

Karim Adil

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94
papers

7,810
citations

37
h-index

88
g-index

106
ext. papers

9,137
ext. citations

11.8
avg, IF

6.15
L-index

#	Paper	IF	Citations
94	Gas/vapour separation using ultra-microporous metal-organic frameworks: insights into the structure/separation relationship. <i>Chemical Society Reviews</i> , 2017 , 46, 3402-3430	58.5	791
93	A metal-organic framework-based splitter for separating propylene from propane. <i>Science</i> , 2016 , 353, 137-40	33.3	654
92	A supermolecular building approach for the design and construction of metal-organic frameworks. <i>Chemical Society Reviews</i> , 2014 , 43, 6141-72	58.5	609
91	Zeolite-like metal-organic frameworks (ZMOFs): design, synthesis, and properties. <i>Chemical Society Reviews</i> , 2015 , 44, 228-49	58.5	573
90	MOF Crystal Chemistry Paving the Way to Gas Storage Needs: Aluminum-Based soc-MOF for CH ₄ , O ₂ , and CO ₂ Storage. <i>Journal of the American Chemical Society</i> , 2015 , 137, 13308-18	16.4	475
89	Made-to-order metal-organic frameworks for trace carbon dioxide removal and air capture. <i>Nature Communications</i> , 2014 , 5, 4228	17.4	382
88	Discovery and introduction of a (3,18)-connected net as an ideal blueprint for the design of metal-organic frameworks. <i>Nature Chemistry</i> , 2014 , 6, 673-80	17.6	333
87	Tunable Rare Earth fcu-MOF Platform: Access to Adsorption Kinetics Driven Gas/Vapor Separations via Pore Size Contraction. <i>Journal of the American Chemical Society</i> , 2015 , 137, 5034-40	16.4	261
86	A Fine-Tuned Fluorinated MOF Addresses the Needs for Trace CO ₂ Removal and Air Capture Using Physisorption. <i>Journal of the American Chemical Society</i> , 2016 , 138, 9301-7	16.4	244
85	Imaging defects and their evolution in a metal-organic framework at sub-unit-cell resolution. <i>Nature Chemistry</i> , 2019 , 11, 622-628	17.6	211
84	Hydrolytically stable fluorinated metal-organic frameworks for energy-efficient dehydration. <i>Science</i> , 2017 , 356, 731-735	33.3	209
83	Ultra-Tuning of the Rare-Earth fcu-MOF Aperture Size for Selective Molecular Exclusion of Branched Paraffins. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 14353-8	16.4	174
82	Fluorinated MOF platform for selective removal and sensing of SO from flue gas and air. <i>Nature Communications</i> , 2019 , 10, 1328	17.4	164
81	Reticular Synthesis of HKUST-like tbo-MOFs with Enhanced CH ₄ Storage. <i>Journal of the American Chemical Society</i> , 2016 , 138, 1568-74	16.4	164
80	A Fine-Tuned Metal-Organic Framework for Autonomous Indoor Moisture Control. <i>Journal of the American Chemical Society</i> , 2017 , 139, 10715-10722	16.4	150
79	[Ag(SPhMe)(PPh)]: Synthesis, Total Structure, and Optical Properties of a Large Box-Shaped Silver Nanocluster. <i>Journal of the American Chemical Society</i> , 2016 , 138, 14727-14732	16.4	138
78	Natural gas upgrading using a fluorinated MOF with tuned H ₂ S and CO ₂ adsorption selectivity. <i>Nature Energy</i> , 2018 , 3, 1059-1066	62.3	123

