

Joseph T Hupp

List of Publications by Year in Descending Order

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Version: 2024-04-25

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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.

660
papers

84,241
citations

142
h-index

271
g-index

688
ext. papers

91,928
ext. citations

9.8
avg, IF

8.34
L-index

#	Paper	IF	Citations
660	Identifying the Polymorphs of Zr-Based Metal-Organic Frameworks via Time-Resolved Fluorescence Imaging 2022 , 4, 370-377		0
659	An iron-porphyrin grafted metal-organic framework as a heterogeneous catalyst for the photochemical reduction of CO ₂ . <i>Journal of Photochemistry and Photobiology</i> , 2022 , 10, 100111	0.8	1
658	Investigating the effect of metal nuclearity on activity for ethylene hydrogenation by metal-organic-framework-supported oxy-Ni(II) catalysts. <i>Journal of Catalysis</i> , 2022 , 407, 162-162	7.3	1
657	MOF-enabled confinement and related effects for chemical catalyst presentation and utilization.. <i>Chemical Society Reviews</i> , 2022 ,	58.5	22
656	Incorporation of free halide ions stabilizes metal-organic frameworks (MOFs) against pore collapse and renders large-pore Zr-MOFs functional for water harvesting. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 6442-6447	13	2
655	Does the Mode of Metal-Organic Framework/Electrode Adhesion Determine Rates for Redox-Hopping-Based Charge Transport within Thin-Film Metal-Organic Frameworks?. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 4601-4611	3.8	0
654	An Electrically Conductive Tetrathiafulvalene-Based Hydrogen-Bonded Organic Framework 2022 , 4, 128-135		3
653	The Molecular Path Approaching the Active Site in Catalytic Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2021 , 143, 20090-20094	16.4	4
652	Double-Walled Zn@Zn Multicomponent Senary Metal-Organic Polyhedral Framework and Its Isorecticular Evolution. <i>Journal of the American Chemical Society</i> , 2021 , 143, 17942-17946	16.4	1
651	Photon Upconversion in a Glowing Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2021 , 143, 5053-5059	16.4	11
650	Ammonia Capture within Zirconium Metal-Organic Frameworks: Reversible and Irreversible Uptake. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 20081-20093	9.5	15
649	Zirconium Metal-Organic Frameworks Integrating Chloride Ions for Ammonia Capture and/or Chemical Separation. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 22485-22494	9.5	10
648	Product Inhibition and the Catalytic Destruction of a Nerve Agent Simulant by Zirconium-Based Metal-Organic Frameworks. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 30565-30575	9.5	8
647	Two-Dimensional Pd Rafts Confined in Copper Nanosheets for Selective Semihydrogenation of Acetylene. <i>Nano Letters</i> , 2021 , 21, 5620-5626	11.5	7
646	Engineering Dendrimer-Templated, Metal-Organic Framework-Confined Zero-Valent, Transition-Metal Catalysts. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 36232-36239	9.5	4
645	Vapor-Phase Cyclohexene Epoxidation by Single-Ion Fe(III) Sites in Metal-Organic Frameworks. <i>Inorganic Chemistry</i> , 2021 , 60, 2457-2463	5.1	6
644	Tuning the Conductivity of Hexa-Zirconium(IV) Metal-Organic Frameworks by Encapsulating Heterofullerenes. <i>Chemistry of Materials</i> , 2021 , 33, 1182-1189	9.6	7

