

Stefan Kaskel

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.

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	Zirconium-Based Metal-Organic Framework Mixed-Matrix Membranes as Analytical Devices for the Trace Analysis of Complex Cosmetic Samples in the Assessment of Their Personal Care Product Content.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	2
685	Influence of external stack pressure on the performance of Li-S pouch cell. <i>JPhys Energy</i> , 2022 , 4, 014004	4.9	1
684	Operando Radiography and Multimodal Analysis of Lithium-Sulfur Pouch Cells Electrolyte Dependent Morphology Evolution at the Cathode. <i>Advanced Energy Materials</i> , 2022 , 12, 2103432	21.8	3
683	Identification of Soluble Degradation Products in Lithium-Sulfur and Lithium-Metal Sulfide Batteries. <i>Separations</i> , 2022 , 9, 57	3.1	
682	Mixed-Metal Ni ²⁺ /Mn ²⁺ Paddle Wheels in the Metal-Organic Framework DUT-8(Ni _{1-x} Mn _x) as Electron Paramagnetic Resonance Probes for Monitoring the Structural Phase Transition. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 625-633	3.8	1
681	Cooperative light-induced breathing of soft porous crystals via azobenzene buckling.. <i>Nature Communications</i> , 2022 , 13, 1951	17.4	0
680	Isotope-selective pore opening in a flexible metal-organic framework.. <i>Science Advances</i> , 2022 , 8, eabn7035	14.5	4
679	Atomic Sn-enabled high-utilization, large-capacity, and long-life Na anode.. <i>Science Advances</i> , 2022 , 8, eabm7489	14.3	4
678	Metal-Organic Frameworks: Synthesis, Structures, and Applications. <i>Small Structures</i> , 2022 , 3, 2200072	8.7	1
677	Mechanism understanding for stripping electrochemistry of Li metal anode. <i>SusMat</i> , 2021 , 1, 506-536		13
676	Chemically Stable Carbazole-Based Imine Covalent Organic Frameworks with Acidochromic Response for Humidity Control Applications. <i>Journal of the American Chemical Society</i> , 2021 , 143, 18368-18373	16.4	8
675	Liquid lithium metal processing into ultrathin metal anodes for solid state batteries. <i>Chemical Engineering Journal Advances</i> , 2021 , 9, 100218	3.6	3
674	Integration of Fluorescent Functionality into Pressure-Amplifying Metal-Organic Frameworks. <i>Chemistry of Materials</i> , 2021 , 33, 7964-7971	9.6	0
673	Sulfur Transfer Melt Infiltration for High-Power Carbon Nanotube Sheets in Lithium-Sulfur Pouch Cells. <i>Batteries and Supercaps</i> , 2021 , 4, 989-1002	5.6	5
672	Charting the Complete Thermodynamic Landscape of Gas Adsorption for a Responsive Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2021 , 143, 4143-4147	16.4	11
671	A Universal Standard Archive File for Adsorption Data. <i>Langmuir</i> , 2021 , 37, 4222-4226	4	10
670	Preparation and Application of ZIF-8 Thin Layers. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 4041	2.6	3

669	From Macro- to Nanoscale: Finite Size Effects on Metal-Organic Framework Switchability. <i>Trends in Chemistry</i> , 2021 , 3, 291-304	14.8	14
668	Massive Pressure Amplification by Stimulated Contraction of Mesoporous Frameworks**. <i>Angewandte Chemie</i> , 2021 , 133, 11841-11845	3.6	0
667	Unraveling the Guest-Induced Switchability in the Metal-Organic Framework DUT-13(Zn)*. <i>Chemistry - A European Journal</i> , 2021 , 27, 9708-9715	4.8	2
666	Adaptive response of a metal-organic framework through reversible disorder-disorder transitions. <i>Nature Chemistry</i> , 2021 , 13, 568-574	17.6	18
665	Massive Pressure Amplification by Stimulated Contraction of Mesoporous Frameworks*. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 11735-11739	16.4	7
