Mircea Dinca

List of Publications by Year
in descending order

184 papers	36,386 citations	4955 84 h-index	3321 184 g-index
197 all docs	197 docs citations	197 times ranked	25106 citing authors

#	Article	IF	Citations
1	Hydrogen storage in metalâ€“organic frameworks. Chemical Society Reviews, 2009, 38, 1294.	18.7	4,136
2	Conductive MOF electrodes for stable supercapacitors with high areal capacitance. Nature Materials, 2017, 16, 220-224.	13.3	1,805
3	Electrically Conductive Porous Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2016, 55, 3566-3579.	7.2	1,444
4	Hydrogen Storage in Microporous Metalâ€“Organic Frameworks with Exposed Metal Sites. Angewandte Chemie - International Edition, 2008, 47, 6766-6779.	7.2	1,086
5	Hydrogen Storage in a Microporous Metalâˆ’Organic Framework with Exposed Mn2+Coordination Sites. Journal of the American Chemical Society, 2006, 128, 16876-16883.	6.6	1,081
6	Electrically Conductive Metalâ€“Organic Frameworks. Chemical Reviews, 2020, 120, 8536-8580.	23.0	989
7	High Electrical Conductivity in Ni₃(2,3,6,7,10,11-hexaiminotriphenylene)₂, a Semiconducting Metalâ€“Organic Graphene Analogue. Journal of the American Chemical Society, 2014, 136, 8859-8862.	6.6	893
8	Size-Selective Lewis Acid Catalysis in a Microporous Metal-Organic Framework with Exposed Mn²⁺ Coordination Sites. Journal of the American Chemical Society, 2008, 130, 5854-5855.	6.6	804
9	Cu₃(hexaiminotriphenylene)₂: An Electrically Conductive 2D Metalâ€“Organic Framework for Chemiresistive Sensing. Angewandte Chemie - International Edition, 2015, 54, 4349-4352.	7.2	765
10	Strong H2Binding and Selective Gas Adsorption within the Microporous Coordination Solid Mg3(O2C-C10H6-CO2)3. Journal of the American Chemical Society, 2005, 127, 9376-9377.	6.6	727
11	Nickel-borate oxygen-evolving catalyst that functions under benign conditions. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 10337-10341.	3.3	709
12	Structure and Valency of a Cobaltâˆ’Phosphate Water Oxidation Catalyst Determined by in Situ X-ray Spectroscopy. Journal of the American Chemical Society, 2010, 132, 13692-13701.	6.6	649
13	Turn-On Fluorescence in Tetraphenylethylene-Based Metalâ€“Organic Frameworks: An Alternative to Aggregation-Induced Emission. Journal of the American Chemical Society, 2011, 133, 20126-20129.	6.6	623
14	Chemiresistive Sensor Arrays from Conductive 2D Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2015, 137, 13780-13783.	6.6	615
15	Microporous Metalâˆ’Organic Frameworks Incorporating 1,4-Benzeneditetrazolate:Â Syntheses, Structures, and Hydrogen Storage Properties. Journal of the American Chemical Society, 2006, 128, 8904-8913.	6.6	613
16	Electrolyte-Dependent Electrosynthesis and Activity of Cobalt-Based Water Oxidation Catalysts. Journal of the American Chemical Society, 2009, 131, 2615-2620.	6.6	590
17	Electrochemical oxygen reduction catalysed by Ni3(hexaiminotriphenylene)2. Nature Communications, 2016, 7, 10942.	5.8	577
18	EPR Evidence for Co(IV) Species Produced During Water Oxidation at Neutral pH. Journal of the American Chemical Society, 2010, 132, 6882-6883.	6.6	488

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19	High-Enthalpy Hydrogen Adsorption in Cation-Exchanged Variants of the Microporous Metalâˆ’Organic Framework Mn₃[(Mn₄Cl)₃(BTT)₈(CH₃OH)₁₀]₂. Journal of the American Chemical Society, 2007, 129, 11172-11176.	6.6	470
20	Cation exchange at the secondary building units of metalâ€“organic frameworks. Chemical Society Reviews, 2014, 43, 5456-5467.	18.7	462
