Karim Adil

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/4217289/publications.pdf

Version: 2024-02-01

76326 39675 10,437 94 40 94 citations h-index g-index papers 106 106 106 9425 docs citations times ranked citing authors all docs

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Facile modifications of HKUST-1 by V, Nb and Mn for low-temperature selective catalytic reduction of nitrogen oxides by NH3. Catalysis Today, 2022, 384-386, 25-32. | 4.4 | 6 |
| 2 | Perspectives in Adsorptive and Catalytic Mitigations of NO _{<i>x</i>} Using Metal–Organic Frameworks. Energy & Energy | 5.1 | 13 |
| 3 | Efficient Splitting of Trans-/Cis-Olefins Using an Anion-Pillared Ultramicroporous Metal–Organic Framework with Guest-Adaptive Pore Channels. Engineering, 2022, 11, 80-86. | 6.7 | 13 |
| 4 | Cation-deficient Ca-doping lanthanum tungstate Ca2.06La2.61â-¡0.33W2O12: Structure and transport property study. Journal of Solid State Chemistry, 2022, 313, 123310. | 2.9 | 2 |
| 5 | The chemistry of metal–organic frameworks with face-centered cubic topology. Coordination Chemistry Reviews, 2022, 468, 214644. | 18.8 | 14 |
| 6 | Operando Elucidation on the Working State of Immobilized Fluorinated Iron Porphyrin for Selective Aqueous Electroreduction of CO ₂ to CO. ACS Catalysis, 2021, 11, 6499-6509. | 11.2 | 27 |
| 7 | Investigation of Mn Promotion on HKUSTâ€1 Metalâ€Organic Frameworks for Lowâ€Temperature Selective Catalytic Reduction of NO with NH ₃ . ChemCatChem, 2021, 13, 4029-4037. | 3.7 | 6 |
| 8 | Advances on CO2 storage. Synthetic porous solids, mineralization and alternative solutions. Chemical Engineering Journal, 2021, 419, 129569. | 12.7 | 43 |
| 9 | Versatility vs stability. Are the assets of metal–organic frameworks deployable in aqueous acidic and basic media?. Coordination Chemistry Reviews, 2021, 443, 214020. | 18.8 | 33 |
| 10 | Differential guest location by host dynamics enhances propylene/propane separation in a metal-organic framework. Nature Communications, 2020, 11, 6099. | 12.8 | 44 |
| 11 | Diammonium tetraborate dihydrate as hydrolytic by-product of ammonia borane in aqueous alkaline conditions. International Journal of Hydrogen Energy, 2020, 45, 9927-9935. | 7.1 | 10 |
| 12 | Computationally Assisted Assessment of the Metalâ€Organic Framework/Polymer Compatibility in Composites Integrating a Rigid Polymer. Advanced Theory and Simulations, 2019, 2, 1900116. | 2.8 | 5 |
| 13 | Imaging defects and their evolution in a metal–organic framework at sub-unit-cell resolution. Nature Chemistry, 2019, 11, 622-628. | 13.6 | 371 |
| 14 | Fluorinated MOF platform for selective removal and sensing of SO2 from flue gas and air. Nature Communications, 2019, 10, 1328. | 12.8 | 292 |
| 15 | A Tailor-Made Interpenetrated MOF with Exceptional Carbon-Capture Performance from Flue Gas. CheM, 2019, 5, 950-963. | 11.7 | 118 |
| 16 | Conformationâ€Controlled Molecular Sieving Effects for Membraneâ€Based Propylene/Propane Separation. Advanced Materials, 2019, 31, e1807513. | 21.0 | 117 |
| 17 | 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. Journal of the American Chemical Society, 2019, 141, 20480-20489. | 13.7 | 42 |
| 18 | Extremely Hydrophobic POPs to Access Highly Porous Storage Media and Capturing Agent for Organic Vapors. CheM, 2019, 5, 180-191. | 11.7 | 42 |