664	The role of diffusion processes in the self-discharge of electrochemical capacitors. <i>Energy Storage Materials</i> , 2021 , 37, 501-508	19.4	7
663	Nanostructured SiO ₂ Composites As High-Capacity Anode Material For All-Solid-State Lithium-Ion Batteries**. <i>Batteries and Supercaps</i> , 2021 , 4, 1323-1334	5.6	3
662	Impact of Crystal Size and Morphology on Switchability Characteristics in Pillared-Layer Metal-Organic Framework DUT-8(Ni). <i>Frontiers in Chemistry</i> , 2021 , 9, 674566	5	7
661	The Role of Metal-Organic Frameworks in Moderating Platinum-Based Ethanol Electrooxidation Catalysts. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 14263-14274	3.8	0
660	Combining Techniques (XRD, IR, and C NMR) and Gas Adsorption Measurements Reveals CO-Induced Structural Transitions and High CO/CH ₄ Selectivity for a Flexible Metal-Organic Framework JUK-8. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 28503-28513	9.5	6
659	Increasing the Stability of LiMn ₂ O ₄ Against Harsh Conditions During Lithium Recovery from Real Brine Solutions. <i>Energy Technology</i> , 2021 , 9, 2100145	3.5	1
658	Perspective on Carbon Anode Materials for K ⁺ Storage: Balancing the Intercalation-Controlled and Surface-Driven Behavior. <i>Advanced Energy Materials</i> , 2021 , 11, 2100856	21.8	24
657	Ultra-hydrophilic porous carbons and their supercapacitor performance using pure water as electrolyte. <i>Carbon</i> , 2021 , 178, 540-551	10.4	10
656	Selective Permeable Lithium-Ion Channels on Lithium Metal for Practical Lithium-Sulfur Pouch Cells. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 18031-18036	16.4	21
655	The role of temperature and adsorbate on negative gas adsorption transitions of the mesoporous metal-organic framework DUT-49. <i>Faraday Discussions</i> , 2021 , 225, 168-183	3.6	13
654	Function from configurational degeneracy in disordered framework materials. <i>Faraday Discussions</i> , 2021 , 225, 241-254	3.6	7
653	Porphyryn-basierte Metall-organische Gerüste für biomedizinische Anwendungen. <i>Angewandte Chemie</i> , 2021 , 133, 5064-5091	3.6	5
652	Porphyryn-Based Metal-Organic Frameworks for Biomedical Applications. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 5010-5035	16.4	106

651	High-Performing Li-Ion Battery with Two Cathodes in One of Sulfur and LiFePO ₄ by Strategies of Mitigation of Polysulfide Shuttling. <i>Batteries and Supercaps</i> , 2021 , 4, 359-367	5.6	1
650	Stabilizing Effect of Polysulfides on Lithium Metal Anodes in Sparingly Solvating Solvents. <i>Batteries and Supercaps</i> , 2021 , 4, 347-358	5.6	5
649	Recent Progress and Emerging Application Areas for Lithium-Sulfur Battery Technology. <i>Energy Technology</i> , 2021 , 9, 2000694	3.5	23
648	Tailoring adsorption induced switchability of a pillared layer MOF by crystal size engineering. <i>CrystEngComm</i> , 2021 , 23, 538-549	3.3	6
647	Elucidating the Structural Evolution of a Highly Porous Responsive Metal-Organic Framework (DUT-49(M)) upon Guest Desorption by Time-Resolved in Situ Powder X-ray Diffraction. <i>Crystal Growth and Design</i> , 2021 , 21, 270-276	3.5	3
646	First example of Ugi's amine as a platform for the construction of chiral coordination polymers: synthesis and properties. <i>New Journal of Chemistry</i> , 2021 , 45, 2791-2794	3.6	2
645	Rechargeable Al-ion batteries. <i>EnergyChem</i> , 2021 , 3, 100049	36.9	22
644	Green Precursors and Soft Templating for Printing Porous Carbon-Based Micro-supercapacitors. <i>Chemistry - A European Journal</i> , 2021 , 27, 1356-1363	4.8	4