643	Light-Harvesting "Antenna" Behavior in NU-1000. <i>ACS Energy Letters</i> , 2021 , 6, 848-853	20.1	16
642	Art of Architecture: Efficient Transport through Solvent-Filled Metal-Organic Frameworks Regulated by Topology. <i>Chemistry of Materials</i> , 2021 , 33, 6832-6840	9.6	3
641	Transport Diffusion of Linear Alkanes (C-C) through Thin Films of ZIF-8 as Assessed by Quartz Crystal Microgravimetry. <i>Langmuir</i> , 2021 , 37, 9405-9414	4	2
640	Isomer of linker for NU-1000 yields a new she-type, catalytic, and hierarchically porous, Zr-based metal-organic framework. <i>Chemical Communications</i> , 2021 , 57, 3571-3574	5.8	8
639	Structural Diversity of Zirconium Metal-Organic Frameworks and Effect on Adsorption of Toxic Chemicals. <i>Journal of the American Chemical Society</i> , 2020 , 142, 21428-21438	16.4	44
638	Charge Transport in Zirconium-Based Metal-Organic Frameworks. <i>Accounts of Chemical Research</i> , 2020 , 53, 1187-1195	24.3	47
637	Squeezing the box: isorecticular contraction of pyrene-based linker in a Zr-based metal-organic framework for Xe/Kr separation. <i>Dalton Transactions</i> , 2020 , 49, 6553-6556	4.3	4
636	Supramolecular Porous Organic Nanocomposites for Heterogeneous Photocatalysis of a Sulfur Mustard Simulant. <i>Advanced Materials</i> , 2020 , 32, e2001592	24	10
635	Structural reversibility of Cu doped NU-1000 MOFs under hydrogenation conditions. <i>Journal of Chemical Physics</i> , 2020 , 152, 084703	3.9	8
634	Zirconium-Based Metal-Organic Frameworks for the Catalytic Hydrolysis of Organophosphorus Nerve Agents. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 14702-14720	9.5	90
633	Stabilization of Low Valent Zirconium Nitrides in Titanium Nitride via Plasma-Enhanced Atomic Layer Deposition and Assessment of Electrochemical Properties. <i>ACS Applied Energy Materials</i> , 2020 , 3, 5095-5100	6.1	0
632	Regioselective Functionalization of the Mesoporous Metal-Organic Framework, NU-1000, with Photo-Active Tris-(2,2'-bipyridine)ruthenium(II). <i>ACS Omega</i> , 2020 , 5, 30299-30305	3.9	6
631	Isobutane Dehydrogenation over Bulk and Supported Molybdenum Sulfide Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 1113-1122	3.9	11
630	Single-Site, Single-Metal-Atom, Heterogeneous Electrocatalyst: Metal-Organic-Framework Supported Molybdenum Sulfide for Redox Mediator-Assisted Hydrogen Evolution Reaction. <i>ChemElectroChem</i> , 2020 , 7, 509-516	4.3	9
629	The Synthesis Science of Targeted Vapor-Phase Metal-Organic Framework Postmodification. <i>Journal of the American Chemical Society</i> , 2020 , 142, 242-250	16.4	24
628	Post-Synthetically Elaborated BODIPY-Based Porous Organic Polymers (POPs) for the Photochemical Detoxification of a Sulfur Mustard Simulant. <i>Journal of the American Chemical Society</i> , 2020 , 142, 18554-18564	16.4	38
627	Node-Accessible Zirconium MOFs. <i>Journal of the American Chemical Society</i> , 2020 , 142, 21110-21121	16.4	42
626	Unexpected "Spontaneous" Evolution of Catalytic, MOF-Supported Single Cu(II) Cations to Catalytic, MOF-Supported Cu(0) Nanoparticles. <i>Journal of the American Chemical Society</i> , 2020 , 142, 21169-21177	16.4	28

