

Zhi-Yuan Gu

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69

papers

9,817

citations

35

h-index

78

g-index

78

ext. papers

10,960

ext. citations

9.4

avg, IF

6.34

L-index

#	Paper	IF	Citations
69	Tuning the structure and function of metal-organic frameworks via linker design. <i>Chemical Society Reviews</i> , 2014 , 43, 5561-93	58.5	1441
68	Zirconium-metalloporphyrin PCN-222: mesoporous metal-organic frameworks with ultrahigh stability as biomimetic catalysts. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 10307-10	16.4	1236
67	Construction of ultrastable porphyrin Zr metal-organic frameworks through linker elimination. <i>Journal of the American Chemical Society</i> , 2013 , 135, 17105-10	16.4	700
66	Metal-organic frameworks for analytical chemistry: from sample collection to chromatographic separation. <i>Accounts of Chemical Research</i> , 2012 , 45, 734-45	24.3	564
65	An exceptionally stable, porphyrinic Zr metal-organic framework exhibiting pH-dependent fluorescence. <i>Journal of the American Chemical Society</i> , 2013 , 135, 13934-8	16.4	550
64	Stable metal-organic frameworks containing single-molecule traps for enzyme encapsulation. <i>Nature Communications</i> , 2015 , 6, 5979	17.4	422
63	Rigidifying fluorescent linkers by metal-organic framework formation for fluorescence blue shift and quantum yield enhancement. <i>Journal of the American Chemical Society</i> , 2014 , 136, 8269-76	16.4	422
62	Metal-organic framework MIL-101 for high-resolution gas-chromatographic separation of xylene isomers and ethylbenzene. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 1477-80	16.4	368
61	Zeolitic imidazolate framework-8 nanocrystal coated capillary for molecular sieving of branched alkanes from linear alkanes along with high-resolution chromatographic separation of linear alkanes. <i>Journal of the American Chemical Society</i> , 2010 , 132, 13645-7	16.4	321
60	In situ hydrothermal growth of metal-organic framework 199 films on stainless steel fibers for solid-phase microextraction of gaseous benzene homologues. <i>Analytical Chemistry</i> , 2009 , 81, 9771-7	7.8	315
59	A highly stable porphyrinic zirconium metal-organic framework with shp-a topology. <i>Journal of the American Chemical Society</i> , 2014 , 136, 17714-7	16.4	286
58	Multiwalled carbon nanotubes coated fibers for solid-phase microextraction of polybrominated diphenyl ethers in water and milk samples before gas chromatography with electron-capture detection. <i>Journal of Chromatography A</i> , 2006 , 1137, 8-14	4.5	261
57	Metal-organic-framework-based tandem molecular sieves as a dual platform for selective microextraction and high-resolution gas chromatographic separation of n-alkanes in complex matrixes. <i>Analytical Chemistry</i> , 2011 , 83, 7094-101	7.8	249
56	Metal-Organic Frameworks as Biomimetic Catalysts. <i>ChemCatChem</i> , 2014 , 6, 67-75	5.2	233
55	Zirconium-Metalloporphyrin PCN-222: Mesoporous Metal-Organic Frameworks with Ultrahigh Stability as Biomimetic Catalysts. <i>Angewandte Chemie</i> , 2012 , 124, 10453-10456	3.6	231
54	MOF-5 metal-organic framework as sorbent for in-field sampling and preconcentration in combination with thermal desorption GC/MS for determination of atmospheric formaldehyde. <i>Analytical Chemistry</i> , 2010 , 82, 1365-70	7.8	202
53	Metal-organic frameworks for efficient enrichment of peptides with simultaneous exclusion of proteins from complex biological samples. <i>Chemical Communications</i> , 2011 , 47, 4787-9	5.8	186

