194	High-T superconducting phases in organic molecular intercalated iron selenides: synthesis and crystal structures. <i>Chemical Communications</i> , 2017 , 53, 9729-9732	5.8	31
193	SiO _x Nanodandelion by Laser Ablation for Anode of Lithium-Ion Battery. <i>Small</i> , 2015 , 11, 6009-12	11	31
192	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
191	Comparison of the Coordination of BF, BCl, and BH to Na in the Solid State: Crystal Structures and Thermal Behavior of Na(BF), Na(HO)(BF), Na(BCl), and Na(HO)(BCl). <i>Inorganic Chemistry</i> , 2017 , 56, 4369-4379	5.1	29
190	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
189	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
188	Fast lithium-ionic conduction in a new complex hydride-sulphide crystalline phase. <i>Chemical Communications</i> , 2016 , 52, 564-6	5.8	28
187	An ammonia-stabilized mixed-cation borohydride: synthesis, structure and thermal decomposition behavior. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 135-43	3.6	28
186	Hydrogen Storage In A Novel Destabilized Hydride System, Ca ₂ SiH _x : Effects of Amorphization. <i>Chemistry of Materials</i> , 2007 , 19, 329-334	9.6	28
185	A Mott insulator continuously connected to iron pnictide superconductors. <i>Nature Communications</i> , 2016 , 7, 13879	17.4	28
184	Filling the Gaps between Graphene Oxide: A General Strategy toward Nanolayered Oxides. <i>Advanced Functional Materials</i> , 2015 , 25, 5683-5690	15.6	27
183	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
182	Monoammoniate of calcium amidoborane: synthesis, structure, and hydrogen-storage properties. <i>Inorganic Chemistry</i> , 2012 , 51, 1599-603	5.1	27
181	Structure of the novel ternary hydrides Li ₄ Tt ₂ D (Tt=Si and Ge). <i>Acta Crystallographica Section B: Structural Science</i> , 2007 , 63, 63-8		27

180	Large Piezoelectric Strain in Sub-10 Nanometer Two-Dimensional Polyvinylidene Fluoride Nanoflakes. <i>ACS Nano</i> , 2019 , 13, 4496-4506	16.7	26
179	Reduction of graphene oxide in Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 18360-18364	13	26
178	A large-area AgNW-modified textile with high-performance electromagnetic interference shielding. <i>Npj Flexible Electronics</i> , 2020 , 4,	10.7	26
177	Neutron Powder Diffraction of (Nd ₇ /12Li ₁ /4)TiO ₃ Nano-Checkerboard Superlattices. <i>Chemistry of Materials</i> , 2008 , 20, 2860-2862	9.6	26
176	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
175	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
174	High performance alumina based graphene nanocomposites with novel electrical and dielectric properties. <i>RSC Advances</i> , 2015 , 5, 33607-33614	3.7	25
173	Glass fiber fabric mat as the separator for lithium-ion battery with high safety performance. <i>Ionics</i> , 2015 , 21, 3135-3139	2.7	25
172	Blowspinning: A New Choice for Nanofibers. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 33447-33464	19.4	24
171	Ice Melting to Release Reactants in Solution Syntheses. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 3354-3359	16.4	24
170	Ice as Solid Electrolyte To Conduct Various Kinds of Ions. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 12569-12573	16.4	24
169	Structure and thermal expansion of the tungsten bronze Pb _{1-x} Nb _x O ₆ . <i>Dalton Transactions</i> , 2014 , 43, 7037-43	4.3	24
168	Alkali Metal Hydride Modification on Hydrazine Borane for Improved Dehydrogenation. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 11244-11251	3.8	24
167	Metal cation-promoted hydrogen generation in activated aluminium borohydride ammoniates. <i>Acta Materialia</i> , 2013 , 61, 4787-4796	8.4	24
