Timur Islamoglu

List of Publications by Citations

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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.

130 papers	6,953 citations	48 h-index	80 g-index
148 ext. papers	9,080 ext. citations	10.9 avg, IF	6.51 L-index

#	Paper	IF	Citations
130	Metal-organic frameworks for the removal of toxic industrial chemicals and chemical warfare agents. *Chemical Society Reviews*, **2017**, 46, 3357-3385	58.5	557
129	Postsynthetic Tuning of Metal-Organic Frameworks for Targeted Applications. *Accounts of Chemical Research*, **2017**, 50, 805-813	24.3	488
128	Copper(I)-Catalyzed Synthesis of Nanoporous Azo-Linked Polymers: Impact of Textural Properties on Gas Storage and Selective Carbon Dioxide Capture. *Chemistry of Materials*, **2014**, 26, 1385-1392	9.6	231
127	Room-Temperature Synthesis of UiO-66 and Thermal Modulation of Densities of Defect Sites. *Chemistry of Materials*, **2017**, 29, 1357-1361	9.6	217
126	Balancing volumetric and gravimetric uptake in highly porous materials for clean energy. *Science*, **2020**, 368, 297-303	33.3	215
125	Reticular chemistry in the rational synthesis of functional zirconium cluster-based MOFs. *Coordination Chemistry Reviews*, **2019**, 386, 32-49	23.2	194
124	Metal-Organic Frameworks against Toxic Chemicals. *Chemical Reviews*, **2020**, 120, 8130-8160	68.1	191
123	Highly Selective CO2 Capture by Triazine-Based Benzimidazole-Linked Polymers. *Macromolecules*, **2014**, 47, 8328-8334	5.5	121
122	Impact of post-synthesis modification of nanoporous organic frameworks on small gas uptake and selective CO2 capture. *Journal of Materials Chemistry A*, **2013**, 1, 10259	13	120
121	Tuning the Surface Chemistry of Metal Organic Framework Nodes: Proton Topology of the Metal-Oxide-Like Zr Nodes of UiO-66 and NU-1000. *Journal of the American Chemical Society*, **2016**, 138, 15189-15196	16.4	119
120	A porous, electrically conductive hexa-zirconium(iv) metal-organic framework. *Chemical Science*, **2018**, 9, 4477-4482	9.4	118
119	A Flexible Metal-Organic Framework with 4-Connected Zr Nodes. *Journal of the American Chemical Society*, **2018**, 140, 11179-11183	16.4	115
118	Targeted synthesis of a mesoporous triptycene-derived covalent organic framework. *CrystEngComm*, **2013**, 15, 1524-1527	3.3	110
117	Cerium(IV) vs Zirconium(IV) Based Metal□Organic Frameworks for Detoxification of a Nerve Agent. *Chemistry of Materials*, **2017**, 29, 2672-2675	9.6	106
116	Benchmark Study of Hydrogen Storage in Metal□Organic Frameworks under Temperature and Pressure Swing Conditions. *ACS Energy Letters*, **2018**, 3, 748-754	20.1	104
115	Energy-based descriptors to rapidly predict hydrogen storage in metal□organic frameworks. *Molecular Systems Design and Engineering*, **2019**, 4, 162-174	4.6	100
114	Computer-aided discovery of a metal-organic framework with superior oxygen uptake. *Nature Communications*, **2018**, 9, 1378	17.4	100