21	The Current Status of MOF and COF Applications. Angewandte Chemie - International Edition, 2021, 60, 23975-24001.	7.2	450
22	High Charge Mobility in a Tetrathiafulvalene-Based Microporous Metalâ€“Organic Framework. Journal of the American Chemical Society, 2012, 134, 12932-12935.	6.6	436
23	Selective Turn-On Ammonia Sensing Enabled by High-Temperature Fluorescence in Metalâ€“Organic Frameworks with Open Metal Sites. Journal of the American Chemical Society, 2013, 135, 13326-13329.	6.6	409
24	Molecular understanding of charge storage and charging dynamics in supercapacitors with MOF electrodes and ionic liquid electrolytes. Nature Materials, 2020, 19, 552-558.	13.3	405
25	Broadly Hysteretic H₂ Adsorption in the Microporous Metalâˆ’Organic Framework Co(1,4-benzenedipyrazolate). Journal of the American Chemical Society, 2008, 130, 7848-7850.	6.6	396
26	Observation of Cu2+â€“H2 Interactions in a Fully Desolvated Sodalite-Type Metalâ€“Organic Framework. Angewandte Chemie - International Edition, 2007, 46, 1419-1422.	7.2	395
27	Ti³⁺-, V^{2+/3+}-, Cr^{2+/3+}-, Mn²⁺-, and Fe²⁺-Substituted MOF-5 and Redox Reactivity in Cr- and Fe-MOF-5. Journal of the American Chemical Society, 2013, 135, 12886-12891.	6.6	374
28	Phenyl Ring Dynamics in a Tetraphenylethylene-Bridged Metalâ€“Organic Framework: Implications for the Mechanism of Aggregation-Induced Emission. Journal of the American Chemical Society, 2012, 134, 15061-15070.	6.6	368
29	Cation-Dependent Intrinsic Electrical Conductivity in Isostructural Tetrathiafulvalene-Based Microporous Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2015, 137, 1774-1777.	6.6	360
30	Signature of Metallic Behavior in the Metalâ€“Organic Frameworks M₃(hexaiminobenzene)₂ (M = Ni, Cu). Journal of the American Chemical Society, 2017, 139, 13608-13611.	6.6	324
31	Grand Challenges and Future Opportunities for Metalâ€“Organic Frameworks. ACS Central Science, 2017, 3, 554-563.	5.3	311
32	Highly-Selective and Reversible O₂ Binding in Cr₃(1,3,5-benzenetricarboxylate)₂. Journal of the American Chemical Society, 2010, 132, 7856-7857.	6.6	307
33	Thiophene-based covalent organic frameworks. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4923-4928.	3.3	291
34	Mn₂(2,5-disulfhydrylbenzene-1,4-dicarboxylate): A Microporous Metalâ€“Organic Framework with Infinite (âˆ’Mnâ€“Sâˆ’)_{âˆž} Chains and High Intrinsic Charge Mobility. Journal of the American Chemical Society, 2013, 135, 8185-8188.	6.6	291
35	Million-Fold Electrical Conductivity Enhancement in Fe₂(DEBDC) versus Mn₂(DEBDC) (E = S, O). Journal of the American Chemical Society, 2015, 137, 6164-6167.	6.6	291
36	Record Atmospheric Fresh Water Capture and Heat Transfer with a Material Operating at the Water Uptake Reversibility Limit. ACS Central Science, 2017, 3, 668-672.	5.3	275

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37	Facile Deposition of Multicolored Electrochromic Metalâ€“Organic Framework Thin Films. Angewandte Chemie - International Edition, 2013, 52, 13377-13381.	7.2	266
38	Controlled Gas Uptake in Metalâ€“Organic Frameworks with Record Ammonia Sorption. Journal of the American Chemical Society, 2018, 140, 3461-3466.	6.6	250
39	Single-Ion Li⁺, Na⁺, and Mg²⁺ Solid Electrolytes Supported by a Mesoporous Anionic Cuâ€“Azolate Metalâ€“Organic Framework. Journal of the American Chemical Society, 2017, 139, 13260-13263.	6.6	239
40	Atomically precise single-crystal structures of electrically conducting 2D metalâ€“organic frameworks. Nature Materials, 2021, 20, 222-228.	13.3	239
41	Reductive Electrosynthesis of Crystalline Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2011, 133, 12926-12929.	6.6	230
