Rui-Biao Lin

List of Publications by Citations

Source: https://exaly.com/author-pdf/8744801/rui-biao-lin-publications-by-citations.pdf

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

114
papers8,774
citations48
h-index93
g-index122
ext. papers11,366
ext. citations12
avg, IF6.66
L-index

#	Paper	IF	Citations
114	Ethane/ethylene separation in a metal-organic framework with iron-peroxo sites. <i>Science</i> , 2018 , 362, 443-446	33.3	478
113	Exploration of porous metal Brganic frameworks for gas separation and purification. <i>Coordination Chemistry Reviews</i> , 2019 , 378, 87-103	23.2	368
112	Multifunctional porous hydrogen-bonded organic framework materials. <i>Chemical Society Reviews</i> , 2019 , 48, 1362-1389	58.5	358
111	Single-crystal X-ray diffraction studies on structural transformations of porous coordination polymers. <i>Chemical Society Reviews</i> , 2014 , 43, 5789-814	58.5	353
110	UTSA-74: A MOF-74 Isomer with Two Accessible Binding Sites per Metal Center for Highly Selective Gas Separation. <i>Journal of the American Chemical Society</i> , 2016 , 138, 5678-84	16.4	351
109	Molecular sieving of ethylene from ethane using a rigid metal-organic framework. <i>Nature Materials</i> , 2018 , 17, 1128-1133	27	326
108	Optimized Separation of Acetylene from Carbon Dioxide and Ethylene in a Microporous Material. Journal of the American Chemical Society, 2017 , 139, 8022-8028	16.4	263
107	Strong and dynamic CO2 sorption in a flexible porous framework possessing guest chelating claws. Journal of the American Chemical Society, 2012 , 134, 17380-3	16.4	239
106	Porous metal-organic frameworks for gas storage and separation: Status and challenges. <i>EnergyChem</i> , 2019 , 1, 100006	36.9	235
105	Microporous Metal-Organic Framework Materials for Gas Separation. <i>CheM</i> , 2020 , 6, 337-363	16.2	234
104	Pore surface tailored SOD-type metal-organic zeolites. <i>Advanced Materials</i> , 2011 , 23, 1268-71	24	228
103	Photoluminescent Metal-Organic Frameworks for Gas Sensing. <i>Advanced Science</i> , 2016 , 3, 1500434	13.6	228
102	Metal cluster-based functional porous coordination polymers. <i>Coordination Chemistry Reviews</i> , 2015 , 293-294, 263-278	23.2	215
101	An Ideal Molecular Sieve for Acetylene Removal from Ethylene with Record Selectivity and Productivity. <i>Advanced Materials</i> , 2017 , 29, 1704210	24	213
100	Pore Space Partition within a Metal-Organic Framework for Highly Efficient CH/CO Separation. <i>Journal of the American Chemical Society</i> , 2019 , 141, 4130-4136	16.4	190
99	Boosting Ethane/Ethylene Separation within Isoreticular Ultramicroporous Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2018 , 140, 12940-12946	16.4	186
98	Flexible-Robust Metal-Organic Framework for Efficient Removal of Propyne from Propylene. <i>Journal of the American Chemical Society</i> , 2017 , 139, 7733-7736	16.4	177

(2020-2020)

