

Minoru T Miyahara

List of Publications by Year in Descending Order

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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.

98 papers	2,734 citations	28 h-index	50 g-index
105 ext. papers	3,018 ext. citations	4.2 avg, IF	5.05 L-index

#	Paper	IF	Citations
98	High-performance Gas Separation System Using Gate-type Adsorbents. <i>Hosokawa Powder Technology Foundation ANNUAL REPORT</i> , 2021 , 28, 143-147	0	
97	Slacking of Gate Adsorption Behavior on Metal-Organic Frameworks under an External Force. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 30213-30223	9.5	1
96	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	4	3
95	Efficiency of Thermal Management Using Phase-Change Material for Nonisothermal Adsorption Process. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 14485-14495	3.9	1
94	High-throughput gas separation by flexible metal-organic frameworks with fast gating and thermal management capabilities. <i>Nature Communications</i> , 2020 , 11, 3867	17.4	34
93	Multiple Roles of Polyethylenimine during Synthesis of 10 nm Thick Continuous Silver Nanoshells. <i>Langmuir</i> , 2020 , 36, 4511-4518	4	2
92	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	0.3	1
91	Force-driven reversible liquid-gas phase transition mediated by elastic nanosponges. <i>Nature Communications</i> , 2019 , 10, 2559	17.4	25
90	Flow synthesis of silver nanoshells using a microreactor. <i>Chemical Engineering Journal</i> , 2019 , 374, 674-683	11.7	8
89	Free energy calculations for adsorption-induced deformation of flexible metal-organic frameworks. <i>Current Opinion in Chemical Engineering</i> , 2019 , 24, 19-25	5.4	5
88	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	4	4
87	Low-temperature hydrogen-graphite system revisited: Experimental study and Monte Carlo simulation. <i>Journal of Chemical Physics</i> , 2019 , 151, 024704	3.9	1
86	In silico synthesis of carbon molecular sieves for high-performance air separation. <i>Carbon</i> , 2019 , 141, 626-634	10.4	7
85	CHF ₃ /HClF ₂ Binary Competitive Adsorption Equilibria in Graphitic Slit Pores: Monte Carlo Simulations and Breakthrough Curve Experiments. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 6440-6450	3.9	5
84	Graphene-based ordered framework with a diverse range of carbon polygons formed in zeolite nanochannels. <i>Carbon</i> , 2018 , 129, 854-862	10.4	46
83	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
82	What is the Smallest Atom as a Probe for Characterizing Nanostructures?. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 15446-15455	3.8	2

81	Synthesis of zeolite-templated carbons for methane storage: A molecular simulation study. <i>Tanso</i> , 2018 , 2018, 197-203	0.1	1
80	Mechanism of the Self-assembly Process of Colloidal Particles in Nanofluid. <i>Hosokawa Powder Technology Foundation ANNUAL REPORT</i> , 2018 , 26, 153-156	0	
79	Synthesis and Characterization of Core-shell Soft MOF Particles. <i>Hosokawa Powder Technology Foundation ANNUAL REPORT</i> , 2018 , 26, 183-186	0	
78	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	0.3	1
77	Mechanism of Kinetically Controlled Capillary Condensation in Nanopores: A Combined Experimental and Monte Carlo Approach. <i>ACS Nano</i> , 2017 , 11, 269-276	16.7	11
76	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	14.7	55
75	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	9.5	32
74	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	4.6	17
73	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	3.8	9
72	Comprehensive Modeling of Capillary Condensation in Open-Ended Nanopores: Equilibrium, Metastability, and Spinodal. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 26877-26886	3.8	7
71	Understanding gate adsorption behaviour of CO ₂ on elastic layer-structured metal-organic framework-11. <i>Dalton Transactions</i> , 2016 , 45, 4193-202	4.3	30
70	Critical energy barrier for capillary condensation in mesopores: Hysteresis and reversibility. <i>Journal of Chemical Physics</i> , 2016 , 144, 164705	3.9	11
69	Flow microreactor synthesis of gold nanoshells and patchy particles. <i>Advanced Powder Technology</i> , 2016 , 27, 2335-2341	4.6	8
68	Potential theory for gate adsorption on soft porous crystals. <i>Molecular Simulation</i> , 2015 , 41, 1329-1338	2	5
67	In situ observation of meniscus shape deformation with colloidal stripe pattern formation in convective self-assembly. <i>Langmuir</i> , 2015 , 31, 4121-8	4	16
66	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	3.8	29
65	Flow Synthesis of Plasmonic Gold Nanoshells via a Microreactor. <i>Particle and Particle Systems Characterization</i> , 2015 , 32, 234-242	3.1	19
64	Understanding Recognition Property of Isotopologues on Metal-Organic Framework. <i>Hosokawa Powder Technology Foundation ANNUAL REPORT</i> , 2015 , 23, 215-217	0	

