

Karim Adil

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.

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	Perspectives in Adsorptive and Catalytic Mitigations of NO _x Using Metal-Organic Frameworks. <i>Energy & Fuels</i> , 2022 , 36, 3347-3371	4.1	0
93	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
92	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
91	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
90	Advances on CO ₂ storage. Synthetic porous solids, mineralization and alternative solutions. <i>Chemical Engineering Journal</i> , 2021 , 419, 129569	14.7	15
89	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
88	Efficient Splitting of Trans-/Cis-Olefins Using an Anion-Pillared Ultramicroporous Metal-Organic Framework with Guest-Adaptive Pore Channels. <i>Engineering</i> , 2021 ,	9.7	1
87	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
86	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
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	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
83	A Tailor-Made Interpenetrated MOF with Exceptional Carbon-Capture Performance from Flue Gas. <i>CheM</i> , 2019 , 5, 950-963	16.2	68
82	Conformation-Controlled Molecular Sieving Effects for Membrane-Based Propylene/Propane Separation. <i>Advanced Materials</i> , 2019 , 31, e1807513	24	83
81	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
80	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
79	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
78	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

77	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
76	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
75	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
74	Carbonization of covalent triazine-based frameworks via ionic liquid induction. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 15564-15568	13	8
73	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
72	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 ²²	3.9	22
71	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
70	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
69	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
68	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
67	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
66	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
65	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
64	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
63	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
62	Hydrolytically stable fluorinated metal-organic frameworks for energy-efficient dehydration. <i>Science</i> , 2017 , 356, 731-735	33.3	209
61	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
60	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

59	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
58	Valuing Metal-Organic Frameworks for Postcombustion Carbon Capture: A Benchmark Study for Evaluating Physical Adsorbents. <i>Advanced Materials</i> , 2017 , 29, 1702953	24	70
57	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
56	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
55	[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
54	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
53	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
52	A metal-organic framework-based splitter for separating propylene from propane. <i>Science</i> , 2016 , 353, 137-40	33.3	654
51	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
50	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
49	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
48	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
47	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
46	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
45	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
44	Synthesis, Structural Characterization and Thermal Behavior of New Organic/Inorganic Sulfate. <i>Journal of Cluster Science</i> , 2015 , 26, 1413-1424	3	1
43	Zeolite-like metal-organic frameworks (ZMOFs): design, synthesis, and properties. <i>Chemical Society Reviews</i> , 2015 , 44, 228-49	58.5	573
42	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

41	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
40	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
39	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
38	Made-to-order metal-organic frameworks for trace carbon dioxide removal and air capture. <i>Nature Communications</i> , 2014 , 5, 4228	17.4	382
37	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
36	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
35	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
34	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
33	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
32	Mixed metalIII-metalIV hybrid fluorides. <i>Journal of Fluorine Chemistry</i> , 2012 , 134, 29-34	2.1	9
31	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
30	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
29	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
28	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
27	Poly[bis(μ ₂ -purin-9-ido-κ ² (N(7):N(9)))zinc]. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012 , 68, m449		
26	Poly[(μ ₂ -hydrogenphosphato)(4H-1,2,4-triazole-κ ¹ (1)))zinc]. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012 , 68, m1426-7		
25	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
24	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

23	Fluoroaluminates of purine and DNA bases, adenine, guanine: $[H_{pur}]_2[AlF_5]$, $[H_{ade}]_3[AlF_6] \cdot 5H_2O$, $[H_{guan}]_3[AlF_6] \cdot 12H_2O$. <i>Solid State Sciences</i> , 2011 , 13, 151-157	3.4	7
22	A new one-dimensional hybrid material lattice: AC conductivity and structural characterization of $[C_7H_{12}N_2][CdCl_4]$. <i>Ionics</i> , 2011 , 17, 145-155	2.7	16
21	7,9-Bis(hydroxy-methyl)-7H-purine-2,6,8(1H,3H,9H)trione. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2011 , 67, o1458		0
20	Synthesis, spectroscopy, thermal behavior, and X-ray crystal structure of two lead(II) complexes with 4'-((4-tolyl)-2,2':6',2''-terpyridine (ttpy)). <i>Journal of Coordination Chemistry</i> , 2011 , 64, 4421-4433	1.6	9
19	Polyanion Condensation in Inorganic and Hybrid Fluoroaluminates 2010 , 347-381		3
18	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
17	Structural chemistry of organically-templated metal fluorides. <i>Dalton Transactions</i> , 2010 , 39, 5983-93	4.3	56
16	Third structure determination by powder diffractometry round robin (SDPDRR-3). <i>Powder Diffraction</i> , 2009 , 24, 254-262	1.8	31
15	Crystal chemistry of three new monodimensional fluorometalates templated with ethylenediamine. <i>Solid State Sciences</i> , 2009 , 11, 1582-1586	3.4	10
14	Evidence of 13 hybrid fluoroaluminates in the composition space diagram of the $Al(OH)_3$ -tren-HF-ethanol system. <i>Journal of Fluorine Chemistry</i> , 2009 , 130, 1099-1105	2.1	19
13	Total synthesis of a novel macrotetrolide. <i>Tetrahedron</i> , 2008 , 64, 11296-11303	2.4	12
12	Diethyl-enetriaminium hexa-fluorido-titanate(IV) fluoride. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2008 , 64, m1375		3
11	A new 1D hybrid fluoroaluminate templated by an original tetramine. <i>Polyhedron</i> , 2007 , 26, 2493-2497	2.7	3
10	Hydrogen bonded H_3O^+ , H_2O , 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
9	Bis[tris(2-ammonioethyl)amine] bis(pentafluoridooxidomolybdate) difluoride monohydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2007 , 63, m1511-m1513		4
8	$[H_4tren]_3/2[Al_6F_{24}] \cdot 2H_2O$, the most condensed fluoride in the $Al(OH)_3$ -tren-HF(aq)-ethanol system. <i>Solid State Sciences</i> , 2007 , 9, 531-534	3.4	13
7	Two-dimensional composition diagram of the $Al(OH)_3$ -dien-HF(aq)-ethanol system: Evidence of a new tetrahedral $(Al_4F_{18})_6^{4-}$ polyanion. <i>Journal of Fluorine Chemistry</i> , 2006 , 127, 1349-1354	2.1	14
6	On isoelectronic fluorides $[H_3tren]?(AlF_6)?H_2O$, $[H_3tren]?(AlF_6)?HF$, $[H_4tren]?(AlF_6)?(F)$ and the iron analogue $[H_4tren]?(FeF_6)?(F)$. <i>Solid State Sciences</i> , 2006 , 8, 698-703	3.4	22

5	Diethylenetriaminium hexafluoroaluminate dihydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2005 , 61, m1178-m1180		1
4	Synthesis and structures of new hybrid fluorides templated by tetraprotonated pentaerythryl tetramine. <i>Solid State Sciences</i> , 2004 , 6, 1229-1235	3-4	18
3	Ternary and tetrahedral symmetry in hybrid fluorides, fluoride carbonates and carbonates. <i>Journal of Fluorine Chemistry</i> , 2004 , 125, 1709-1714	2.1	8
2	Tris(2-ammonioethyl)aminium decafluoromium monohydrate, (H ₄ tren)[Al ₂ F ₁₀] \cdot H ₂ O. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2004 , 60, m1379-m1381		2
1	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] \cdot H ₂ O. <i>Journal of Materials Chemistry</i> , 2003 , 13, 2208-2212		80