

# Mircea Dinca

## List of Publications by Citations

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173  
papers

28,685  
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77  
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197  
ext. papers

32,340  
ext. citations

13.9  
avg, IF

7.91  
L-index

#	Paper	IF	Citations
173	Hydrogen storage in metal-organic frameworks. <i>Chemical Society Reviews</i> , <b>2009</b> , 38, 1294-314	58.5	3846
172	Conductive MOF electrodes for stable supercapacitors with high areal capacitance. <i>Nature Materials</i> , <b>2017</b> , 16, 220-224	27	1287
171	Electrically Conductive Porous Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 3566-79	16.4	1104
170	Hydrogen storage in microporous metal-organic frameworks with exposed metal sites. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 6766-79	16.4	1019
169	Hydrogen storage in a microporous metal-organic framework with exposed Mn <sup>2+</sup> coordination sites. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 16876-83	16.4	1014
168	Size-selective Lewis acid catalysis in a microporous metal-organic framework with exposed Mn <sup>2+</sup> coordination sites. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 5854-5	16.4	753
167	High electrical conductivity in Ni <sub>2</sub> (2,3,6,7,10,11-hexaiminotriphenylene) <sub>3</sub> a semiconducting metal-organic graphene analogue. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 8859-62	16.4	691
166	Strong H <sub>2</sub> binding and selective gas adsorption within the microporous coordination solid Mg <sub>3</sub> (O <sub>2</sub> C-C(10)H(6)-CO(2)) <sub>3</sub> . <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 9376-7	16.4	684
165	Nickel-borate oxygen-evolving catalyst that functions under benign conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 10337-41	11.5	651
164	Cu <sub>2</sub> (hexaiminotriphenylene) <sub>3</sub> an electrically conductive 2D metal-organic framework for chemiresistive sensing. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 4349-52	16.4	596
163	Microporous metal-organic frameworks incorporating 1,4-benzeneditetrazolate: syntheses, structures, and hydrogen storage properties. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 8904-13	16.4	586
162	Structure and valency of a cobalt-phosphate water oxidation catalyst determined by in situ X-ray spectroscopy. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 13692-701	16.4	585
161	Turn-on fluorescence in tetraphenylethylene-based metal-organic frameworks: an alternative to aggregation-induced emission. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 20126-9	16.4	533
160	Electrolyte-dependent electrosynthesis and activity of cobalt-based water oxidation catalysts. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 2615-20	16.4	532
159	Chemiresistive Sensor Arrays from Conductive 2D Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 13780-3	16.4	491
158	Electrically Conductive Metal-Organic Frameworks. <i>Chemical Reviews</i> , <b>2020</b> , 120, 8536-8580	68.1	450
157	Electrochemical oxygen reduction catalysed by Ni <sub>3</sub> (hexaiminotriphenylene) <sub>2</sub> . <i>Nature Communications</i> , <b>2016</b> , 7, 10942	17.4	443