643	A new zeolitic lithium aluminum imidazolate framework. <i>Dalton Transactions</i> , 2021 , 50, 7933-7937	4.3	0
642	Linker Expansion and Its Impact on Switchability in Pillared-Layer MOFs. <i>Inorganic Chemistry</i> , 2021 , 60, 1726-1737	5.1	3
641	NMR analysis of phosphoric acid distribution in porous fuel cell catalysts. <i>Chemical Communications</i> , 2021 , 57, 2547-2550	5.8	1
640	Guest size limitation in metal-organic framework crystal-glass composites. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 8386-8393	13	2
639	Metal-Organic Frameworks for Environmental Applications. <i>Engineering Materials</i> , 2021 , 1-39	0.4	
638	Natural Polymer-Based MOF Composites 2021 , 321-348		0
637	Impact of Carbon Porosity on Sulfur Conversion in Li-S Battery Cathodes in a Sparingly Polysulfide Solvating Electrolyte. <i>Batteries and Supercaps</i> , 2021 , 4, 823-833	5.6	7
636	Piezoelectric Inkjet Printing of Nanoporous Carbons for Micro-supercapacitor Devices. <i>ACS Applied Energy Materials</i> , 2021 , 4, 1560-1567	6.1	19
635	Selective Permeable Lithium-Ion Channels on Lithium Metal for Practical Lithium-Sulfur Pouch Cells. <i>Angewandte Chemie</i> , 2021 , 133, 18179-18184	3.6	4
634	Glassy Metal-Organic-Framework-Based Quasi-Solid-State Electrolyte for High-Performance Lithium-Metal Batteries. <i>Advanced Functional Materials</i> , 2021 , 31, 2104300	15.6	17

633	Promoting the sulfur redox kinetics by mixed organodiselenides in high-energy-density lithium-sulfur batteries. <i>EScience</i> , 2021 , 1, 44-44		45
632	Monitoring Dynamics, Structure, and Magnetism of Switchable Metal-Organic Frameworks via H-Detected MAS NMR. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 21778-21783	16.4	5
631	Untersuchung von Dynamik, Struktur und Magnetismus von schaltbaren Metall-organischen Gerüstverbindungen mittels ¹ H-detektierter MAS-NMR-Spektroskopie. <i>Angewandte Chemie</i> , 2021 , 133, 21946-21952	3.6	
630	Nanoporous carbon architectures for iontronics: Ion-based computing, logic circuits and biointerfacing. <i>Chemical Engineering Journal</i> , 2021 , 420, 130431	14.7	3
629	The Role of Carbon Electrodes Pore Size Distribution on the Formation of the Cathode-Electrolyte Interphase in Lithium-Sulfur Batteries. <i>Batteries and Supercaps</i> , 2021 , 4, 612-622	5.6	8
628	Tailoring the Adsorption-Induced Flexibility of a Pillared Layer Metal-Organic Framework DUT-8(Ni) by Cobalt Substitution. <i>Chemistry of Materials</i> , 2020 , 32, 5670-5681	9.6	14
627	Ultrastable Surface-Dominated Pseudocapacitive Potassium Storage Enabled by Edge-Enriched N-Doped Porous Carbon Nanosheets. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 19460-19467	16.4	72
626	Four-dimensional metal-organic frameworks. <i>Nature Communications</i> , 2020 , 11, 2690	17.4	50
625	Ultrastable Surface-Dominated Pseudocapacitive Potassium Storage Enabled by Edge-Enriched N-Doped Porous Carbon Nanosheets. <i>Angewandte Chemie</i> , 2020 , 132, 19628-19635	3.6	4
624	Facile regulation of carbon framework from the microporous to low-porous via molecular crosslinker design and enhanced Na storage. <i>Carbon</i> , 2020 , 167, 896-905	10.4	10
623	Impact of Defects and Crystal Size on Negative Gas Adsorption in DUT-49 Analyzed by Xe NMR Spectroscopy. <i>Chemistry of Materials</i> , 2020 , 32, 4641-4650	9.6	14
622	Single particle Raman spectroscopy analysis of the metal-organic framework DUT-8(Ni) switching transition under hydrostatic pressure. <i>Chemical Communications</i> , 2020 , 56, 8269-8272	5.8	3