63	Fluids in nanospaces: molecular simulation studies to find out key mechanisms for engineering. <i>Adsorption</i> , 2014 , 20, 213-223	2.6	16
62	Adsorption-Induced Structural Transition of ZIF-8: A Combined Experimental and Simulation Study. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 8445-8454	3.8	73
61	Controlling self-assembled structure of Au nanoparticles by convective self-assembly with liquid-level manipulation. <i>Advanced Powder Technology</i> , 2014 , 25, 811-815	4.6	7
60	Numerical Simulation of Meniscus Shape Evolution in Vertical-Deposition Convective Self-Assembly. <i>Journal of the Society of Powder Technology, Japan</i> , 2014 , 51, 355-362	0.3	
59	Dependence of adsorption-induced structural transition on framework structure of porous coordination polymers. <i>Journal of Chemical Physics</i> , 2014 , 140, 044707	3.9	12
58	Synthesis and adsorption properties of ZIF-8 nanoparticles using a micromixer. <i>Chemical Engineering Journal</i> , 2013 , 227, 145-150	14.7	82
57	Capillary condensation in mesoporous silica with surface roughness. <i>Adsorption</i> , 2013 , 19, 631-641	2.6	14
56	Reversible pore size control of elastic microporous material by mechanical force. <i>Chemistry - A European Journal</i> , 2013 , 19, 13009-16	4.8	13
55	Particulate pattern formation and its morphology control by convective self-assembly. <i>Advanced Powder Technology</i> , 2013 , 24, 897-907	4.6	19
54	Simulation study for adsorption-induced structural transition in stacked-layer porous coordination polymers: equilibrium and hysteretic adsorption behaviors. <i>Journal of Chemical Physics</i> , 2013 , 138, 054708	3.9	33
53	Determination of phase equilibria in confined systems by open pore cell Monte Carlo method. <i>Journal of Chemical Physics</i> , 2013 , 138, 084709	3.9	10
52	Flow Synthetic Process of SiO ₂ @Au Core-Shell Nanoparticles by Using Microreactor. <i>Journal of the Society of Powder Technology, Japan</i> , 2013 , 50, 478-484	0.3	2
51	Spontaneous formation of cluster array of gold particles by convective self-assembly. <i>Langmuir</i> , 2012 , 28, 12982-8	4	38
50	Adsorption-induced structural transition of an interpenetrated porous coordination polymer: detailed exploration of free energy profiles. <i>Langmuir</i> , 2012 , 28, 5093-100	4	24
49	Synthesis and photoluminescence characterization of dendrimer-encapsulated CdS quantum dots. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012 , 411, 12-17	5.1	14
48	Colloidal stripe pattern with controlled periodicity by convective self-assembly with liquid-level manipulation. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 3184-90	9.5	26
47	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	0.3	1
46	Hydrogen Isotope Separation in Carbon Nanopores. <i>Journal of Chemical Engineering of Japan</i> , 2011 , 44, 355-363	0.8	6