625	Insights into the Structure–Activity Relationships in Metal–Organic Framework-Supported Nickel Catalysts for Ethylene Hydrogenation. <i>ACS Catalysis</i> , 2020 , 10, 8995-9005	13.1	11
624	Metal-organic framework (MOF) materials as polymerization catalysts: a review and recent advances. <i>Chemical Communications</i> , 2020 , 56, 10409-10418	5.8	68
623	Reactive Porous Polymers for Detoxification of a Chemical Warfare Agent Simulant. <i>Chemistry of Materials</i> , 2020 , 32, 9299-9306	9.6	14
622	Investigating the Process and Mechanism of Molecular Transport within a Representative Solvent-Filled Metal–Organic Framework. <i>Langmuir</i> , 2020 , 36, 10853-10859	4	10
621	Identification Schemes for Metal–Organic Frameworks To Enable Rapid Search and Cheminformatics Analysis. <i>Crystal Growth and Design</i> , 2019 , 19, 6682-6697	3.5	59
620	Molybdenum Sulfide within a Metal–Organic Framework for Photocatalytic Hydrogen Evolution from Water. <i>Journal of the Electrochemical Society</i> , 2019 , 166, H3154-H3158	3.9	11
619	Selective Methane Oxidation to Methanol on Cu-Oxo Dimers Stabilized by Zirconia Nodes of an NU-1000 Metal–Organic Framework. <i>Journal of the American Chemical Society</i> , 2019 , 141, 9292-9304	16.4	66
618	An effective strategy for creating asymmetric MOFs for chirality induction: a chiral Zr-based MOF for enantioselective epoxidation. <i>Catalysis Science and Technology</i> , 2019 , 9, 3388-3397	5.5	29
617	Enhanced Activity of Heterogeneous Pd(II) Catalysts on Acid-Functionalized Metal–Organic Frameworks. <i>ACS Catalysis</i> , 2019 , 9, 5383-5390	13.1	51
616	Anisotropic Redox Conductivity within a Metal–Organic Framework Material. <i>Journal of the American Chemical Society</i> , 2019 , 141, 17696-17702	16.4	42
615	Pore-Templated Growth of Catalytically Active Gold Nanoparticles within a Metal–Organic Framework. <i>Chemistry of Materials</i> , 2019 , 31, 1485-1490	9.6	34
614	Introducing Nonstructural Ligands to Zirconia-like Metal–Organic Framework Nodes To Tune the Activity of Node-Supported Nickel Catalysts for Ethylene Hydrogenation. <i>ACS Catalysis</i> , 2019 , 9, 3198-3207	13.1	45
613	Vapor-Phase Fabrication and Condensed-Phase Application of a MOF-Node-Supported Iron Thiolate Photocatalyst for Nitrate Conversion to Ammonium. <i>ACS Applied Energy Materials</i> , 2019 , 2, 8695-8700	6.1	21
612	Metal–Organic-Framework-Supported and -Isolated Ceria Clusters with Mixed Oxidation States. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 47822-47829	9.5	24
611	Detoxification of a Mustard-Gas Simulant by Nanosized Porphyrin-Based Metal–Organic Frameworks. <i>ACS Applied Nano Materials</i> , 2019 , 2, 465-469	5.6	22
610	Metal–Organic Framework Supported Single Site Chromium(III) Catalyst for Ethylene Oligomerization at Low Pressure and Temperature. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 2553-2557	8.3	44
609	Highly Active NiO Photocathodes for HO ₂ Production Enabled via Outer-Sphere Electron Transfer. <i>Journal of the American Chemical Society</i> , 2018 , 140, 4079-4084	16.4	50
608	Application and Limitations of Nanocasting in Metal–Organic Frameworks. <i>Inorganic Chemistry</i> , 2018 , 57, 2782-2790	5.1	15

