Stefan Kaskel

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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.

686 papers

40,134 citations

107 h-index

174 g-index

756 ext. papers

45,365 ext. citations

7.9 avg, IF

7.87 L-index

#	Paper	IF	Citations
686	KOH activation of carbon-based materials for energy storage. <i>Journal of Materials Chemistry</i> , 2012 , 22, 23710		1696
685	Flexible metal-organic frameworks. Chemical Society Reviews, 2014, 43, 6062-96	58.5	1372
684	Improved synthesis, thermal stability and catalytic properties of the metal-organic framework compound Cu3(BTC)2. <i>Microporous and Mesoporous Materials</i> , 2004 , 73, 81-88	5.3	888
683	Characterization of metal-organic frameworks by water adsorption. <i>Microporous and Mesoporous Materials</i> , 2009 , 120, 325-330	5.3	803
682	Understanding activity and selectivity of metal-nitrogen-doped carbon catalysts for electrochemical reduction of CO. <i>Nature Communications</i> , 2017 , 8, 944	17.4	604
681	MOF-derived electrocatalysts for oxygen reduction, oxygen evolution and hydrogen evolution reactions. <i>Chemical Society Reviews</i> , 2020 , 49, 1414-1448	58.5	587
680	Functional inorganic nanofillers for transparent polymers. <i>Chemical Society Reviews</i> , 2007 , 36, 1454-65	58.5	494
679	Catalytic properties of MIL-101. Chemical Communications, 2008, 4192-4	5.8	434
678	Solution infiltration of palladium into MOF-5: synthesis, physisorption and catalytic properties. Journal of Materials Chemistry, 2007 , 17, 3827		414
677	High-rate electrochemical capacitors based on ordered mesoporous silicon carbide-derived carbon. <i>ACS Nano</i> , 2010 , 4, 1337-44	16.7	408
676	Selective binding of O2 over N2 in a redox-active metal-organic framework with open iron(II) coordination sites. <i>Journal of the American Chemical Society</i> , 2011 , 133, 14814-22	16.4	404
675	Direct prediction of the desalination performance of porous carbon electrodes for capacitive deionization. <i>Energy and Environmental Science</i> , 2013 , 6, 3700	35.4	384
674	A pressure-amplifying framework material with negative gas adsorption transitions. <i>Nature</i> , 2016 , 532, 348-52	50.4	380
673	Rattle-type Fe(3)O(4)@SiO(2) hollow mesoporous spheres as carriers for drug delivery. <i>Small</i> , 2010 , 6, 471-8	11	339
672	Graphene Quantum Dots-Capped Magnetic Mesoporous Silica Nanoparticles as a Multifunctional Platform for Controlled Drug Delivery, Magnetic Hyperthermia, and Photothermal Therapy. <i>Small</i> , 2017 , 13, 1602225	11	311
671	A mesoporous metal-organic framework. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 9954-7	16.4	298
670	Nanosized BiOX (X = Cl, Br, I) Particles Synthesized in Reverse Microemulsions. <i>Chemistry of Materials</i> , 2007 , 19, 366-373	9.6	293

(2013-2013)