42	High and Reversible Ammonia Uptake in Mesoporous Azolate Metalâ€“Organic Frameworks with Open Mn, Co, and Ni Sites. Journal of the American Chemical Society, 2016, 138, 9401-9404.	6.6	229
43	Measuring and Reporting Electrical Conductivity in Metalâ€“Organic Frameworks: Cd₂(TTFTB) as a Case Study. Journal of the American Chemical Society, 2016, 138, 14772-14782.	6.6	221
44	Kinetic stability of metalâ€“organic frameworks for corrosive and coordinating gas capture. Nature Reviews Materials, 2019, 4, 708-725.	23.3	214
45	Efficient and tunable one-dimensional charge transport in layered lanthanide metalâ€“organic frameworks. Nature Chemistry, 2020, 12, 131-136.	6.6	214
46	Metalâ€“Organic Frameworks as Active Materials in Electronic Sensor Devices. Sensors, 2017, 17, 1108.	2.1	212
47	Single Crystals of Electrically Conductive Two-Dimensional Metalâ€“Organic Frameworks: Structural and Electrical Transport Properties. ACS Central Science, 2019, 5, 1959-1964.	5.3	211
48	Tunable Mixed-Valence Doping toward Record Electrical Conductivity in a Three-Dimensional Metalâ€“Organic Framework. Journal of the American Chemical Society, 2018, 140, 7411-7414.	6.6	204
49	2D Conductive Iron-Quinoid Magnets Ordering up to <i>T</i>_c = 105 K via Heterogenous Redox Chemistry. Journal of the American Chemical Society, 2017, 139, 4175-4184.	6.6	196
50	Expanded Sodalite-Type Metalâˆ’Organic Frameworks:â€‰ Increased Stability and H₂ Adsorption through Ligand-Directed Catenation. Inorganic Chemistry, 2008, 47, 11-13.	1.9	192
51	Continuous Partial Oxidation of Methane to Methanol Catalyzed by Diffusion-Paired Copper Dimers in Copper-Exchanged Zeolites. Journal of the American Chemical Society, 2019, 141, 11641-11650.	6.6	191
52	Investigation of the synthesis, activation, and isosteric heats of CO2 adsorption of the isostructural series of metalâ€“organic frameworks M3(BTC)2 (M = Cr, Fe, Ni, Cu, Mo, Ru). Dalton Transactions, 2012, 41, 7931.	1.6	184
53	Hydrogenstorage in water-stable metalâ€“organic frameworks incorporating 1,3- and 1,4-benzenedipyrazolate. Energy and Environmental Science, 2010, 3, 117-123.	15.6	182
54	Elektrisch leitfÃhige porÃ¶se Metallâ€organische GerÃ¼stverbindungen. Angewandte Chemie, 2016, 128, 3628-3642.	1.6	180

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55	Selective Dimerization of Ethylene to 1-Butene with a Porous Catalyst. ACS Central Science, 2016, 2, 148-153.	5.3	180
56	Conformational Locking by Design: Relating Strain Energy with Luminescence and Stability in Rigid Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2012, 134, 19596-19599.	6.6	176
57	Is iron unique in promoting electrical conductivity in MOFs?. Chemical Science, 2017, 8, 4450-4457.	3.7	176
58	Continuous Electrical Conductivity Variation in M₃(Hexaiminotriphenylene)₂ (M = Co, Ni, Cu) MOF Alloys. Journal of the American Chemical Society, 2020, 142, 12367-12373.	6.6	169
59	High electrical conductivity and carrier mobility in oCVD PEDOT thin films by engineered crystallization and acid treatment. Science Advances, 2018, 4, eaat5780.	4.7	167
60	Mechanistic Evidence for Ligand-Centered Electrocatalytic Oxygen Reduction with the Conductive MOF Ni₃(hexaiminotriphenylene)₂. ACS Catalysis, 2017, 7, 7726-7731.	5.5	164
61	A Microporous and Naturally Nanostructured Thermoelectric Metal-Organic Framework with Ultralow Thermal Conductivity. Joule, 2017, 1, 168-177.	11.7	159
62	Selective formation of biphasic thin films of metalâ€“organic frameworks by potential-controlled cathodic electrodeposition. Chemical Science, 2014, 5, 107-111.	3.7	158