52	Metal-organic frameworks based on previously unknown Zr ₈ /Hf ₈ cubic clusters. <i>Inorganic Chemistry</i> , 2013 , 52, 12661-7	5.1	170
51	Probing the adsorption characteristic of metal-organic framework MIL-101 for volatile organic compounds by quartz crystal microbalance. <i>Environmental Science & Technology</i> , 2011 , 45, 4490-6	10.3	167
50	Two-Dimensional Metal-Organic Framework Nanosheets as an Enzyme Inhibitor: Modulation of the Chymotrypsin Activity. <i>Journal of the American Chemical Society</i> , 2017 , 139, 8312-8319	16.4	139
49	Adsorption and Separation of Xylene Isomers and Ethylbenzene on Two Zn ^{II} terephthalate Metal-Organic Frameworks. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 311-316	3.8	135
48	Fabrication of isorecticular metal-organic framework coated capillary columns for high-resolution gas chromatographic separation of persistent organic pollutants. <i>Analytical Chemistry</i> , 2011 , 83, 5093-100	7.8	118
47	Biomimicry in metal-organic materials. <i>Coordination Chemistry Reviews</i> , 2015 , 293-294, 327-356	23.2	108
46	Confinement of metal-organic polyhedra in silica nanopores. <i>Journal of the American Chemical Society</i> , 2012 , 134, 15923-8	16.4	108
45	Cathodized copper porphyrin metal-organic framework nanosheets for selective formate and acetate production from CO electroreduction. <i>Chemical Science</i> , 2019 , 10, 2199-2205	9.4	106
44	Photosensitizer-Anchored 2D MOF Nanosheets as Highly Stable and Accessible Catalysts toward Artemisinin Production. <i>Advanced Science</i> , 2019 , 6, 1802059	13.6	60
43	Ultrahigh adsorption and singlet-oxygen mediated degradation for efficient synergetic removal of bisphenol A by a stable zirconium-porphyrin metal-organic framework. <i>Scientific Reports</i> , 2017 , 7, 6297	4.9	58
42	Two-dimensional metal-organic framework nanosheets as a matrix for laser desorption/ionization of small molecules and monitoring enzymatic reactions at high salt concentrations. <i>Chemical Communications</i> , 2016 , 52, 12984-12987	5.8	57
41	Topology-guided design of an anionic bor-network for photocatalytic [Ru(bpy) ₃](2+) encapsulation. <i>Chemical Communications</i> , 2016 , 52, 1926-9	5.8	54
40	Untwisted restacking of two-dimensional metal-organic framework nanosheets for highly selective isomer separations. <i>Nature Communications</i> , 2019 , 10, 2911	17.4	53
39	Two-Dimensional Metal-Organic Framework Nanosheets: A Rapidly Growing Class of Versatile Nanomaterials for Gas Separation, MALDI-TOF Matrix and Biomimetic Applications. <i>Chemistry - A European Journal</i> , 2018 , 24, 15131-15142	4.8	49
38	Copper-based two-dimensional metal-organic framework nanosheets as horseradish peroxidase mimics for glucose fluorescence sensing. <i>Analytica Chimica Acta</i> , 2019 , 1079, 164-170	6.6	47
37	Enrichment of Phosphorylated Peptides with Metal-Organic Framework Nanosheets for Serum Profiling of Diabetes and Phosphoproteomics Analysis. <i>Analytical Chemistry</i> , 2018 , 90, 13796-13805	7.8	41
36	Metal-Organic Framework MIL-101 for High-Resolution Gas-Chromatographic Separation of Xylene Isomers and Ethylbenzene. <i>Angewandte Chemie</i> , 2010 , 122, 1519-1522	3.6	39
35	Ultrathin 2D nickel zeolitic imidazolate framework nanosheets for electrocatalytic reduction of CO. <i>Chemical Communications</i> , 2019 , 55, 11634-11637	5.8	35

34	Two-Dimensional Metal-Organic Framework Nanosheets with Cobalt-Porphyrins for High-Performance CO Electroreduction. <i>Chemistry - A European Journal</i> , 2020 , 26, 1604-1611	4.8	33
33	Metal-Organic-Framework-based Gas Chromatographic Separation. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 3462-3473	4.5	26
32	Highly Selective Capture of Monophosphopeptides by Two-Dimensional Metal-Organic Framework Nanosheets. <i>Analytical Chemistry</i> , 2019 , 91, 9093-9101	7.8	22
31	In situ transformation of bismuth metal-organic frameworks for efficient selective electroreduction of CO ₂ to formate. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 24486-24492	13	19
30	Ultrahigh efficient laser desorption ionization of saccharides by Ti-based metal-organic framework nanosheets. <i>Analytica Chimica Acta</i> , 2018 , 1032, 91-98	6.6	17
29	A hydrophilic two-dimensional titanium-based metal-organic framework nanosheets for specific enrichment of glycopeptides. <i>Analytica Chimica Acta</i> , 2020 , 1119, 60-67	6.6	15
28	Discovery of precise pH-controlled biomimetic catalysts: defective zirconium metal-organic frameworks as alkaline phosphatase mimics. <i>Nanoscale</i> , 2019 , 11, 11270-11278	7.7	14
27	Nonlinear Ion Transport through Ultrathin Metal-Organic Framework Nanosheet. <i>Advanced Functional Materials</i> , 2020 , 30, 2004854	15.6	14
26	Controlling the Stacking Modes of Metal-Organic Framework Nanosheets through Host-Guest Noncovalent Interactions. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 6920-6925	16.4	12
25	Solid-state nanopores for ion and small molecule analysis. <i>Chinese Chemical Letters</i> , 2019 , 30, 1607-1617	8.1	11
24	Indium-Based Metal-Organic Framework for High-Performance Electroreduction of CO to Formate. <i>Inorganic Chemistry</i> , 2020 , 59, 11298-11304	5.1	10
23	Regulating metal-organic frameworks as stationary phases and absorbents for analytical separations. <i>Analytical Methods</i> , 2021 , 13, 1318-1331	3.2	8
22	An Exfoliated 2D Egyptian Blue Nanosheet for Highly Selective Enrichment of Multi-phosphorylated Peptides in Mass Spectrometric Analysis. <i>Chemistry - A European Journal</i> , 2018 , 24, 2109-2116	4.8	8
21	Recent applications of metal-organic frameworks in matrix-assisted laser desorption/ionization mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2019 , 411, 4509-4522	4.4	7
20	Precise Spatial-Designed Metal-Organic-Framework Nanosheets for Efficient Energy Transfer and Photocatalysis. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 27258	16.4	7
19	Modulating the stacking modes of nanosized metal-organic frameworks by morphology engineering for isomer separation. <i>Chemical Science</i> , 2021 , 12, 4104-4110	9.4	7
18	Ultramicroporous metal-organic frameworks for capillary gas chromatographic separation. <i>Journal of Chromatography A</i> , 2020 , 1632, 461604	4.5	6
17	H ₃ O(+) tetrahedron induction in large negative linear compressibility. <i>Scientific Reports</i> , 2016 , 6, 26015	4.9	5