(669	Sulfur-infiltrated micro- and mesoporous silicon carbide-derived carbon cathode for high-performance lithium sulfur batteries. <i>Advanced Materials</i> , 2013 , 25, 4573-9	24	284	
(668	ZnO Hard Templating for Synthesis of Hierarchical Porous Carbons with Tailored Porosity and High Performance in Lithium-Sulfur Battery. <i>Advanced Functional Materials</i> , 2015 , 25, 287-297	15.6	280	
(667	Aromatic porous-honeycomb electrodes for a sodium-organic energy storage device. <i>Nature Communications</i> , 2013 , 4, 1485	17.4	274	
(666	Carbon Materials for Lithium Sulfur Batteries-Ten Critical Questions. <i>Chemistry - A European Journal</i> , 2016 , 22, 7324-51	4.8	274	
(665	Comprehensive study of carbon dioxide adsorption in the metal®rganic frameworks M2(dobdc) (M = Mg, Mn, Fe, Co, Ni, Cu, Zn). <i>Chemical Science</i> , 2014 , 5, 4569-4581	9.4	267	
(664	Hierarchical micro- and mesoporous carbide-derived carbon as a high-performance electrode material in supercapacitors. <i>Small</i> , 2011 , 7, 1108-17	11	263	
(663	Improved Hydrogen Storage Properties of Ti-Doped Sodium Alanate Using Titanium Nanoparticles as Doping Agents. <i>Advanced Materials</i> , 2003 , 15, 1012-1015	24	261	
(662	High capacity vertical aligned carbon nanotube/sulfur composite cathodes for lithium-sulfur batteries. <i>Chemical Communications</i> , 2012 , 48, 4097-9	5.8	257	
(661	Neutron powder diffraction study of D2 sorption in Cu3(1,3,5-benzenetricarboxylate)2. <i>Journal of the American Chemical Society</i> , 2006 , 128, 15578-9	16.4	252	
(660	New highly porous aluminium based metal-organic frameworks: Al(OH)(ndc) (ndc = 2,6-naphthalene dicarboxylate) and Al(OH)(bpdc) (bpdc = 4,4?-biphenyl dicarboxylate). <i>Microporous and Mesoporous Materials</i> , 2009 , 122, 93-98	5.3	245	
(659	Reduced polysulfide shuttle in lithiumBulfur batteries using Nafion-based separators. <i>Journal of Power Sources</i> , 2014 , 251, 417-422	8.9	237	
(658	Tailoring porosity in carbon materials for supercapacitor applications. <i>Materials Horizons</i> , 2014 , 1, 157-1	68 4.4	235	
(657	Capture of nerve agents and mustard gas analogues by hydrophobic robust MOF-5 type metal-organic frameworks. <i>Journal of the American Chemical Society</i> , 2011 , 133, 11888-91	16.4	235	
(656	An Efficient Route to Rattle-Type Fe3O4@SiO2 Hollow Mesoporous Spheres Using Colloidal Carbon Spheres Templates. <i>Chemistry of Materials</i> , 2009 , 21, 2547-2553	9.6	231	
(655	In-Situ Raman Investigation of Polysulfide Formation in Li-S Cells. <i>Journal of the Electrochemical Society</i> , 2013 , 160, A1205-A1214	3.9	229	
(654	Hydrogels and aerogels from noble metal nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 9731-4	16.4	223	
(653	Negative thermal expansion in the metal-organic framework material Cu3(1,3,5-benzenetricarboxylate)2. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 8929-32	16.4	214	
(652	Bimetallic aerogels: high-performance electrocatalysts for the oxygen reduction reaction. Angewandte Chemie - International Edition, 2013, 52, 9849-52	16.4	211	

651	Metal-organic framework (MOF) aerogels with high micro- and macroporosity. <i>Chemical Communications</i> , 2009 , 6056-8	5.8	208
650	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
649	Folate-Conjugated Fe3O4@SiO2 Hollow Mesoporous Spheres for Targeted Anticancer Drug Delivery. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 16382-16388	3.8	206
648	Zr- and Hf-Based Metal©rganic Frameworks: Tracking Down the Polymorphism. <i>Crystal Growth and Design</i> , 2013 , 13, 1231-1237	3.5	205
647	Highly hydrophobic isoreticular porous metal-organic frameworks for the capture of harmful volatile organic compounds. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 8290-4	16.4	205
646	Proliferation, differentiation and gene expression of osteoblasts in boron-containing associated with dexamethasone deliver from mesoporous bioactive glass scaffolds. <i>Biomaterials</i> , 2011 , 32, 7068-7	8 ^{15.6}	205
645	High pressure methane adsorption in the metal-organic frameworks Cu3(btc)2, Zn2(bdc)2dabco, and Cr3F(H2O)2O(bdc)3. <i>Microporous and Mesoporous Materials</i> , 2008 , 112, 108-115	5.3	192
644	Element-organic frameworks with high permanent porosity. Chemical Communications, 2008, 2462-4	5.8	190
643	Fungi-based porous carbons for CO2 adsorption and separation. <i>Journal of Materials Chemistry</i> , 2012 , 22, 13911		177
642	Balancing Mechanical Stability and Ultrahigh Porosity in Crystalline Framework Materials. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 13780-13783	16.4	176
641	A highly porous metal-organic framework, constructed from a cuboctahedral super-molecular building block, with exceptionally high methane uptake. <i>Chemical Communications</i> , 2012 , 48, 10841-3	5.8	170
640	Crystallographic insights into (CH3NH3)3(Bi2I9): a new lead-free hybrid organic-inorganic material as a potential absorber for photovoltaics. <i>Chemical Communications</i> , 2016 , 52, 3058-60	5.8	167
639	Adsorption and Detection of Hazardous Trace Gases by Metal-Organic Frameworks. <i>Advanced Materials</i> , 2018 , 30, e1704679	24	167
638	Highly porous nitrogen-doped polyimine-based carbons with adjustable microstructures for CO2 capture. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 10951	13	167
637	Synergistic electroreduction of carbon dioxide to carbon monoxide on bimetallic layered conjugated metal-organic frameworks. <i>Nature Communications</i> , 2020 , 11, 1409	17.4	166
636	Improved Hydrogen Storage in the Metal-Organic Framework Cu3(BTC)2. <i>Advanced Engineering Materials</i> , 2006 , 8, 293-296	3.5	166
635	In Situ Formation of Protective Coatings on Sulfur Cathodes in Lithium Batteries with LiFSI-Based Organic Electrolytes. <i>Advanced Energy Materials</i> , 2015 , 5, 1401792	21.8	165
634	Controlling Dendrite Growth in Solid-State Electrolytes. <i>ACS Energy Letters</i> , 2020 , 5, 833-843	20.1	165