63	Single-Site Heterogeneous Catalysts for Olefin Polymerization Enabled by Cation Exchange in a Metal-Organic Framework. Journal of the American Chemical Society, 2016, 138, 10232-10237.	6.6	153
64	Lattice-imposed geometry in metalâ€“organic frameworks: lacunary Zn4O clusters in MOF-5 serve as tripodal chelating ligands for Ni2+. Chemical Science, 2012, 3, 2110.	3.7	152
65	Transparent-to-Dark Electrochromic Behavior in Naphthalene-Diimide-Based Mesoporous MOF-74 Analogs. CheM, 2016, 1, 264-272.	5.8	145
66	Impact of Metal and Anion Substitutions on the Hydrogen Storage Properties of M-BTT Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2013, 135, 1083-1091.	6.6	139
67	High Li⁺ and Mg²⁺ Conductivity in a Cu-Azolate Metalâ€“Organic Framework. Journal of the American Chemical Society, 2019, 141, 4422-4427.	6.6	139
68	Postsynthetic tuning of hydrophilicity in pyrazolate MOFs to modulate water adsorption properties. Energy and Environmental Science, 2013, 6, 2172.	15.6	138
69	On the electrochemical deposition of metalâ€“organic frameworks. Journal of Materials Chemistry A, 2016, 4, 3914-3925.	5.2	138
70	Viewpoint on the Partial Oxidation of Methane to Methanol Using Cu- and Fe-Exchanged Zeolites. ACS Catalysis, 2018, 8, 8306-8313.	5.5	133
71	Diverse Ï€â€“Ï€ stacking motifs modulate electrical conductivity in tetrathiafulvalene-based metalâ€“organic frameworks. Chemical Science, 2019, 10, 8558-8565.	3.7	128
72	Dynamic DMF Binding in MOF-5 Enables the Formation of Metastable Cobalt-Substituted MOF-5 Analogues. ACS Central Science, 2015, 1, 252-260.	5.3	123

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73	Modular O₂ electroreduction activity in triphenylene-based metalâ€“organic frameworks. Chemical Science, 2018, 9, 6286-6291.	3.7	123
74	Mechanism of Single-Site Molecule-Like Catalytic Ethylene Dimerization in Ni-MFU-4<i>l</i>. Journal of the American Chemical Society, 2017, 139, 757-762.	6.6	122
75	Record-Setting Sorbents for Reversible Water Uptake by Systematic Anion Exchanges in Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2019, 141, 13858-13866.	6.6	118
76	Structure and Charge Control in Metalâ€“Organic Frameworks Based on the Tetrahedral Ligand Tetrakis(4â€‘tetrazolylphenyl)methane. Chemistry - A European Journal, 2008, 14, 10280-10285.	1.7	106
77	Selective Catalytic Olefin Epoxidation with Mn^{II}-Exchanged MOF-5. ACS Catalysis, 2018, 8, 596-601.	5.5	105
78	High-Capacitance Pseudocapacitors from Li⁺ Ion Intercalation in Nonporous, Electrically Conductive 2D Coordination Polymers. Journal of the American Chemical Society, 2021, 143, 2285-2292.	6.6	99
79	NO Disproportionation at a Mononuclear Site-Isolated Fe²⁺ Center in Fe²⁺-MOF-5. Journal of the American Chemical Society, 2015, 137, 7495-7501.	6.6	96
80	Reversible Capture and Release of Cl₂ and Br₂ with a Redox-Active Metalâ€“Organic Framework. Journal of the American Chemical Society, 2017, 139, 5992-5997.	6.6	95
81	Synthesis and Electrical Properties of Covalent Organic Frameworks with Heavy Chalcogens. Chemistry of Materials, 2015, 27, 5487-5490.	3.2	91
82	A Structural Mimic of Carbonic Anhydrase in a Metal-Organic Framework. CheM, 2018, 4, 2894-2901.	5.8	91
83	Ligand Redox Non-innocence in the Stoichiometric Oxidation of Mn₂(2,5-dioxidoterephthalate) (Mn-MOF-74). Journal of the American Chemical Society, 2014, 136, 3334-3337.	6.6	87
84	Photon energy storage materials with high energy densities based on diacetyleneâ€“azobenzene derivatives. Journal of Materials Chemistry A, 2016, 4, 16157-16165.	5.2	86