621	Generalized Domino-Driven Synthesis of Hollow Hybrid Carbon Spheres with Ultrafine Metal Nitrides/Oxides. <i>Matter</i> , 2020 , 3, 246-260	12.7	16
620	Phthalocyanine-Based 2D Conjugated Metal-Organic Framework Nanosheets for High-Performance Micro-Supercapacitors. <i>Advanced Functional Materials</i> , 2020 , 30, 2002664	15.6	60
619	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
618	The influence of formation temperature on the solid electrolyte interphase of graphite in lithium ion batteries. <i>Journal of Energy Chemistry</i> , 2020 , 49, 335-338	12	29
617	Switchable Supercapacitors with Transistor-Like Gating Characteristics (G-Cap). <i>Advanced Functional Materials</i> , 2020 , 30, 1910439	15.6	9
616	Challenges and Key Parameters of Lithium-Sulfur Batteries on Pouch Cell Level. <i>Joule</i> , 2020 , 4, 539-554	27.8	156

615	Unveiling reductant chemistry in fabricating noble metal aerogels for superior oxygen evolution and ethanol oxidation. <i>Nature Communications</i> , 2020 , 11, 1590	17.4	55
614	In Situ Generation of Electrolyte inside Pyridine-Based Covalent Triazine Frameworks for Direct Supercapacitor Integration. <i>ChemSusChem</i> , 2020 , 13, 3192-3198	8.3	7
613	Structural Transitions of the Metal-Organic Framework DUT-49(Cu) upon Physi- and Chemisorption Studied by Electron Paramagnetic Resonance Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 5856-5862	6.4	3
612	Controlling Dendrite Growth in Solid-State Electrolytes. <i>ACS Energy Letters</i> , 2020 , 5, 833-843	20.1	165
611	Conductive ITO Interfaces for Optoelectronic Applications Based on Highly Ordered Inverse Opal Thin Films. <i>ChemNanoMat</i> , 2020 , 6, 560-566	3.5	1
610	A Mixed Ether Electrolyte for Lithium Metal Anode Protection in Working Lithium-Sulfur Batteries. <i>Energy and Environmental Materials</i> , 2020 , 3, 160-165	13	47
609	MOF-derived electrocatalysts for oxygen reduction, oxygen evolution and hydrogen evolution reactions. <i>Chemical Society Reviews</i> , 2020 , 49, 1414-1448	58.5	587
608	Tunable Flexibility and Porosity of the Metal-Organic Framework DUT-49 through Postsynthetic Metal Exchange. <i>Chemistry of Materials</i> , 2020 , 32, 889-896	9.6	28
607	3D Ni and Co redox-active metal-organic frameworks based on ferrocenyl diphosphinate and 4,4'-bipyridine ligands as efficient electrocatalysts for the hydrogen evolution reaction. <i>Dalton Transactions</i> , 2020 , 49, 2794-2802	4.3	23
606	Unraveling Structure and Dynamics in Porous Frameworks via Advanced In Situ Characterization Techniques. <i>Advanced Functional Materials</i> , 2020 , 30, 1907847	15.6	45
605	Collective Breathing in an Eightfold Interpenetrated Metal-Organic Framework: From Mechanistic Understanding towards Threshold Sensing Architectures. <i>Angewandte Chemie</i> , 2020 , 132, 4521-4527	3.6	2
604	Sodium Sulfide Cathodes Superseding Hard Carbon Pre-sodiation for the Production and Operation of Sodium-Sulfur Batteries at Room Temperature. <i>Advanced Energy Materials</i> , 2020 , 10, 1903245	21.8	25
603	The Role of Balancing Nanostructured Silicon Anodes and NMC Cathodes in Lithium-Ion Full-Cells with High Volumetric Energy Density. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 020516	3.9	27
602	Mechanistic Insights into the Role of Covalent Triazine Frameworks as Cathodes in Lithium-Sulfur Batteries. <i>Batteries and Supercaps</i> , 2020 , 3, 1069-1079	5.6	8
601	New 1D chiral Zr-MOFs based on in situ imine linker formation as catalysts for asymmetric C C coupling reactions. <i>Journal of Catalysis</i> , 2020 , 386, 106-116	7.3	12