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633	Tailoring of network dimensionality and porosity adjustment in Zr- and Hf-based MOFs. <i>CrystEngComm</i> , 2013 , 15, 9572	3.3	162
632	A Phthalocyanine-Based Layered Two-Dimensional Conjugated Metal-Organic Framework as a Highly Efficient Electrocatalyst for the Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 10677-10682	16.4	160
631	Nickel cobalt oxide hollow nanosponges as advanced electrocatalysts for the oxygen evolution reaction. <i>Chemical Communications</i> , 2015 , 51, 7851-4	5.8	158
630	Elucidating Negative Thermal Expansion in MOF-5. Journal of Physical Chemistry C, 2010, 114, 16181-16	18.6	157
629	Challenges and Key Parameters of Lithium-Sulfur Batteries on Pouch Cell Level. <i>Joule</i> , 2020 , 4, 539-554	27.8	156
628	Zr(IV) and Hf(IV) based metal-organic frameworks with reo-topology. <i>Chemical Communications</i> , 2012 , 48, 8407-9	5.8	156
627	Carbide-derived carbon aerogels with tunable pore structure as versatile electrode material in high power supercapacitors. <i>Carbon</i> , 2017 , 113, 283-291	10.4	155
626	Stretchable and semitransparent conductive hybrid hydrogels for flexible supercapacitors. <i>ACS Nano</i> , 2014 , 8, 7138-46	16.7	154
625	Preparation, characterization and in vitro bioactivity of mesoporous bioactive glasses (MBGs) scaffolds for bone tissue engineering. <i>Microporous and Mesoporous Materials</i> , 2008 , 112, 494-503	5.3	151
624	An energy storage principle using bipolar porous polymeric frameworks. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 7850-4	16.4	150
623	High-defect hydrophilic carbon cuboids anchored with Co/CoO nanoparticles as highly efficient and ultra-stable lithium-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 10166-10173	13	149
622	High-performance electrocatalysis on palladium aerogels. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 5743-7	16.4	149
621	Carbon-Based Anodes for Lithium Sulfur Full Cells with High Cycle Stability. <i>Advanced Functional Materials</i> , 2014 , 24, 1284-1289	15.6	148
620	Toward a molecular design of porous carbon materials. <i>Materials Today</i> , 2017 , 20, 592-610	21.8	146
619	Application of a chiral metal-organic framework in enantioselective separation. <i>Chemical Communications</i> , 2011 , 47, 12089-91	5.8	145
618	Imine-linked polymer-derived nitrogen-doped microporous carbons with excellent CO2 capture properties. <i>ACS Applied Materials & amp; Interfaces</i> , 2013 , 5, 3160-7	9.5	144
617	A highly porous metal-organic framework with open nickel sites. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 8489-92	16.4	143
616	Immobilization of Trametes versicolor Laccase on Magnetically Separable Mesoporous Silica Spheres. <i>Chemistry of Materials</i> , 2007 , 19, 6408-6413	9.6	141