85	High temperature ferromagnetism in Ï€-conjugated two-dimensional metalâ€“organic frameworks. Chemical Science, 2017, 8, 2859-2867.	3.7	86
86	Hydrogen bonding structure of confined water templated by a metal-organic framework with open metal sites. Nature Communications, 2019, 10, 4771.	5.8	86
87	Simultaneous interlayer and intralayer space control in two-dimensional metalâˆ’organic frameworks for acetylene/ethylene separation. Nature Communications, 2020, 11, 6259.	5.8	85
88	How Reproducible are Surface Areas Calculated from the BET Equation?. Advanced Materials, 2022, 34, .	11.1	82
89	Chemiresistive Sensing of Ambient CO₂ by an Autogenously Hydrated Cu₃(hexaiminobenzene)₂ Framework. ACS Central Science, 2019, 5, 1425-1431.	5.3	79
90	Tunable Metalâ€“Organic Frameworks Enable High-Efficiency Cascaded Adsorption Heat Pumps. Journal of the American Chemical Society, 2018, 140, 17591-17596.	6.6	78

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91	Stabilized Vanadium Catalyst for Olefin Polymerization by Site Isolation in a Metalâ€“Organic Framework. Angewandte Chemie - International Edition, 2018, 57, 8135-8139.	7.2	73
92	First-principles design of a half-filled flat band of the kagome lattice in two-dimensional metal-organic frameworks. Physical Review B, 2016, 94, .	1.1	72
93	The Organic Secondary Building Unit: Strong Intermolecular Ï€ Interactions Define Topology in MIT-25, a Mesoporous MOF with Proton-Replete Channels. Journal of the American Chemical Society, 2017, 139, 3619-3622.	6.6	72
94	Triphenylene-Bridged Trinuclear Complexes of Cu: Models for Spin Interactions in Two-Dimensional Electrically Conductive Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2019, 141, 10475-10480.	6.6	72
95	Precise control of pore hydrophilicity enabled by post-synthetic cation exchange in metalâ€“organic frameworks. Chemical Science, 2018, 9, 3856-3859.	3.7	70
96	Solventâ€Đependent Cation Exchange in Metalâ€“Organic Frameworks. Chemistry - A European Journal, 2014, 20, 6871-6874.	1.7	66
97	Charge Transfer or J-Coupling? Assignment of an Unexpected Red-Shifted Absorption Band in a Naphthalenediimide-Based Metalâ€“Organic Framework. Journal of Physical Chemistry Letters, 2013, 4, 453-458.	2.1	65
98	Introduction: Porous Framework Chemistry. Chemical Reviews, 2020, 120, 8037-8038.	23.0	65
99	On the Mechanism of MOF-5 Formation under Cathodic Bias. Chemistry of Materials, 2015, 27, 3203-3206.	3.2	64
100	Selective Vapor Pressure Dependent Proton Transport in a Metalâ€“Organic Framework with Two Distinct Hydrophilic Pores. Journal of the American Chemical Society, 2018, 140, 2016-2019.	6.6	64
101	Metal-organic frameworks: Evolved oxygen evolution catalysts. Nature Energy, 2016, 1, .	19.8	63
102	Highly Stereoselective Heterogeneous Diene Polymerization by Co-MFU-4l: A Single-Site Catalyst Prepared by Cation Exchange. Journal of the American Chemical Society, 2017, 139, 12664-12669.	6.6	63
103	Bioinspired chemistry at MOF secondary building units. Chemical Science, 2020, 11, 1728-1737.	3.7	63
104	Highly Selective Heterogeneous Ethylene Dimerization with a Scalable and Chemically Robust MOF Catalyst. ACS Sustainable Chemistry and Engineering, 2019, 7, 6654-6661.	3.2	62
105	Selective Dimerization of Propylene with Ni-MFU-4<i>l</i>. Organometallics, 2017, 36, 1681-1683.	1.1	55
106	Electrical Conductivity in a Porous, Cubic Rare-Earth Catecholate. Journal of the American Chemical Society, 2020, 142, 6920-6924.	6.6	53
107	Heterogeneous Epoxide Carbonylation by Cooperative Ion-Pair Catalysis in Co(CO)₄^{â€“}-Incorporated Cr-MIL-101. ACS Central Science, 2017, 3, 444-448.	5.3	51