166	Evidence of a transition to reorientational disorder in the cubic alkali-metal dodecahydro-closo-dodecaborates. <i>Journal of Solid State Chemistry</i> , 2011 , 184, 3110-3116	3.3	24
165	High-purity electrolytic lithium obtained from low-purity sources using solid electrolyte. <i>Nature Sustainability</i> , 2020 , 3, 386-390	22.1	23
164	Ordered structure and thermal expansion in tungsten bronze Pb _{1-x} (0.5)Li(0.5)Nb _x O ₆ . <i>Inorganic Chemistry</i> , 2014 , 53, 9174-80	5.1	23
163	Surface Engineering of Perovskite Oxide for Bifunctional Oxygen Electrocatalysis. <i>Small Methods</i> , 2019 , 3, 1800279	12.8	23

162	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
161	Antireflective coatings with enhanced adhesion strength. <i>Nanoscale</i> , 2017 , 9, 11047-11054	7.7	21
160	The structure of monoclinic Na ₂ B ₁₀ H ₁₀ : a combined diffraction, spectroscopy, and theoretical approach. <i>CrystEngComm</i> , 2015 , 17, 3533-3540	3.3	21
159	Synthesis, structures and dehydrogenation of magnesium borohydride-ethylenediamine composites. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 412-419	6.7	21
158	Defects enhanced photocatalytic performances in SrTiO ₃ using laser-melting treatment. <i>Journal of Materials Research</i> , 2017 , 32, 748-756	2.5	20
157	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, 6896-6904	16.4	20
156	Large magnetocaloric effect in Er ₁₂ Co ₇ compound and the enhancement of ΔFWHM by Ho-substitution. <i>Journal of Alloys and Compounds</i> , 2016 , 680, 617-622	5.7	20
155	Fine Tuning of MOF-505 Analogues To Reduce Low-Pressure Methane Uptake and Enhance Methane Working Capacity. <i>Angewandte Chemie</i> , 2017 , 129, 11584-11588	3.6	20
154	Alkali and alkaline-earth metal borohydride hydrazinates: synthesis, structures and dehydrogenation. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 10487-93	3.6	20
153	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
152	Frustrated Triangular Magnetic Structures of Mn ₃ ZnN: Applications in Thermal Expansion. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 24983-24990	3.8	19
151	Large-scale blow spinning of heat-resistant nanofibrous air filters. <i>Nano Research</i> , 2020 , 13, 861-867	10	19
150	Enhanced Electrocatalytic Activity for Water Splitting on NiO/Ni/Carbon Fiber Paper. <i>Materials</i> , 2016 , 10,	3.5	19
149	Transition and Alkali Metal Complex Ternary Amides for Ammonia Synthesis and Decomposition. <i>Chemistry - A European Journal</i> , 2017 , 23, 9766-9771	4.8	18
148	Integration of Si in a metal foam current collector for stable electrochemical cycling in Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 10114-10118	13	18
147	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
146	A robust microporous metal-organic framework constructed from a flexible organic linker for highly selective sorption of methanol over ethanol and water. <i>Journal of Materials Chemistry</i> , 2012 , 22, 10352		18
145	AlO Encapsulated Teflon Nanostructures with High Thermal Stability and Efficient Antireflective Performance. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 36327-36337	9.5	17

144	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
143	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
142	Defective MoS ₂ electrocatalyst for highly efficient hydrogen evolution through a simple ball-milling method. <i>Science China Materials</i> , 2017 , 60, 849-856	7.1	17
141	Electrical behavior of electrospun heterostructured Ag ₂ SnO nanofibers. <i>Applied Physics Letters</i> , 2009 , 95, 112104	3.4	17
140	Neutron vibrational spectroscopy and first-principles calculations of the ternary hydrides Li ₄ Si ₂ H(D) and Li ₄ Ge ₂ H(D): Electronic structure and lattice dynamics. <i>Physical Review B</i> , 2007 , 76,	3.3	17