615	Fine tuning of the metalorganic framework Cu3(BTC)2 HKUST-1 crystal size in the 100 nm to 5 micron range. <i>Journal of Materials Chemistry</i> , 2012 , 22, 13742		139
614	Topochemical conversion of an imine- into a thiazole-linked covalent organic framework enabling realstructure analysis. <i>Nature Communications</i> , 2018 , 9, 2600	17.4	138
613	High-Surface-Area Nanoporous Boron Carbon Nitrides for Hydrogen Storage. <i>Advanced Functional Materials</i> , 2010 , 20, 1827-1833	15.6	138
612	Development and costs calculation of lithiumBulfur cells with high sulfur load and binder free electrodes. <i>Journal of Power Sources</i> , 2013 , 224, 260-268	8.9	134
611	Synthesis and Characterization of Transparent Luminescent ZnS:Mn/PMMA Nanocomposites. <i>Chemistry of Materials</i> , 2006 , 18, 1068-1072	9.6	134
610	Preparation of palladium supported on MOF-5 and its use as hydrogenation catalyst. <i>Catalysis Communications</i> , 2008 , 9, 1286-1290	3.2	133
609	Comparison of the in vitro bioactivity and drug release property of mesoporous bioactive glasses (MBGs) and bioactive glasses (BGs) scaffolds. <i>Microporous and Mesoporous Materials</i> , 2009 , 118, 176-182	₂ 5·3	131
608	A new metal-organic framework with ultra-high surface area. <i>Chemical Communications</i> , 2014 , 50, 3450-	·2 5.8	130
607	A cubic ordered, mesoporous carbide-derived carbon for gas and energy storage applications. <i>Carbon</i> , 2010 , 48, 3987-3992	10.4	130
606	Chiral Metal-Organic Frameworks and Their Application in Asymmetric Catalysis and Stereoselective Separation. <i>Chemie-Ingenieur-Technik</i> , 2011 , 83, 90-103	0.8	128
605	Gold Aerogels: Three-Dimensional Assembly of Nanoparticles and Their Use as Electrocatalytic Interfaces. <i>ACS Nano</i> , 2016 , 10, 2559-67	16.7	125
604	Coke location in microporous and hierarchical ZSM-5 and the impact on the MTH reaction. <i>Journal of Catalysis</i> , 2013 , 307, 238-245	7.3	124
603	Variation in structure and Li+-ion migration in argyrodite-type Li6PS5X (X = Cl, Br, I) solid electrolytes. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 1807-1813	2.6	124
602	Synthesis and properties of the metal-organic framework Mo3(BTC)2 (TUDMOF-1). <i>Journal of Materials Chemistry</i> , 2006 , 16, 2245		123
601	LithiumBulfur batteries: Influence of C-rate, amount of electrolyte and sulfur loading on cycle performance. <i>Journal of Power Sources</i> , 2014 , 268, 82-87	8.9	122
600	Carbide-derived carbon monoliths with hierarchical pore architectures. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 7577-80	16.4	120
599	In situ synthesis of an imidazolate-4-amide-5-imidate ligand and formation of a microporous zinc-organic framework with H2- and CO2-storage ability. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 1258-62	16.4	120
598	Proline Functionalized UiO-67 and UiO-68 Type Metal@rganic Frameworks Showing Reversed Diastereoselectivity in Aldol Addition Reactions. <i>Chemistry of Materials</i> , 2016 , 28, 2573-2580	9.6	119