113	Topology and porosity control of metal-organic frameworks through linker functionalization. *Chemical Science*, **2019**, 10, 1186-1192	9.4	90
112	Zirconium-Based Metal-Organic Frameworks for the Catalytic Hydrolysis of Organophosphorus Nerve Agents. *ACS Applied Materials & Interfaces*, **2020**, 12, 14702-14720	9.5	90
111	Efficient Capture of Perrhenate and Pertechnetate by a Mesoporous Zr Metal□Organic Framework and Examination of Anion Binding Motifs. *Chemistry of Materials*, **2018**, 30, 1277-1284	9.6	89
110	Presence versus Proximity: The Role of Pendant Amines in the Catalytic Hydrolysis of a Nerve Agent Simulant. *Angewandte Chemie - International Edition*, **2018**, 57, 1949-1953	16.4	88
109	Reticular Access to Highly Porous acs-MOFs with Rigid Trigonal Prismatic Linkers for Water Sorption. *Journal of the American Chemical Society*, **2019**, 141, 2900-2905	16.4	87
108	Zirconium Metal□Organic Frameworks for Organic Pollutant Adsorption. *Trends in Chemistry*, **2019**, 1, 304-317	14.8	86
107	Revisiting the structural homogeneity of NU-1000, a Zr-based metal□organic framework. *CrystEngComm*, **2018**, 20, 5913-5918	3.3	83
106	Vanadium Catalyst on Isostructural Transition Metal, Lanthanide, and Actinide Based Metal-Organic Frameworks for Alcohol Oxidation. *Journal of the American Chemical Society*, **2019**, 141, 8306-8314	16.4	81
105	Scalable and Template-Free Aqueous Synthesis of Zirconium-Based Metal-Organic Framework Coating on Textile Fiber. *Journal of the American Chemical Society*, **2019**, 141, 15626-15633	16.4	77
104	Benign by Design: Green and Scalable Synthesis of Zirconium UiO-Metal□Organic Frameworks by Water-Assisted Mechanochemistry. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 15841-15849	8.3	77
103	Detoxification of a Sulfur Mustard Simulant Using a BODIPY-Functionalized Zirconium-Based Metal-Organic Framework. *ACS Applied Materials & Interfaces*, **2017**, 9, 24555-24560	9.5	76
102	Benzothiazole- and benzoxazole-linked porous polymers for carbon dioxide storage and separation. *Journal of Materials Chemistry A*, **2017**, 5, 258-265	13	76
101	Selective Metal□Organic Framework Catalysis of Glucose to 5-Hydroxymethylfurfural Using Phosphate-Modified NU-1000. *Industrial & Engineering Chemistry Research*, **2017**, 56, 7141-7148	3.9	75
100	Application of pyrene-derived benzimidazole-linked polymers to CO2 separation under pressure and vacuum swing adsorption settings. *Journal of Materials Chemistry A*, **2014**, 2, 12492-12500	13	70
99	A cost-effective synthesis of heteroatom-doped porous carbons as efficient CO2 sorbents. *Journal of Materials Chemistry A*, **2016**, 4, 14693-14702	13	69
98	Metal□organic frameworks: A tunable platform to access single-site heterogeneous catalysts. *Applied Catalysis A: General*, **2019**, 586, 117214	5.1	68
97	Synthesis and evaluation of porous azo-linked polymers for carbon dioxide capture and separation. *Journal of Materials Chemistry A*, **2015**, 3, 20586-20594	13	68
96	Enhanced Carbon Dioxide Capture from Landfill Gas Using Bifunctionalized Benzimidazole-Linked Polymers. *ACS Applied Materials & Interfaces*, **2016**, 8, 14648-55	9.5	64

