

Karen Leus

List of Publications by Citations

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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.

90
papers

3,354
citations

32
h-index

55
g-index

98
ext. papers

4,171
ext. citations

7.2
avg. IF

5.6
L-index

#	Paper	IF	Citations
90	Mixed-metal metal-organic frameworks. <i>Chemical Society Reviews</i> , 2019 , 48, 2535-2565	58.5	292
89	Technologies for Arsenic Removal from Water: Current Status and Future Perspectives. <i>International Journal of Environmental Research and Public Health</i> , 2015 , 13, ijerph13010062	4.6	219
88	Systematic study of the chemical and hydrothermal stability of selected Metal Organic Frameworks. <i>Microporous and Mesoporous Materials</i> , 2016 , 226, 110-116	5.3	197
87	Synthesis, crystal structures, and luminescence properties of carboxylate based rare-earth coordination polymers. <i>Inorganic Chemistry</i> , 2012 , 51, 11623-34	5.1	160
86	Understanding Intrinsic Light Absorption Properties of UiO-66 Frameworks: A Combined Theoretical and Experimental Study. <i>Inorganic Chemistry</i> , 2015 , 54, 10701-10	5.1	117
85	The remarkable catalytic activity of the saturated metal organic framework V-MIL-47 in the cyclohexene oxidation. <i>Chemical Communications</i> , 2010 , 46, 5085-7	5.8	103
84	The coordinatively saturated vanadium MIL-47 as a low leaching heterogeneous catalyst in the oxidation of cyclohexene. <i>Journal of Catalysis</i> , 2012 , 285, 196-207	7.3	87
83	Covalent triazine frameworks – a sustainable perspective. <i>Green Chemistry</i> , 2020 , 22, 1038-1071	10	75
82	A fluorine-containing hydrophobic covalent triazine framework with excellent selective CO ₂ capture performance. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 6370-6375	13	74
81	Engineering a Highly Defective Stable UiO-66 with Tunable Lewis- Brønsted Acidity: The Role of the Hemilabile Linker. <i>Journal of the American Chemical Society</i> , 2020 , 142, 3174-3183	16.4	73
80	Metal-Organic Frameworks as Selective or Chiral Oxidation Catalysts. <i>Catalysis Reviews - Science and Engineering</i> , 2014 , 56, 1-56	12.6	73
79	Biocompatible Zr-based nanoscale MOFs coated with modified poly(ϵ -caprolactone) as anticancer drug carriers. <i>International Journal of Pharmaceutics</i> , 2016 , 509, 208-218	6.5	72
78	New Functionalized Metal-Organic Frameworks MIL-47-X (X = Cl, Br, CH ₃ , CF ₃ , OH, DCH ₃): Synthesis, Characterization, and CO ₂ Adsorption Properties. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 22784-22796	3.8	72
77	Acetylacetone Covalent Triazine Framework: An Efficient Carbon Capture and Storage Material and a Highly Stable Heterogeneous Catalyst. <i>Chemistry of Materials</i> , 2018 , 30, 4102-4111	9.6	63
76	New V(IV)-based metal-organic framework having framework flexibility and high CO ₂ adsorption capacity. <i>Inorganic Chemistry</i> , 2013 , 52, 113-20	5.1	63
75	Removal of arsenic and mercury species from water by covalent triazine framework encapsulated FeO nanoparticles. <i>Journal of Hazardous Materials</i> , 2018 , 353, 312-319	12.8	60
74	Newly Designed Covalent Triazine Framework Based on Novel N-Heteroaromatic Building Blocks for Efficient CO and H ₂ Capture and Storage. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 1244-1249	9.5	59

