

# Shinpei Kusaka

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

1,217  
citations

567281

15  
h-index

477307

29  
g-index

31  
all docs

31  
docs citations

31  
times ranked

1645  
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of a MOF based on octa-nuclear zinc clusters realizing both thermal stability and structural flexibility. <i>Chemical Communications</i> , 2022, 58, 1139-1142.	4.1	6
2	Heterobilayer membranes from isostructural metal-organic frameworks for efficient CO <sub>2</sub> separation. <i>Microporous and Mesoporous Materials</i> , 2022, 338, 111950.	4.4	4
3	Molecular motion in the nanospace of MOFs upon gas adsorption investigated by <i>in situ</i> Raman spectroscopy. <i>Faraday Discussions</i> , 2021, 225, 70-83.	3.2	8
4	Trapping and Releasing of Oxygen in Liquid by Metal-Organic Framework with Light and Heat. <i>Small</i> , 2021, 17, 2004351.	10.0	6
5	An Open-shell, Luminescent, Two-Dimensional Coordination Polymer with a Honeycomb Lattice and Triangular Organic Radical. <i>Journal of the American Chemical Society</i> , 2021, 143, 4329-4338.	13.7	57
6	Triplet Carbene with Highly Enhanced Thermal Stability in the Nanospace of a Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2021, 143, 8129-8136.	13.7	8
7	Fabrication of a Kagomé-type MOF Membrane by Seeded Growth on Amino-functionalized Porous Al <sub>2</sub> O <sub>3</sub> Substrate. <i>Chemistry - an Asian Journal</i> , 2021, 16, 2018-2021.	3.3	5
8	Selective Photochemical Reaction by Fixing Reactant as a MOF Building Block. <i>Chemistry Letters</i> , 2021, 50, 1987-1989.	1.3	0
9	Stabilization of radical active species in a MOF nanospace to exploit unique reaction pathways. <i>Chemical Communications</i> , 2021, 57, 12115-12118.	4.1	1
10	Hysteresis in the gas sorption isotherms of metal-organic cages accompanied by subtle changes in molecular packing. <i>Chemical Communications</i> , 2020, 56, 3689-3692.	4.1	14
11	Direct observation of dimethyl sulfide trapped by MOF proving efficient removal of sulfur impurities. <i>RSC Advances</i> , 2020, 10, 4710-4714.	3.6	7
12	One-Step Synthesis of an Adaptive Nanographene MOF: Adsorbed Gas-Dependent Geometrical Diversity. <i>Journal of the American Chemical Society</i> , 2019, 141, 15649-15655.	13.7	27
13	Reversible low-temperature redox activity and selective oxidation catalysis derived from the concerted activation of multiple metal species on Cr and Rh-incorporated ceria catalysts. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 20868-20877.	2.8	7
14	Dynamic Topochemical Reaction Tuned by Guest Molecules in the Nanospace of a Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2019, 141, 15742-15746.	13.7	48
15	Creation of MOFs with open metal sites by partial replacement of metal ions with different coordination numbers. <i>Dalton Transactions</i> , 2019, 48, 2545-2548.	3.3	17
16	Design and control of gas diffusion process in a nanoporous soft crystal. <i>Science</i> , 2019, 363, 387-391.	12.6	332
17	Microwave-Assisted Hydrothermal Synthesis of [Al(OH)(1,4-NDC)] Membranes with Superior Separation Performances. <i>Chemistry - an Asian Journal</i> , 2019, 14, 2072-2076.	3.3	18
18	Generation of thiyl radicals in a zinc porous coordination polymer by light-induced post-synthetic deprotection. <i>Chemical Communications</i> , 2018, 54, 4782-4785.	4.1	14

#	ARTICLE	IF	CITATIONS
19	Reversible Switching between Highly Porous and Nonporous Phases of an Interpenetrated Diamondoid Coordination Network That Exhibits Gate-Opening at Methane Storage Pressures. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 5684-5689.	13.8	161
20	Reversible Switching between Highly Porous and Nonporous Phases of an Interpenetrated Diamondoid Coordination Network That Exhibits Gate-Opening at Methane Storage Pressures. <i>Angewandte Chemie</i> , 2018, 130, 5786-5791.	2.0	27
21	Finely Controlled Stepwise Engineering of Pore Environments and Mechanistic Elucidation of Water-Stable, Flexible 2D Porous Coordination Polymers. <i>Chemistry - A European Journal</i> , 2018, 24, 6412-6417.	3.3	16
22	Readily accessible shape-memory effect in a porous interpenetrated coordination network. <i>Science Advances</i> , 2018, 4, eaaq1636.	10.3	61
23	Insights into inorganic buffer layer-assisted <i>in situ</i> fabrication of MOF films with controlled microstructures. <i>CrystEngComm</i> , 2018, 20, 6995-7000.	2.6	13
24	Theoretical Insight into Gate-Opening Adsorption Mechanism and Sigmoidal Adsorption Isotherm into Porous Coordination Polymer. <i>Journal of the American Chemical Society</i> , 2018, 140, 13958-13969.	13.7	48
25	Switchable gate-opening effect in metal-organic polyhedra assemblies through solution processing. <i>Chemical Science</i> , 2018, 9, 6463-6469.	7.4	40
26	Development of a Porous Coordination Polymer with a High Gas Capacity Using a Thiophene-Based Bent Tetracarboxylate Ligand. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 33455-33460.	8.0	32
27	Density Gradation of Open Metal Sites in the Mesospace of Porous Coordination Polymers. <i>Journal of the American Chemical Society</i> , 2017, 139, 11576-11583.	13.7	118
28	Characteristic Features of CO <sub>2</sub> and CO Adsorptions to Paddle-Wheel-type Porous Coordination Polymer. <i>Journal of Physical Chemistry C</i> , 2017, 121, 19129-19139.	3.1	13
29	Cooperative Bond Scission in a Soft Porous Crystal Enables Discriminatory Gate Opening for Ethylene over Ethane. <i>Journal of the American Chemical Society</i> , 2017, 139, 18313-18321.	13.7	72
30	A Convenient Strategy for Designing a Soft Nanospace: An Atomic Exchange in a Ligand with Isostructural Frameworks. <i>Journal of the American Chemical Society</i> , 2015, 137, 15825-15832.	13.7	37