45	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	3.9	12
44	Fabrication of colloidal grid network by two-step convective self-assembly. <i>Langmuir</i> , 2011 , 27, 5290-5	4	35
43	Coordination and reduction processes in the synthesis of dendrimer-encapsulated Pt nanoparticles. <i>Langmuir</i> , 2010 , 26, 2339-45	4	33
42	Order formation of colloidal nanoparticles adsorbed on a substrate with friction. <i>Advanced Powder Technology</i> , 2010 , 21, 57-63	4.6	4
41	Mechanism for stripe pattern formation on hydrophilic surfaces by using convective self-assembly. <i>Langmuir</i> , 2009 , 25, 7287-95	4	112
40	Free energy analysis for adsorption-induced lattice transition of flexible coordination framework. <i>Journal of Chemical Physics</i> , 2009 , 130, 164707	3.9	51
39	Triple Point of a Lennard-Jones Fluid in Nanopores with Zero Excess Pore Wall Energy. <i>Adsorption Science and Technology</i> , 2009 , 27, 735-743	3.6	2
38	Molecular simulation of condensation process of Lennard-Jones fluids confined in nanospace with jungle-gym structure. <i>Adsorption</i> , 2008 , 14, 165-170	2.6	11
37	Energy-saving drying technology for porous media using liquefied DME gas. <i>Adsorption</i> , 2008 , 14, 467-473	3.6	33
36	CHARACTERISTICS AND BEHAVIOR OF NANOPARTICLES AND ITS DISPERSION SYSTEMS 2008 , 113-176		5
35	Freezing of Lennard-Jones fluid in cylindrical nanopores under tensile conditions. <i>Adsorption</i> , 2007 , 13, 191-195	2.6	13
34	Sublimation phenomena of Lennard-Jones fluids in slit nanopores. <i>Journal of Chemical Physics</i> , 2007 , 126, 054703	3.9	17
33	Sublimation Phenomena in Slit Nanopores: Lennard-Jones Phase Diagram. <i>Adsorption</i> , 2005 , 11, 295-299	2.6	14
32	Dynamics of order formation by colloidal adsorption onto a substrate studied with Brownian dynamics. <i>Journal of Chemical Physics</i> , 2005 , 122, 104704	3.9	15
31	Adsorption and order formation of colloidal nanoparticles on a substrate: a Brownian dynamics study. <i>Journal of Chemical Physics</i> , 2004 , 120, 1524-34	3.9	20
30	Triple point of Lennard-Jones fluid in slit nanopore: solidification of critical condensate. <i>Journal of Chemical Physics</i> , 2004 , 120, 6173-9	3.9	37
29	Langevin Dynamics Simulations of Cationic Surfactants in Aqueous Solutions Using Potentials of Mean Force. <i>Langmuir</i> , 2004 , 20, 2017-2025	4	35
28	Regular Regime and Drying Characteristic Function of Porous Slab with Surface Resistance for Mass Transfer. <i>Kagaku Kogaku Ronbunshu</i> , 2004 , 30, 368-371	0.4	