73	Fe ₃ O ₄ @MIL-101 [A Selective and Regenerable Adsorbent for the Removal of As Species from Water. <i>European Journal of Inorganic Chemistry</i> , 2016 , 2016, 4395-4401	2.3	56
72	Strongly Reducing (Diarylamino)benzene-Based Covalent Organic Framework for Metal-Free Visible Light Photocatalytic HO Generation. <i>Journal of the American Chemical Society</i> , 2020 , 142, 20107-20116	16.4	56
71	Understanding the Charge Storage Mechanism to Achieve High Capacity and Fast Ion Storage in Sodium-Ion Capacitor Anodes by Using Electrospun Nitrogen-Doped Carbon Fibers. <i>Advanced Functional Materials</i> , 2019 , 29, 1902858	15.6	54
70	Triggering White-Light Emission in a 2D Imine Covalent Organic Framework Through Lanthanide Augmentation. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 27343-27352	9.5	54
69	Au@UiO-66: a base free oxidation catalyst. <i>RSC Advances</i> , 2015 , 5, 22334-22342	3.7	49
68	UiO-66-(SH) as stable, selective and regenerable adsorbent for the removal of mercury from water under environmentally-relevant conditions. <i>Faraday Discussions</i> , 2017 , 201, 145-161	3.6	48
67	Vanadium metal-organic frameworks: structures and applications. <i>New Journal of Chemistry</i> , 2014 , 38, 1853-1867	3.6	48
66	Progress in hydrometallurgical technologies to recover critical raw materials and precious metals from low-concentrated streams. <i>Resources, Conservation and Recycling</i> , 2019 , 142, 177-188	11.9	48
65	A MoVI grafted Metal Organic Framework: Synthesis, characterization and catalytic investigations. <i>Journal of Catalysis</i> , 2014 , 316, 201-209	7.3	45
64	Removal of Pesticides from Aqueous Solutions by Adsorption on Zeolites as Solid Adsorbents. <i>Adsorption Science and Technology</i> , 2015 , 33, 457-485	3.6	45
63	Synthesis, Structural Characterization, and Catalytic Performance of a Vanadium-Based Metal-Organic Framework (COMOC-3). <i>European Journal of Inorganic Chemistry</i> , 2012 , 2012, 2819-2827	2.3	44
62	l-proline modulated zirconium metal organic frameworks: Simple chiral catalysts for the aldol addition reaction. <i>Journal of Catalysis</i> , 2018 , 365, 36-42	7.3	43
61	POM@IL-MOFs [Inclusion of POMs in ionic liquid modified MOFs to produce recyclable oxidation catalysts. <i>Catalysis Science and Technology</i> , 2017 , 7, 1478-1487	5.5	42
60	Raman spectroscopic study of bacterial endospores. <i>Analytical and Bioanalytical Chemistry</i> , 2007 , 389, 2143-51	4.4	36
59	Mechanistic insight into the cyclohexene epoxidation with VO(acac) ₂ and tert-butyl hydroperoxide. <i>Journal of Catalysis</i> , 2012 , 294, 1-18	7.3	34
58	Metal-free activation of molecular oxygen by covalent triazine frameworks for selective aerobic oxidation. <i>Science Advances</i> , 2020 , 6, eaaz2310	14.3	32
57	Bimetallic-Organic Framework as a Zero-Leaching Catalyst in the Aerobic Oxidation of Cyclohexene. <i>ChemCatChem</i> , 2013 , 5, 3657-3664	5.2	32
56	Atomic Layer Deposition of Pt Nanoparticles within the Cages of MIL-101: A Mild and Recyclable Hydrogenation Catalyst. <i>Nanomaterials</i> , 2016 , 6,	5.4	32

55	Comparison of different solid adsorbents for the removal of mobile pesticides from aqueous solutions. <i>Adsorption</i> , 2015 , 21, 243-254	2.6	30
54	Ti-functionalized NH ₂ -MIL-47: An effective and stable epoxidation catalyst. <i>Catalysis Today</i> , 2013 , 208, 97-105	5.3	30
53	Catalytic oxidative desulfurization of model and real diesel over a molybdenum anchored metal-organic framework. <i>Microporous and Mesoporous Materials</i> , 2019 , 277, 245-252	5.3	29
52	A Visible-Light-Harvesting Covalent Organic Framework Bearing Single Nickel Sites as a Highly Efficient Sulfur-Carbon Cross-Coupling Dual Catalyst. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 10820-10827	16.4	28
51	Gas phase adsorption of alkanes, alkenes and aromatics on the sulfone-DUT-5 Metal Organic Framework. <i>Microporous and Mesoporous Materials</i> , 2015 , 206, 217-225	5.3	26
50	Microwave induced "egg yolk" structure in Cr/V-MIL-53. <i>Chemical Communications</i> , 2017 , 53, 8478-8481	5.8	25
49	Synthesis, characterization and sorption properties of NH ₂ -MIL-47. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 15562-70	3.6	25
48	Amine-containing (nano-) Periodic Mesoporous Organosilica and its application in catalysis, sorption and luminescence. <i>Microporous and Mesoporous Materials</i> , 2020 , 291, 109687	5.3	23
47	Immobilization of Ir(III) complex on covalent triazine frameworks for C-H borylation reactions: A combined experimental and computational study. <i>Journal of Catalysis</i> , 2019 , 371, 135-143	7.3	22
46	Development of Covalent Triazine Frameworks as Heterogeneous Catalytic Supports. <i>Polymers</i> , 2019 , 11,	4.5	21
45	POM@MOF Hybrids: Synthesis and Applications. <i>Catalysts</i> , 2020 , 10, 578	4	21
44	An aliphatic hexene-covalent triazine framework for selective acetylene/methane and ethylene/methane separation. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 13188-13196	13	20
43	Atomic Layer Deposition of Titanium and Vanadium Oxide on Mesoporous Silica and Phenol/Formaldehyde Resins: The Effect of the Support on the Liquid Phase Epoxidation of Cyclohexene. <i>European Journal of Inorganic Chemistry</i> , 2012 , 2012, 251-260	2.3	20
42	Enhanced gas sorption and breathing properties of the new sulfone functionalized COMOC-2 metal organic framework. <i>Dalton Transactions</i> , 2016 , 45, 9485-91	4.3	20
41	Catalytic Performance of Vanadium MIL-47 and Linker-Substituted Variants in the Oxidation of Cyclohexene: A Combined Theoretical and Experimental Approach. <i>ChemPlusChem</i> , 2014 , 79, 1183-1197	2.8	18
40	Direct Imaging of ALD Deposited Pt Nanoclusters inside the Giant Pores of MIL-101. <i>Particle and Particle Systems Characterization</i> , 2016 , 33, 382-387	3.1	18
39	In Situ Electron Paramagnetic Resonance and X-ray Diffraction Monitoring of Temperature-Induced Breathing and Related Structural Transformations in Activated V-Doped MIL-53(Al). <i>Journal of Physical Chemistry C</i> , 2016 , 120, 17400-17407	3.8	18
38	Direct Synthesis of an Iridium(III) Bipyridine Metal-Organic Framework as a Heterogeneous Catalyst for Aerobic Alcohol Oxidation. <i>ChemCatChem</i> , 2016 , 8, 3672-3679	5.2	18