77	Structural flexibility and intrinsic dynamics in the M ₂ (2,6-ndc) ₂ (dabco) (M = Ni, Cu, Co, Zn) metal-organic frameworks. <i>Journal of Materials Chemistry</i> , 2012 , 22, 10303		112
76	Enabling Fluorinated MOF-Based Membranes for Simultaneous Removal of H ₂ S and CO from Natural Gas. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 14811-14816	16.4	111
75	Versatile rare earth hexanuclear clusters for the design and synthesis of highly-connected -MOFs. <i>Chemical Science</i> , 2015 , 6, 4095-4102	9.4	103
74	A facile solvent-free synthesis route for the assembly of a highly CO ₂ selective and H ₂ S tolerant NiSIFSIX metal-organic framework. <i>Chemical Communications</i> , 2015 , 51, 13595-8	5.8	102
73	A supermolecular building layer approach for gas separation and storage applications: the eea and rtl MOF platforms for CO ₂ capture and hydrocarbon separation. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 6276-6281	13	97
72	Enriching the Reticular Chemistry Repertoire: Merged Nets Approach for the Rational Design of Intricate Mixed-Linker Metal-Organic Framework Platforms. <i>Journal of the American Chemical Society</i> , 2018 , 140, 8858-8867	16.4	91
71	Applying the Power of Reticular Chemistry to Finding the Missing alb-MOF Platform Based on the (6,12)-Coordinated Edge-Transitive Net. <i>Journal of the American Chemical Society</i> , 2017 , 139, 3265-3274	16.4	84
70	Conformation-Controlled Molecular Sieving Effects for Membrane-Based Propylene/Propane Separation. <i>Advanced Materials</i> , 2019 , 31, e1807513	24	83
69	Synthesis, structure determination and magnetic behaviour of the first porous hybrid oxyfluorinated vanado(III)carboxylate: MIL-71 or VIII ₂ (OH) ₂ F ₂ {O ₂ C-C ₆ H ₄ -CO ₂ }·H ₂ O. <i>Journal of Materials Chemistry</i> , 2003 , 13, 2208-2212		80
68	Reticular Chemistry at Its Best: Directed Assembly of Hexagonal Building Units into the Awaited Metal-Organic Framework with the Intricate Polybenzene Topology, pbz-MOF. <i>Journal of the American Chemical Society</i> , 2016 , 138, 12767-12770	16.4	80
67	Metal-organic frameworks to satisfy gas upgrading demands: fine-tuning the soc-MOF platform for the operative removal of H ₂ S. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 3293-3303	13	76
66	Achieving Superprotonic Conduction with a 2D Fluorinated Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2018 , 140, 13156-13160	16.4	74
65	Valuing Metal-Organic Frameworks for Postcombustion Carbon Capture: A Benchmark Study for Evaluating Physical Adsorbents. <i>Advanced Materials</i> , 2017 , 29, 1702953	24	70
64	A Tailor-Made Interpenetrated MOF with Exceptional Carbon-Capture Performance from Flue Gas. <i>CheM</i> , 2019 , 5, 950-963	16.2	68
63	A Fine-Tuned MOF for Gas and Vapor Separation: A Multipurpose Adsorbent for Acid Gas Removal, Dehydration, and BTX Sieving. <i>CheM</i> , 2017 , 3, 822-833	16.2	62
62	Structural chemistry of organically-templated metal fluorides. <i>Dalton Transactions</i> , 2010 , 39, 5983-93	4.3	56
61	Hydrocarbon recovery using ultra-microporous fluorinated MOF platform with and without uncoordinated metal sites: I- structure properties relationships for C ₂ H ₂ /C ₂ H ₄ and CO ₂ /C ₂ H ₂ separation. <i>Chemical Engineering Journal</i> , 2019 , 359, 32-36	14.7	47
60	Trianglamine-Based Supramolecular Organic Framework with Permanent Intrinsic Porosity and Tunable Selectivity. <i>Journal of the American Chemical Society</i> , 2018 , 140, 14571-14575	16.4	46

