

# Mircea Dinca

## 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.

173  
papers

28,685  
citations

77  
h-index

169  
g-index

197  
ext. papers

32,340  
ext. citations

13.9  
avg, IF

7.91  
L-index

#	Paper	IF	Citations
173	Isolation of a Side-On V(III)-(EO) through the Intermediacy of a Low-Valent V(II) in a Metal-Organic Framework. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 18205-18210	5.1	1
172	Ultrathin, High-Aspect Ratio, and Free-Standing Magnetic Nanowires by Exfoliation of Ferromagnetic Quasi-One-Dimensional van der Waals Lattices. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 19551-19558	16.4	2
171	Spectroscopic Evidence of Hyponitrite Radical Intermediate in NO Disproportionation at a MOF-Supported Mononuclear Copper Site. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 7924-7929	3.6	0
170	Accelerated Synthesis of a Ni <sub>2</sub> Cl <sub>2</sub> (BTDD) Metal-Organic Framework in a Continuous Flow Reactor for Atmospheric Water Capture. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 3996-4003	8.3	11
169	MOF-Derived RuCo Catalyzes the Formation of a Plasticizer Alcohol from Renewable Precursors. <i>ACS Catalysis</i> , <b>2021</b> , 11, 8521-8526	13.1	1
168	Ammonia Capture via an Unconventional Reversible Guest-Induced Metal-Linker Bond Dynamics in a Highly Stable Metal-Organic Framework. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 6186-6192	9.6	10
167	Der derzeitige Stand von MOF- und COF-Anwendungen. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 24174	3.6	4
166	Complexes of Platinum Group Metals with a Conformationally Locked Scorpionate in a Metal-Organic Framework: An Unusually Close Apical Interaction of Palladium(II). <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 11764-11774	5.1	
165	Atomically precise single-crystal structures of electrically conducting 2D metal-organic frameworks. <i>Nature Materials</i> , <b>2021</b> , 20, 222-228	27	104
164	Large Single Crystals of Two-Dimensional $\pi$ -Conjugated Metal-Organic Frameworks via Biphasic Solution-Solid Growth. <i>ACS Central Science</i> , <b>2021</b> , 7, 104-109	16.8	16
163	Thermal Cycling of a MOF-Based NO Disproportionation Catalyst. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 681-686	16.4	18
162	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
161	Spectroscopic Evidence of Hyponitrite Radical Intermediate in NO Disproportionation at a MOF-Supported Mononuclear Copper Site. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 7845-7850	16.4	3
160	The Current Status of MOF and COF Applications. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 23975-24001	16.4	75
159	Low-Temperature H <sub>2</sub> S/CO <sub>2</sub> /CH <sub>4</sub> Separation in Mixed-Matrix Membranes Containing MFU-4. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 6825-6831	9.6	4
158	Redox Ladder of Ni <sup>3+</sup> Complexes with Closed-Shell, Mono-, and Diradical Triphenylene Units: Molecular Models for Conductive 2D MOFs. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 23977	3.6	0
157	Redox Ladder of Ni Complexes with Closed-Shell, Mono-, and Diradical Triphenylene Units: Molecular Models for Conductive 2D MOFs. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 23784-23789	16.4	4

156	Divergent Adsorption Behavior Controlled by Primary Coordination Sphere Anions in the Metal-Organic Framework NiXBTDD. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 16343-16347	16.4	3
155	Dual-Ion Intercalation and High Volumetric Capacitance in a Two-Dimensional Non-Porous Coordination Polymer. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> ,	16.4	5
154	Colloidal nano-MOFs nucleate and stabilize ultra-small quantum dots of lead bromide perovskites. <i>Chemical Science</i> , <b>2021</b> , 12, 6129-6135	9.4	4
153	Why conductivity is not always king - physical properties governing the capacitance of 2D metal-organic framework-based EDLC supercapacitor electrodes: a Ni(HITP) case study. <i>Faraday Discussions</i> , <b>2021</b> , 231, 298-304	3.6	1
152	Radical PolyMOFs: A Role for Ligand Dispersity in Enabling Crystallinity. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 9508-9514	9.6	0
151	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
150	Röntgenbild: Observation of Ion Electrosorption in Metal-Organic Framework Micropores with In Operando Small-Angle Neutron Scattering (Angew. Chem. 24/2020). <i>Angewandte Chemie</i> , <b>2020</b> , 132, 9868-9868	3.6	
149	Isorecticular Linker Substitution in Conductive Metal-Organic Frameworks with Through-Space Transport Pathways. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 19791-19794	3.6	1
148	A Three-Dimensional Porous Organic Semiconductor Based on Fully sp <sup>2</sup> -Hybridized Graphitic Polymer. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 15166-15170	16.4	14
147	A Three-Dimensional Porous Organic Semiconductor Based on Fully sp <sup>2</sup> -Hybridized Graphitic Polymer. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 15278-15282	3.6	7
146	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
145	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
144	Observation of Ion Electrosorption in Metal-Organic Framework Micropores with In Operando Small-Angle Neutron Scattering. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 9773-9779	16.4	4
143	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
142	Observation of Ion Electrosorption in Metal-Organic Framework Micropores with In Operando Small-Angle Neutron Scattering. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 9860-9866	3.6	4
141	Gas-Phase Ethylene Polymerization by Single-Site Cr Centers in a Metal-Organic Framework. <i>ACS Catalysis</i> , <b>2020</b> , 10, 3864-3870	13.1	8
140	Interdigitated conducting tetrathiafulvalene-based coordination networks. <i>Chemical Communications</i> , <b>2020</b> , 56, 2407-2410	5.8	8
139	Bioinspired chemistry at MOF secondary building units. <i>Chemical Science</i> , <b>2020</b> , 11, 1728-1737	9.4	39