95	Zirconium-Based Metal-Organic Frameworks for the Removal of Protein-Bound Uremic Toxin from Human Serum Albumin. *Journal of the American Chemical Society*, **2019**, 141, 2568-2576	16.4	63
94	Systematic Postsynthetic Modification of Nanoporous Organic Frameworks for Enhanced CO2 Capture from Flue Gas and Landfill Gas. *Journal of Physical Chemistry C*, **2016**, 120, 2592-2599	3.8	62
93	Integration of Metal-Organic Frameworks on Protective Layers for Destruction of Nerve Agents under Relevant Conditions. *Journal of the American Chemical Society*, **2019**, 141, 20016-20021	16.4	62
92	Exploiting π Interactions to Design an Efficient Sorbent for Atrazine Removal from Water. *ACS Applied Materials & Interfaces*, **2019**, 11, 6097-6103	9.5	60
91	Lignin-derived heteroatom-doped porous carbons for supercapacitor and CO2 capture applications. *International Journal of Energy Research*, **2018**, 42, 2686-2700	4.5	59
90	Room Temperature Synthesis of an 8-Connected Zr-Based Metal Organic Framework for Top-Down Nanoparticle Encapsulation. *Chemistry of Materials*, **2018**, 30, 2193-2197	9.6	59
89	Tuning the Properties of Zr6O8 Nodes in the Metal Organic Framework UiO-66 by Selection of Node-Bound Ligands and Linkers. *Chemistry of Materials*, **2019**, 31, 1655-1663	9.6	58
88	An ultra-microporous organic polymer for high performance carbon dioxide capture and separation. *Chemical Communications*, **2015**, 51, 13393-6	5.8	57
87	Noninvasive Substitution of K Sites in Cyclodextrin Metal-Organic Frameworks by Li Ions. *Journal of the American Chemical Society*, **2017**, 139, 11020-11023	16.4	55
86	NanoMOFs: little crystallites for substantial applications. *Journal of Materials Chemistry A*, **2018**, 6, 7338-7350	13	54
85	From Transition Metals to Lanthanides to Actinides: Metal-Mediated Tuning of Electronic Properties of Isostructural Metal-Organic Frameworks. *Inorganic Chemistry*, **2018**, 57, 13246-13251	5.1	54
84	Enhanced Activity of Heterogeneous Pd(II) Catalysts on Acid-Functionalized Metal Organic Frameworks. *ACS Catalysis*, **2019**, 9, 5383-5390	13.1	51
83	Direct Imaging of Isolated Single-Molecule Magnets in Metal-Organic Frameworks. *Journal of the American Chemical Society*, **2019**, 141, 2997-3005	16.4	48
82	Atomistic Approach toward Selective Photocatalytic Oxidation of a Mustard-Gas Simulant: A Case Study with Heavy-Chalcogen-Containing PCN-57 Analogues. *ACS Applied Materials & Interfaces*, **2017**, 9, 19535-19540	9.5	44
81	Structural Diversity of Zirconium Metal-Organic Frameworks and Effect on Adsorption of Toxic Chemicals. *Journal of the American Chemical Society*, **2020**, 142, 21428-21438	16.4	44
80	Improvement of Methane-Framework Interaction by Controlling Pore Size and Functionality of Pillared MOFs. *Inorganic Chemistry*, **2017**, 56, 2581-2588	5.1	43
79	Tailoring Pore Aperture and Structural Defects in Zirconium-Based Metal Organic Frameworks for Krypton/Xenon Separation. *Chemistry of Materials*, **2020**, 32, 3776-3782	9.6	43
78	A historical perspective on porphyrin-based metal-organic frameworks and their applications. *Coordination Chemistry Reviews*, **2021**, 429,	23.2	43

77	Scalable, room temperature, and water-based synthesis of functionalized zirconium-based metal□organic frameworks for toxic chemical removal. *CrystEngComm*, **2019**, 21, 2409-2415	3.3	42
76	A Bismuth Metal-Organic Framework as a Contrast Agent for X-ray Computed Tomography.. *ACS Applied Bio Materials*, **2019**, 2, 1197-1203	4.1	40
75	Ligand-Directed Reticular Synthesis of Catalytically Active Missing Zirconium-Based Metal-Organic Frameworks. *Journal of the American Chemical Society*, **2019**, 141, 12229-12235	16.4	39
74	Post-Synthetically Elaborated BODIPY-Based Porous Organic Polymers (POPs) for the Photochemical Detoxification of a Sulfur Mustard Simulant. *Journal of the American Chemical Society*, **2020**, 142, 18554-18564	16.4	38
73	Zirconium-Based Metal□Organic Framework with 9-Connected Nodes for Ammonia Capture. *ACS Applied Nano Materials*, **2019**, 2, 6098-6102	5.6	37
72	Toward Base Heterogenization: A Zirconium Metal□Organic Framework/Dendrimer or Polymer Mixture for Rapid Hydrolysis of a Nerve-Agent Simulant. *ACS Applied Nano Materials*, **2019**, 2, 1005-1008	5.6	37
71	Tuning the Redox Activity of Metal-Organic Frameworks for Enhanced, Selective O Binding: Design Rules and Ambient Temperature O Chemisorption in a Cobalt-Triazolate Framework. *Journal of the American Chemical Society*, **2020**, 142, 4317-4328	16.4	36
70	Uncovering the Role of Metal□Organic Framework Topology on the Capture and Reactivity of Chemical Warfare Agents. *Chemistry of Materials*, **2020**, 32, 4609-4617	9.6	36
69	Observation of reduced thermal conductivity in a metal-organic framework due to the presence of adsorbates. *Nature Communications*, **2020**, 11, 4010	17.4	36
68	Controlling the Polymorphism and Topology Transformation in Porphyrinic Zirconium Metal-Organic Frameworks via Mechanochemistry. *Journal of the American Chemical Society*, **2019**, 141, 19214-19220	16.4	36
67	Porosity Dependence of Compression and Lattice Rigidity in Metal-Organic Framework Series. *Journal of the American Chemical Society*, **2019**, 141, 4365-4371	16.4	34
66	Synthesis and functionalization of phase-pure NU-901 for enhanced CO2 adsorption: the influence of a zirconium salt and modulator on the topology and phase purity. *CrystEngComm*, **2018**, 20, 7066-7070	3.3	34
65	Effect of acid-catalyzed formation rates of benzimidazole-linked polymers on porosity and selective CO2 capture from gas mixtures. *Environmental Science & Technology*, **2015**, 49, 4715-23	10.3	31
64	Ammonia Capture within Isoreticular Metal□Organic Frameworks with Rod Secondary Building Units **2019**, 1, 476-480		28
63	Fiber Composites of Metal□Organic Frameworks. *Chemistry of Materials*, **2020**, 32, 7120-7140	9.6	28
62	Facile and Scalable Coating of Metal-Organic Frameworks on Fibrous Substrates by a Coordination Replication Method at Room Temperature. *ACS Applied Materials & Interfaces*, **2019**, 11, 22714-22721	9.5	26
61	Synthetic Control of Thorium Polyoxo-Clusters in Metal□Organic Frameworks toward New Thorium-Based Materials. *ACS Applied Nano Materials*, **2019**, 2, 2260-2265	5.6	26
60	Isothermal Titration Calorimetry to Explore the Parameter Space of Organophosphorus Agrochemical Adsorption in MOFs. *Journal of the American Chemical Society*, **2020**, 142, 12357-12366	16.4	26

