

Ikuya Kinefuchi

List of Publications by Year in descending order

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Metal-organic framework coated porous structures for enhanced thermoelectric performance. Energy Conversion and Management, 2022, 255, 115289.	9.2	6
2	Gas Adsorption and Diffusion Behaviors in Interfacial Systems Composed of a Polymer of Intrinsic Microporosity and Amorphous Silica: A Molecular Simulation Study. Langmuir, 2022, 38, 7567-7579.	3.5	4
3	Molecular Insights into the Mechanical Properties of Polymer- Fullerene Bulk Heterojunctions for Organic Photovoltaic Applications. Macromolecules, 2021, 54, 958-969.	4.8	11
4	Analysis of the Effect of Surface Diffusion on Effective Diffusivity of Oxygen in Catalyst Layer By Direct Simulation Monte Carlo. ECS Transactions, 2021, 104, 371-376.	0.5	1
5	Evaluation of gas permeability in porous separators for polymer electrolyte fuel cells: Computational fluid dynamics simulation based on micro-x-ray computed tomography images. Physical Review E, 2021, 104, 045105.	2.1	2
6	Relation between oxygen gas diffusivity and porous characteristics under capillary condensation of water in cathode catalyst layers of polymer electrolyte membrane fuel cells. International Journal of Heat and Mass Transfer, 2020, 150, 119277.	4.8	13
7	Relating the thermal properties of a micro pulsating heat pipe to the internal flow characteristics via experiments, image recognition of flow patterns and heat transfer simulations. International Journal of Heat and Mass Transfer, 2020, 163, 120415.	4.8	23
8	High Heat Flux Evaporation of Low Surface Tension Liquids from Nanoporous Membranes. ACS Applied Materials & Interfaces, 2020, 12, 7232-7238.	8.0	36
9	Gas-surface dynamics of oxygen molecules on Nafion ionomer membrane. AIP Conference Proceedings, 2019, , .	0.4	0
10	A unified relationship for evaporation kinetics at low Mach numbers. Nature Communications, 2019, 10, 2368.	12.8	73
11	In situ observation of dewetting-induced deformation of vertically aligned single-walled carbon nanotubes. Diamond and Related Materials, 2019, 95, 115-120.	3.9	1
12	Molecular Dynamics Study of Oxygen Scattering Behavior on Perfluorosulfonic Acid Ionomer Thin Films. Journal of Physical Chemistry C, 2019, 123, 7125-7133.	3.1	12
13	Molecular Dynamics Study of Oxygen Diffusivity in Catalyst Layer. ECS Transactions, 2019, 92, 23-28.	0.5	1
14	Mutual influence of molecular diffusion in gas and surface phases. Physical Review E, 2018, 97, 013101.	2.1	11
15	Constructing a coarse-grained water model based on non-Markovian dissipative particle dynamics. Transactions of the JSME (in Japanese), 2018, 84, 18-00193-18-00193.	0.2	0
16	Incident energy dependence of the scattering dynamics of water molecules on silicon and graphite surfaces: the effect on tangential momentum accommodation. Microfluidics and Nanofluidics, 2017, 21, 1.	2.2	4
17	An Ultrathin Nanoporous Membrane Evaporator. Nano Letters, 2017, 17, 6217-6220.	9.1	60
18	Effect of capillary condensation on gas transport properties in porous media. Physical Review E, 2017, 96, 043112.	2.1	10