97	Mixed Metal-Organic Framework with Multiple Binding Sites for Efficient C H /CO Separation. Angewandte Chemie - International Edition, 2020 , 59, 4396-4400	16.4	169
96	Tunable titanium metal®rganic frameworks with infinite 1D Ti® rods for efficient visible-light-driven photocatalytic H2 evolution. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 11928-11933	13	153
95	A noble-metal-free porous coordination framework with exceptional sensing efficiency for oxygen. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 13429-33	16.4	152
94	Turning on the flexibility of isoreticular porous coordination frameworks for drastically tunable framework breathing and thermal expansion. <i>Chemical Science</i> , 2013 , 4, 1539	9.4	144
93	Geometry analysis and systematic synthesis of highly porous isoreticular frameworks with a unique topology. <i>Nature Communications</i> , 2012 , 3, 642	17.4	139
92	Molecular Dynamics of Flexible Polar Cations in a Variable Confined Space: Toward Exceptional Two-Step Nonlinear Optical Switches. <i>Advanced Materials</i> , 2016 , 28, 5886-90	24	137
91	Hydrogen-Bonded Organic Frameworks as a Tunable Platform for Functional Materials. <i>Journal of the American Chemical Society</i> , 2020 , 142, 14399-14416	16.4	132
90	Solvent/additive-free synthesis of porous/zeolitic metal azolate frameworks from metal oxide/hydroxide. <i>Chemical Communications</i> , 2011 , 47, 9185-7	5.8	131
89	A zeolite-like zinc triazolate framework with high gas adsorption and separation performance. <i>Inorganic Chemistry</i> , 2012 , 51, 9950-5	5.1	124
88	A flexible metal azolate framework with drastic luminescence response toward solvent vapors and carbon dioxide. <i>Chemical Science</i> , 2011 , 2, 2214	9.4	109
87	Direct visualization of a guest-triggered crystal deformation based on a flexible ultramicroporous framework. <i>Nature Communications</i> , 2013 , 4, 2534	17.4	106
86	A stable zirconium based metal-organic framework for specific recognition of representative polychlorinated dibenzo-p-dioxin molecules. <i>Nature Communications</i> , 2019 , 10, 3861	17.4	98
85	Our journey of developing multifunctional metal-organic frameworks. <i>Coordination Chemistry Reviews</i> , 2019 , 384, 21-36	23.2	86
84	Coordination templated [2+2+2] cyclotrimerization in a porous coordination framework. <i>Nature Communications</i> , 2015 , 6, 8348	17.4	84
83	A Metal-Organic Framework with Suitable Pore Size and Specific Functional Sites for the Removal of Trace Propyne from Propylene. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 15183-15188	16.4	83
82	Encapsulating Pyrene in a Metal©rganic Zeolite for Optical Sensing of Molecular Oxygen. <i>Chemistry of Materials</i> , 2015 , 27, 8255-8260	9.6	81
81	A Metal-Organic Framework with Optimized Porosity and Functional Sites for High Gravimetric and Volumetric Methane Storage Working Capacities. <i>Advanced Materials</i> , 2018 , 30, e1704792	24	81
80	Tuning Gate-Opening of a Flexible Metal-Organic Framework for Ternary Gas Sieving Separation. Angewandte Chemie - International Edition, 2020, 59, 22756-22762	16.4	73

79	The cation-dependent structural phase transition and dielectric response in a family of cyano-bridged perovskite-like coordination polymers. <i>Dalton Transactions</i> , 2016 , 45, 4224-9	4.3	72
78	Porous Cu(I) Triazolate Framework and Derived Hybrid Membrane with Exceptionally High Sensing Efficiency for Gaseous Oxygen. <i>Advanced Functional Materials</i> , 2014 , 24, 5866-5872	15.6	72
77	Zeolitic metal azolate frameworks (MAFs) from ZnO/Zn(OH)2 and monoalkyl-substituted imidazoles and 1,2,4-triazoles: Efficient syntheses and properties. <i>Microporous and Mesoporous Materials</i> , 2012 , 157, 42-49	5.3	69
76	Efficient separation of ethylene from acetylene/ethylene mixtures by a flexible-robust metalBrganic framework. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 18984-18988	13	68
75	Kinetic separation of propylene over propane in a microporous metal-organic framework. <i>Chemical Engineering Journal</i> , 2018 , 354, 977-982	14.7	67
74	An Ultramicroporous Metal-Organic Framework for High Sieving Separation of Propylene from Propane. <i>Journal of the American Chemical Society</i> , 2020 , 142, 17795-17801	16.4	67
73	Optimizing Pore Space for Flexible-Robust Metal-Organic Framework to Boost Trace Acetylene Removal. <i>Journal of the American Chemical Society</i> , 2020 , 142, 9744-9751	16.4	66
72	Doubly Interpenetrated Metal©rganic Framework for Highly Selective C2H2/CH4 and C2H2/CO2 Separation at Room Temperature. <i>Crystal Growth and Design</i> , 2016 , 16, 7194-7197	3.5	65
71	New Zn-Aminotriazolate-Dicarboxylate Frameworks: Synthesis, Structures, and Adsorption Properties. <i>Crystal Growth and Design</i> , 2013 , 13, 2118-2123	3.5	64
70	Highly-connected, porous coordination polymers based on [M4(B-OH)2] (M = Co(II) and Ni(II)) clusters: different networks, adsorption and magnetic properties. <i>Dalton Transactions</i> , 2012 , 41, 4199-7	206 ³	64
69	Two solvent-induced porous hydrogen-bonded organic frameworks: solvent effects on structures and functionalities. <i>Chemical Communications</i> , 2017 , 53, 11150-11153	5.8	58
68	Phosphorescence doping in a flexible ultramicroporous framework for high and tunable oxygen sensing efficiency. <i>Chemical Communications</i> , 2013 , 49, 6864-6	5.8	58
67	Fine-tuning of nano-traps in a stable metalorganic framework for highly efficient removal of propyne from propylene. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 6931-6937	13	57
66	Optimization of the Pore Structures of MOFs for Record High Hydrogen Volumetric Working Capacity. <i>Advanced Materials</i> , 2020 , 32, e1907995	24	48
65	Ethylene/ethane separation in a stable hydrogen-bonded organic framework through a gating mechanism. <i>Nature Chemistry</i> , 2021 , 13, 933-939	17.6	45
64	Tuning fluorocarbon adsorption in new isoreticular porous coordination frameworks for heat transformation applications. <i>Chemical Science</i> , 2015 , 6, 2516-2521	9.4	44
63	High-symmetry hydrogen-bonded organic frameworks: air separation and crystal-to-crystal structural transformation. <i>Chemical Communications</i> , 2016 , 52, 4991-4	5.8	39
62	Microporous Metal-Organic Framework with Dual Functionalities for Efficient Separation of Acetylene from Light Hydrocarbon Mixtures. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7,	8.3	39