607	Tunable Crystallinity and Charge Transfer in Two-Dimensional G-Quadruplex Organic Frameworks. <i>Angewandte Chemie</i> , 2018 , 130, 4049-4053	3.6	7
606	Benchmark Study of Hydrogen Storage in Metal-Organic Frameworks under Temperature and Pressure Swing Conditions. <i>ACS Energy Letters</i> , 2018 , 3, 748-754	20.1	104
605	Increased Electrical Conductivity in a Mesoporous Metal-Organic Framework Featuring Metallocarboranes Guests. <i>Journal of the American Chemical Society</i> , 2018 , 140, 3871-3875	16.4	117
604	Site-Directed Synthesis of Cobalt Oxide Clusters in a Metal-Organic Framework. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 15073-15078	9.5	34
603	Theoretical insights into direct methane to methanol conversion over supported dicopper oxo nanoclusters. <i>Catalysis Today</i> , 2018 , 312, 2-9	5.3	16
602	A porous, electrically conductive hexa-zirconium(IV) metal-organic framework. <i>Chemical Science</i> , 2018 , 9, 4477-4482	9.4	118
601	Electroactive Ferrocene at or near the Surface of Metal-Organic Framework UiO-66. <i>Langmuir</i> , 2018 , 34, 4707-4714	4	19
600	Correction to "Tuning Zr ₆ Metal-Organic Framework (MOF) Nodes as Catalyst Supports: Site Densities and Electron-Donor Properties Influence Molecular Iridium Complexes as Ethylene Conversion Catalysts" <i>ACS Catalysis</i> , 2018 , 8, 2364-2364	13.1	3
599	Metal-Organic Frameworks as Platform Materials for Solar Fuels Catalysis. <i>ACS Energy Letters</i> , 2018 , 3, 598-611	20.1	82
598	Extending the Compositional Range of Nanocasting in the Oxozirconium Cluster-Based Metal-Organic Framework NU-1000: Comparative Structural Analysis. <i>Chemistry of Materials</i> , 2018 , 30, 1301-1315	9.6	5
597	Tunable Crystallinity and Charge Transfer in Two-Dimensional G-Quadruplex Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 3985-3989	16.4	18
596	Toward a Charged Homo[2]catenane Employing Diazaperopyrenium Homophilic Recognition. <i>Journal of the American Chemical Society</i> , 2018 , 140, 6540-6544	16.4	9
595	Room Temperature Synthesis of an 8-Connected Zr-Based Metal-Organic Framework for Top-Down Nanoparticle Encapsulation. <i>Chemistry of Materials</i> , 2018 , 30, 2193-2197	9.6	59
594	Bifunctional Porphyrin-Based Nano-Metal-Organic Frameworks: Catalytic and Chemosensing Studies. <i>Inorganic Chemistry</i> , 2018 , 57, 3855-3864	5.1	33
593	Atomic layer deposition of Pt@CsH ₂ PO ₄ for the cathodes of solid acid fuel cells. <i>Electrochimica Acta</i> , 2018 , 288, 12-19	6.7	15
592	Beyond the Active Site: Tuning the Activity and Selectivity of a Metal-Organic Framework-Supported Ni Catalyst for Ethylene Dimerization. <i>Journal of the American Chemical Society</i> , 2018 , 140, 11174-11178	16.4	73
591	Inorganic "Conductive Glass" Approach to Rendering Mesoporous Metal-Organic Frameworks Electronically Conductive and Chemically Responsive. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 30532-30540	9.5	38
590	Pushing the Limits on Metal-Organic Frameworks as a Catalyst Support: NU-1000 Supported Tungsten Catalysts for o-Xylene Isomerization and Disproportionation. <i>Journal of the American Chemical Society</i> , 2018 , 140, 8535-8543	16.4	56