600	Low Temperature Calorimetry Coupled with Molecular Simulations for an In-Depth Characterization of the Guest-Dependent Compliant Behavior of MOFs. <i>Chemistry of Materials</i> , 2020 , 32, 3489-3498	9.6	5
599	Parameter optimization of light outcoupling structures for high-efficiency organic light-emitting diodes. <i>Journal of Applied Physics</i> , 2020 , 128, 185501	2.5	2
598	Recent progress on the design of hollow carbon spheres to host sulfur in room-temperature sodium-sulfur batteries. <i>New Carbon Materials</i> , 2020 , 35, 630-645	4.4	7

597	The force of MOFs: the potential of switchable metal-organic frameworks as solvent stimulated actuators. <i>Chemical Communications</i> , 2020 , 56, 7411-7414	5.8	5
596	Scalable production of nitrogen-doped carbons for multilayer lithium-sulfur battery cells. <i>Carbon</i> , 2020 , 161, 190-197	10.4	28
595	Collective Breathing in an Eightfold Interpenetrated Metal-Organic Framework: From Mechanistic Understanding towards Threshold Sensing Architectures. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 4491-4497	16.4	21
594	Black BiVO ₄ : size tailored synthesis, rich oxygen vacancies, and sodium storage performance. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 1636-1645	13	40
593	Manipulation of carbon framework from the microporous to nonporous via a mechanical-assisted treatment for structure-oriented energy storage. <i>Carbon</i> , 2020 , 159, 140-148	10.4	15
592	In Situ Imine-Based Linker Formation for the Synthesis of Zirconium MOFs: A Route to CO Capture Materials and Ethylene Oligomerization Catalysts. <i>Inorganic Chemistry</i> , 2020 , 59, 350-359	5.1	11
591	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
590	Innenrücktitelbild: Ultrastable Surface-Dominated Pseudocapacitive Potassium Storage Enabled by Edge-Enriched N-Doped Porous Carbon Nanosheets (Angew. Chem. 44/2020). <i>Angewandte Chemie</i> , 2020 , 132, 19891-19891	3.6	
589	Current status and future perspectives of lithium metal batteries. <i>Journal of Power Sources</i> , 2020 , 480, 228803	8.9	37
588	Dynamic Metal-Organic Frameworks: Unraveling Structure and Dynamics in Porous Frameworks via Advanced In Situ Characterization Techniques (Adv. Funct. Mater. 41/2020). <i>Advanced Functional Materials</i> , 2020 , 30, 2070272	15.6	
587	Electronic Devices Using Open Framework Materials. <i>Chemical Reviews</i> , 2020 , 120, 8581-8640	68.1	94
586	Interlinker Hydrogen Bonds Govern CO Adsorption in a Series of Flexible 2D Diacylhydrazone/Isophthalate-Based MOFs: Influence of Metal Center, Linker Substituent, and Activation Temperature. <i>Inorganic Chemistry</i> , 2020 , 59, 10717-10726	5.1	8
585	Molecular Diffusion in a Flexible Mesoporous Metal-Organic Framework over the Course of Structural Contraction. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 9696-9701	6.4	3
584	Role of particle size and surface functionalisation on the flexibility behaviour of switchable metal-organic framework DUT-8(Ni). <i>Journal of Materials Chemistry A</i> , 2020 , 8, 22703-22711	13	4
583	Enabling High-Energy Solid-State Batteries with Stable Anode Interphase by the Use of Columnar Silicon Anodes. <i>Advanced Energy Materials</i> , 2020 , 10, 2001320	21.8	34
582	Reversible switching between positive and negative thermal expansion in a metal-organic framework DUT-49. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 20420-20428	13	7
581	Synthesis and Structure of the Silver(I) Complexes [Ag ₂ (C ₄ H ₆ O ₄ N)NO ₃][H ₂ O and Ag ₆ (C ₆ H ₆ O ₆ N) ₂ for the Formulation of Silver Inks in Nanoimprint Lithography. <i>European Journal of Inorganic Chemistry</i> , 2020 , 2020, 3167-3173	2.3	2