59	Photoexcited Naphthalene Diimide Radical Anion Linking the Nodes of a Metal-Organic Framework: A Heterogeneous Super-reductant. *Chemistry of Materials*, **2018**, 30, 2488-2492	9.6	26
58	Efficient extraction of inorganic selenium from water by a Zr metal-organic framework: investigation of volumetric uptake capacity and binding motifs. *CrystEngComm*, **2018**, 20, 6140-6145	3.3	26
57	Interplay of Lewis and Brønsted Acid Sites in Zr-Based Metal-Organic Frameworks for Efficient Esterification of Biomass-Derived Levulinic Acid. *ACS Applied Materials & Interfaces*, **2019**, 11, 32090-32096	9.5	25
56	Guest-Dependent Single-Crystal-to-Single-Crystal Phase Transitions in a Two-Dimensional Uranyl-Based Metal-Organic Framework. *Crystal Growth and Design*, **2019**, 19, 506-512	3.5	25
55	Structural Features of Zirconium-Based Metal-Organic Frameworks Affecting Radiolytic Stability. *Industrial & Engineering Chemistry Research*, **2020**, 59, 7520-7526	3.9	24
54	Metal-Organic-Framework-Supported and -Isolated Ceria Clusters with Mixed Oxidation States. *ACS Applied Materials & Interfaces*, **2019**, 11, 47822-47829	9.5	24
53	Realization of Lithium-Ion Capacitors with Enhanced Energy Density via the Use of Gadolinium Hexacyanocobaltate as a Cathode Material. *ACS Applied Materials & Interfaces*, **2019**, 11, 31799-31805	9.5	23
52	Rational Design of Pore Size and Functionality in a Series of Isoreticular Zwitterionic Metal-Organic Frameworks. *Chemistry of Materials*, **2018**, 30, 8332-8342	9.6	23
51	Solvent-assisted linker exchange enabled preparation of cerium-based metal-organic frameworks constructed from redox active linkers. *Inorganic Chemistry Frontiers*, **2020**, 7, 984-990	6.8	22
50	Presence versus Proximity: The Role of Pendant Amines in the Catalytic Hydrolysis of a Nerve Agent Simulant. *Angewandte Chemie*, **2018**, 130, 1967-1971	3.6	22
49	A Flexible Interpenetrated Zirconium-Based Metal-Organic Framework with High Affinity toward Ammonia. *ChemSusChem*, **2020**, 13, 1710-1714	8.3	21
48	Torsion Angle Effect on the Activation of UiO Metal-Organic Frameworks. *ACS Applied Materials & Interfaces*, **2019**, 11, 15788-15794	9.5	20
47	Linker Competition within a Metal-Organic Framework for Topological Insights. *Inorganic Chemistry*, **2019**, 58, 1513-1517	5.1	20
46	Small Molecules, Big Effects: Tuning Adsorption and Catalytic Properties of Metal-Organic Frameworks. *Chemistry of Materials*, **2021**, 33, 1444-1454	9.6	19
45	Benign Integration of a Zn-Azolate Metal-Organic Framework onto Textile Fiber for Ammonia Capture. *ACS Applied Materials & Interfaces*, **2020**, 12, 47747-47753	9.5	18
44	Process-level modelling and optimization to evaluate metal-organic frameworks for post-combustion capture of CO2. *Molecular Systems Design and Engineering*, **2020**, 5, 1205-1218	4.6	17
43	Efficient Removal of Per- and Polyfluoroalkyl Substances from Water with Zirconium-Based Metal-Organic Frameworks. *Chemistry of Materials*, **2021**, 33, 3276-3285	9.6	17
42	Designing Porous Materials to Resist Compression: Mechanical Reinforcement of a Zr-MOF with Structural Linkers. *Chemistry of Materials*, **2020**, 32, 3545-3552	9.6	16