156	EPR evidence for Co(IV) species produced during water oxidation at neutral pH. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 6882-3	16.4	443
155	High-enthalpy hydrogen adsorption in cation-exchanged variants of the microporous metal-organic framework $Mn_3[(Mn_4Cl)_3(BTT)_8(CH_3OH)_{10}]_2$ . <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 11172-6	16.4	433
154	Cation exchange at the secondary building units of metal-organic frameworks. <i>Chemical Society Reviews</i> , <b>2014</b> , 43, 5456-67	58.5	399
153	Observation of $Cu^{2+}$ - $H_2$ interactions in a fully desolvated sodalite-type metal-organic framework. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 1419-22	16.4	384
152	Selective turn-on ammonia sensing enabled by high-temperature fluorescence in metal-organic frameworks with open metal sites. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 13326-9	16.4	368
151	Broadly hysteretic $H_2$ adsorption in the microporous metal-organic framework Co(1,4-benzenedipyrzolate). <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 7848-50	16.4	368
150	High charge mobility in a tetrathiafulvalene-based microporous metal-organic framework. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 12932-5	16.4	360
149	Ti(3+)-, V(2+/3+)-, Cr(2+/3+)-, Mn(2+)-, and Fe(2+)-substituted MOF-5 and redox reactivity in Cr- and Fe-MOF-5. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 12886-91	16.4	329
148	Phenyl ring dynamics in a tetraphenylethylene-bridged metal-organic framework: implications for the mechanism of aggregation-induced emission. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 15061-70	16.4	327
147	Cation-dependent intrinsic electrical conductivity in isostructural tetrathiafulvalene-based microporous metal-organic frameworks. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 1774-7	16.4	282
146	Highly-selective and reversible $O_2$ binding in $Cr_3(1,3,5\text{-benzenetricarboxylate})_2$ . <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 7856-7	16.4	266
145	Thiophene-based covalent organic frameworks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 4923-8	11.5	265
144	Grand Challenges and Future Opportunities for Metal-Organic Frameworks. <i>ACS Central Science</i> , <b>2017</b> , 3, 554-563	16.8	236
143	$Mn_2(2,5\text{-disulphydrylbenzene-1,4-dicarboxylate})$ : a microporous metal-organic framework with infinite (-Mn-S-) chains and high intrinsic charge mobility. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 8185-8	16.4	234
142	Million-Fold Electrical Conductivity Enhancement in $Fe_2(DEBDC)$ versus $Mn_2(DEBDC)$ (E = S, O). <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 6164-7	16.4	222
141	Facile deposition of multicolored electrochromic metal-organic framework thin films. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 13377-81	16.4	219
140	Signature of Metallic Behavior in the Metal-Organic Frameworks $M(\text{hexaiminobenzene})$ (M = Ni, Cu). <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 13608-13611	16.4	214
139	Molecular understanding of charge storage and charging dynamics in supercapacitors with MOF electrodes and ionic liquid electrolytes. <i>Nature Materials</i> , <b>2020</b> , 19, 552-558	27	208

138	Reductive electrosynthesis of crystalline metal-organic frameworks. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 12926-9	16.4	184
137	Expanded sodalite-type metal-organic frameworks: increased stability and H <sub>2</sub> adsorption through ligand-directed catenation. <i>Inorganic Chemistry</i> , <b>2008</b> , 47, 11-3	5.1	181
136	Record Atmospheric Fresh Water Capture and Heat Transfer with a Material Operating at the Water Uptake Reversibility Limit. <i>ACS Central Science</i> , <b>2017</b> , 3, 668-672	16.8	178
135	Controlled Gas Uptake in Metal-Organic Frameworks with Record Ammonia Sorption. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 3461-3466	16.4	176
134	High and Reversible Ammonia Uptake in Mesoporous Azolate Metal-Organic Frameworks with Open Mn, Co, and Ni Sites. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 9401-4	16.4	166
133	Metal-Organic Frameworks as Active Materials in Electronic Sensor Devices. <i>Sensors</i> , <b>2017</b> , 17,	3.8	166
132	Investigation of the synthesis, activation, and isosteric heats of CO <sub>2</sub> adsorption of the isostructural series of metal-organic frameworks M <sub>3</sub> (BTC) <sub>2</sub> (M = Cr, Fe, Ni, Cu, Mo, Ru). <i>Dalton Transactions</i> , <b>2012</b> , 41, 7931-8	4.3	165
131	Selective Dimerization of Ethylene to 1-Butene with a Porous Catalyst. <i>ACS Central Science</i> , <b>2016</b> , 2, 148-158	16.4	160
130	Hydrogen storage in water-stable metal-organic frameworks incorporating 1,3- and 1,4-benzenedipyrazolate. <i>Energy and Environmental Science</i> , <b>2010</b> , 3, 117-123	35.4	158
129	Single-Ion Li, Na, and Mg Solid Electrolytes Supported by a Mesoporous Anionic Cu-Azolate Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 13260-13263	16.4	156
128	Conformational locking by design: relating strain energy with luminescence and stability in rigid metal-organic frameworks. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 19596-9	16.4	154
127	Measuring and Reporting Electrical Conductivity in Metal-Organic Frameworks: Cd(TTFTB) as a Case Study. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 14772-14782	16.4	152
126	Elektrisch leitfähige poröse Metall-organische Gerüstverbindungen. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 3628-3642	3.6	152
125	Tunable Mixed-Valence Doping toward Record Electrical Conductivity in a Three-Dimensional Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 7411-7414	16.4	152
124	2D Conductive Iron-Quinoid Magnets Ordering up to T = 105 K via Heterogenous Redox Chemistry. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 4175-4184	16.4	148
123	Lattice-imposed geometry in metal-organic frameworks: lacunary Zn <sub>4</sub> O clusters in MOF-5 serve as tripodal chelating ligands for Ni <sup>2+</sup> . <i>Chemical Science</i> , <b>2012</b> , 3, 2110	9.4	138
122	Kinetic stability of metal-organic frameworks for corrosive and coordinating gas capture. <i>Nature Reviews Materials</i> , <b>2019</b> , 4, 708-725	73.3	133
121	Single-Site Heterogeneous Catalysts for Olefin Polymerization Enabled by Cation Exchange in a Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 10232-7	16.4	132