139	Porous organic cages as synthetic water channels. <i>Nature Communications</i> , 2020 , 11, 4927	17.4	17
138	Effects of Electro-Osmosis on the Physical and Chemical Properties of Bentonite. <i>Journal of Materials in Civil Engineering</i> , 2016 , 28, 06016010	3	17
137	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
136	Ultrasensitive, Low-Voltage Operational, and Asymmetric Ionic Sensing Hydrogel for Multipurpose Applications. <i>Advanced Functional Materials</i> , 2020 , 30, 1909616	15.6	16
135	A simple and efficient approach to synthesize amidoborane ammoniates: case study for Mg(NH ₂ BH ₃) ₂ (NH ₃) ₃ with unusual coordination structure. <i>Journal of Materials Chemistry</i> , 2012 , 22, 13174		16
134	Preparation of ZnS Nanofibers Via Electrospinning. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 3664-3666	3.8	16
133	Continuous Roll-to-Roll Production of Carbon Nanoparticles from Candle Soot. <i>Nano Letters</i> , 2021 , 21, 3198-3204	11.5	16
132	Antiferromagnetic and Orbital Ordering on a Diamond Lattice Near Quantum Criticality. <i>Physical Review X</i> , 2016 , 6,	9.1	16
131	Mechanically robust antireflective coatings. <i>Nano Research</i> , 2018 , 11, 1699-1713	10	15
130	Enhanced Electron Collection in Perovskite Solar Cells Employing Thermoelectric NaCoO ₃ /TiO ₂ Coaxial Nanofibers. <i>Small</i> , 2016 , 12, 5146-5152	11	15
129	Crystal Chemistry and Dehydrogenation/Rehydrogenation Properties of Perovskite Hydrides RbMgH ₃ and RbCaH ₃ . <i>Journal of Physical Chemistry C</i> , 2009 , 113, 15091-15098	3.8	15
128	Sandwich electrode designed for high performance lithium-ion battery. <i>Nanoscale</i> , 2016 , 8, 9511-6	7.7	15
127	Transport and Exchange Behavior of Ions in Bentonite During Electro-Osmotic Consolidation. <i>Clays and Clay Minerals</i> , 2015 , 63, 395-403	2.1	14

126	Structures of the strontium and barium dodecahydro-closo-dodecaborates. <i>Journal of Alloys and Compounds</i> , 2012 , 514, 71-75	5.7	14
125	High performance surface-enhanced Raman scattering substrate combining low dimensional and hierarchical nanostructures. <i>Langmuir</i> , 2010 , 26, 6865-8	4	14
124	A calix[4]resorcinarene-based giant coordination cage: controlled assembly and iodine uptake. <i>Chemical Communications</i> , 2020 , 56, 2491-2494	5.8	14
123	Highly Selective Adsorption of Carbon Dioxide over Acetylene in an Ultramicroporous Metal-Organic Framework. <i>Advanced Materials</i> , 2021 , 33, e2105880	24	14
122	Theory of Half-Space Light Absorption Enhancement for Leaky Mode Resonant Nanowires. <i>Nano Letters</i> , 2015 , 15, 5513-8	11.5	13
121	Sol-gel synthesis of mesoporous spherical zirconia. <i>RSC Advances</i> , 2015 , 5, 104629-104634	3.7	13
120	Solution-Based, Template-Assisted Realization of Large-Scale Graphitic ZnO. <i>ACS Nano</i> , 2018 , 12, 7554-7561	5.7	13
119	Analytical Solution for Electroosmotic Consolidation Considering Nonlinear Variation of Soil Parameters. <i>International Journal of Geomechanics</i> , 2017 , 17, 06016032	3.1	13
118	Lithiated primary amine--a new material for hydrogen storage. <i>Chemistry - A European Journal</i> , 2014 , 20, 6632-5	4.8	13
117	Structural variations and hydrogen storage properties of Ca ₅ Si ₃ with Cr ₅ B ₃ -type structure. <i>Chemical Physics Letters</i> , 2008 , 460, 432-437	2.5	13
116	Structure and hydrogenation properties of the ternary alloys Ca ₂ Mg _x Si (0 ≤ x ≤ 1). <i>Journal of Alloys and Compounds</i> , 2007 , 446-447, 101-105	5.7	13
115	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
114	Direct Blow Spinning of Flexible and Transparent Ag Nanofiber Heater. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900045	6.8	12