41	Catalytic Degradation of an Organophosphorus Agent at Zn□OH Sites in a Metal□Organic Framework. *Chemistry of Materials*, **2020**, 32, 6998-7004	9.6	16
40	Fine-Tuning a Robust Metal-Organic Framework toward Enhanced Clean Energy Gas Storage. *Journal of the American Chemical Society*, **2021**, 143, 18838-18843	16.4	14
39	Systematic Study on the Removal of Per- and Polyfluoroalkyl Substances from Contaminated Groundwater Using Metal-Organic Frameworks. *Environmental Science & Technology*, **2021**, 55, 15162-15171	10.3	14
38	Reactive Porous Polymers for Detoxification of a Chemical Warfare Agent Simulant. *Chemistry of Materials*, **2020**, 32, 9299-9306	9.6	14
37	Benzothiazolium-functionalized NU-1000: a versatile material for carbon dioxide adsorption and cyanide luminescence sensing. *Journal of Materials Chemistry C*, **2020**, 8, 7492-7500	7.1	13
36	How Reproducible are Surface Areas Calculated from the BET Equation?. *Advanced Materials*,2201502	24	12
35	Green Synthesis of a Functionalized Zirconium-Based Metal□Organic Framework for Water and Ethanol Adsorption. *Inorganics*, **2019**, 7, 56	2.9	11
34	Precise Control of Cu Nanoparticle Size and Catalytic Activity through Pore Templating in Zr Metal□Organic Frameworks. *Chemistry of Materials*, **2020**, 32, 3078-3086	9.6	11
33	Insights into the Structure□Activity Relationships in Metal□Organic Framework-Supported Nickel Catalysts for Ethylene Hydrogenation. *ACS Catalysis*, **2020**, 10, 8995-9005	13.1	11
32	Near-instantaneous catalytic hydrolysis of organophosphorus nerve agents with zirconium-based MOF/hydrogel composites. *Chem Catalysis*, **2021**, 1, 721-733		11
31	Cross-linked porous polyurethane materials featuring dodecaborate clusters as inorganic polyol equivalents. *Chemical Communications*, **2019**, 55, 8852-8855	5.8	10
30	Modular Synthesis of Highly Porous Zr-MOFs Assembled from Simple Building Blocks for Oxygen Storage. *ACS Applied Materials & Interfaces*, **2019**, 11, 42179-42185	9.5	10
29	Maximizing Magnetic Resonance Contrast in Gd(III) Nanoconjugates: Investigation of Proton Relaxation in Zirconium Metal-Organic Frameworks. *ACS Applied Materials & Interfaces*, **2020**, 12, 41157-41166	9.5	10
28	Supramolecular Porous Assemblies of Atomically Precise Catalytically Active Cerium-Based Clusters. *Chemistry of Materials*, **2020**, 32, 8522-8529	9.6	10
27	Zirconium Metal-Organic Frameworks Integrating Chloride Ions for Ammonia Capture and/or Chemical Separation. *ACS Applied Materials & Interfaces*, **2021**, 13, 22485-22494	9.5	10
26	Insights into Catalytic Hydrolysis of Organophosphonates at M-OH Sites of Azolate-Based Metal Organic Frameworks. *Journal of the American Chemical Society*, **2021**, 143, 9893-9900	16.4	10
25	Proton Conductivity via Trapped Water in Phosphonate-Based Metal-Organic Frameworks Synthesized in Aqueous Media. *Inorganic Chemistry*, **2021**, 60, 1086-1091	5.1	10
24	Immobilized Regenerable Active Chlorine within a Zirconium-Based MOF Textile Composite to Eliminate Biological and Chemical Threats. *Journal of the American Chemical Society*, **2021**, 143, 16777-16785	16.4	10