59	Topology meets MOF chemistry for pore-aperture fine tuning: ftw-MOF platform for energy-efficient separations via adsorption kinetics or molecular sieving. <i>Chemical Communications</i> , 2018 , 54, 6404-6407	5.8	44
58	SMARTER crystallography of the fluorinated inorganic-organic compound Zn ₃ Al ₂ F ₁₂ [HAmTAZ] ₆ . <i>Dalton Transactions</i> , 2012 , 41, 6232-41	4.3	40
57	Infrared, polarized Raman and ab initio calculations of the vibrational spectra of [N(C ₃ H ₇) ₄] ₂ Cu ₂ Cl ₆ crystals. <i>Vibrational Spectroscopy</i> , 2013 , 64, 10-20	2.1	32
56	ZnAlF ₅ [TAZ]: an Al fluorinated MOF of MIL-53(Al) topology with cationic {Zn(1,2,4 triazole)} ₂ ⁺ linkers. <i>Journal of Materials Chemistry</i> , 2011 , 21, 3949		32
55	Third structure determination by powder diffractometry round robin (SDPDRR-3). <i>Powder Diffraction</i> , 2009 , 24, 254-262	1.8	31
54	Enhanced Separation of Butane Isomers via Defect Control in a Fumarate/Zirconium-Based Metal Organic Framework. <i>Langmuir</i> , 2018 , 34, 14546-14551	4	30
53	Enriching the Reticular Chemistry Repertoire with Minimal Edge-Transitive Related Nets: Access to Highly Coordinated Metal-Organic Frameworks Based on Double Six-Membered Rings as Net-Coded Building Units. <i>Journal of the American Chemical Society</i> , 2019 , 141, 20480-20489	16.4	28
52	Concurrent Sensing of CO and HO from Air Using Ultramicroporous Fluorinated Metal-Organic Frameworks: Effect of Transduction Mechanism on the Sensing Performance. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 1706-1712	9.5	25
51	On isoelectronic fluorides [H ₃ tren]?(AlF ₆)?H ₂ O, [H ₃ tren]?(AlF ₆)?HF, [H ₄ tren]?(AlF ₆)?(F) and the iron analogue [H ₄ tren]?(FeF ₆)?(F). <i>Solid State Sciences</i> , 2006 , 8, 698-703	3.4	22
50	Extremely Hydrophobic POPs to Access Highly Porous Storage Media and Capturing Agent for Organic Vapors. <i>Chem</i> , 2019 , 5, 180-191	16.2	22
49	Advances in Shaping of Metal-Organic Frameworks for CO ₂ Capture: Understanding the Effect of Rubbery and Glassy Polymeric Binders. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 16897-16902	3.9	22
48	Ultra-Tuning of the Rare-Earth fcu-MOF Aperture Size for Selective Molecular Exclusion of Branched Paraffins. <i>Angewandte Chemie</i> , 2015 , 127, 14561-14566	3.6	20
47	Hydrothermal synthesis, ab-initio structure determination and NMR study of the first mixed Cu/Al fluorinated MOF. <i>CrystEngComm</i> , 2013 , 15, 3430	3.3	20
46	Evidence of 13 hybrid fluoroaluminates in the composition space diagram of the Al(OH) ₃ -tren-F ⁻ -ethanol system. <i>Journal of Fluorine Chemistry</i> , 2009 , 130, 1099-1105	2.1	19
45	Hydrogen bonded H ₃ O ⁺ , H ₂ O, HF, F ⁻ in fluoride metalates (Al, Cr, Fe, Zr, Ta) templated with tren (tris-(2-aminoethyl)amine). <i>Journal of Fluorine Chemistry</i> , 2007 , 128, 404-412	2.1	18
44	Synthesis and structures of new hybrid fluorides templated by tetraprotonated pentaerythryl tetramine. <i>Solid State Sciences</i> , 2004 , 6, 1229-1235	3.4	18
43	A new one-dimensional hybrid material lattice: AC conductivity and structural characterization of [C ₇ H ₁₂ N ₂][CdCl ₄]. <i>Ionics</i> , 2011 , 17, 145-155	2.7	16
42	Novel layered hybrid fluoroaluminate in the composition space diagram of the Al(OH) ₃ -HguaCl-HF(aq)-EtOH system. <i>Inorganic Chemistry</i> , 2010 , 49, 2392-7	5.1	16