113	Continuous production and properties of multi-level nanofiber air filters by blow spinning.. <i>RSC Advances</i> , 2020 , 10, 19615-19620	3.7	12
112	Structure and properties of NaFeO ₂ -type ternary sodium iridates. <i>Journal of Solid State Chemistry</i> , 2014 , 210, 195-205	3.3	12
111	Low-temperature tunneling and rotational dynamics of the ammonium cations in (NH ₄) ₂ B ₁₂ H ₁₂ . <i>Journal of Chemical Physics</i> , 2011 , 135, 094501	3.9	12
110	Non-stoichiometric 1:2 ordered perovskites in the Ba(Li _{1/4} Nb _{3/4})O ₃ Ba(Li _{2/5} W _{3/5})O ₃ system. <i>Journal of Solid State Chemistry</i> , 2004 , 177, 3469-3478	3.3	12
109	Near-zero temperature coefficient of resistivity associated with magnetic ordering in antiperovskite Mn _{3+x} Ni _{1-x} N. <i>Applied Physics Letters</i> , 2016 , 108, 041908	3.4	12

108	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
107	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
106	A highly active molybdenum polysulfide electrocatalyst for the hydrogen evolution reaction. <i>RSC Advances</i> , 2016 , 6, 107158-107162	3.7	11
105	Synthesis, thermal behavior, and dehydrogenation kinetics study of lithiated ethylenediamine. <i>Chemistry - A European Journal</i> , 2014 , 20, 13636-43	4.8	11
104	Structure, phase transition, and controllable thermal expansion behaviors of Sc _{2-x} Fe _x MoO ₁₀ . <i>Inorganic Chemistry</i> , 2014 , 53, 9206-12	5.1	11
103	Construction of ntt-Type Metal-Organic Framework from C ₂ -Symmetry Hexacarboxylate Linker for Enhanced Methane Storage. <i>Crystal Growth and Design</i> , 2017 , 17, 4795-4800	3.5	11
102	Ultra-low thermal expansion realized in giant negative thermal expansion materials through self-compensation. <i>APL Materials</i> , 2017 , 5, 106102	5.7	11
101	Li ₂ (NH ₂ BH ₃)(BH ₄)/LiNH ₂ BH ₃ : The first metal amidoborane borohydride complex with inseparable amidoborane precursor for hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 197-204	6.7	11
100	Influence of Non-Stoichiometry on the Structure and Properties of Ba(Zn _{1/3} Nb _{2/3})O ₃ Microwave Dielectrics: II. Compositional Variations in Pure BZN. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 060428035142025-???	3.8	11
99	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
98	Metallo-N-Heterocycles - A new family of hydrogen storage material. <i>Energy Storage Materials</i> , 2020 , 26, 198-202	19.4	11
97	Enhanced Wear Performance of Cu-Carbon Nanotubes Composite Coatings Prepared by Jet Electrodeposition. <i>Materials</i> , 2019 , 12,	3.5	10
96	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
95	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
94	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
93	The low-temperature structural behavior of sodium 1-carba-closo-decaborate: NaCB ₉ H ₁₀ . <i>Journal of Solid State Chemistry</i> , 2016 , 243, 162-167	3.3	10
92	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
91	Structural and Dynamical Properties of Potassium Dodecahydro-monocarba-closo-dodecaborate: KCB ₁₁ H ₁₂ . <i>Journal of Physical Chemistry C</i> , 2020 , 124, 17992-18002	3.8	10

90	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
89	HfO ₂ Nanorod Array as High-Performance and High-Temperature Antireflective Coating. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1600892	4.6	9
88	A facile fabrication method for ultrathin NiO/Ni nanosheets as a high-performance electrocatalyst for the oxygen evolution reaction. <i>RSC Advances</i> , 2017 , 7, 18539-18544	3.7	9
87	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
86	Room temperature Mg reduction of TiO: formation mechanism and application in photocatalysis. <i>Chemical Communications</i> , 2019 , 55, 7675-7678	5.8	9