580	Engineering micromechanics of soft porous crystals for negative gas adsorption. <i>Chemical Science</i> , 2020 , 11, 9468-9479	9.4	16

579	2D framework materials for energy applications. <i>Chemical Science</i> , 2020 , 12, 1600-1619	9.4	24
578	Introducing a Longer versus Shorter Acylhydrazone Linker to a Metal-Organic Framework: Parallel Mechanochemical Approach, Nonisorecticular Structures, and Diverse Properties. <i>Crystal Growth and Design</i> , 2019 , 19, 7160-7169	3.5	9
577	Crystal size versus paddle wheel deformability: selective gated adsorption transitions of the switchable metal-organic frameworks DUT-8(Co) and DUT-8(Ni). <i>Journal of Materials Chemistry A</i> , 2019 , 7, 21459-21475	13	34
576	Assessing negative thermal expansion in mesoporous metal-organic frameworks by molecular simulation. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 24019-24026	13	16
575	Importance of Capacity Balancing on The Electrochemical Performance of Li[Ni _{0.8} Co _{0.1} Mn _{0.1}]O ₂ (NCM811)/Silicon Full Cells. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A3265-A3271	3.9	21
574	Rapid Screening of CO Oxidation Catalysts Using Optical Calorimetry. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 19839-19846	3.9	2
573	Conformational isomerism controls collective flexibility in metal-organic framework DUT-8(Ni). <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 674-680	3.6	27
572	Zn and Co redox active coordination polymers as efficient electrocatalysts. <i>Dalton Transactions</i> , 2019 , 48, 3601-3609	4.3	29
571	In Situ C NMR Spectroscopy Study of CO/CH ₄ Mixture Adsorption by Metal-Organic Frameworks: Does Flexibility Influence Selectivity?. <i>Langmuir</i> , 2019 , 35, 3162-3170	4	26
570	Overcoming binder limitations of sheet-type solid-state cathodes using a solvent-free dry-film approach. <i>Energy Storage Materials</i> , 2019 , 21, 390-398	19.4	56
569	Alloy Anodes for Rechargeable Alkali-Metal Batteries: Progress and Challenge 2019 , 1, 217-229		85
568	Designing room temperature sodium sulfur batteries with long cycle-life at pouch cell level. <i>Energy Storage Materials</i> , 2019 , 21, 41-49	19.4	22
567	Selective Alcohol Electrooxidation by ZIF-8 Functionalized Pt/Carbon Catalyst. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 20915-20922	9.5	7
566	A Phthalocyanine-Based Layered Two-Dimensional Conjugated Metal-Organic Framework as a Highly Efficient Electrocatalyst for the Oxygen Reduction Reaction. <i>Angewandte Chemie</i> , 2019 , 131, 10787-10792	3.6	42
565	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
564	Quantitative in situ C NMR studies of the electro-catalytic oxidation of ethanol. <i>Chemical Communications</i> , 2019 , 55, 6042-6045	5.8	11
563	Exploring the thermodynamic criteria for responsive adsorption processes. <i>Chemical Science</i> , 2019 , 10, 5011-5017	9.4	23
562	On the origin of mesopore collapse in functionalized porous carbons. <i>Carbon</i> , 2019 , 149, 743-749	10.4	8

561	Metal-Organic Frameworks. <i>Green Energy and Technology</i> , 2019 , 137-172	0.6	5
560	Insights into the water adsorption mechanism in the chemically stable zirconium-based MOF DUT-67 B prospective material for adsorption-driven heat transformations. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 12681-12690	13	26
559	A photosensor based on lead-free perovskite-like methyl-ammonium bismuth iodide. <i>Sensors and Actuators A: Physical</i> , 2019 , 291, 75-79	3.9	9