41	Upgrading gasoline to high octane numbers using a zeolite-like metal-organic framework molecular sieve with ana-topology. <i>Chemical Communications</i> , 2018 , 54, 9414-9417	5.8	15
40	Advances on CO ₂ storage. Synthetic porous solids, mineralization and alternative solutions. <i>Chemical Engineering Journal</i> , 2021 , 419, 129569	14.7	15
39	Two-dimensional composition diagram of the Al(OH) ₃ -dien-HFaq.-ethanol system: Evidence of a new tetrahedral (Al ₄ F ₁₈) ₆ poly-anion. <i>Journal of Fluorine Chemistry</i> , 2006 , 127, 1349-1354	2.1	14
38	Differential guest location by host dynamics enhances propylene/propane separation in a metal-organic framework. <i>Nature Communications</i> , 2020 , 11, 6099	17.4	14
37	Investigation of the composition space diagram of the ZnF ₂ -5-diamino-1,2,4-triazole-H ₂ O chemical system and structural characterization of a new fluorinated guanazolate MOF [Zn ₃ F ₂][Am ₂ TAZ] ₄ . <i>Journal of Fluorine Chemistry</i> , 2013 , 150, 104-108	2.1	13
36	Tandem Payne/Meinwald versus Meinwald rearrangements on the hydroxy- or silyloxy-spiro epoxide skeleton. <i>Organic and Biomolecular Chemistry</i> , 2012 , 10, 502-5	3.9	13
35	[H ₄ tren] ₃ /2[Al ₆ F ₂₄] ₃ H ₂ O, the most condensed fluoride in the Al(OH) ₃ -tren-HFaq.-ethanol system. <i>Solid State Sciences</i> , 2007 , 9, 531-534	3.4	13
34	Total synthesis of a novel macrotetrolide. <i>Tetrahedron</i> , 2008 , 64, 11296-11303	2.4	12
33	Supramolecular Self-Assembly of Histidine-Capped-Dialkoxy-Anthracene: A Visible-Light-Triggered Platform for Facile siRNA Delivery. <i>Chemistry - A European Journal</i> , 2016 , 22, 13789-13793	4.8	11
32	A new organic-inorganic hybrid oxyfluorotitanate [Hgua] ₂ [Ti ₅ O ₅ F ₁₂] as a transparent UV filter. <i>Inorganic Chemistry</i> , 2011 , 50, 5671-8	5.1	11
31	Crystal chemistry of three new monodimensional fluorometalates templated with ethylenediamine. <i>Solid State Sciences</i> , 2009 , 11, 1582-1586	3.4	10
30	Enabling Fluorinated MOF-Based Membranes for Simultaneous Removal of H ₂ S and CO ₂ from Natural Gas. <i>Angewandte Chemie</i> , 2018 , 130, 15027-15032	3.6	10
29	CO ₂ Capture Using the SIFSIX-2-Cu-i Metal-Organic Framework: A Computational Approach. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 27462-27472	3.8	9
28	Mixed metalIII-metalIV hybrid fluorides. <i>Journal of Fluorine Chemistry</i> , 2012 , 134, 29-34	2.1	9
27	Synthesis, spectroscopy, thermal behavior, and X-ray crystal structure of two lead(II) complexes with 4'-((4-tolyl)-2,2':6',2''-terpyridine (tpty). <i>Journal of Coordination Chemistry</i> , 2011 , 64, 4421-4433	1.6	9
26	Carbonization of covalent triazine-based frameworks via ionic liquid induction. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 15564-15568	13	8
25	Ternary and tetrahedral symmetry in hybrid fluorides, fluoride carbonates and carbonates. <i>Journal of Fluorine Chemistry</i> , 2004 , 125, 1709-1714	2.1	8
24	Fluoroaluminates of purine and DNA bases, adenine, guanine: [Hpur] ₂ [AlF ₅], [Hade] ₃ [AlF ₆] ₃ ·5H ₂ O, [Hguan] ₃ [Al ₃ F ₁₂]. <i>Solid State Sciences</i> , 2011 , 13, 151-157	3.4	7