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Hydrocarbon recovery using ultra-microporous fluorinated MOF platform with and without uncoordinated metal sites: I- structure properties relationships for C2H2/C2H4 and CO2/C2H2 separation. Chemical Engineering Journal, 2019, 359, 32-36. | 12.7 | 77 |
| 20 | Concurrent Sensing of CO ₂ and H ₂ O from Air Using Ultramicroporous Fluorinated Metal–Organic Frameworks: Effect of Transduction Mechanism on the Sensing Performance. ACS Applied Materials & Interfaces, 2019, 11, 1706-1712. | 8.0 | 35 |
| 21 | Room-temperature synthesis of a new stable (N ₂ H ₄)WO ₃ compound: a route for hydrazine trapping. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2019, 75, 127-133. | 1.1 | 2 |
| 22 | Advances in Shaping of Metal–Organic Frameworks for CO ₂ Capture: Understanding the Effect of Rubbery and Glassy Polymeric Binders. Industrial & Engineering Chemistry Research, 2018, 57, 16897-16902. | 3.7 | 46 |
| 23 | Enhanced Separation of Butane Isomers via Defect Control in a Fumarate/Zirconium-Based Metal Organic Framework. Langmuir, 2018, 34, 14546-14551. | 3.5 | 43 |
| 24 | Trianglamine-Based Supramolecular Organic Framework with Permanent Intrinsic Porosity and Tunable Selectivity. Journal of the American Chemical Society, 2018, 140, 14571-14575. | 13.7 | 78 |
| 25 | Natural gas upgrading using a fluorinated MOF with tuned H2S and CO2 adsorption selectivity. Nature Energy, 2018, 3, 1059-1066. | 39.5 | 214 |
| 26 | Achieving Superprotonic Conduction with a 2D Fluorinated Metal–Organic Framework. Journal of the American Chemical Society, 2018, 140, 13156-13160. | 13.7 | 103 |
| 27 | Enabling Fluorinated MOFâ€Based Membranes for Simultaneous Removal of H ₂ S and CO ₂ from Natural Gas. Angewandte Chemie - International Edition, 2018, 57, 14811-14816. | 13.8 | 176 |
| 28 | Enabling Fluorinated MOFâ€Based Membranes for Simultaneous Removal of H ₂ S and CO ₂ from Natural Gas. Angewandte Chemie, 2018, 130, 15027-15032. | 2.0 | 17 |
| 29 | Topology meets MOF chemistry for pore-aperture fine tuning: ftw -MOF platform for energy-efficient separations <i>via</i> adsorption kinetics or molecular sieving. Chemical Communications, 2018, 54, 6404-6407. | 4.1 | 65 |
| 30 | Upgrading gasoline to high octane numbers using a zeolite-like metal–organic framework molecular sieve with ⟨b⟩ana⟨/b⟩-topology. Chemical Communications, 2018, 54, 9414-9417. | 4.1 | 23 |
| 31 | Carbonization of covalent triazine-based frameworks <i>via</i> ionic liquid induction. Journal of Materials Chemistry A, 2018, 6, 15564-15568. | 10.3 | 13 |
| 32 | Enriching the Reticular Chemistry Repertoire: Merged Nets Approach for the Rational Design of Intricate Mixed-Linker Metal–Organic Framework Platforms. Journal of the American Chemical Society, 2018, 140, 8858-8867. | 13.7 | 129 |
| 33 | Metal–organic frameworks to satisfy gas upgrading demands: fine-tuning the soc -MOF platform for the operative removal of H ₂ S. Journal of Materials Chemistry A, 2017, 5, 3293-3303. | 10.3 | 94 |
| 34 | Applying the Power of Reticular Chemistry to Finding the Missing alb-MOF Platform Based on the (6,12)-Coordinated Edge-Transitive Net. Journal of the American Chemical Society, 2017, 139, 3265-3274. | 13.7 | 104 |
| 35 | Hydrolytically stable fluorinated metal-organic frameworks for energy-efficient dehydration. Science, 2017, 356, 731-735. | 12.6 | 275 |
| 36 | Gas/vapour separation using ultra-microporous metal–organic frameworks: insights into the structure/separation relationship. Chemical Society Reviews, 2017, 46, 3402-3430. | 38.1 | 1,033 |