85	Lithium amidoborane hydrazinates: synthesis, structure and hydrogen storage properties. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 10100-10106	13	9
84	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
83	Bilayer SiO ₂ Nanorod Arrays as Omnidirectional and Thermally Stable Antireflective Coating. <i>Advanced Engineering Materials</i> , 2018 , 20, 1700942	3.5	9
82	Latent Porosity in Alkali-Metal MBF Salts: Structures and Rapid Room-Temperature Hydration/Dehydration Cycles. <i>Inorganic Chemistry</i> , 2017 , 56, 12023-12041	5.1	9
81	Antiperovskite Chalco-Halides Ba ₃ (FeS ₄)Cl, Ba ₃ (FeS ₄)Br, and Ba ₃ (FeSe ₄)Br with Spin Super-Super Exchange. <i>Scientific Reports</i> , 2015 , 5, 15910	4.9	9
80	Raman, FTIR, photoacoustic-FTIR and inelastic neutron scattering spectra of alkaline earth and lanthanide salts of hexahydridoruthenate(II), A ₂ RuH ₆ , (A = Ca, Sr, Eu) and their deuterides. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 6936-8	2.8	9
79	Ordered perovskites in the A ₂ +(Li _{1/4} Nb _{3/4})O ₃ A ₂ +(Li _{2/5} W _{3/5})O ₃ (A ₂ + = Sr, Ca) systems. <i>Journal of Solid State Chemistry</i> , 2004 , 177, 4305-4315	3.3	9
78	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
77	Draw-Spinning of Kilometer-Long and Highly Stretchable Polymer Submicrometer Fibers. <i>Advanced Science</i> , 2017 , 4, 1600480	13.6	8
76	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
75	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
74	Room-temperature processing of silver submicron fiber mesh for flexible electronics. <i>Npj Flexible Electronics</i> , 2018 , 2,	10.7	8
73	Ice Melting to Release Reactants in Solution Syntheses. <i>Angewandte Chemie</i> , 2018 , 130, 3412-3417	3.6	8

72	High purity copper nanoparticles via sonoelectrochemical approach. <i>Materials Research Express</i> , 2019 , 6, 115058	1.7	8
71	Metal Nanoparticle Harvesting by Continuous Rotating Electrodeposition and Separation. <i>Matter</i> , 2020 , 3, 1294-1307	12.7	8
70	Effect of HO Molecules on Thermal Expansion of TiCo(CN). <i>Inorganic Chemistry</i> , 2020 , 59, 14852-14855	5.1	8
69	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
68	A heatproof separator for lithium-ion battery based on nylon66 nanofibers. <i>Ionics</i> , 2016 , 22, 731-734	2.7	8
67	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
66	Structural evolution and phase diagram of the superconducting iron selenides Li _x (C ₂ H ₈ N ₂) _y Fe ₂ Se ₂ (x=0~0.8). <i>Physical Review B</i> , 2019 , 99,	3.3	7
65	Aerodynamic levitated laser annealing method to defective titanium dioxide with enhanced photocatalytic performance. <i>Nano Research</i> , 2016 , 9, 3839-3847	10	7
64	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
63	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
62	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
61	A new family of metal borohydride guanidinate complexes: Synthesis, structures and hydrogen-storage properties. <i>Journal of Solid State Chemistry</i> , 2016 , 242, 186-192	3.3	7
60	Ice as Solid Electrolyte To Conduct Various Kinds of Ions. <i>Angewandte Chemie</i> , 2019 , 131, 12699-12703	3.6	6
59	Influence of Non-Stoichiometry on the Structure and Properties of Ba(Zn _{1/3} Nb _{2/3})O ₃ Microwave Dielectrics: I. Substitution of Ba ₃ W ₂ O ₉ . <i>Journal of the American Ceramic Society</i> , 2006 , 89, 060428035142030-???	3.8	6
58	Thermal Expansion and Second Harmonic Generation Response of the Tungsten Bronze Pb ₂ AgNb ₅ O ₁₅ . <i>Inorganic Chemistry</i> , 2016 , 55, 2864-9	5.1	6
57	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