589	Sinter-Resistant Platinum Catalyst Supported by Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 909-913	16.4	70
588	Stabilizing a Vanadium Oxide Catalyst by Supporting on a Metal-Organic Framework. <i>ChemCatChem</i> , 2018 , 10, 1772-1777	5.2	18
587	Phosphonates Meet Metal-Organic Frameworks: Towards CO ₂ Adsorption. <i>Israel Journal of Chemistry</i> , 2018 , 58, 1164-1170	3.4	4
586	Nickel-Carbon-Zirconium Material Derived from Nickel-Oxide Clusters Installed in a Metal-Organic Framework Scaffold by Atomic Layer Deposition. <i>Langmuir</i> , 2018 , 34, 14143-14150	4	12
585	Redox-Mediator-Assisted Electrocatalytic Hydrogen Evolution from Water by a Molybdenum Sulfide-Functionalized Metal-Organic Framework. <i>ACS Catalysis</i> , 2018 , 8, 9848-9858	13.1	73
584	Boosting Transport Distances for Molecular Excitons within Photoexcited Metal-Organic Framework Films. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 34409-34417	9.5	26
583	Probing charge transfer characteristics in a donor-acceptor metal-organic framework by Raman spectroelectrochemistry and pressure-dependence studies. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 25772-25779	3.6	19
582	Single-Atom-Based Vanadium Oxide Catalysts Supported on Metal-Organic Frameworks: Selective Alcohol Oxidation and Structure-Activity Relationship. <i>Journal of the American Chemical Society</i> , 2018 , 140, 8652-8656	16.4	130
581	Sinter-Resistant Platinum Catalyst Supported by Metal-Organic Framework. <i>Angewandte Chemie</i> , 2018 , 130, 921-925	3.6	2
580	From 2-methylimidazole to 1,2,3-triazole: a topological transformation of ZIF-8 and ZIF-67 by post-synthetic modification. <i>Chemical Communications</i> , 2017 , 53, 2028-2031	5.8	37
579	Room-Temperature Synthesis of UiO-66 and Thermal Modulation of Densities of Defect Sites. <i>Chemistry of Materials</i> , 2017 , 29, 1357-1361	9.6	217
578	Atomic Layer Deposition in a Metal-Organic Framework: Synthesis, Characterization, and Performance of a Solid Acid. <i>Chemistry of Materials</i> , 2017 , 29, 1058-1068	9.6	35
577	Towards hydroxamic acid linked zirconium metal-organic frameworks. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 1194-1199	7.8	17
576	Photodriven Oxidation of Surface-Bound Iridium-Based Molecular Water-Oxidation Catalysts on Perylene-3,4-dicarboximide-Sensitized TiO ₂ Electrodes Protected by an Al ₂ O ₃ Layer. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 3752-3764	3.8	35
575	Tuning the properties of metal-organic framework nodes as supports of single-site iridium catalysts: node modification by atomic layer deposition of aluminium. <i>Faraday Discussions</i> , 2017 , 201, 195-206	3.6	24
574	Intramolecular Energy and Electron Transfer within a Diazaperopyrenium-Based Cyclophane. <i>Journal of the American Chemical Society</i> , 2017 , 139, 4107-4116	16.4	31
573	Enzyme encapsulation in metal-organic frameworks for applications in catalysis. <i>CrystEngComm</i> , 2017 , 19, 4082-4091	3.3	191
572	Cerium(IV) vs Zirconium(IV) Based Metal-Organic Frameworks for Detoxification of a Nerve Agent. <i>Chemistry of Materials</i> , 2017 , 29, 2672-2675	9.6	106