(2017-2020)

61	Gas Separation via Hybrid Metal©rganic Framework/Polymer Membranes. <i>Trends in Chemistry</i> , 2020 , 2, 254-269	14.8	38
60	Achieving High Performance Metal-Organic Framework Materials through Pore Engineering. <i>Accounts of Chemical Research</i> , 2021 , 54, 3362-3376	24.3	37
59	Low-dimensional porous coordination polymers based on 1,2-bis(4-pyridyl)hydrazine: from structure diversity to ultrahigh CO2/CH4 selectivity. <i>Inorganic Chemistry</i> , 2012 , 51, 5686-92	5.1	35
58	Flexible porous coordination polymers constructed from 1,2-bis(4-pyridyl)hydrazine via solvothermal in situ reduction of 4,4@azopyridine. <i>Dalton Transactions</i> , 2011 , 40, 8549-54	4.3	33
57	A novel mesoporous hydrogen-bonded organic framework with high porosity and stability. <i>Chemical Communications</i> , 2019 , 56, 66-69	5.8	33
56	Mixed Metal®rganic Framework with Multiple Binding Sites for Efficient C2H2/CO2 Separation. <i>Angewandte Chemie</i> , 2020 , 132, 4426-4430	3.6	32
55	A Metal®rganic Framework with Suitable Pore Size and Specific Functional Sites for the Removal of Trace Propyne from Propylene. <i>Angewandte Chemie</i> , 2018 , 130, 15403-15408	3.6	30
54	Controlling the flexibility and single-crystal to single-crystal interpenetration reconstitution of metal-organic frameworks. <i>Chemical Communications</i> , 2015 , 51, 12665-8	5.8	29
53	Mesoporous Metal-Organic Frameworks with Exceptionally High Working Capacities for Adsorption Heat Transformation. <i>Advanced Materials</i> , 2018 , 30, 1704350	24	29
52	Microporous Copper Isophthalate Framework of mot Topology for C2H2/CO2 Separation. <i>Crystal Growth and Design</i> , 2019 , 19, 5829-5835	3.5	27
51	Electrostatically Driven Selective Adsorption of Carbon Dioxide over Acetylene in an Ultramicroporous Material. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 9604-9609	16.4	26
50	A Microporous Hydrogen-Bonded Organic Framework for the Efficient Capture and Purification of Propylene. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 20400-20406	16.4	26
49	Separation of C2 hydrocarbons from methane in a microporous metal-organic framework. <i>Journal of Solid State Chemistry</i> , 2018 , 258, 346-350	3.3	25
48	A microporous metalorganic framework for selective C 2 H 2 and CO 2 separation. <i>Journal of Solid State Chemistry</i> , 2017 , 252, 138-141	3.3	24
47	A microporous metal-organic framework of sql topology for C2H2/CO2 separation. <i>Inorganica Chimica Acta</i> , 2019 , 495, 118938	2.7	24
46	New porous coordination polymers based on expanded pyridyl-dicarboxylate ligands and a paddle-wheel cluster. <i>CrystEngComm</i> , 2014 , 16, 6325-6330	3.3	24
45	Structural, energetic, and dynamic insights into the abnormal xylene separation behavior of hierarchical porous crystal. <i>Scientific Reports</i> , 2015 , 5, 11537	4.9	24
44	Two-dimensional metal B rganic frameworks for selective separation of CO2/CH4 and CO2/N2. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 1514-1519	7.8	23