56	High-throughput production of kilogram-scale nanofibers by K \bar{m} vortex solution blow spinning.. <i>Science Advances</i> , 2022 , 8, eabn3690	14.3	6
55	Numerical Assessment of Equivalent Radius for Electrokinetic Geosynthetic Electrodes during Electroosmotic Consolidation. <i>International Journal of Geomechanics</i> , 2018 , 18, 04018024	3.1	5

54	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
53	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
52	Mechanochemical Synthesis of Pt/NbCT MXene Composites for Enhanced Electrocatalytic Hydrogen Evolution. <i>Materials</i> , 2021 , 14,	3.5	5
51	Development of potential organic-molecule-based hydrogen storage materials: Converting CN bond-breaking thermolysis of guanidine to NH bond-breaking dehydrogenation. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 18542-18549	6.7	5
50	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
49	A core-shell structured CoMoO ₂ BHO@CoFeOOH nanocatalyst for electrochemical evolution of oxygen. <i>Electrochimica Acta</i> , 2020 , 345, 136125-136125	6.7	4
48	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
47	Numerical model of soft ground improvement by vertical drain combined with vacuum preloading. <i>Journal of Central South University</i> , 2013 , 20, 2066-2071	2.1	4
46	Raman, FTIR, photoacoustic-infrared, and inelastic neutron scattering spectra of ternary metal hydride salts A ₂ MH ₅ , (A = Ca, Sr, Eu; M = Ir, Rh) and their deuterides. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 2490-6	2.8	4
45	Photoresponsive Covalent Organic Frameworks with Diarylethene Switch for Tunable Singlet Oxygen Generation. <i>Chemistry of Materials</i> ,	9.6	4
44	Polymorphism of Calcium Decahydrido--decaborate and Characterization of Its Hydrates. <i>Inorganic Chemistry</i> , 2021 , 60, 10943-10957	5.1	4
43	Textured LiFePO ₄ Bulk with Enhanced Electrical Conductivity. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 3214-3216	3.8	4
42	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
41	Neutron radiation on tin anodes of lithium-ion batteries. <i>Radiation Effects and Defects in Solids</i> , 2018 , 173, 1068-1074	0.9	4
40	Developing Ideal Metalorganic Hydrides for Hydrogen Storage: From Theoretical Prediction to Rational Fabrication 2021 , 3, 1417-1425		4
39	Flexible Electrodes: Roll-to-Roll Production of Transparent Silver-Nanofiber-Network Electrodes for Flexible Electrochromic Smart Windows (Adv. Mater. 41/2017). <i>Advanced Materials</i> , 2017 , 29,	24	3
38	Targeted Heating of Enzyme Systems Based on Photothermal Materials. <i>ChemBioChem</i> , 2019 , 20, 2467-2473	3.8	3
37	Omnidirectional SiO ₂ AR Coatings. <i>Coatings</i> , 2018 , 8, 210	2.9	3

36	Low-Temperature Rotational Tunneling of Tetrahydroborate Anions in Lithium Benzimidazolate-Borohydride Li ₂ (blm)BH ₄ . <i>Journal of Physical Chemistry C</i> , 2019 , 123, 20789-20799	3.8	3
35	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
34	Copper-substituted iron telluride: A phase diagram. <i>Physical Review B</i> , 2015 , 91,	3.3	3
33	Structural and reorientational dynamics of tetrahydroborate (BH) and tetrahydrofuran (THF) in a Mg(BH) ₃ THF adduct: neutron-scattering characterization. <i>Physical Chemistry Chemical Physics</i> , 2019 , 22, 368-378	3.6	3
32	Replacement reaction-assisted synthesis of silver nanoparticles by jet for conductive ink. <i>Nanotechnology</i> , 2020 , 31, 115301	3.4	3
31	Quantum-confined blue photoemission in strain-engineered few-atomic-layer 2D germanium. <i>Nano Energy</i> , 2021 , 83, 105790	17.1	3
30	Mechanical characteristics of mine tailings and seismic responds of tailing reservoir. <i>Japanese Geotechnical Society Special Publication</i> , 2016 , 2, 2633-2637	0.2	3