558	Nonlinear Optical Switching in Regioregular Porphyrin Covalent Organic Frameworks. <i>Angewandte Chemie</i> , 2019 , 131, 6970-6974	3.6	22
557	Ionic liquid - Electrode materials interactions studied by NMR spectroscopy, cyclic voltammetry, and impedance spectroscopy. <i>Energy Storage Materials</i> , 2019 , 19, 432-438	19.4	16
556	Efficiency of Light Outcoupling Structures in Organic Light-Emitting Diodes: 2D TiO ₂ Array as a Model System. <i>Advanced Functional Materials</i> , 2019 , 29, 1901748	15.6	15
555	Engineering pore ratio in hierarchical porous carbons towards high-rate and large-volumetric performances. <i>Microporous and Mesoporous Materials</i> , 2019 , 282, 205-210	5.3	11
554	Nonlinear Optical Switching in Regioregular Porphyrin Covalent Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 6896-6900	16.4	75
553	Synthesis and Characterization of Cu-Ni Mixed Metal Paddlewheels Occurring in the Metal-Organic Framework DUT-8(NiCu) for Monitoring Open-Closed-Pore Phase Transitions by X-Band Continuous Wave Electron Paramagnetic Resonance Spectroscopy. <i>Inorganic Chemistry</i> , 2019 , 58, 4561-4573	5.1	10
552	Towards general network architecture design criteria for negative gas adsorption transitions in ultraporous frameworks. <i>Nature Communications</i> , 2019 , 10, 3632	17.4	46
551	A Facile Strategy to Improve the Electrochemical Performance of Porous Organic Polymer-Based LithiumSulfur Batteries. <i>Energy Technology</i> , 2019 , 7, 1900583	3.5	11
550	Polysulfide Shuttle Suppression by Electrolytes with Low-Density for High-Energy LithiumSulfur Batteries. <i>Energy Technology</i> , 2019 , 7, 1900625	3.5	34
549	New insights into solvent-induced structural changes of C labelled metal-organic frameworks by solid state NMR. <i>Chemical Communications</i> , 2019 , 55, 9140-9143	5.8	9
548	Tailoring the Adsorption of ACE-Inhibiting Peptides by Nitrogen Functionalization of Porous Carbons. <i>Langmuir</i> , 2019 , 35, 9721-9731	4	3
547	Molecular Precursors for Tailoring Humidity Tolerance of Nanoscale Hopcalite Catalysts Via Flame Spray Pyrolysis. <i>ChemCatChem</i> , 2019 , 11, 4593-4603	5.2	2
546	An Asymmetric Supercapacitor-Diode (CAPode) for Unidirectional Energy Storage. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 13060-13065	16.4	24
545	An Asymmetric SupercapacitorDiode (CAPode) for Unidirectional Energy Storage. <i>Angewandte Chemie</i> , 2019 , 131, 13194-13199	3.6	0
544	A semiconducting layered metal-organic framework magnet. <i>Nature Communications</i> , 2019 , 10, 3260	17.4	69

543	High-Pressure in Situ ^{129}Xe NMR Spectroscopy: Insights into Switching Mechanisms of Flexible Metal-Organic Frameworks Isorecticular to DUT-49. <i>Chemistry of Materials</i> , 2019 , 31, 6193-6201	9.6	24
542	Insights into the role of zirconium in proline functionalized metal-organic frameworks attaining high enantio- and diastereoselectivity. <i>Journal of Catalysis</i> , 2019 , 377, 41-50	7.3	19
541	Mechanochemical synthesis of multi-site electrocatalysts as bifunctional zinc-air battery electrodes. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 19355-19363	13	32
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412	Appendix B: Datasheets 2016 , 825-832		
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409	Nuclear Magnetic Resonance of Metal-Organic Frameworks (MOFs) 2016 , 607-628		1
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390	Network Topology 2016 , 5-40		6
389	Defects and Disorder in MOFs 2016 , 795-822		1
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