43	Copper(I) 2-Isopropylimidazolate: Supramolecular Isomerism, Isomerization, and Luminescent Properties. <i>Crystal Growth and Design</i> , 2015 , 15, 1735-1739	3.5	22
42	Nickel-4Q(3,5-dicarboxyphenyl)-2,2QQ?-terpyridine Framework: Efficient Separation of Ethylene from Acetylene/Ethylene Mixtures with a High Productivity. <i>Inorganic Chemistry</i> , 2018 , 57, 9489-9494	5.1	22
41	Highly Enhanced Gas Uptake and Selectivity via Incorporating Methoxy Groups into a Microporous Metal Drganic Framework. <i>Crystal Growth and Design</i> , 2017 , 17, 2172-2177	3.5	21
40	A two-dimensional microporous metalörganic framework for highly selective adsorption of carbon dioxide and acetylene. <i>Chinese Chemical Letters</i> , 2017 , 28, 1653-1658	8.1	21
39	Separation of C2/C1 hydrocarbons through a gate-opening effect in a microporous metalBrganic framework. <i>CrystEngComm</i> , 2017 , 19, 6896-6901	3.3	21
38	Tuning Gate-Opening of a Flexible Metal Drganic Framework for Ternary Gas Sieving Separation. <i>Angewandte Chemie</i> , 2020 , 132, 22944-22950	3.6	21
37	A microporous metal-organic framework with naphthalene diimide groups for high methane storage. <i>Dalton Transactions</i> , 2020 , 49, 3658-3661	4.3	21
36	A Noble-Metal-Free Porous Coordination Framework with Exceptional Sensing Efficiency for Oxygen. <i>Angewandte Chemie</i> , 2013 , 125, 13671-13675	3.6	20
35	Fine pore engineering in a series of isoreticular metal-organic frameworks for efficient CH/CO separation <i>Nature Communications</i> , 2022 , 13, 200	17.4	20
34	Metal D rganic Framework with Trifluoromethyl Groups for Selective C2H2 and CO2 Adsorption. <i>Crystal Growth and Design</i> , 2018 , 18, 4522-4527	3.5	18
33	Construction of a thiourea-based metalBrganic framework with open Ag+ sites for the separation of propene/propane mixtures. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 25567-25572	13	17
32	An Ultramicroporous Metal © rganic Framework for Sieving Separation of Carbon Dioxide from Methane. <i>Small Structures</i> , 2020 , 1, 2000022	8.7	16
31	Reticular Chemistry of Multifunctional Metal-Organic Framework Materials. <i>Israel Journal of Chemistry</i> , 2018 , 58, 949-961	3.4	16
30	Metal-ion controlled solid-state reactivity and photoluminescence in two isomorphous coordination polymers. <i>Inorganic Chemistry Frontiers</i> , 2014 , 1, 172	6.8	15
29	Reducing CO2 with Stable Covalent Organic Frameworks. <i>Joule</i> , 2018 , 2, 1030-1032	27.8	15
28	Unique (3,9)-connected porous coordination polymers constructed by tripodal ligands with bent arms. <i>CrystEngComm</i> , 2016 , 18, 4115-4120	3.3	14
27	Highly Selective Adsorption of Carbon Dioxide over Acetylene in an Ultramicroporous Metal-Organic Framework. <i>Advanced Materials</i> , 2021 , 33, e2105880	24	14
26	Restraining the motion of a ligand for modulating the structural phase transition in two isomorphic polar coordination polymers. <i>Dalton Transactions</i> , 2014 , 43, 9008-11	4.3	12