138	Electrically Conductive Metal-Organic Frameworks. <i>Chemical Reviews</i> , <b>2020</b> , 120, 8536-8580	68.1	450
137	Isorecticular Linker Substitution in Conductive Metal-Organic Frameworks with Through-Space Transport Pathways. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 19623-19626	16.4	10
136	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
135	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
134	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
133	Aperiodic metal-organic frameworks. <i>Chemical Science</i> , <b>2020</b> , 11, 11094-11103	9.4	5
132	Structural Characterization of a High-Nuclearity Niobium(V) Carboxylate Cluster Based on Pivalic Acid. <i>Helvetica Chimica Acta</i> , <b>2020</b> , 103, e2000186	2	1
131	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
130	Selective Oxidation of C-H Bonds through a Manganese(III) Hydroperoxo in Mn-Exchanged CFA-1. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 13221-13228	5.1	10
129	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
128	Organometallic Chemistry within Metal-Organic Frameworks. <i>Organometallics</i> , <b>2019</b> , 38, 3389-3391	3.8	5
127	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
126	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
125	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
124	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, 20180223	3	34
123	? Divergent coordination behavior of early-transition metals towards MOF-5. <i>Chemical Science</i> , <b>2019</b> , 10, 5906-5910	9.4	11
122	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
121	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

120	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
119	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
118	Computational Exploration of NO Single-Site Disproportionation on Fe-MOF-5. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 8875-8885	9.6	11
117	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
116	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
115	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
114	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
113	Stabilized Vanadium Catalyst for Olefin Polymerization by Site Isolation in a Metal-Organic Framework. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 8267-8271	3.6	6
112	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
111	Tricking Inert Metals into Water-Absorbing MOFs. <i>Joule</i> , <b>2018</b> , 2, 18-20	27.8	4
110	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
109	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
108	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
107	Novel Topology in Semiconducting Tetrathiafulvalene Lanthanide Metal-Organic Frameworks. <i>Israel Journal of Chemistry</i> , <b>2018</b> , 58, 1119-1122	3.4	24
106	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
105	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
104	Selective Catalytic Olefin Epoxidation with MnII-Exchanged MOF-5. <i>ACS Catalysis</i> , <b>2018</b> , 8, 596-601	13.1	86
103	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