120	Wasserstoffspeicherung in mikroporösen metall-organischen Gerüsten mit koordinativ ungesättigten Metallzentren. <i>Angewandte Chemie</i> , <b>2008</b> , 120, 6870-6884	3.6	132
119	Impact of metal and anion substitutions on the hydrogen storage properties of M-BTT metal-organic frameworks. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 1083-91	16.4	128
118	Selective formation of biphasic thin films of metal-organic frameworks by potential-controlled cathodic electrodeposition. <i>Chemical Science</i> , <b>2014</b> , 5, 107-111	9.4	126
117	Efficient and tunable one-dimensional charge transport in layered lanthanide metal-organic frameworks. <i>Nature Chemistry</i> , <b>2020</b> , 12, 131-136	17.6	120
116	Mechanistic Evidence for Ligand-Centered Electrocatalytic Oxygen Reduction with the Conductive MOF Ni <sub>3</sub> (hexaiminotriphenylene) <sub>2</sub> . <i>ACS Catalysis</i> , <b>2017</b> , 7, 7726-7731	13.1	115
115	High electrical conductivity and carrier mobility in oCVD PEDOT thin films by engineered crystallization and acid treatment. <i>Science Advances</i> , <b>2018</b> , 4, eaat5780	14.3	113
114	A Microporous and Naturally Nanostructured Thermoelectric Metal-Organic Framework with Ultralow Thermal Conductivity. <i>Joule</i> , <b>2017</b> , 1, 168-177	27.8	112
113	Is iron unique in promoting electrical conductivity in MOFs?. <i>Chemical Science</i> , <b>2017</b> , 8, 4450-4457	9.4	106
112	Postsynthetic tuning of hydrophilicity in pyrazolate MOFs to modulate water adsorption properties. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 2172	35.4	106
111	Transparent-to-Dark Electrochromic Behavior in Naphthalene-Diimide-Based Mesoporous MOF-74 Analogs. <i>Chem</i> , <b>2016</b> , 1, 264-272	16.2	106
110	Single Crystals of Electrically Conductive Two-Dimensional Metal-Organic Frameworks: Structural and Electrical Transport Properties. <i>ACS Central Science</i> , <b>2019</b> , 5, 1959-1964	16.8	105
109	Atomically precise single-crystal structures of electrically conducting 2D metal-organic frameworks. <i>Nature Materials</i> , <b>2021</b> , 20, 222-228	27	104
108	Cu <sub>3</sub> (hexaiminotriphenylene) <sub>2</sub> : An Electrically Conductive 2D Metal-Organic Framework for Chemiresistive Sensing. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 4423-4426	3.6	102
107	Structure and charge control in metal-organic frameworks based on the tetrahedral ligand tetrakis(4-tetrazolylphenyl)methane. <i>Chemistry - A European Journal</i> , <b>2008</b> , 14, 10280-5	4.8	100
106	Dynamic DMF Binding in MOF-5 Enables the Formation of Metastable Cobalt-Substituted MOF-5 Analogues. <i>ACS Central Science</i> , <b>2015</b> , 1, 252-60	16.8	99
105	Continuous Partial Oxidation of Methane to Methanol Catalyzed by Diffusion-Paired Copper Dimers in Copper-Exchanged Zeolites. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 11641-11650	16.4	97
104	Mechanism of Single-Site Molecule-Like Catalytic Ethylene Dimerization in Ni-MFU-4l. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 757-762	16.4	94
103	Viewpoint on the Partial Oxidation of Methane to Methanol Using Cu- and Fe-Exchanged Zeolites. <i>ACS Catalysis</i> , <b>2018</b> , 8, 8306-8313	13.1	91