108	Metal- and covalent-organic frameworks as solid-state electrolytes for metal-ion batteries. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180225.	1.6	51

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109	Neutron Scattering and Spectroscopic Studies of Hydrogen Adsorption in Cr₃(BTC)₂â€”A Metalâˆ'Organic Framework with Exposed Cr²⁺ Sites. Journal of Physical Chemistry C, 2011, 115, 8414-8421.	1.5	50
110	Cerium(IV) Enhances the Catalytic Oxidation Activity of Single-Site Cu Active Sites in MOFs. ACS Catalysis, 2020, 10, 7820-7825.	5.5	50
111	Quantification of Site-Specific Cation Exchange in Metalâ€“Organic Frameworks Using Multi-Wavelength Anomalous X-ray Dispersion. Chemistry of Materials, 2013, 25, 2998-3002.	3.2	49
112	Reversible Metalation and Catalysis with a Scorpionate-like Metallo-ligand in a Metalâ€“Organic Framework. Journal of the American Chemical Society, 2018, 140, 17394-17398.	6.6	48
113	Solid-State Redox Switching of Magnetic Exchange and Electronic Conductivity in a Benzoquinoid-Bridged Mn^{II} Chain Compound. Journal of the American Chemical Society, 2016, 138, 6583-6590.	6.6	47
114	Continuous-Flow Production of Succinic Anhydrides via Catalytic Î²-Lactone Carbonylation by Co(CO)₄âŠ‚Cr-MIL-101. Journal of the American Chemical Society, 2018, 140, 10669-10672.	6.6	47
115	Conetronics in 2D metal-organic frameworks: double/half Dirac cones and quantum anomalous Hall effect. 2D Materials, 2017, 4, 015015.	2.0	41
116	Large Single Crystals of Two-Dimensional Ï€-Conjugated Metalâ€“Organic Frameworks via Biphasic Solution-Solid Growth. ACS Central Science, 2021, 7, 104-109.	5.3	40
117	Toward New 2D Zirconium-Based Metalâ€“Organic Frameworks: Synthesis, Structures, and Electronic Properties. Chemistry of Materials, 2020, 32, 97-104.	3.2	37
118	Activation of Methyltrioxorhenium for Olefin Metathesis in a Zirconium-Based Metalâ€“Organic Framework. Journal of the American Chemical Society, 2018, 140, 6956-6960.	6.6	36
119	Novel Topology in Semiconducting Tetrathiafulvalene Lanthanide Metalâ€Organic Frameworks. Israel Journal of Chemistry, 2018, 58, 1119-1122.	1.0	34
120	Waterproof molecular monolayers stabilize 2D materials. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 20844-20849.	3.3	32
121	Thermal Cycling of a MOF-Based NO Disproportionation Catalyst. Journal of the American Chemical Society, 2021, 143, 681-686.	6.6	32
122	Thousand-fold increase in O₂ electroreduction rates with conductive MOFs. ACS Central Science, 2022, 8, 975-982.	5.3	32
123	Metalâ€“Organic Framework-Derived Guerbet Catalyst Effectively Differentiates between Ethanol and Butanol. Journal of the American Chemical Society, 2019, 141, 17477-17481.	6.6	31
124	Thermodynamic parameters of cation exchange in MOF-5 and MFU-4l. Chemical Communications, 2015, 51, 11780-11782.	2.2	30
125	Metalâ€“organic frameworks for electronics and photonics. MRS Bulletin, 2016, 41, 854-857.	1.7	30
126	Thermodynamics of solvent interaction with the metalâ€“organic framework MOF-5. Physical Chemistry Chemical Physics, 2016, 18, 1158-1162.	1.3	30

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127	A Threeâ€Dimensional Porous Organic Semiconductor Based on Fully sp²â€Hybridized Graphitic Polymer. Angewandte Chemie - International Edition, 2020, 59, 15166-15170.	7.2	29
128	Coordination-induced reversible electrical conductivity variation in the MOF-74 analogue Fe₂(DSBDC). Dalton Transactions, 2018, 47, 11739-11743.	1.6	27