16	Highly efficient enrichment of N-glycopeptides by two-dimensional Hf-based metal-organic framework nanosheets. <i>Analyst, The</i> , 2020 , 145, 4432-4435	5	4
15	Sn-based metal-organic framework for highly selective capture of monophosphopeptides. <i>Talanta</i> , 2021 , 224, 121812	6.2	4
14	Enhancing selectivity through decrypting the uncoordinated zirconium sites in MOF electrocatalysts. <i>Chemical Communications</i> , 2021 , 57, 5191-5194	5.8	4
13	An Exfoliated 2D Egyptian Blue Nanosheet for Highly Selective Enrichment of Multi-Phosphorylated Peptides in Mass Spectrometric Analysis. <i>Chemistry - A European Journal</i> , 2018 , 24, 2024-2024	4.8	3
12	Titelbild: Zirconium-Metalloporphyrin PCN-222: Mesoporous Metal-Organic Frameworks with Ultrahigh Stability as Biomimetic Catalysts (Angew. Chem. 41/2012). <i>Angewandte Chemie</i> , 2012 , 124, 10343-10343	3.6	3
11	Harnessing biological nanopore technology to track chemical changes. <i>TrAC - Trends in Analytical Chemistry</i> , 2020 , 133, 116091	14.6	3
10	A metal-organic framework with tunable exposed facets as a high-affinity artificial receptor for enzyme inhibition. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 3687-3694	6.8	3
9	Two-dimensional materials as solid-state nanopores for chemical sensing. <i>Dalton Transactions</i> , 2021 , 50, 13608-13619	4.3	3
8	Sn(101) Derived from Metal-Organic Frameworks for Efficient Electrocatalytic Reduction of CO. <i>Inorganic Chemistry</i> , 2021 , 60, 9653-9659	5.1	2
7	Controlling the Stacking Modes of Metal-Organic Framework Nanosheets through Host-Guest Noncovalent Interactions. <i>Angewandte Chemie</i> , 2021 , 133, 6996-7001	3.6	2
6	Metal-Organic Frameworks: Photosensitizer-Anchored 2D MOF Nanosheets as Highly Stable and Accessible Catalysts toward Artemisinin Production (Adv. Sci. 11/2019). <i>Advanced Science</i> , 2019 , 6, 1970064	13.6	1
5	Homogeneously Mixing Different Metal-Organic Framework Structures in Single Nanocrystals through Forming Solid Solutions.. <i>ACS Central Science</i> , 2022 , 8, 184-191	16.8	1
4	Frontispiece: Controlling the Stacking Modes of Metal-Organic Framework Nanosheets through Host-Guest Noncovalent Interactions. <i>Angewandte Chemie - International Edition</i> , 2021 , 60,	16.4	1
3	Frontispiece: Two-Dimensional Metal-Organic Framework Nanosheets: A Rapidly Growing Class of Versatile Nanomaterials for Gas Separation, MALDI-TOF Matrix and Biomimetic Applications. <i>Chemistry - A European Journal</i> , 2018 , 24,	4.8	1
2	Precise Spatial-Designed Metal-Organic-Framework Nanosheets for Efficient Energy Transfer and Photocatalysis. <i>Angewandte Chemie</i> , 2021 , 133, 27464	3.6	0
1	Enhancing the enzymatic inhibition performance of Cu-based metal-organic frameworks by shortening the organic ligands. <i>Analyst, The</i> , 2021 , 146, 4235-4241	5	