102	On the electrochemical deposition of metal-organic frameworks. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 3914-3925	13	88
101	Selective Catalytic Olefin Epoxidation with MnII-Exchanged MOF-5. <i>ACS Catalysis</i> , <b>2018</b> , 8, 596-601	13.1	86
100	Reversible Capture and Release of Cl and Br with a Redox-Active Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 5992-5997	16.4	82
99	NO disproportionation at a mononuclear site-isolated Fe(2+) center in Fe(2+)-MOF-5. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 7495-501	16.4	82
98	Diverse $\pi$ -stacking motifs modulate electrical conductivity in tetrathiafulvalene-based metal-organic frameworks. <i>Chemical Science</i> , <b>2019</b> , 10, 8558-8565	9.4	80
97	Modular O electroreduction activity in triphenylene-based metal-organic frameworks. <i>Chemical Science</i> , <b>2018</b> , 9, 6286-6291	9.4	79
96	Synthesis and Electrical Properties of Covalent Organic Frameworks with Heavy Chalcogens. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 5487-5490	9.6	77
95	Continuous Electrical Conductivity Variation in M(Hexamino-triphenylene) (M = Co, Ni, Cu) MOF Alloys. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 12367-12373	16.4	75
94	The Current Status of MOF and COF Applications. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 23975-24001	16.4	75
93	High Li and Mg Conductivity in a Cu-Azolate Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 4422-4427	16.4	74
92	Ligand redox non-innocence in the stoichiometric oxidation of Mn <sub>2</sub> (2,5-dioxidoterephthalate) (Mn-MOF-74). <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 3334-7	16.4	69
91	Record-Setting Sorbents for Reversible Water Uptake by Systematic Anion Exchanges in Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 13858-13866	16.4	67
90	Photon energy storage materials with high energy densities based on diacetylene- $\pi$ -zobenzene derivatives. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 16157-16165	13	62
89	High temperature ferromagnetism in $\pi$ -conjugated two-dimensional metal-organic frameworks. <i>Chemical Science</i> , <b>2017</b> , 8, 2859-2867	9.4	61
88	Solvent-dependent cation exchange in metal-organic frameworks. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 6871-4	4.8	60
87	The Organic Secondary Building Unit: Strong Intermolecular $\pi$ -Interactions Define Topology in MIT-25, a Mesoporous MOF with Proton-Replete Channels. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 3619-3622	16.4	59
86	Highly Stereoselective Heterogeneous Diene Polymerization by Co-MFU-4l: A Single-Site Catalyst Prepared by Cation Exchange. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 12664-12669	16.4	57
85	Charge Transfer or J-Coupling? Assignment of an Unexpected Red-Shifted Absorption Band in a Naphthalenediimide-Based Metal-Organic Framework. <i>Journal of Physical Chemistry Letters</i> , <b>2013</b> , 4, 453-8	6.4	55

84	A Structural Mimic of Carbonic Anhydrase in a Metal-Organic Framework. <i>Chem</i> , <b>2018</b> , 4, 2894-2901	16.2	53
83	Stabilized Vanadium Catalyst for Olefin Polymerization by Site Isolation in a Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 8135-8139	16.4	51
82	Selective Vapor Pressure Dependent Proton Transport in a Metal-Organic Framework with Two Distinct Hydrophilic Pores. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 2016-2019	16.4	51
81	Observation of Cu <sup>2+</sup> -H <sub>2</sub> Interactions in a Fully Desolvated Sodalite-Type Metal-Organic Framework. <i>Angewandte Chemie</i> , <b>2007</b> , 119, 1441-1444	3.6	51
80	Chemiresistive Sensing of Ambient CO by an Autogenously Hydrated Cu(hexaiminobenzene) Framework. <i>ACS Central Science</i> , <b>2019</b> , 5, 1425-1431	16.8	50
79	On the Mechanism of MOF-5 Formation under Cathodic Bias. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 3203-3206	9.6	50
78	Triphenylene-Bridged Trinuclear Complexes of Cu: Models for Spin Interactions in Two-Dimensional Electrically Conductive Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 10475-10480	16.4	48
77	Highly Selective Heterogeneous Ethylene Dimerization with a Scalable and Chemically Robust MOF Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 6654-6661	8.3	47
76	Precise control of pore hydrophilicity enabled by post-synthetic cation exchange in metal-organic frameworks. <i>Chemical Science</i> , <b>2018</b> , 9, 3856-3859	9.4	46
75	Tunable Metal-Organic Frameworks Enable High-Efficiency Cascaded Adsorption Heat Pumps. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 17591-17596	16.4	46
74	Selective Dimerization of Propylene with Ni-MFU-4l. <i>Organometallics</i> , <b>2017</b> , 36, 1681-1683	3.8	45
73	First-principles design of a half-filled flat band of the kagome lattice in two-dimensional metal-organic frameworks. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	44
72	Neutron Scattering and Spectroscopic Studies of Hydrogen Adsorption in Cr <sub>3</sub> (BTC) <sub>2</sub> Metal-Organic Framework with Exposed Cr <sup>2+</sup> Sites. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 8414-8421	3.8	43
71	Hydrogen bonding structure of confined water templated by a metal-organic framework with open metal sites. <i>Nature Communications</i> , <b>2019</b> , 10, 4771	17.4	42
70	Facile Deposition of Multicolored Electrochromic Metal-Organic Framework Thin Films. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 13619-13623	3.6	42
69	Solid-State Redox Switching of Magnetic Exchange and Electronic Conductivity in a Benzoquinoid-Bridged Mn(II) Chain Compound. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 6583-6590	16.4	42
68	Quantification of Site-Specific Cation Exchange in Metal-Organic Frameworks Using Multi-Wavelength Anomalous X-ray Dispersion. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 2998-3002	9.6	40
67	Bioinspired chemistry at MOF secondary building units. <i>Chemical Science</i> , <b>2020</b> , 11, 1728-1737	9.4	39