25	How Reproducible are Surface Areas Calculated from the BET Equation?. Advanced Materials, 2201502	24	12
24	Tuning oxygen-sensing behaviour of a porous coordination framework by a guest fluorophore. <i>Inorganic Chemistry Frontiers</i> , 2015 , 2, 1085-1090	6.8	11
23	Isoreticular Microporous Metal-Organic Frameworks for Carbon Dioxide Capture. <i>Inorganic Chemistry</i> , 2020 , 59, 17143-17148	5.1	11
22	Conjugated Microporous Polymers with Rigid Backbones for Organic Solvent Nanofiltration. <i>CheM</i> , 2018 , 4, 2269-2271	16.2	11
21	A microporous metal-organic framework with basic sites for efficient C2H2/CO2 separation. Journal of Solid State Chemistry, 2020 , 284, 121209	3.3	10
20	Syntheses, structures and gas sorption properties of two coordination polymers with a unique type of supramolecular isomerism. <i>Inorganic Chemistry Frontiers</i> , 2015 , 2, 136-140	6.8	8
19	Guest-containing supramolecular isomers of silver(I) 3,5-dialkyl-1,2,4-triazolates: syntheses, structures, and structural transformation behaviours. <i>CrystEngComm</i> , 2015 , 17, 8843-8849	3.3	8
18	Doubly Interpenetrated Metal-Organic Framework of pcu Topology for Selective Separation of Propylene from Propane. <i>ACS Applied Materials & Distributed Materials & Distribute</i>	9.5	8
17	Realization of Ethylene Production from Its Quaternary Mixture through Metal-Organic Framework Materials. <i>ACS Applied Materials & amp; Interfaces</i> , 2021 , 13, 22514-22520	9.5	8
16	Maximizing acetylene packing density for highly efficient C2H2/CO2 separation through immobilization of amine sites within a prototype MOF. <i>Chemical Engineering Journal</i> , 2022 , 431, 134184	14.7	7
15	Electrostatically Driven Selective Adsorption of Carbon Dioxide over Acetylene in an Ultramicroporous Material. <i>Angewandte Chemie</i> , 2021 , 133, 9690-9695	3.6	7
14	Efficient Separation of Propylene from Propane in an Ultramicroporous Cyanide-Based Compound with Open Metal Sites. <i>Small Structures</i> ,2100125	8.7	6
13	Of HOF hosts. <i>Nature Chemistry</i> , 2019 , 11, 1078-1080	17.6	4
12	A Molecular Compound for Highly Selective Purification of Ethylene. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	4
11	Old Materials for New Functions: Recent Progress on Metal Cyanide Based Porous Materials. <i>Advanced Science</i> , 2021 , e2104234	13.6	4
10	Mechanochemical synthesis of an ethylene sieve UTSA-280. <i>Journal of Solid State Chemistry</i> , 2020 , 287, 121321	3.3	3
9	Emerging 2D functional metal-organic framework materials. <i>National Science Review</i> , 2020 , 7, 3-5	10.8	3
8	Novel route to size-controlled synthesis of MnFeO@MOF core-shell nanoparticles. <i>Journal of Solid State Chemistry</i> , 2020 , 283, 121127-121127	3.3	3

7	Photoluminescence: Porous Cu(I) Triazolate Framework and Derived Hybrid Membrane with Exceptionally High Sensing Efficiency for Gaseous Oxygen (Adv. Funct. Mater. 37/2014). <i>Advanced Functional Materials</i> , 2014 , 24, 5928-5928	15.6	2
6	Identifying the Gate-Opening Mechanism in the Flexible Metal-Organic Framework UTSA-300 <i>Inorganic Chemistry</i> , 2022 ,	5.1	2
5	An ultramicroporous metalBrganic framework with dual functionalities for high sieving separation of CO2 from CH4 and N2. <i>Chemical Engineering Journal</i> , 2022 , 446, 137101	14.7	2
4	Collaborative interactions to enhance gas binding energy in porous metal-organic frameworks. <i>IUCrJ</i> , 2017 , 4, 106-107	4.7	1
3	Microporous Zinc Formate for Efficient Separation of Acetylene over Carbon Dioxide. <i>Chemical Research in Chinese Universities</i> , 2022 , 38, 87-91	2.2	1
2	A dynamic MOF for efficient purification of propylene. <i>Science China Chemistry</i> , 2021 , 64, 2053	7.9	О
1	Single-side and double-side swing behaviours of a flexible porous coordination polymer with a rhombic-lattice structure. <i>CrystEngComm</i> , 2019 , 21, 1872-1875	3.3	