29	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
28	Draw-spun, photonicallly 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
27	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
26	Large-area, transferable sub-10 nm polymer membranes at the air/water interface. <i>Nano Research</i> , 2018 , 11, 3833-3843	10	2
25	Effect of electrode material on electro-osmotic consolidation of bentonite. <i>Japanese Geotechnical Society Special Publication</i> , 2016 , 2, 2027-2032	0.2	2
24	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
23	One-dimensional electrospun ceramic nanomaterials and their sensing applications. <i>Journal of the American Ceramic Society</i> ,	3.8	2
22	Ten-Hour Stable Noninvasive Brain-Computer Interface Realized by Semidry Hydrogel-Based Electrodes.. <i>Research</i> , 2022 , 2022, 9830457	7.8	2
21	Large nonlinear optical effect in tungsten bronze structures via Li/Na cross-substitutions. <i>Chemical Communications</i> , 2020 , 56, 8384-8387	5.8	1
20	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
19	Biodegradable Batteries: A Fully Biodegradable Battery for Self-Powered Transient Implants (Small 28/2018). <i>Small</i> , 2018 , 14, 1870129	11	1

18	Influence of Non-Stoichiometry on the Structure and Properties of Ba(Zn _{1/3} Nb _{2/3})O ₃ Microwave Dielectrics: III. Effect of the Muffling Environment. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 060428035142002-???	3.8	1
17	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
16	Hydrogen-Bonded Metal-Nucleobase Frameworks for Efficient Separation of Xenon and Krypton.. <i>Angewandte Chemie - International Edition</i> , 2022 ,	16.4	1
15	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
14	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
13	2D Metals: 2D Metals by Repeated Size Reduction (Adv. Mater. 37/2016). <i>Advanced Materials</i> , 2016 , 28, 8169-8169	24	1
12	Rational Design of Ultrasmall Au Nanoparticles on Fe via Galvanic Replacement Under 80 °C for Efficient Methanol Oxidation Reaction Catalyst. <i>ACS Applied Energy Materials</i> , 2019 , 2, 468-476	6.1	1
11	Neutron diffraction study on hydrostatic pressure regulated magnetostructural transition and magnetocaloric effect in MnNi _{1-x} Fe _x Si _{1-y} Ge _y alloys. <i>Journal of Applied Physics</i> , 2020 , 127, 133905	2.5	1
10	Ultrafast heating to boost the electrocatalytic activity of iridium towards oxygen evolution reaction. <i>Chemical Communications</i> , 2021 , 57, 7830-7833	5.8	1
9	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
8	A garnet-electrolyte based molten Li-I ₂ battery with high performance. <i>Nano Research</i> , 2021 , 14, 3065-3072	10	1
7	Wet-milling synthesis of immobilized Pt/Ir nanoclusters as promising heterogeneous catalysts. <i>Nano Research</i> , 2022 , 15, 3065-3072	10	1
6	Innenaktivität: Ice Melting to Release Reactants in Solution Syntheses (Angew. Chem. 13/2018). <i>Angewandte Chemie</i> , 2018 , 130, 3579-3579	3.6	0
5	Direct electroplating of Ag nanowires using superionic conductors. <i>Nanoscale Horizons</i> , 2020 , 5, 89-94	10.8	0
4	Mass Production of Hierarchically Designed Engine-Intake Air Filters by Multinozzle Electroblow Spinning. <i>Nano Letters</i> ,	11.5	0
3	Oxide Semiconductors: Arc-Melting to Narrow the Bandgap of Oxide Semiconductors (Adv. Mater. 16/2015). <i>Advanced Materials</i> , 2015 , 27, 2675-2675	24	
2	Influence of Non-Stoichiometry on the Structure and Properties of Ba(Zn _{1/3} Nb _{2/3})O ₃ Microwave Dielectrics. IV. Tuning Band and the Part Size Dependence of Q _U . <i>Journal of the American Ceramic Society</i> , 2006 , 89, 060428035142007-???	3.8	
1	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	