66	Heterogeneous Epoxide Carbonylation by Cooperative Ion-Pair Catalysis in Co(CO)-Incorporated Cr-MIL-101. <i>ACS Central Science</i> , <b>2017</b> , 3, 444-448	16.8	38
65	Continuous-Flow Production of Succinic Anhydrides via Catalytic $\beta$ -Lactone Carbonylation by Co(CO) <sub>2</sub> Cr-MIL-101. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 10669-10672	16.4	37
64	Metal- and covalent-organic frameworks as solid-state electrolytes for metal-ion batteries. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2019</b> , 377, 20180225	3.2	34
63	Reversible Metalation and Catalysis with a Scorpionate-like Metallo-ligand in a Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 17394-17398	16.4	34
62	Conetronics in 2D metal-organic frameworks: double/half Dirac cones and quantum anomalous Hall effect. <i>2D Materials</i> , <b>2017</b> , 4, 015015	5.9	31
61	High-Capacitance Pseudocapacitors from Li Ion Intercalation in Nonporous, Electrically Conductive 2D Coordination Polymers. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 2285-2292	16.4	31
60	Activation of Methyltrioxorhenium for Olefin Metathesis in a Zirconium-Based Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 6956-6960	16.4	27
59	Metal-organic frameworks for electronics and photonics. <i>MRS Bulletin</i> , <b>2016</b> , 41, 854-857	3.2	27
58	Thermodynamics of solvent interaction with the metal-organic framework MOF-5. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 1158-62	3.6	26
57	Toward New 2D Zirconium-Based Metal-Organic Frameworks: Synthesis, Structures, and Electronic Properties. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 97-104	9.6	25
56	Waterproof molecular monolayers stabilize 2D materials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 20844-20849	11.5	24
55	Thermodynamic parameters of cation exchange in MOF-5 and MFU-4L. <i>Chemical Communications</i> , <b>2015</b> , 51, 11780-2	5.8	24
54	Electrical Conductivity in a Porous, Cubic Rare-Earth Catecholate. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 6920-6924	16.4	24
53	Novel Topology in Semiconducting Tetrathiafulvalene Lanthanide Metal-Organic Frameworks. <i>Israel Journal of Chemistry</i> , <b>2018</b> , 58, 1119-1122	3.4	24
52	Simultaneous interlayer and intralayer space control in two-dimensional metal-organic frameworks for acetylene/ethylene separation. <i>Nature Communications</i> , <b>2020</b> , 11, 6259	17.4	23
51	Synthesis and characterization of the cubic coordination cluster (H3IBT=4,5-bis(tetrazol-5-yl)imidazole). <i>Journal of Molecular Structure</i> , <b>2008</b> , 890, 139-143	3.4	23
50	Cerium(IV) Enhances the Catalytic Oxidation Activity of Single-Site Cu Active Sites in MOFs. <i>ACS Catalysis</i> , <b>2020</b> , 10, 7820-7825	13.1	22
49	Metal-Organic Framework-Derived Guerbet Catalyst Effectively Differentiates between Ethanol and Butanol. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 17477-17481	16.4	20

48	When the Solvent Locks the Cage: Theoretical Insight into the Transmetalation of MOF-5 Lattices and Its Kinetic Limitations. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 3422-3429	9.6	18
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