23	Versatility vs stability. Are the assets of metal-organic frameworks deployable in aqueous acidic and basic media?. <i>Coordination Chemistry Reviews</i> , 2021 , 443, 214020	23.2	7
22	Operando Elucidation on the Working State of Immobilized Fluorinated Iron Porphyrin for Selective Aqueous Electroreduction of CO ₂ to CO. <i>ACS Catalysis</i> , 2021 , 11, 6499-6509	13.1	6
21	Diammonium tetraborate dihydrate as hydrolytic by-product of ammonia borane in aqueous alkaline conditions. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 9927-9935	6.7	5
20	Hydrothermal Synthesis and Characterization Properties of C ₇ H ₁₂ N ₂ [H ₂ PO ₄] ₂ ·1/2H ₂ O. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2012 , 187, 1173-1182	1	4
19	Bis[tris(2-ammonioethyl)amine] bis(pentafluorodioxidomolybdate) difluoride monohydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2007 , 63, m1511-m1513		4
18	Crystal structure and ion conducting properties of La ₅ NbMo ₂ O ₁₆ . <i>Journal of Solid State Chemistry</i> , 2016 , 237, 411-416	3.3	3
17	Computationally Assisted Assessment of the Metal-Organic Framework/Polymer Compatibility in Composites Integrating a Rigid Polymer. <i>Advanced Theory and Simulations</i> , 2019 , 2, 1900116	3.5	3
16	Structural Characterization and Infrared and Electrical Properties of the New Inorganic-Organic Hybrid Compound. <i>Journal of Chemistry</i> , 2013 , 2013, 1-10	2.3	3
15	Polyanion Condensation in Inorganic and Hybrid Fluoroaluminates 2010 , 347-381		3
14	A new 1D hybrid fluoroaluminate templated by an original tetramine. <i>Polyhedron</i> , 2007 , 26, 2493-2497	2.7	3
13	Diethyl-enetriaminium hexa-fluorido-titanate(IV) fluoride. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2008 , 64, m1375		3
12	Tris(2-ammonioethyl)aminium decafluoromium monohydrate, (H ₄ tren)[Al ₂ F ₁₀] ₂ ·H ₂ O. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2004 , 60, m1379-m1381		2
11	Facile modifications of HKUST-1 by V, Nb and Mn for low-temperature selective catalytic reduction of nitrogen oxides by NH ₃ . <i>Catalysis Today</i> , 2021 , 384-386, 25-25	5.3	2
10	Synthesis, Structural Characterization and Thermal Behavior of New Organic-Inorganic Sulfate. <i>Journal of Cluster Science</i> , 2015 , 26, 1413-1424	3	1
9	Investigation of the La ₂ O ₃ -Nb ₂ O ₅ -WO ₃ ternary phase diagram: Isolation and crystal structure determination of the original La ₃ NbWO ₁₀ material. <i>Journal of Solid State Chemistry</i> , 2015 , 229, 129-134	3.3	1
8	Diethylenetriaminium hexafluoroaluminate dihydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2005 , 61, m1178-m1180		1
7	Room-temperature synthesis of a new stable (NH)WO compound: a route for hydrazine trapping. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2019 , 75, 127-133	1.8	1
6	Investigation of Mn Promotion on HKUST-1 Metal-Organic Frameworks for Low-Temperature Selective Catalytic Reduction of NO with NH ₃ . <i>ChemCatChem</i> , 2021 , 13, 4029-4037	5.2	1

- 5 Efficient Splitting of Trans-/Cis-Olefins Using an Anion-Pillared Ultramicroporous MetalOrganic Framework with Guest-Adaptive Pore Channels. *Engineering*, **2021**, 9.7 1
- 4 7,9-Bis(hydroxy-methyl)-7H-purine-2,6,8(1H,3H,9H)trione. *Acta Crystallographica Section E: Structure Reports Online*, **2011**, 67, o1458 0
- 3 Perspectives in Adsorptive and Catalytic Mitigations of NO_x Using MetalOrganic Frameworks. *Energy & Fuels*, **2022**, 36, 3347-3371 4.1 0
- 2 Poly[bis(purin-9-ido-(2)N(7):N(9))zinc]. *Acta Crystallographica Section E: Structure Reports Online*, **2012**, 68, m449
- 1 Poly[(β)-hydrogenphosphato)(4H-1,2,4-triazole-N(1))zinc]. *Acta Crystallographica Section E: Structure Reports Online*, **2012**, 68, m1426-7