#	ARTICLE	IF	CITATIONS
19	Construction of non-Markovian coarse-grained models employing the Mori-Zwanzig formalism and iterative Boltzmann inversion. <i>Journal of Chemical Physics</i> , 2017, 147, 244110.	3.0	21
20	Hyperthermal molecular beam source using a non-diaphragm-type small shock tube. <i>Review of Scientific Instruments</i> , 2016, 87, 105117.	1.3	1
21	Scattering dynamics of oxygen molecules on Nafion membrane. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	0
22	Large-scale analysis of liquid-water distribution in a porous material based on mean field theory: Application to a micro-porous layer in a polymer electrolyte fuel cell. <i>The Proceedings of Mechanical Engineering Congress Japan</i> , 2016, 2016, J2220101.	0.0	0
23	Molecular Dynamics Simulation of Channel Size Dependence of the Friction Coefficient between a Water Droplet and a Nanochannel Wall. <i>Journal of Physical Chemistry C</i> , 2015, 119, 28396-28404.	3.1	9
24	Molecular Dynamics Study for Channel Size Dependence of Shear Stress Between Droplet and Wall. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 3224-3228.	0.9	1
25	Molecular Beam Study of the Scattering Behavior of Water Molecules from a Graphite Surface. <i>Journal of Physical Chemistry A</i> , 2014, 118, 4611-4619.	2.5	13
26	A molecular dynamics study on heat conduction characteristics inside the alkanethiolate SAM and alkane liquid. <i>International Journal of Heat and Mass Transfer</i> , 2014, 78, 630-635.	4.8	35
27	B212 Molecular dynamics simulation of wettability and pore diameter dependence of saturation pressure of water in nanocylinders. <i>The Proceedings of the Thermal Engineering Conference</i> , 2014, 2014, _B212-1_-_B212-2_.	0.0	0
28	J0550203 Molecular Dynamics Simulation of Pore Diameter Dependence of Saturation Pressure of Water in Nanocylinder. <i>The Proceedings of Mechanical Engineering Congress Japan</i> , 2014, 2014, _J0550203-_J0550203-.	0.0	0
29	J0550105 Channel size dependence of the friction force between water droplets and solid walls. <i>The Proceedings of Mechanical Engineering Congress Japan</i> , 2014, 2014, _J0550105-_J0550105-.	0.0	0
30	Measurements of microbubble generation process in microchannel using ultra high-speed micro-PTV system. <i>Microfluidics and Nanofluidics</i> , 2013, 14, 1011-1020.	2.2	4
31	A non-diaphragm type small shock tube for application to a molecular beam source. <i>Review of Scientific Instruments</i> , 2013, 84, 075105.	1.3	1
32	Gas-Surface Energy Exchange in Collisions of Helium Atoms with Aligned Single-Walled Carbon Nanotube Arrays. <i>Journal of Physical Chemistry C</i> , 2013, 117, 14254-14260.	3.1	5
33	Bottom-up construction of interaction models of non-Markovian dissipative particle dynamics. <i>Physical Review E</i> , 2013, 88, 043305.	2.1	38
34	Development of High-Energy Molecular Beam Source Using Small Shock Tube. 880-02 <i>Nihon Kikai Gakkai Ronbunshu</i> Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2013, 79, 140-150.	0.2	0
35	J053042 Investigation of Electroosmotic Pump for Micro Heat Pipe in Three-Dimensional Integrated Circuits. <i>The Proceedings of Mechanical Engineering Congress Japan</i> , 2013, 2013, _J053042-1-_J053042-5.	0.0	0
36	W052003 Analysis of Gas-Surface Interactions Using Molecular Beam Technique Toward Micro Gas Flow Control. <i>The Proceedings of Mechanical Engineering Congress Japan</i> , 2013, 2013, _W052003-1-_W052003-4.	0.0	0

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37	J053016 New formulation of dissipative particle dynamics : Non-Markovian models. The Proceedings of Mechanical Engineering Congress Japan, 2013, 2013, _J053016-1-_J053016-5.	0.0	0
38	OS1-2-2 Analysis of gas transport in polymer electrolyte fuel cells using structure constructed from X-ray nano CT. The Proceedings of the Symposium on Micro-Nano Science and Technology, 2012, 2012.4, 161-162.	0.0	0
39	J053012 Measurements of Time-of-Flight Distributions of Shock-heated Molecular Beams. The Proceedings of Mechanical Engineering Congress Japan, 2012, 2012, _J053012-1-_J053012-5.	0.0	0
40	J053013 Investigation of water-graphite interaction using molecular beam technique. The Proceedings of Mechanical Engineering Congress Japan, 2012, 2012, _J053013-1-_J053013-5.	0.0	0
41	Scattering Process of Transmitted Gas Molecules Through Vertically Aligned Single-Walled Carbon Nanotube Arrays(<Special Issue>The 1st Symposium on Micro-Nano Engineering). Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2010, 76, 1933-1935.	0.2	0
42	Scattering of Monatomic Gas Molecules on Vertically Aligned Single-Walled Carbon Nanotubes. , 2008, , .		1
43	Inhomogeneous decomposition of ultrathin oxide films on Si(100): Application of Avrami kinetics to thermal desorption spectra. Journal of Chemical Physics, 2008, 128, 164712.	3.0	20
44	Development of Ultra Small Shock Tube for High Energy Molecular Beam Source. , 2008, , .		1
45	Thermal Decomposition Process of Ultrathin Oxide Layers on Si(100). Hyomen Kagaku, 2008, 29, 537-542.	0.0	2
46	Out-of-plane Scattering Distribution of Nitrogen Molecular Beam on Graphite (0001) Surface. AIP Conference Proceedings, 2005, , .	0.4	6