571	Size Effect of the Active Sites in UiO-66-Supported Nickel Catalysts Synthesized via Atomic Layer Deposition for Ethylene Hydrogenation. <i>Inorganic Chemistry Frontiers</i> , 2017 , 4, 820-824	6.8	30
570	Postsynthetic Tuning of Metal-Organic Frameworks for Targeted Applications. <i>Accounts of Chemical Research</i> , 2017 , 50, 805-813	24.3	488
569	Improvement of Methane-Framework Interaction by Controlling Pore Size and Functionality of Pillared MOFs. <i>Inorganic Chemistry</i> , 2017 , 56, 2581-2588	5.1	43
568	Correction to "Computationally Guided Discovery of Catalytic Cobalt-Decorated Metal-Organic Framework for Ethylene Dimerization" <i>Journal of Physical Chemistry C</i> , 2017 , 121, 11975-11975	3.8	2
567	Determining the Conduction Band-Edge Potential of Solar-Cell-Relevant NbO Fabricated by Atomic Layer Deposition. <i>Langmuir</i> , 2017 , 33, 9298-9306	4	12
566	Temperature Treatment of Highly Porous Zirconium-Containing Metal-Organic Frameworks Extends Drug Delivery Release. <i>Journal of the American Chemical Society</i> , 2017 , 139, 7522-7532	16.4	216
565	Catalytically Active Silicon Oxide Nanoclusters Stabilized in a Metal-Organic Framework. <i>Chemistry - A European Journal</i> , 2017 , 23, 8532-8536	4.8	12
564	Addressing the characterisation challenge to understand catalysis in MOFs: the case of nanoscale Cu supported in NU-1000. <i>Faraday Discussions</i> , 2017 , 201, 337-350	3.6	47
563	Metal-Organic Framework Supported Cobalt Catalysts for the Oxidative Dehydrogenation of Propane at Low Temperature. <i>ACS Central Science</i> , 2017 , 3, 31-38	16.8	178
562	Adsorption of a Catalytically Accessible Polyoxometalate in a Mesoporous Channel-type Metal-Organic Framework. <i>Chemistry of Materials</i> , 2017 , 29, 5174-5181	9.6	102
561	Atomistic Approach toward Selective Photocatalytic Oxidation of a Mustard-Gas Simulant: A Case Study with Heavy-Chalcogen-Containing PCN-57 Analogues. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 19535-19540	9.5	44
560	Methane Oxidation to Methanol Catalyzed by Cu-Oxo Clusters Stabilized in NU-1000 Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2017 , 139, 10294-10301	16.4	203
559	Metal-organic frameworks for the removal of toxic industrial chemicals and chemical warfare agents. <i>Chemical Society Reviews</i> , 2017 , 46, 3357-3385	58.5	557
558	Thin Films and Solar Cells Based on Semiconducting Two-Dimensional Ruddlesden-Popper $(\text{CH}_3(\text{CH}_2)_3\text{NH}_3)_2(\text{CH}_3\text{NH}_3)_n\text{Sn}_{n+1}\text{I}_{3n+1}$ Perovskites. <i>ACS Energy Letters</i> , 2017 , 2, 982-990	20.1	274
557	Understanding Volumetric and Gravimetric Hydrogen Adsorption Trade-off in Metal-Organic Frameworks. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 33419-33428	9.5	73
556	Rendering High Surface Area, Mesoporous Metal-Organic Frameworks Electronically Conductive. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 12584-12591	9.5	78
555	Assembly of dicobalt and cobalt-aluminum oxide clusters on metal-organic framework and nanocast silica supports. <i>Faraday Discussions</i> , 2017 , 201, 287-302	3.6	20
554	Catalytic Zirconium/Hafnium-Based Metal-Organic Frameworks. <i>ACS Catalysis</i> , 2017 , 7, 997-1014	13.1	233

553	G-quadruplex organic frameworks. <i>Nature Chemistry</i> , 2017 , 9, 466-472	17.6	72
552	Fine-Tuning the Activity of Metal-Organic Framework-Supported Cobalt Catalysts for the Oxidative Dehydrogenation of Propane. <i>Journal of the American Chemical Society</i> , 2017 , 139, 15251-15258	16.4	86
551	Optimizing Toxic Chemical Removal through Defect-Induced UiO-66-NH Metal-Organic Framework. <i>Chemistry - A European Journal</i> , 2017 , 23, 15913-15916	4.8	54
550	Elucidating the Nanoparticle-Metal Organic Framework Interface of Catalysts. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 25079-25091	3.8	22
549	Metal-Organic Frameworks: An Emerging Class of Solid-State Materials 2017 , 165-193		1
548	Copper Nanoparticles Installed in Metal-Organic Framework Thin Films are Electrocatalytically Competent for CO ₂ Reduction. <i>ACS Energy Letters</i> , 2017 , 2, 2394-2401	20.1	112
547	Atomic Layer Deposition of Rhenium-Aluminum Oxide Thin Films and ReO Incorporation in a Metal-Organic Framework. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 35067-35074	9.5	20
546	Ni(II) complex on a bispyridine-based porous organic polymer as a heterogeneous catalyst for ethylene oligomerization. <i>Catalysis Science and Technology</i> , 2017 , 7, 4351-4354	5.5	14
545	Thermal Conductivity of ZIF-8 Thin-Film under Ambient Gas Pressure. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 28139-28143	9.5	28
544	Tuning ethylene gas adsorption via metal node modulation: Cu-MOF-74 for a high ethylene deliverable capacity. <i>Chemical Communications</i> , 2017 , 53, 9376-9379	5.8	43
543	Interconversion between Free Charges and Bound Excitons in 2D Hybrid Lead Halide Perovskites. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 26566-26574	3.8	101
542	Bridging Zirconia Nodes within a Metal-Organic Framework via Catalytic Ni-Hydroxo Clusters to Form Heterobimetallic Nanowires. <i>Journal of the American Chemical Society</i> , 2017 , 139, 10410-10418	16.4	64
541	Computational Screening of Nanoporous Materials for Hexane and Heptane Isomer Separation. <i>Chemistry of Materials</i> , 2017 , 29, 6315-6328	9.6	46
540	Detoxification of a Sulfur Mustard Simulant Using a BODIPY-Functionalized Zirconium-Based Metal-Organic Framework. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 24555-24560	9.5	76
539	Catalytic degradation of chemical warfare agents and their simulants by metal-organic frameworks. <i>Coordination Chemistry Reviews</i> , 2017 , 346, 101-111	23.2	206
538	Postsynthetic Incorporation of a Singlet Oxygen Photosensitizer in a Metal-Organic Framework for Fast and Selective Oxidative Detoxification of Sulfur Mustard. <i>Chemistry - A European Journal</i> , 2017 , 23, 214-218	4.8	74
537	Photodriven hydrogen evolution by molecular catalysts using AlO-protected perylene-3,4-dicarboximide on NiO electrodes. <i>Chemical Science</i> , 2017 , 8, 541-549	9.4	65
536	Best Practices for the Synthesis, Activation, and Characterization of Metal-Organic Frameworks. <i>Chemistry of Materials</i> , 2017 , 29, 26-39	9.6	341