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597	Shuttle suppression in room temperature sodium-sulfur batteries using ion selective polymer membranes. <i>Chemical Communications</i> , 2014 , 50, 3208-10	5.8	119
596	High capacity micro-mesoporous carbon ulfur nanocomposite cathodes with enhanced cycling stability prepared by a solvent-free procedure. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 9225	13	119
595	Micro- and Mesoporous Carbide-Derived CarbonBelenium Cathodes for High-Performance Lithium Selenium Batteries. <i>Advanced Energy Materials</i> , 2015 , 5, 1400981	21.8	118
594	Kinetically controlled synthesis of PdNi bimetallic porous nanostructures with enhanced electrocatalytic activity. <i>Small</i> , 2015 , 11, 1430-4	11	118
593	Heating and separation using nanomagnet-functionalized metal-organic frameworks. <i>Chemical Communications</i> , 2011 , 47, 3075-7	5.8	118
592	A family of chiral metal-organic frameworks. <i>Chemistry - A European Journal</i> , 2011 , 17, 2099-106	4.8	118
591	Monitoring adsorption-induced switching by (129)Xe NMR spectroscopy in a new metal-organic framework Ni(2)(2,6-ndc)(2)(dabco). <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 11778-84	3.6	118
590	Solid-State NMR Spectroscopy of Metal D rganic Framework Compounds (MOFs). <i>Materials</i> , 2012 , 5, 2537-2572	3.5	117
589	Methane storage mechanism in the metal-organic framework Cu3(btc)2: An in situ neutron diffraction study. <i>Microporous and Mesoporous Materials</i> , 2010 , 136, 50-58	5.3	117
588	Multimetallic Aerogels by Template-Free Self-Assembly of Au, Ag, Pt, and Pd Nanoparticles. <i>Chemistry of Materials</i> , 2014 , 26, 1074-1083	9.6	116
587	Thermal Exfoliation of Layered Metal-Organic Frameworks into Ultrahydrophilic Graphene Stacks and Their Applications in Li-S Batteries. <i>Advanced Materials</i> , 2017 , 29, 1702829	24	115
586	Structural flexibility and intrinsic dynamics in the M2(2,6-ndc)2(dabco) (M = Ni, Cu, Co, Zn) metalBrganic frameworks. <i>Journal of Materials Chemistry</i> , 2012 , 22, 10303		112
585	Ordered mesoporous carbide derived carbons for high pressure gas storage. <i>Carbon</i> , 2010 , 48, 1707-17	17 0.4	112
584	Carbon templated SAPO-34 with improved adsorption kinetics and catalytic performance in the MTO-reaction. <i>Microporous and Mesoporous Materials</i> , 2012 , 164, 214-221	5.3	110
583	Twin polymerization at spherical hard templates: an approach to size-adjustable carbon hollow spheres with micro- or mesoporous shells. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 6088-91	16.4	110
582	Ultrahigh porosity in mesoporous MOFs: promises and limitations. <i>Chemical Communications</i> , 2014 , 50, 7089-98	5.8	109
581	Route to a family of robust, non-interpenetrated metal-organic frameworks with pto-like topology. <i>Chemistry - A European Journal</i> , 2011 , 17, 13007-16	4.8	109
580	A cubic coordination framework constructed from benzobistriazolate ligands and zinc ions having selective gas sorption properties. <i>Dalton Transactions</i> , 2009 , 6487-95	4.3	109