23	Combining solvent-assisted linker exchange and transmetallation strategies to obtain a new non-catenated nickel (II) pillared-paddlewheel MOF. *Inorganic Chemistry Communication*, **2016**, 67, 60-63	3.1	9
22	Mechanistic Study on the Origin of the Trans Selectivity in Alkyne Semihydrogenation by a Heterobimetallic Rhodium□allium Catalyst in a Metal□Organic Framework. *Organometallics*, **2019**, 38, 3466-3473	3.8	9
21	Tuning the Atrazine Binding Sites in an Indium-Based Flexible Metal-Organic Framework. *ACS Applied Materials & Interfaces*, **2020**, 12, 44762-44768	9.5	9
20	Air oxidation of sulfur mustard gas simulants using a pyrene-based metal-organic framework photocatalyst. *Beilstein Journal of Nanotechnology*, **2019**, 10, 2422-2427	3	9
19	Transient Catenation in a Zirconium-Based Metal-Organic Framework and Its Effect on Mechanical Stability and Sorption Properties. *Journal of the American Chemical Society*, **2021**, 143, 1503-1512	16.4	9
18	Postsynthetically Modified Polymers of Intrinsic Microporosity (PIMs) for Capturing Toxic Gases. *ACS Applied Materials & Interfaces*, **2021**, 13, 10409-10415	9.5	9
17	Modulation of crystal growth and structure within cerium-based metal□rganic frameworks. *CrystEngComm*, **2020**, 22, 8182-8188	3.3	8
16	Controlling Polymorphism and Orientation of NU-901/NU-1000 Metal□Organic Framework Thin Films. *Chemistry of Materials*, **2020**, 32, 10556-10565	9.6	7
15	Control of the Porosity in Manganese Trimer-Based Metal-Organic Frameworks by Linker Functionalization. *Inorganic Chemistry*, **2020**, 59, 8444-8450	5.1	7
14	Benign Synthesis and Modification of a Zn□Azolate Metal□Organic Framework for Enhanced Ammonia Uptake and Catalytic Hydrolysis of an Organophosphorus Chemical **2021**, 3, 1363-1368		7
13	Uniform, Binary Functionalization of a Metal-Organic Framework Material. *Inorganic Chemistry*, **2019**, 58, 8906-8909	5.1	6
12	Are you using the right probe molecules for assessing the textural properties of metal□rganic frameworks?. *Journal of Materials Chemistry A*, **2021**, 10, 157-173	13	6
11	Time-Resolved in Situ Polymorphic Transformation from One 12-Connected Zr-MOF to Another **2020**, 2, 499-504		6
10	Development of a Metal□Organic Framework/Textile Composite for the Rapid Degradation and Sensitive Detection of the Nerve Agent VX. *Chemistry of Materials*, **2022**, 34, 1269-1277	9.6	5
9	Investigating the Influence of Hexanuclear Clusters in Isostructural Metal-Organic Frameworks on Toxic Gas Adsorption.. *ACS Applied Materials & Interfaces*, **2022**,	9.5	5
8	How Reproducible Are Surface Areas Calculated from the BET Equation?		5
7	An Amidoxime-Functionalized Porous Reactive Fiber against Toxic Chemicals **2021**, 3, 320-326		4
6	Phosphonates Meet Metal□Organic Frameworks: Towards CO2 Adsorption. *Israel Journal of Chemistry*, **2018**, 58, 1164-1170	3.4	4

List of Publications

5	Rapid Quantification of Mass Transfer Barriers in Metal Organic Framework Crystals. *Chemistry of Materials*,	9.6	3
4	Discovery of spontaneous de-interpenetration through charged point-point repulsions. *CheM*, **2021**,	16.2	3
3	Micropore environment regulation of zirconium MOFs for instantaneous hydrolysis of an organophosphorus chemical. *Cell Reports Physical Science*, **2021**, 2, 100612	6.1	3
2	Nanoporous Water-Stable Zr-Based Metal Organic Frameworks for Water Adsorption. *ACS Applied Nano Materials*, **2021**, 4, 4346-4350	5.6	3
1	Insights into Mass Transfer Barriers in Metal Organic Frameworks. *Chemistry of Materials*, **2022**, 34, 4134-4141	9.6	2