37	Catalytic carpets: Pt@MIL-101@electrospun PCL, a surprisingly active and robust hydrogenation catalyst. <i>Journal of Catalysis</i> , 2018 , 360, 81-88	7.3	17
36	Synthesis and characterization of non-chelating ruthenium-indenylidene olefin metathesis catalysts derived from substituted 1,1-diphenyl-2-propyn-1-ols. <i>New Journal of Chemistry</i> , 2015 , 39, 1858-1867	3.6	16
35	Sensing the framework state and guest molecules in MIL-53(Al) via the electron paramagnetic resonance spectrum of V dopant ions. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 24545-24554	3.6	16
34	Effect of Building Block Transformation in Covalent Triazine-Based Frameworks for Enhanced CO Uptake and Metal-Free Heterogeneous Catalysis. <i>Chemistry - A European Journal</i> , 2020 , 26, 1548-1557	4.8	16
33	High-nitrogen containing covalent triazine frameworks as basic catalytic support for the Cu-catalyzed Henry reaction. <i>Journal of Catalysis</i> , 2019 , 375, 242-248	7.3	15
32	Multi-frequency (S, X, Q and W-band) EPR and ENDOR Study of Vanadium(IV) Incorporation in the Aluminium Metal-Organic Framework MIL-53. <i>ChemPhysChem</i> , 2015 , 16, 2968-73	3.2	15
31	Novel hexaazatrinaphthalene-based covalent triazine frameworks as high-performance platforms for efficient carbon capture and storage. <i>Microporous and Mesoporous Materials</i> , 2019 , 290, 109650	5.3	12
30	Catalysis in MOFs: general discussion. <i>Faraday Discussions</i> , 2017 , 201, 369-394	3.6	12
29	Straightforward preparation of fluorinated covalent triazine frameworks with significantly enhanced carbon dioxide and hydrogen adsorption capacities. <i>Dalton Transactions</i> , 2019 , 48, 17612-17619	4.3	12
28	Polymerization in Carbone: A Novel Method for the Synthesis of More Sustainable Electrodes and Their Application as Cathodes for Lithium Organic Energy Storage Materials Based On Vanillin. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 3055-3064	8.3	11
27	Synthesis, characterization and catalytic performance of Mo based metal-organic frameworks in the epoxidation of propylene by cumene hydroperoxide. <i>Chinese Chemical Letters</i> , 2017 , 28, 1057-1061	8.1	10
26	A series of sulfonic acid functionalized mixed-linker DUT-4 analogues: synthesis, gas sorption properties and catalytic performance. <i>Dalton Transactions</i> , 2017 , 46, 14356-14364	4.3	10
25	Ce(III)-Based Frameworks: From 1D Chain to 3D Porous Metal-Organic Framework. <i>Crystal Growth and Design</i> , 2019 , 19, 7096-7105	3.5	10
24	Discovery of a novel, large pore phase in a bimetallic Al/V metal-organic framework. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 24580-24584	13	9
23	Covalent triazine framework/carbon nanotube hybrids enabling selective reduction of CO ₂ to CO at low overpotential. <i>Green Chemistry</i> , 2020 , 22, 3095-3103	10	8
22	Regeneration of Hopcalite used for the adsorption plasma catalytic removal of toluene by non-thermal plasma. <i>Journal of Hazardous Materials</i> , 2021 , 402, 123877	12.8	8
21	Elucidating the promotional effect of a covalent triazine framework in aerobic oxidation. <i>Applied Catalysis B: Environmental</i> , 2020 , 269, 118769	21.8	7
20	Effect of the bulkiness of indenylidene moieties on the catalytic initiation and efficiency of second-generation ruthenium-based olefin metathesis catalysts. <i>Catalysis Science and Technology</i> , 2016 , 6, 2092-2100	5.5	6