579	Porphyrin-Based Metal-Organic Frameworks for Biomedical Applications. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 5010-5035	16.4	106
578	Controlling the growth of palladium aerogels with high-performance toward bioelectrocatalytic oxidation of glucose. <i>Journal of the American Chemical Society</i> , 2014 , 136, 2727-30	16.4	105
577	New element organic frameworks viaSuzuki coupling with high adsorption capacity for hydrophobic molecules. <i>Soft Matter</i> , 2010 , 6, 3918	3.6	103
576	Solvent-Induced Pore-Size Adjustment in the Metal-Organic Framework [Mg3(ndc)3(dmf)4] (ndc = naphthalenedicarboxylate). <i>European Journal of Inorganic Chemistry</i> , 2006 , 2006, 4564-4569	2.3	102
575	Lithium Bulphur batteries Ibinder free carbon nanotubes electrode examined with various electrolytes. <i>Journal of Power Sources</i> , 2012 , 213, 239-248	8.9	100
574	Metal-Organic Framework/Graphene Quantum Dot Nanoparticles Used for Synergistic Chemo- and Photothermal Therapy. <i>ACS Omega</i> , 2017 , 2, 1249-1258	3.9	99
573	3D assembly of semiconductor and metal nanocrystals: hybrid CdTe/Au structures with controlled content. <i>Journal of the American Chemical Society</i> , 2011 , 133, 13413-20	16.4	99
572	High-pressure in situ 129Xe NMR spectroscopy and computer simulations of breathing transitions in the metal-organic framework Ni2(2,6-ndc)2(dabco) (DUT-8(Ni)). <i>Journal of the American Chemical Society</i> , 2011 , 133, 8681-90	16.4	99
571	Unusual ultra-hydrophilic, porous carbon cuboids for atmospheric-water capture. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 1941-5	16.4	97
57°	Polymerization of w/o microemulsions for the preparation of transparent SiO2/PMMA nanocomposites. <i>Langmuir</i> , 2005 , 21, 6048-53	4	97
569	MOF Processing by Electrospinning for Functional Textiles. <i>Advanced Engineering Materials</i> , 2011 , 13, 356-360	3.5	96
568	Neutron Diffraction and Neutron Vibrational Spectroscopy Studies of Hydrogen Adsorption in the Prussian Blue Analogue Cu3[Co(CN)6]2. <i>Chemistry of Materials</i> , 2006 , 18, 3221-3224	9.6	95
567	Improved catalytic performance of hierarchical ZSM-5 synthesized by desilication with surfactants. <i>Microporous and Mesoporous Materials</i> , 2013 , 165, 148-157	5.3	94
566	Electronic Devices Using Open Framework Materials. <i>Chemical Reviews</i> , 2020 , 120, 8581-8640	68.1	94
565	Metal-Organic Frameworks in Monolithic Structures. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 2476-2479	3.8	93
564	Ordered Mesoporous Carbide Derived Carbons: Novel Materials for Catalysis and Adsorption. Journal of Physical Chemistry C, 2009 , 113, 7755-7761	3.8	93
563	Tetrazine functionalized zirconium MOF as an optical sensor for oxidizing gases. <i>Chemical Communications</i> , 2015 , 51, 2280-2	5.8	91
562	Expansion-tolerant architectures for stable cycling of ultrahigh-loading sulfur cathodes in lithium-sulfur batteries. <i>Science Advances</i> , 2020 , 6, eaay2757	14.3	91

(2009-2003)

561	Synthesis and characterisation of titanium nitride based nanoparticles. <i>Journal of Materials Chemistry</i> , 2003 , 13, 1496		90	
560	Hierarchical Carbide-Derived Carbon Foams with Advanced Mesostructure as a Versatile Electrochemical Energy-Storage Material. <i>Advanced Energy Materials</i> , 2014 , 4, 1300645	21.8	90	
559	A new route for the preparation of mesoporous carbon materials with high performance in lithium-sulphur battery cathodes. <i>Chemical Communications</i> , 2013 , 49, 5832-4	5.8	88	
558	MOF@PolyHIPEs. Advanced Engineering Materials, 2008, 10, 1151-1155	3.5	88	
557	Biological Chitin-MOF Composites with Hierarchical Pore Systems for Air-Filtration Applications. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 12588-91	16.4	87	
556	Structural transformation and high pressure methane adsorption of Co2(1,4-bdc)2dabco. Microporous and Mesoporous Materials, 2008, 116, 653-657	5.3	87	
555	Alloy Anodes for Rechargeable Alkali-Metal Batteries: Progress and Challenge 2019 , 1, 217-229		85	
554	Magnetic SBA-15/poly(N-isopropylacrylamide) composite: Preparation, characterization and temperature-responsive drug release property. <i>Microporous and Mesoporous Materials</i> , 2009 , 123, 107-	172	85	
553	Chemically activated fungi-based porous carbons for hydrogen storage. <i>Carbon</i> , 2014 , 75, 372-380	10.4	83	
552	Catalytic properties of high surface area titanium nitride materials. <i>Journal of Molecular Catalysis A</i> , 2004 , 208, 291-298		83	
551	N-Heterocyclic carbene containing element organic frameworks as heterogeneous organocatalysts. <i>Chemical Communications</i> , 2011 , 47, 4814-6	5.8	82	
550	Dye encapsulation inside a new mesoporous metal-organic framework for multifunctional solvatochromic-response function. <i>Chemistry - A European Journal</i> , 2012 , 18, 13299-303	4.8	81	
549	Binaphthalene-Based, Soluble Polyimides: The Limits of Intrinsic Microporosity. <i>Macromolecules</i> , 2009 , 42, 8017-8020	5.5	81	
548	High surface area carbide-derived carbon fibers produced by electrospinning of polycarbosilane precursors. <i>Carbon</i> , 2010 , 48, 403-407	10.4	81	
547	Transparent and luminescent YVO4: Eu/polymer nanocomposites prepared by in situ polymerization. <i>Journal of Materials Chemistry</i> , 2007 , 17, 758-765		80	
546	Hard Carbon Anodes and Novel Electrolytes for Long-Cycle-Life Room Temperature Sodium-Sulfur Full Cell Batteries. <i>Advanced Energy Materials</i> , 2016 , 6, 1502185	21.8	80	
545	Interaction of electrolyte molecules with carbon materials of well-defined porosity: characterization by solid-state NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 15177-	-84 ⁶	76	
544	Crystal Growth of the Metal Drganic Framework Cu3(BTC)2 on the Surface of Pulp Fibers. Advanced Engineering Materials, 2009, 11, 93-95	3.5	76	