27	Prediction of Adsorption Rate on Slab with an Adsorption Amount-dependent Diffusion Coefficient. <i>Kagaku Kogaku Ronbunshu</i> , 2004 , 30, 243-245	0.4	1
26	A Reexamination of Mean Force Potentials for the Methane Pair and the Constituent Ion Pairs of NaCl in Water.. <i>Journal of Chemical Engineering of Japan</i> , 2003 , 36, 57-65	0.8	28
25	Liquid Drops on Homogeneous and Chemically Heterogeneous Surfaces: A Two-Dimensional Lattice Boltzmann Study. <i>Langmuir</i> , 2003 , 19, 9086-9093	4	50
24	Wetting-induced interaction between rigid nanoparticle and plate: A Monte Carlo study. <i>Journal of Chemical Physics</i> , 2002 , 116, 9500-9509	3.9	27
23	Interaction Forces between Nanoparticles in Diol/Water Mixtures: A Molecular Dynamics Study with Coarse-Grained Model. <i>Langmuir</i> , 2002 , 18, 4171-4178	4	7
22	Origin of Long-Range Attractive Force between Surfaces Hydrophobized by Surfactant Adsorption. <i>Langmuir</i> , 2002 , 18, 5713-5719	4	82
21	Nano Bubbles on a Hydrophobic Surface in Water Observed by Tapping-Mode Atomic Force Microscopy. <i>Langmuir</i> , 2000 , 16, 6377-6380	4	546
20	Solid/Liquid phase transition of Lennard-Jones fluid in slit pores under tensile condition. <i>Journal of Chemical Physics</i> , 2000 , 112, 9909-9916	3.9	34
19	Interaction Forces between Colloidal Particles in Alcohol/Water Mixtures Evaluated by Simple Model Simulations. <i>Langmuir</i> , 2000 , 16, 3361-3371	4	29
18	Solidification of Lennard-Jones Fluid in Cylindrical Nanopores and Its Geometrical Hindrance Effect: A Monte Carlo Study. <i>Langmuir</i> , 2000 , 16, 8529-8535	4	34
17	Attraction between Hydrophobic Surfaces with and without Gas Phase. <i>Langmuir</i> , 2000 , 16, 5681-5687	4	178
16	Verification of the Condensation Model for Cylindrical Nanopores. Analysis of the Nitrogen Isotherm for FSM-16. <i>Langmuir</i> , 2000 , 16, 6622-6627	4	28
15	Condensation Model for Cylindrical Nanopores Applied to Realistic Porous Glass Generated by Molecular Simulation. <i>Langmuir</i> , 2000 , 16, 6064-6066	4	13
14	Modeling Capillary Condensation in Cylindrical Nanopores: A Molecular Dynamics Study. <i>Langmuir</i> , 2000 , 16, 4293-4299	4	71
13	Simple Evaluation Scheme of Adsorbate-Solid Interaction for Nano-Pore Characterization Studied with Monte Carlo Simulation.. <i>Journal of Chemical Engineering of Japan</i> , 2000 , 33, 103-112	0.8	12
12	Molecular Dynamics Simulations of Surfactant Aggregation on Hydrophilic Walls in Micellar Solutions. <i>Langmuir</i> , 1999 , 15, 578-586	4	27
11	Capillary condensation model within nano-scale pores studied with molecular dynamics simulation.. <i>Journal of Chemical Engineering of Japan</i> , 1997 , 30, 274-284	0.8	28
10	Capillary Phase Separation in Solvent Dehydration by Hygroscopic Porous Adsorbents.. <i>Journal of Chemical Engineering of Japan</i> , 1997 , 30, 683-690	0.8	9

9	Single-Electrode Capacitance and Charged State in Interfacial Region within Nano-Porous Carbon Electrode for Electric Double Layer Capacitor.. <i>Kagaku Kogaku Ronbunshu</i> , 1997 , 23, 512-518	0.4	9
8	Single-Electrode Transient Behavior for Electric Double Layer Capacitor Composed of Nano-Porous Carbon Electrode.. <i>Kagaku Kogaku Ronbunshu</i> , 1997 , 23, 519-525	0.4	
7	Determination of adsorption equilibria in pores by molecular dynamics in a unit cell with imaginary gas phase. <i>Journal of Chemical Physics</i> , 1997 , 106, 8124-8134	3.9	52
6	Freezing/melting phenomena for Lennard-Jones methane in slit pores: A Monte Carlo study. <i>Journal of Chemical Physics</i> , 1997 , 106, 2865-2880	3.9	169
5	HEAT TRANSFER IN A CONDUCTIVE-HEATING AGITATED DRYER. <i>Drying Technology</i> , 1994 , 12, 299-328	2.6	7
4	Liquid-phase capillary condensation and adsorption isotherm. <i>AIChE Journal</i> , 1994 , 40, 1549-1557	3.6	13
3	Correlation of Concentration-dependent Surface Diffusivity in Liquid Phase Adsorption.. <i>Journal of Chemical Engineering of Japan</i> , 1993 , 26, 510-516	0.8	19
2	Concentration dependence of surface diffusivity of nitrobenzene and benzonitrile in liquid phase adsorption onto an activated carbon.. <i>Journal of Chemical Engineering of Japan</i> , 1992 , 25, 408-414	0.8	20
1	Heat transfer from a submerged tube moving in a granular bed.. <i>Journal of Chemical Engineering of Japan</i> , 1988 , 21, 141-147	0.8	4