102	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
101	Molecular Niobium Precursors in Various Oxidation States: An XAS Case Study. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 13998-14004	5.1	6
100	A Structural Mimic of Carbonic Anhydrase in a Metal-Organic Framework. <i>CheM</i> , <b>2018</b> , 4, 2894-2901	16.2	53
99	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
98	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
97	Coordination-induced reversible electrical conductivity variation in the MOF-74 analogue Fe(DSBDC). <i>Dalton Transactions</i> , <b>2018</b> , 47, 11739-11743	4.3	16
96	Modular O electroreduction activity in triphenylene-based metal-organic frameworks. <i>Chemical Science</i> , <b>2018</b> , 9, 6286-6291	9.4	79
95	Dynamic structural flexibility of Fe-MOF-5 evidenced by <sup>57</sup> Fe Mössbauer spectroscopy. <i>Inorganic Chemistry Frontiers</i> , <b>2017</b> , 4, 782-788	6.8	9
94	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
93	The Organic Secondary Building Unit: Strong Intermolecular 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
92	High temperature ferromagnetism in $\pi$ -conjugated two-dimensional metal-organic frameworks. <i>Chemical Science</i> , <b>2017</b> , 8, 2859-2867	9.4	61
91	Pt Electrodes Enable the Formation of ED Centers in MOF-5 from Multiple Oxygen Sources. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 33528-33532	9.5	9
90	Is iron unique in promoting electrical conductivity in MOFs?. <i>Chemical Science</i> , <b>2017</b> , 8, 4450-4457	9.4	106
89	Rapid and precise determination of zero-field splittings by terahertz time-domain electron paramagnetic resonance spectroscopy. <i>Chemical Science</i> , <b>2017</b> , 8, 7312-7323	9.4	14
88	Selective Dimerization of Propylene with Ni-MFU-4l. <i>Organometallics</i> , <b>2017</b> , 36, 1681-1683	3.8	45
87	Grand Challenges and Future Opportunities for Metal-Organic Frameworks. <i>ACS Central Science</i> , <b>2017</b> , 3, 554-563	16.8	236
86	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
85	Moisture Farming with Metal-Organic Frameworks. <i>CheM</i> , <b>2017</b> , 2, 757-759	16.2	4

84	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
83	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
82	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
81	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
80	New directions in gas sorption and separation with MOFs: general discussion. <i>Faraday Discussions</i> , <b>2017</b> , 201, 175-194	3.6	6
79	Catalysis in MOFs: general discussion. <i>Faraday Discussions</i> , <b>2017</b> , 201, 369-394	3.6	12
78	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
77	Signature of Metallic Behavior in the Metal-Organic Frameworks M(hexaiminobenzene) (M = Ni, Cu). <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 13608-13611	16.4	214
76	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
75	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
74	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
73	Conductive MOF electrodes for stable supercapacitors with high areal capacitance. <i>Nature Materials</i> , <b>2017</b> , 16, 220-224	27	1287
72	Metal-Organic Frameworks as Active Materials in Electronic Sensor Devices. <i>Sensors</i> , <b>2017</b> , 17,	3.8	166
71	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
70	Photon energy storage materials with high energy densities based on diacetylene- $\beta$ -zobenzene derivatives. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 16157-16165	13	62
69	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
68	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
67	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

66	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
65	Elektrisch leitfähige poröse Metall-organische Gerüstverbindungen. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 3628-3642	3.6	152
64	Frontier Orbital Engineering of Metal-Organic Frameworks with Extended Inorganic Connectivity: Porous Alkaline-Earth Oxides. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 7265-9	5.1	11
63	Electrically Conductive Porous Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 3566-79	16.4	1104
62	Selective Dimerization of Ethylene to 1-Butene with a Porous Catalyst. <i>ACS Central Science</i> , <b>2016</b> , 2, 148-538	5.8	160
61	On the electrochemical deposition of metal-organic frameworks. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 3914-3925	13	88
60	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
59	Metal-organic frameworks for electronics and photonics. <i>MRS Bulletin</i> , <b>2016</b> , 41, 854-857	3.2	27
58	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, 6583-90	16.4	42
57	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
56	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
55	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
54	Thermodynamic parameters of cation exchange in MOF-5 and MFU-4l. <i>Chemical Communications</i> , <b>2015</b> , 51, 11780-2	5.8	24
53	Million-Fold Electrical Conductivity Enhancement in Fe <sub>2</sub> (DEBDC) versus Mn <sub>2</sub> (DEBDC) (E = S, O). <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 6164-7	16.4	222
52	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
51	On the Mechanism of MOF-5 Formation under Cathodic Bias. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 3203-3206	9.6	50
50	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
49	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



48	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
47	Cu(hexaiminotriphenylene)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
46	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
45	Solvent-dependent cation exchange in metal-organic frameworks. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 6871-4	4.8	60
44	High electrical conductivity in Ni(2,3,6,7,10,11-hexamino-triphenylene) a semiconducting metal-organic graphene analogue. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 8859-62	16.4	691
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42	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
41	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
40	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
39	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
38	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
37	Facile Deposition of Multicolored Electrochromic Metal-Organic Framework Thin Films. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 13619-13623	3.6	42
36	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
35	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
34	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
33	Mn <sub>2</sub> (2,5-disulfhydrylbenzene-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
32	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
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30	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
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24	Reductive electrosynthesis of crystalline metal-organic frameworks. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 12926-9	16.4	184
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2	Efficient and Tunable One-Dimensional Charge Transport in Layered Lanthanide Metal-Organic Frameworks		2
1	How Reproducible are Surface Areas Calculated from the BET Equation?. <i>Advanced Materials</i> , 2201502	24	12