3

| # | Article | IF | Citations |
|----|---|------|-----------|
| 37 | CO ₂ Capture Using the SIFSIX-2-Cu-i Metalâ€"Organic Framework: A Computational Approach. Journal of Physical Chemistry C, 2017, 121, 27462-27472. | 3.1 | 14 |
| 38 | A Fine-Tuned MOF for Gas and Vapor Separation: A Multipurpose Adsorbent for Acid Gas Removal, Dehydration, and BTX Sieving. CheM, 2017, 3, 822-833. | 11.7 | 83 |
| 39 | Valuing Metal–Organic Frameworks for Postcombustion Carbon Capture: A Benchmark Study for Evaluating Physical Adsorbents. Advanced Materials, 2017, 29, 1702953. | 21.0 | 88 |
| 40 | A Fine-Tuned Metal–Organic Framework for Autonomous Indoor Moisture Control. Journal of the American Chemical Society, 2017, 139, 10715-10722. | 13.7 | 224 |
| 41 | A metal-organic framework–based splitter for separating propylene from propane. Science, 2016, 353, 137-140. | 12.6 | 892 |
| 42 | A Fine-Tuned Fluorinated MOF Addresses the Needs for Trace CO ₂ Removal and Air Capture Using Physisorption. Journal of the American Chemical Society, 2016, 138, 9301-9307. | 13.7 | 366 |
| 43 | Reticular Chemistry at Its Best: Directed Assembly of Hexagonal Building Units into the Awaited Metal-Organic Framework with the Intricate Polybenzene Topology, pbz-MOF. Journal of the American Chemical Society, 2016, 138, 12767-12770. | 13.7 | 101 |
| 44 | Supramolecular Selfâ€Assembly of Histidineâ€Cappedâ€Dialkoxyâ€Anthracene: A Visibleâ€Lightâ€Triggered Plat for Facile siRNA Delivery. Chemistry - A European Journal, 2016, 22, 13789-13793. | form | 12 |
| 45 | [Ag ₆₇ (SPhMe ₂) ₃₂ (PPh ₃) ₈] ³⁺ : Synthesis, Total Structure, and Optical Properties of a Large Box-Shaped Silver Nanocluster. Journal of the American Chemical Society, 2016, 138, 14727-14732. | 13.7 | 167 |
| 46 | Crystal structure and ion conducting properties of La5NbMo2O16. Journal of Solid State Chemistry, 2016, 237, 411-416. | 2.9 | 11 |
| 47 | Reticular Synthesis of HKUST-like tbo-MOFs with Enhanced CH ₄ Storage. Journal of the American Chemical Society, 2016, 138, 1568-1574. | 13.7 | 193 |
| 48 | Ultraâ€Tuning of the Rareâ€Earth fcuâ€MOF Aperture Size for Selective Molecular Exclusion of Branched Paraffins. Angewandte Chemie - International Edition, 2015, 54, 14353-14358. | 13.8 | 222 |
| 49 | Investigation of the La2O3–Nb2O5–WO3 ternary phase diagram: Isolation and crystal structure determination of the original La3NbWO10 material. Journal of Solid State Chemistry, 2015, 229, 129-134. | 2.9 | 3 |
| 50 | A supermolecular building layer approach for gas separation and storage applications: the eea and rtl MOF platforms for CO ₂ capture and hydrocarbon separation. Journal of Materials Chemistry A, 2015, 3, 6276-6281. | 10.3 | 105 |
| 51 | A facile solvent-free synthesis route for the assembly of a highly CO ₂ selective and H ₂ S tolerant NiSIFSIX metal–organic framework. Chemical Communications, 2015, 51, 13595-13598. | 4.1 | 134 |
| 52 | Versatile rare earth hexanuclear clusters for the design and synthesis of highly-connected ftw -MOFs. Chemical Science, 2015, 6, 4095-4102. | 7.4 | 127 |
| 53 | Tunable Rare Earth fcu -MOF Platform: Access to Adsorption Kinetics Driven Gas/Vapor Separations via Pore Size Contraction. Journal of the American Chemical Society, 2015, 137, 5034-5040. | 13.7 | 308 |
| 54 | MOF Crystal Chemistry Paving the Way to Gas Storage Needs: Aluminum-Based soc -MOF for CH ₄ , O ₂ , and CO ₂ Storage. Journal of the American Chemical Society, 2015, 137, 13308-13318. | 13.7 | 632 |