19	New directions in gas sorption and separation with MOFs: general discussion. <i>Faraday Discussions</i> , 2017 , 201, 175-194	3.6	6
18	Alkyl group-tagged ruthenium indenylidene complexes: Synthesis, characterization and metathesis activity. <i>Journal of Organometallic Chemistry</i> , 2015 , 791, 148-154	2.3	6
17	A coordinative saturated vanadium containing metal organic framework that shows a remarkable catalytic activity. <i>Studies in Surface Science and Catalysis</i> , 2010 , 175, 329-332	1.8	6
16	Amidoxime-functionalized covalent organic framework as simultaneous luminescent sensor and adsorbent for organic arsenic from water. <i>Chemical Engineering Journal</i> , 2022 , 429, 132162	14.7	6
15	Electronic, magnetic and photophysical properties of MOFs and COFs: general discussion. <i>Faraday Discussions</i> , 2017 , 201, 87-99	3.6	5
14	A Visible-Light-Harvesting Covalent Organic Framework Bearing Single Nickel Sites as a Highly Efficient Sulfur-Carbon Cross-Coupling Dual Catalyst. <i>Angewandte Chemie</i> , 2021 , 133, 10915-10922	3.6	5
13	Oxygen-rich poly-bisvanillonitrile embedded amorphous zirconium oxide nanoparticles as reusable and porous adsorbent for removal of arsenic species from water. <i>Journal of Hazardous Materials</i> , 2021 , 413, 125356	12.8	5
12	Bifunctional Noble-Metal-Free Catalyst for the Selective Aerobic Oxidation-Knoevenagel One-Pot Reaction: Encapsulation of Polyoxometalates into an Alkylamine-Modified MIL-101 Framework. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 23558-23566	9.5	4
11	Creation of Exclusive Artificial Cluster Defects by Selective Metal Removal in the (Zn, Zr) Mixed-Metal UiO-66. <i>Journal of the American Chemical Society</i> , 2021 ,	16.4	4
10	EPR characterization of vanadium dopant sites in DUT-5(Al). <i>Optical Materials</i> , 2019 , 94, 217-223	3.3	3
9	Encapsulated Metallic Nanoparticles in Metal-Organic Frameworks: Toward Their Use in Catalysis 2018 , 399-445		2
8	Combined experimental and computational studies on preferential CO ₂ adsorption over a zinc-based porous framework solid. <i>New Journal of Chemistry</i> , 2020 , 44, 1806-1816	3.6	2
7	Abatement of Toluene Using a Sequential Adsorption-Catalytic Oxidation Process: Comparative Study of Potential Adsorbent/Catalytic Materials. <i>Catalysts</i> , 2020 , 10, 761	4	2
6	Rigid Nanoporous Urea-Based Covalent Triazine Frameworks for C ₂ /C ₁ and CO/CH ₄ Gas Separation. <i>Molecules</i> , 2021 , 26,	4.8	2
5	Hydrogenative Ring-Rearrangement of Furfural to Cyclopentanone over Pd/UiO-66-NO with Tunable Missing-Linker Defects. <i>Molecules</i> , 2021 , 26,	4.8	2
4	Salen-decorated Periodic Mesoporous Organosilica: From Metal-assisted Epoxidation to Metal-free CO Insertion. <i>Chemistry - an Asian Journal</i> , 2021 , 16, 2126-2135	4.5	1
3	Photo-epoxidation of (R)-pinene with molecular O ₂ catalyzed by a dioxo-molybdenum (VI)-based Metal-Organic Framework. <i>Research on Chemical Intermediates</i> , 2021 , 47, 4227-4244	2.8	1
2	Effect of Building Block Transformation in Covalent Triazine-Based Frameworks for Enhanced CO Uptake and Metal-Free Heterogeneous Catalysis. <i>Chemistry - A European Journal</i> , 2020 , 26, 1441	4.8	

- 1 Identification of vanadium dopant sites in the metal-organic framework DUT-5(Al). *Physical Chemistry Chemical Physics*, **2021**, 23, 7088-7100 3.6