

Karen Leus

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/6105774/karen-leus-publications-by-year.pdf>

Version: 2024-04-23

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.

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	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
89	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
88	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
87	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
86	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
85	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
84	Photo-epoxidation of α -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
83	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
82	Identification of vanadium dopant sites in the metal-organic framework DUT-5(Al). <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 7088-7100	3.6	
81	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
80	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
79	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
78	Metal-free activation of molecular oxygen by covalent triazine frameworks for selective aerobic oxidation. <i>Science Advances</i> , 2020 , 6, eaaz2310	14.3	32
77	Elucidating the promotional effect of a covalent triazine framework in aerobic oxidation. <i>Applied Catalysis B: Environmental</i> , 2020 , 269, 118769	21.8	7
76	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
75	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
74	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

73	Covalent triazine frameworks as a sustainable perspective. <i>Green Chemistry</i> , 2020 , 22, 1038-1071	10	75
72	POM@MOF Hybrids: Synthesis and Applications. <i>Catalysts</i> , 2020 , 10, 578	4	21
71	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
70	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	
69	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
68	Strongly Reducing (Diarylamino)benzene-Based Covalent Organic Framework for Metal-Free Visible Light Photocatalytic HO ₂ Generation. <i>Journal of the American Chemical Society</i> , 2020 , 142, 20107-20116	16.4	56
67	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
66	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
65	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
64	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
63	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
62	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
61	Mixed-metal metal-organic frameworks. <i>Chemical Society Reviews</i> , 2019 , 48, 2535-2565	58.5	292
60	Immobilization of Ir(I) complex on covalent triazine frameworks for C-H arylation reactions: A combined experimental and computational study. <i>Journal of Catalysis</i> , 2019 , 371, 135-143	7.3	22
59	Development of Covalent Triazine Frameworks as Heterogeneous Catalytic Supports. <i>Polymers</i> , 2019 , 11,	4.5	21
58	EPR characterization of vanadium dopant sites in DUT-5(Al). <i>Optical Materials</i> , 2019 , 94, 217-223	3.3	3
57	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
56	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

55	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
54	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
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 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
51	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
50	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
49	Encapsulated Metallic Nanoparticles in Metal-Organic Frameworks: Toward Their Use in Catalysis 2018 , 399-445		2
48	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
47	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
46	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
45	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
44	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
43	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
42	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
41	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
40	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
39	Electronic, magnetic and photophysical properties of MOFs and COFs: general discussion. <i>Faraday Discussions</i> , 2017 , 201, 87-99	3.6	5
38	New directions in gas sorption and separation with MOFs: general discussion. <i>Faraday Discussions</i> , 2017 , 201, 175-194	3.6	6

37	Catalysis in MOFs: general discussion. <i>Faraday Discussions</i> , 2017 , 201, 369-394	3.6	12
36	Microwave induced "egg yolk" structure in Cr/V-MIL-53. <i>Chemical Communications</i> , 2017 , 53, 8478-8481	5.8	25
35	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
34	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
33	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
32	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
31	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
30	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
29	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
28	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
27	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
26	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
25	Au@UiO-66: a base free oxidation catalyst. <i>RSC Advances</i> , 2015 , 5, 22334-22342	3.7	49
24	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
23	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
22	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
21	Alkyl group-tagged ruthenium indenylidene complexes: Synthesis, characterization and metathesis activity. <i>Journal of Organometallic Chemistry</i> , 2015 , 791, 148-154	2.3	6
20	Comparison of different solid adsorbents for the removal of mobile pesticides from aqueous solutions. <i>Adsorption</i> , 2015 , 21, 243-254	2.6	30

19	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
18	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
17	Metal-Organic Frameworks as Selective or Chiral Oxidation Catalysts. <i>Catalysis Reviews - Science and Engineering</i> , 2014 , 56, 1-56	12.6	73
16	Vanadium metal-organic frameworks: structures and applications. <i>New Journal of Chemistry</i> , 2014 , 38, 1853-1867	3.6	48
15	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
14	A MoVI grafted Metal Organic Framework: Synthesis, characterization and catalytic investigations. <i>Journal of Catalysis</i> , 2014 , 316, 201-209	7.3	45
13	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
12	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
11	Ti-functionalized NH ₂ -MIL-47: An effective and stable epoxidation catalyst. <i>Catalysis Today</i> , 2013 , 208, 97-105	5.3	30
10	Bimetallic-Organic Framework as a Zero-Leaching Catalyst in the Aerobic Oxidation of Cyclohexene. <i>ChemCatChem</i> , 2013 , 5, 3657-3664	5.2	32
9	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
8	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
7	Synthesis, characterization and sorption properties of NH ₂ -MIL-47. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 15562-70	3.6	25
6	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
5	Synthesis, crystal structures, and luminescence properties of carboxylate based rare-earth coordination polymers. <i>Inorganic Chemistry</i> , 2012 , 51, 11623-34	5.1	160
4	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
3	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
2	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

- 1 Raman spectroscopic study of bacterial endospores. *Analytical and Bioanalytical Chemistry*, **2007**, 389, 2143-51 4.4 36