

Shotaro Hiraide

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Mechanism of CO ₂ Capacity Reduction of Flexible Metal-Organic Framework Caused by Water Adsorption. <i>Frontiers in Materials</i> , 2022, 9, .	2.4	3
2	Slacking of Gate Adsorption Behavior on Metal-Organic Frameworks under an External Force. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 30213-30223.	8.0	10
3	Efficiency of Thermal Management Using Phase-Change Material for Nonisothermal Adsorption Process. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 14485-14495.	3.7	8
4	High-throughput gas separation by flexible metal-organic frameworks with fast gating and thermal management capabilities. <i>Nature Communications</i> , 2020, 11, 3867.	12.8	99
5	Fast continuous measurement of synchrotron powder diffraction synchronized with controlling gas and vapour pressures at beamline BLO2B2 of ÅSpring-8. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 616-624.	2.4	20
6	Time evolution of the framework structure of SBA-15 during the aging process. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 583, 123807.	4.7	4
7	Selective molecular-gating adsorption in a novel copper-based metal-organic framework. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5910-5918.	10.3	23
8	Intrinsic Thermal Management Capabilities of Flexible Metal-Organic Frameworks for Carbon Dioxide Separation and Capture. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 41066-41077.	8.0	61
9	Understanding gate adsorption behaviour of CO ₂ on elastic layer-structured metal-organic framework-11. <i>Dalton Transactions</i> , 2016, 45, 4193-4202.	3.3	43
10	Potential theory for gate adsorption on soft porous crystals. <i>Molecular Simulation</i> , 2015, 41, 1329-1338.	2.0	6
11	Modeling and Visualization of CO ₂ Adsorption on Elastic Layer-Structured Metal-Organic Framework-11: Toward a Better Understanding of Gate Adsorption Behavior. <i>Journal of Physical Chemistry C</i> , 2015, 119, 11533-11543.	3.1	41
12	Understanding Recognition Property of Isotopologues on Metal-Organic Framework. <i>Hosokawa Powder Technology Foundation ANNUAL REPORT</i> , 2015, 23, 215-217.	0.0	0
13	Adsorption-Induced Structural Transition of ZIF-8: A Combined Experimental and Simulation Study. <i>Journal of Physical Chemistry C</i> , 2014, 118, 8445-8454.	3.1	84