543	Nonlinear Optical Switching in Regioregular Porphyrin Covalent Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 6896-6900	16.4	75
542	High surface area polyHIPEs with hierarchical pore system. <i>Soft Matter</i> , 2009 , 5, 1055	3.6	75
541	Studies on preventing Li dendrite formation in Liß batteries by using pre-lithiated Si microwire anodes. <i>Journal of Power Sources</i> , 2014 , 248, 1058-1066	8.9	74
540	Nanocasting hierarchical carbide-derived carbons in nanostructured opal assemblies for high-performance cathodes in lithium-sulfur batteries. <i>ACS Nano</i> , 2014 , 8, 12130-40	16.7	74
539	SiC/MCM-48 and SiC/SBA-15 Nanocomposite Materials. <i>Chemistry of Materials</i> , 2004 , 16, 2869-2880	9.6	74
538	A lithiumBulfur full cell with ultralong cycle life: influence of cathode structure and polysulfide additive. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 3808-3820	13	73
537	Hydrogen adsorption in the metal-organic frameworks Fe2(dobdc) and Fe2(O2)(dobdc). <i>Dalton Transactions</i> , 2012 , 41, 4180-7	4.3	73
536	Continuous microreactor synthesis of ZIF-8 with high spacelime-yield and tunable particle size. <i>Chemical Engineering Journal</i> , 2016 , 283, 971-977	14.7	72
535	Ultrastable Surface-Dominated Pseudocapacitive Potassium Storage Enabled by Edge-Enriched N-Doped Porous Carbon Nanosheets. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 19460-1946	7 ^{16.4}	72
534	Preparation and application of cellular and nanoporous carbides. <i>Chemical Society Reviews</i> , 2012 , 41, 5053-67	58.5	72
533	The effect of crystallite size on pressure amplification in switchable porous solids. <i>Nature Communications</i> , 2018 , 9, 1573	17.4	71
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191 190 189	Reverse micelle-mediated synthesis of zirconia with enhanced surface area using alcothermal treatment. <i>Journal of Materials Chemistry</i> , 2006 , 16, 391-394 Crystal growth in supercritical ammonia using high surface area silicon nitride feedstock. <i>Journal of Crystal Growth</i> , 2004 , 261, 99-104 29-P-17-Zirconia nanoparticles in ordered mesoporous material SBA-15. <i>Studies in Surface Science and Catalysis</i> , 2001 , 315	1.6	9 9
191 190 189	Reverse micelle-mediated synthesis of zirconia with enhanced surface area using alcothermal treatment. <i>Journal of Materials Chemistry</i> , 2006 , 16, 391-394 Crystal growth in supercritical ammonia using high surface area silicon nitride feedstock. <i>Journal of Crystal Growth</i> , 2004 , 261, 99-104 29-P-17-Zirconia nanoparticles in ordered mesoporous material SBA-15. <i>Studies in Surface Science and Catalysis</i> , 2001 , 315 On the origin of mesopore collapse in functionalized porous carbons. <i>Carbon</i> , 2019 , 149, 743-749 Speeding Up Chemisorption Analysis by Direct IR-Heat-Release Measurements (Infrasorp Technology): A Screening Alternative to Breakthrough Measurements. <i>Industrial & Amp; Engineering</i>	1.6	9 9 9 8
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