

Satoshi Watanabe

List of Publications by Year in descending order

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31
papers

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567281

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31
times ranked

1058
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanism for Stripe Pattern Formation on Hydrophilic Surfaces by Using Convective Self-Assembly. <i>Langmuir</i> , 2009, 25, 7287-7295.	3.5	121
2	Synthesis and adsorption properties of ZIF-8 nanoparticles using a micromixer. <i>Chemical Engineering Journal</i> , 2013, 227, 145-150.	12.7	114
3	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
4	Synthesis of zeolitic imidazolate framework-8 particles of controlled sizes, shapes, and gate adsorption characteristics using a central collision-type microreactor. <i>Chemical Engineering Journal</i> , 2017, 313, 724-733.	12.7	72
5	Free energy analysis for adsorption-induced lattice transition of flexible coordination framework. <i>Journal of Chemical Physics</i> , 2009, 130, 164707.	3.0	57
6	Spontaneous Formation of Cluster Array of Gold Particles by Convective Self-Assembly. <i>Langmuir</i> , 2012, 28, 12982-12988.	3.5	42
7	Colloidal Stripe Pattern with Controlled Periodicity by Convective Self-Assembly with Liquid-Level Manipulation. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 3184-3190.	8.0	29
8	Characterization of mixing performance in a microreactor and its application to the synthesis of porous coordination polymer particles. <i>Advanced Powder Technology</i> , 2017, 28, 3104-3110.	4.1	25
9	Evaporation-induced flattening and self-assembly of chemically converted graphene on a solid surface. <i>Soft Matter</i> , 2011, 7, 8745.	2.7	24
10	Flow Synthesis of Plasmonic Gold Nanoshells via a Microreactor. <i>Particle and Particle Systems Characterization</i> , 2015, 32, 234-242.	2.3	23
11	<i>In Situ</i> Observation of Meniscus Shape Deformation with Colloidal Stripe Pattern Formation in Convective Self-Assembly. <i>Langmuir</i> , 2015, 31, 4121-4128.	3.5	20
12	Dynamics of order formation by colloidal adsorption onto a substrate studied with Brownian dynamics. <i>Journal of Chemical Physics</i> , 2005, 122, 104704.	3.0	19
13	Dependence of adsorption-induced structural transition on framework structure of porous coordination polymers. <i>Journal of Chemical Physics</i> , 2014, 140, 044707.	3.0	19
14	Flow synthesis of silver nanoshells using a microreactor. <i>Chemical Engineering Journal</i> , 2019, 374, 674-683.	12.7	16
15	Flow microreactor synthesis of gold nanoshells and patchy particles. <i>Advanced Powder Technology</i> , 2016, 27, 2335-2341.	4.1	15
16	Flow Microreactor Synthesis of Zeolitic Imidazolate Framework (ZIF)@ZIF Core-Shell Metal-Organic Framework Particles and Their Adsorption Properties. <i>Langmuir</i> , 2021, 37, 3858-3867.	3.5	15
17	Modeling Pt ²⁺ -Coordination Process within Poly(amidoamine) Dendrimers for Synthesis of Dendrimer-Encapsulated Pt Nanoparticles. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 7332-7337.	3.7	12
18	Free Energy Analysis for Adsorption-Induced Structural Transition of Colloidal Zeolitic Imidazolate Framework-8 Particles. <i>Journal of Physical Chemistry C</i> , 2017, 121, 20366-20374.	3.1	12

#	ARTICLE	IF	CITATIONS
19	Molecular simulation of condensation process of Lennard-Jones fluids confined in nanospace with jungle-gym structure. <i>Adsorption</i> , 2008, 14, 165-170.	3.0	11
20	Direct observation of the attachment behavior of hydrophobic colloidal particles onto a bubble surface. <i>Soft Matter</i> , 2020, 16, 695-702.	2.7	11
21	On the Convective Self-Assembly of Colloidal Particles in Nanofluid Based on in Situ Measurements of Interaction Forces. <i>Langmuir</i> , 2019, 35, 11533-11541.	3.5	8
22	Freezing Phenomena of Lennard-Jones Fluid Confined in Jungle-Gym Nanospace: A Monte Carlo Study. <i>Langmuir</i> , 2008, 24, 802-809.	3.5	6
23	Room-Temperature Synthesis of Ni and Pt-Co Alloy Nanoparticles Using a Microreactor. <i>Frontiers in Chemical Engineering</i> , 2021, 3, .	2.7	6
24	Multiple Roles of Polyethylenimine during Synthesis of 10 nm Thick Continuous Silver Nanoshells. <i>Langmuir</i> , 2020, 36, 4511-4518.	3.5	5
25	Determination of the yield, mass and structure of silver patches on colloidal silica using multiwavelength analytical ultracentrifugation. <i>Journal of Colloid and Interface Science</i> , 2022, 607, 698-710.	9.4	4
26	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
27	Controlling Self-Assembled Structure of Au Nanoparticles by Convective Self-Assembly with Liquid-Level Manipulation. <i>Journal of the Society of Powder Technology, Japan</i> , 2012, 49, 356-361.	0.1	1
28	Diffusion phenomena of propane and propylene in colloidal zeolitic imidazolate Framework-8 particles. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 90, 79-84.	5.3	1
29	Monolayer Formation of Submicron-sized Colloidal Particles by Drag Coating Convective Self-assembly. <i>Journal of the Society of Powder Technology, Japan</i> , 2018, 55, 582-587.	0.1	1
30	Synthesis and Characterization of Core-Shell Metal-Organic Framework (ZIF-67@ZIF-8) Particles. <i>Journal of the Society of Powder Technology, Japan</i> , 2019, 56, 181-186.	0.1	1
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