129	Accelerated Synthesis of a Ni₂Cl₂(BTDD) Metalâ€“Organic Framework in a Continuous Flow Reactor for Atmospheric Water Capture. ACS Sustainable Chemistry and Engineering, 2021, 9, 3996-4003.	3.2	26
130	Ammonia Capture via an Unconventional Reversible Guest-Induced Metal-Linker Bond Dynamics in a Highly Stable Metalâ€“Organic Framework. Chemistry of Materials, 2021, 33, 6186-6192.	3.2	26
131	Oxidative Dehydrogenation of Propane in the Realm of Metalâ€“Organic Frameworks. ACS Central Science, 2017, 3, 10-12.	5.3	24
132	Dimensionality Modulates Electrical Conductivity in Compositionally Constant One-, Two-, and Three-Dimensional Frameworks. Journal of the American Chemical Society, 2022, 144, 5583-5593.	6.6	24
133	Synthesis and characterization of the cubic coordination cluster (H3IBT=4,5-bis(tetrazol-5-yl)imidazole). Journal of Molecular Structure, 2008, 890, 139-143.	1.8	23
134	When the Solvent Locks the Cage: Theoretical Insight into the Transmetalation of MOF-5 Lattices and Its Kinetic Limitations. Chemistry of Materials, 2015, 27, 3422-3429.	3.2	23
135	Isoreticular Linker Substitution in Conductive Metalâ€“Organic Frameworks with Throughâ€Space Transport Pathways. Angewandte Chemie - International Edition, 2020, 59, 19623-19626.	7.2	22
136	Rapid and precise determination of zero-field splittings by terahertz time-domain electron paramagnetic resonance spectroscopy. Chemical Science, 2017, 8, 7312-7323.	3.7	20
137	Computational Exploration of NO Single-Site Disproportionation on Fe-MOF-5. Chemistry of Materials, 2019, 31, 8875-8885.	3.2	20
138	Ultrathin, High-Aspect Ratio, and Free-Standing Magnetic Nanowires by Exfoliation of Ferromagnetic Quasi-One-Dimensional van der Waals Lattices. Journal of the American Chemical Society, 2021, 143, 19551-19558.	6.6	19
139	Der derzeitige Stand von MOFâ€•und COFâ€Anwendungen. Angewandte Chemie, 2021, 133, 24174-24202.	1.6	18
140	Teaching Metal-Organic Frameworks to Conduct: Ion and Electron Transport in Metal-Organic Frameworks. Annual Review of Materials Research, 2022, 52, 103-128.	4.3	18
141	Gas-Phase Ethylene Polymerization by Single-Site Cr Centers in a Metalâ€“Organic Framework. ACS Catalysis, 2020, 10, 3864-3870.	5.5	17
142	Redox Ladder of Ni₃ Complexes with Closedâ€Shell, Monoâ€, and Diradical Triphenylene Units: Molecular Models for Conductive 2D MOFs. Angewandte Chemie - International Edition, 2021, 60, 23784-23789.	7.2	17
143	Dualâ€Ion Intercalation and High Volumetric Capacitance in a Twoâ€Dimensional Nonâ€Porous Coordination Polymer. Angewandte Chemie - International Edition, 2021, 60, 27119-27125.	7.2	17
144	Dynamic structural flexibility of Fe-MOF-5 evidenced by ⁵⁷Fe MÃ¶ssbauer spectroscopy. Inorganic Chemistry Frontiers, 2017, 4, 782-788.	3.0	15

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145	Selective Oxidation of Câ€“H Bonds through a Manganese(III) Hydroperoxo in Mn^{II}-Exchanged CFA-1. Inorganic Chemistry, 2019, 58, 13221-13228.	1.9	15
146	<i>Quo vadis niobium</i>? Divergent coordination behavior of early-transition metals towards MOF-5. Chemical Science, 2019, 10, 5906-5910.	3.7	15
147	Observation of Ion Electrosorption in Metalâ€“Organic Framework Micropores with In Operando Smallâ€Angle Neutron Scattering. Angewandte Chemie - International Edition, 2020, 59, 9773-9779.	7.2	15
148	Divergent Adsorption Behavior Controlled by Primary Coordination Sphere Anions in the Metalâ€“Organic Framework Ni₂X₂BTDD. Journal of the American Chemical Society, 2021, 143, 16343-16347.	6.6	15
149	Catalysis in MOFs: general discussion. Faraday Discussions, 2017, 201, 369-394.	1.6	14
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