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 55 | Synthesis, Structural Characterization and Thermal Behavior of New Organic–Inorganic Sulfate. Journal of Cluster Science, 2015, 26, 1413-1424. | 3.3 | 1 |
| 56 | Zeolite-like metal–organic frameworks (ZMOFs): design, synthesis, and properties. Chemical Society Reviews, 2015, 44, 228-249. | 38.1 | 662 |
| 57 | A supermolecular building approach for the design and construction of metal–organic frameworks. Chemical Society Reviews, 2014, 43, 6141-6172. | 38.1 | 708 |
| 58 | Made-to-order metal-organic frameworks for trace carbon dioxide removal and air capture. Nature Communications, 2014, 5, 4228. | 12.8 | 510 |
| 59 | Discovery and introduction of a (3,18)-connected net as an ideal blueprint for the design of metal–organic frameworks. Nature Chemistry, 2014, 6, 673-680. | 13.6 | 396 |
| 60 | Investigation of the composition space diagram of the ZnF2–3,5-diamino-1,2,4-triazole–HF–H2O chemical system and structural characterization of a new fluorinated guanazolate MOF [Zn3F2]·(Am2TAZ)4. Journal of Fluorine Chemistry, 2013, 150, 104-108. | 1.7 | 13 |
| 61 | Infrared, polarized Raman and ab initio calculations of the vibrational spectra of [N(C3H7)4]2Cu2Cl6 crystals. Vibrational Spectroscopy, 2013, 64, 10-20. | 2.2 | 36 |
| 62 | Hydrothermal synthesis, ab-initio structure determination and NMR study of the first mixed Cu–Al fluorinated MOF. CrystEngComm, 2013, 15, 3430. | 2.6 | 23 |
| 63 | Structural Characterization and Infrared and Electrical Properties of the New Inorganic-Organic Hybrid Compound. Journal of Chemistry, 2013, 2013, 1-10. | 1.9 | 5 |
| 64 | Poly[bis(μ-purin-9-ido-κ2N7:N9)zinc]. Acta Crystallographica Section E: Structure Reports Online, 2012, 68, m449-m449. | 0.2 | 0 |
| 65 | Poly[(ν3-hydrogenphosphato)(4H-1,2,4-triazole-κN1)zinc]. Acta Crystallographica Section E: Structure Reports Online, 2012, 68, m1426-m1427. | 0.2 | 0 |
| 66 | SMARTER crystallography of the fluorinated inorganic–organic compound Zn3Al2F12·[HAmTAZ]6. Dalton Transactions, 2012, 41, 6232. | 3.3 | 43 |
| 67 | Tandem Payne/Meinwald versus Meinwald rearrangements on the \hat{l} ±-hydroxy- or \hat{l} ±-silyloxy-spiro epoxide skeleton. Organic and Biomolecular Chemistry, 2012, 10, 502-505. | 2.8 | 15 |
| 68 | Hydrothermal Synthesis and Characterization Properties of C7H12N2[H2PO4]2.1/2H2O. Phosphorus, Sulfur and Silicon and the Related Elements, 2012, 187, 1173-1182. | 1.6 | 4 |
| 69 | Structural flexibility and intrinsic dynamics in the M2(2,6-ndc)2(dabco) (M = Ni, Cu, Co, Zn) metal–organic frameworks. Journal of Materials Chemistry, 2012, 22, 10303. | 6.7 | 139 |
| 70 | Mixed metalll–metallV hybrid fluorides. Journal of Fluorine Chemistry, 2012, 134, 29-34. | 1.7 | 10 |
| 71 | A New Organic–Inorganic Hybrid Oxyfluorotitanate [H <i>gua</i>] ₂ ·(Ti ₅ O ₅ F ₁₂) as a Transparent UV Filter. Inorganic Chemistry, 2011, 50, 5671-5678. | 4.0 | 13 |
| 72 | ZnAlF5·[TAZ]: an Al fluorinated MOF of MIL-53(Al) topology with cationic $\{Zn(1,2,4 \text{ triazole})\}$ 2+ linkers. Journal of Materials Chemistry, 2011, 21, 3949. | 6.7 | 32 |