535	Proton Conducting Self-Assembled Metal-Organic Framework/Polyelectrolyte Hollow Hybrid Nanostructures. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 23015-21	9.5	34
534	Installing Heterobimetallic Cobalt-Aluminum Single Sites on a Metal Organic Framework Support. <i>Chemistry of Materials</i> , 2016 , 28, 6753-6762	9.6	45
533	Efficient and selective oxidation of sulfur mustard using singlet oxygen generated by a pyrene-based metal-organic framework. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 13809-13813	13	109
532	Barrier-Layer-Mediated Electron Transfer from Semiconductor Electrodes to Molecules in Solution: Sensitivity of Mechanism to Barrier-Layer Thickness. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 20922-20928	3.8	9
531	Computationally Guided Discovery of a Catalytic Cobalt-Decorated Metal-Organic Framework for Ethylene Dimerization. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 23576-23583	3.8	67
530	Layer-by-Layer Assembled Films of Perylene Diimide- and Squaraine-Containing Metal-Organic Framework-like Materials: Solar Energy Capture and Directional Energy Transfer. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 24983-8	9.5	37
529	Porphyryns as Templates for Site-Selective Atomic Layer Deposition: Vapor Metalation and in Situ Monitoring of Island Growth. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 19853-9	9.5	14
528	Design and Synthesis of a Water-Stable Anionic Uranium-Based Metal-Organic Framework (MOF) with Ultra Large Pores. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 10358-62	16.4	141
527	Design and Synthesis of a Water-Stable Anionic Uranium-Based Metal-Organic Framework (MOF) with Ultra Large Pores. <i>Angewandte Chemie</i> , 2016 , 128, 10514-10518	3.6	37
526	Adding to the Arsenal of Zirconium-Based Metal-Organic Frameworks: the Topology as a Platform for Solvent-Assisted Metal Incorporation. <i>European Journal of Inorganic Chemistry</i> , 2016 , 2016, 4349-4352	2.3	46
525	Effect of Cation Rotation on Charge Dynamics in Hybrid Lead Halide Perovskites. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 16577-16585	3.8	46
524	In silico discovery of metal-organic frameworks for precombustion CO capture using a genetic algorithm. <i>Science Advances</i> , 2016 , 2, e1600909	14.3	164
523	An Exceptionally Stable Metal-Organic Framework Supported Molybdenum(VI) Oxide Catalyst for Cyclohexene Epoxidation. <i>Journal of the American Chemical Society</i> , 2016 , 138, 14720-14726	16.4	172
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