

Ikuya Kinefuchi

List of Publications by Year in descending order

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46
papers

427
citations

840776

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47
all docs

47
docs citations

47
times ranked

521
citing authors

#	ARTICLE	IF	CITATIONS
1	A unified relationship for evaporation kinetics at low Mach numbers. <i>Nature Communications</i> , 2019, 10, 2368.	12.8	73
2	An Ultrathin Nanoporous Membrane Evaporator. <i>Nano Letters</i> , 2017, 17, 6217-6220.	9.1	60
3	Bottom-up construction of interaction models of non-Markovian dissipative particle dynamics. <i>Physical Review E</i> , 2013, 88, 043305.	2.1	38
4	High Heat Flux Evaporation of Low Surface Tension Liquids from Nanoporous Membranes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 7232-7238.	8.0	36
5	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
6	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. <i>International Journal of Heat and Mass Transfer</i> , 2020, 163, 120415.	4.8	23
7	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
8	Inhomogeneous decomposition of ultrathin oxide films on Si(100): Application of Avrami kinetics to thermal desorption spectra. <i>Journal of Chemical Physics</i> , 2008, 128, 164712.	3.0	20
9	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
10	Relation between oxygen gas diffusivity and porous characteristics under capillary condensation of water in cathode catalyst layers of polymer electrolyte membrane fuel cells. <i>International Journal of Heat and Mass Transfer</i> , 2020, 150, 119277.	4.8	13
11	Molecular Dynamics Study of Oxygen Scattering Behavior on Perfluorosulfonic Acid Ionomer Thin Films. <i>Journal of Physical Chemistry C</i> , 2019, 123, 7125-7133.	3.1	12
12	Mutual influence of molecular diffusion in gas and surface phases. <i>Physical Review E</i> , 2018, 97, 013101.	2.1	11
13	Molecular Insights into the Mechanical Properties of Polymer-Fullerene Bulk Heterojunctions for Organic Photovoltaic Applications. <i>Macromolecules</i> , 2021, 54, 958-969.	4.8	11
14	Effect of capillary condensation on gas transport properties in porous media. <i>Physical Review E</i> , 2017, 96, 043112.	2.1	10
15	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
16	Out-of-plane Scattering Distribution of Nitrogen Molecular Beam on Graphite (0001) Surface. <i>AIP Conference Proceedings</i> , 2005, .	0.4	6
17	Metal-organic framework coated porous structures for enhanced thermoelectric performance. <i>Energy Conversion and Management</i> , 2022, 255, 115289.	9.2	6
18	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

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19	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
20	Incident energy dependence of the scattering dynamics of water molecules on silicon and graphite surfaces: the effect on tangential momentum accommodation. <i>Microfluidics and Nanofluidics</i> , 2017, 21, 1.	2.2	4
21	Gas Adsorption and Diffusion Behaviors in Interfacial Systems Composed of a Polymer of Intrinsic Microporosity and Amorphous Silica: A Molecular Simulation Study. <i>Langmuir</i> , 2022, 38, 7567-7579.	3.5	4
22	Thermal Decomposition Process of Ultrathin Oxide Layers on Si(100). <i>Hyomen Kagaku</i> , 2008, 29, 537-542.	0.0	2
23	Evaluation of gas permeability in porous separators for polymer electrolyte fuel cells: Computational fluid dynamics simulation based on micro-x-ray computed tomography images. <i>Physical Review E</i> , 2021, 104, 045105.	2.1	2
24	Scattering of Monatomic Gas Molecules on Vertically Aligned Single-Walled Carbon Nanotubes. , 2008, , .		1
25	Development of Ultra Small Shock Tube for High Energy Molecular Beam Source. , 2008, , .		1
26	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
27	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
28	Hyperthermal molecular beam source using a non-diaphragm-type small shock tube. <i>Review of Scientific Instruments</i> , 2016, 87, 105117.	1.3	1
29	In situ observation of dewetting-induced deformation of vertically aligned single-walled carbon nanotubes. <i>Diamond and Related Materials</i> , 2019, 95, 115-120.	3.9	1
30	Molecular Dynamics Study of Oxygen Diffusivity in Catalyst Layer. <i>ECS Transactions</i> , 2019, 92, 23-28.	0.5	1
31	Analysis of the Effect of Surface Diffusion on Effective Diffusivity of Oxygen in Catalyst Layer By Direct Simulation Monte Carlo. <i>ECS Transactions</i> , 2021, 104, 371-376.	0.5	1
32	Scattering Process of Transmitted Gas Molecules Through Vertically Aligned Single-Walled Carbon Nanotube Arrays (<Special Issue>The 1st Symposium on Micro-Nano Engineering). <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , 2010, 76, 1933-1935.	0.2	0
33	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
34	Scattering dynamics of oxygen molecules on Nafion membrane. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	0
35	Constructing a coarse-grained water model based on non-Markovian dissipative particle dynamics. <i>Transactions of the JSME (in Japanese)</i> , 2018, 84, 18-00193-18-00193.	0.2	0
36	Gas surface dynamics of oxygen molecules on Nafion ionomer membrane. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	0

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37	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
38	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
39	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
40	J053042 Investigation of Electroosmotic Pump for Micro Heat Pipe in Three-Dimensional Integrated Circuits. The Proceedings of Mechanical Engineering Congress Japan, 2013, 2013, _J053042-1-_J053042-5.	0.0	0
41	W052003 Analysis of Gas-Surface Interactions Using Molecular Beam Technique Toward Micro Gas Flow Control. The Proceedings of Mechanical Engineering Congress Japan, 2013, 2013, _W052003-1-_W052003-4.	0.0	0
42	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
43	B212 Molecular dynamics simulation of wettability and pore diameter dependence of saturation pressure of water in nanocylinders. The Proceedings of the Thermal Engineering Conference, 2014, 2014, _B212-1_-_B212-2_.	0.0	0
44	J0550203 Molecular Dynamics Simulation of Pore Diameter Dependence of Saturation Pressure of Water in Nanocylinder. The Proceedings of Mechanical Engineering Congress Japan, 2014, 2014, _J0550203-_J0550203-.	0.0	0
45	J0550105 Channel size dependence of the friction force between water droplets and solid walls. The Proceedings of Mechanical Engineering Congress Japan, 2014, 2014, _J0550105-_J0550105-.	0.0	0
46	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. The Proceedings of Mechanical Engineering Congress Japan, 2016, 2016, J2220101.	0.0	0