| # | Article | IF | Citations |
|------------|--|-------------|-----------|
| 73 | Fluoroaluminates of purine and DNA bases, adenine, guanine: [Hpur]2·(AlF5), [Hade]3·(AlF6)·6.5H2O, [Hguan]3·(Al3F12). Solid State Sciences, 2011, 13, 151-157. | 3.2 | 8 |
| 74 | A new one-dimensional hybrid material lattice: AC conductivity and structural characterization of [C7H12N2][CdCl4]. lonics, 2011, 17, 145-155. | 2.4 | 17 |
| 7 5 | 7,9-Bis(hydroxymethyl)-7H-purine-2,6,8(1H,3H,9H)trione. Acta Crystallographica Section E: Structure Reports Online, 2011, 67, o1458-o1458. | 0.2 | 3 |
| 76 | Synthesis, spectroscopy, thermal behavior, and X-ray crystal structure of two lead(II) complexes with $4\hat{a}\in^2$ -(4-tolyl)-2,2 $\hat{a}\in^2$;6 $\hat{a}\in^2$,2 $\hat{a}\in^3$ -terpyridine (ttpy). Journal of Coordination Chemistry, 2011, 64, 4421-4433. | 2.2 | 10 |
| 77 | Novel Layered Hybrid Fluoroaluminate in the Composition Space Diagram of the Al(OH)3-HguaCl-HFaq-EtOH System. Inorganic Chemistry, 2010, 49, 2392-2397. | 4.0 | 17 |
| 78 | Structural chemistry of organically-templated metal fluorides. Dalton Transactions, 2010, 39, 5983. | 3.3 | 58 |
| 79 | Third structure determination by powder diffractometry round robin (SDPDRR-3). Powder Diffraction, 2009, 24, 254-262. | 0.2 | 31 |
| 80 | Crystal chemistry of three new monodimensional fluorometalates templated with ethylenediamine. Solid State Sciences, 2009, 11, 1582-1586. | 3.2 | 11 |
| 81 | Evidence of 13 hybrid fluoroaluminates in the composition space diagram of the Al(OH)3–tren–HF–ethanol system. Journal of Fluorine Chemistry, 2009, 130, 1099-1105. | 1.7 | 20 |
| 82 | Total synthesis of a novel macrotetrolide. Tetrahedron, 2008, 64, 11296-11303. | 1.9 | 12 |
| 83 | Diethylenetriaminium hexafluoridotitanate(IV) fluoride. Acta Crystallographica Section E: Structure Reports Online, 2008, 64, m1375-m1375. | 0.2 | 3 |
| 84 | A new 1D hybrid fluoroaluminate templated by an original tetramine. Polyhedron, 2007, 26, 2493-2497. | 2.2 | 3 |
| 85 | Hydrogen bonded H3O+, H2O, HF, Fâ^' in fluoride metalates (Al, Cr, Fe, Zr, Ta) templated with tren (tris-(2-aminoethyl)amine). Journal of Fluorine Chemistry, 2007, 128, 404-412. | 1.7 | 19 |
| 86 | Bis [tris (2-ammonioethyl) amine] bis (pentafluoridooxidomolybdate) difluoride monohydrate. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, m1511-m1513. | 0.2 | 5 |
| 87 | [H4tren]3/2·(Al6F24)·3H2O, the most condensed fluoride in the Al(OH)3-tren-HFaqethanol system. Solid State Sciences, 2007, 9, 531-534. | 3.2 | 14 |
| 88 | Two-dimensional composition diagram of the Al(OH)3-dien-HFaqethanol system: Evidence of a new tetrahedral (Al4F18)6â^² polyanion. Journal of Fluorine Chemistry, 2006, 127, 1349-1354. | 1.7 | 15 |
| 89 | On isoelectronic fluorides [H3tren]â‹(AlF6)â‹H2O, [H3tren]â‹(AlF6)â‹HF, [H4tren]â‹(AlF6)â‹(F) and the analogue [H4tren]â‹(FeF6)â‹(F). Solid State Sciences, 2006, 8, 698-703. | iron 3.2 | 23 |
| 90 | Diethylenetriaminium hexafluoroaluminate dihydrate. Acta Crystallographica Section E: Structure Reports Online, 2005, 61, m1178-m1180. | 0.2 | 1 |

| # | Article | IF | CITATION |
|----|--|-----|----------|
| 91 | Synthesis and structures of new hybrid fluorides templated by tetraprotonated pentaerythrityl tetramine. Solid State Sciences, 2004, 6, 1229-1235. | 3.2 | 18 |
| 92 | Ternary and tetrahedral symmetry in hybrid fluorides, fluoride carbonates and carbonates. Journal of Fluorine Chemistry, 2004, 125, 1709-1714. | 1.7 | 8 |
| 93 | Tris(2-ammonioethyl)aminium decafluorominium monohydrate, (H4tren)[Al2F10]·H2O. Acta Crystallographica Section E: Structure Reports Online, 2004, 60, m1379-m1381. | 0.2 | 3 |
| 94 | Synthesis, structure determination and magnetic behaviour of the first porous hybrid oxyfluorinated vanado(iii)carboxylate: MIL-71 or Viii2(OH)2F2{O2C-C6H4-CO2}·H2O. Journal of Materials Chemistry, 2003, 13, 2208-2212. | 6.7 | 84 |