

Nobuo Maeda

List of Publications by Year in descending order

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71
papers

3,100
citations

136740

32
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155451

55
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71
all docs

71
docs citations

71
times ranked

2553
citing authors

#	ARTICLE	IF	CITATIONS
1	Physical Properties of Nanobubbles on Hydrophobic Surfaces in Water and Aqueous Solutions. <i>Langmuir</i> , 2006, 22, 5025-5035.	1.6	380
2	Adhesion and Friction Mechanisms of Polymer-on-Polymer Surfaces. <i>Science</i> , 2002, 297, 379-382.	6.0	278
3	Stability of Interfacial Nanobubbles. <i>Langmuir</i> , 2013, 29, 1017-1023.	1.6	189
4	Evaporation and instabilities of microscopic capillary bridges. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 803-808.	3.3	126
5	Removal of Induced Nanobubbles from Water/Graphite Interfaces by Partial Degassing. <i>Langmuir</i> , 2006, 22, 9238-9243.	1.6	111
6	Adhesion and Friction of Polymer Surfaces: The Effect of Chain Ends. <i>Macromolecules</i> , 2005, 38, 3491-3503.	2.2	107
7	Kinetics of Capillary Condensation in a Nanoscale Pore. <i>Physical Review Letters</i> , 1999, 82, 4667-4670.	2.9	103
8	Quantitative kinetic inhibitor comparisons and memory effect measurements from hydrate formation probability distributions. <i>Chemical Engineering Science</i> , 2014, 107, 1-12.	1.9	87
9	Effects of Surfactants on the Formation and the Stability of Interfacial Nanobubbles. <i>Langmuir</i> , 2012, 28, 10471-10477.	1.6	77
10	Further Studies on the Effect of Degassing on the Dispersion and Stability of Surfactant-Free Emulsions. <i>Langmuir</i> , 2004, 20, 3129-3137.	1.6	75
11	Adhesion and Friction of Polystyrene Surfaces around T _g . <i>Macromolecules</i> , 2006, 39, 2350-2363.	2.2	75
12	Preparing Contamination-free Mica Substrates for Surface Characterization, Force Measurements, and Imaging. <i>Langmuir</i> , 2004, 20, 3616-3622.	1.6	66
13	Thermodynamic Stability of Interfacial Gaseous States. <i>Journal of Physical Chemistry B</i> , 2008, 112, 13671-13675.	1.2	59
14	Development of a high pressure automated lag time apparatus for experimental studies and statistical analyses of nucleation and growth of gas hydrates. <i>Review of Scientific Instruments</i> , 2011, 82, 065109.	0.6	53
15	Effects of Sub-Ångstrom (pico-scale) Structure of Surfaces on Adhesion, Friction, and Bulk Mechanical Properties. <i>Journal of Materials Research</i> , 2005, 20, 1952-1972.	1.2	52
16	Effect of Hydrate Shell Formation on the Stability of Dry Water. <i>Journal of Physical Chemistry C</i> , 2015, 119, 1690-1699.	1.5	52
17	Nucleation curves of model natural gas hydrates on a quasi-free water droplet. <i>AIChE Journal</i> , 2015, 61, 2611-2617.	1.8	48
18	Interfacial Nanobubbles and the Memory Effect of Natural Gas Hydrates. <i>Journal of Physical Chemistry C</i> , 2018, 122, 11399-11406.	1.5	47

#	ARTICLE	IF	CITATIONS
19	Statistical Analysis of Supercooling in Fuel Gas Hydrate Systems. <i>Energy & Fuels</i> , 2012, 26, 1820-1827.	2.5	46
20	Formation of Ice, Tetrahydrofuran Hydrate, and Methane/Propane Mixed Gas Hydrates in Strong Monovalent Salt Solutions. <i>Energy & Fuels</i> , 2014, 28, 6877-6888.	2.5	46
21	Simultaneous Hydrate and Corrosion Inhibition with Modified Poly(vinyl caprolactam) Polymers. <i>Energy & Fuels</i> , 2017, 31, 6724-6731.	2.5	46
22	Synthesis of Effective Kinetic Inhibitors for Natural Gas Hydrates. <i>Energy & Fuels</i> , 2012, 26, 1037-1043.	2.5	45
23	Probability distributions of gas hydrate formation. <i>AIChE Journal</i> , 2013, 59, 2640-2646.	1.8	43
24	Statistical Study of the Memory Effect in Model Natural Gas Hydrate Systems. <i>Journal of Physical Chemistry A</i> , 2015, 119, 10784-10790.	1.1	43
25	Nucleation curves of methane hydrate from constant cooling ramp methods. <i>Fuel</i> , 2018, 223, 286-293.	3.4	42
26	Nanoscale Mechanisms of Evaporation, Condensation and Nucleation in Confined Geometries. <i>Journal of Physical Chemistry B</i> , 2002, 106, 3534-3537.	1.2	39
27	A Method for the Calibration of Force Microscopy Cantilevers via Hydrodynamic Drag. <i>Langmuir</i> , 2000, 16, 9282-9286.	1.6	38
28	Interfacial Gaseous States on Crystalline Surfaces. <i>Journal of Physical Chemistry C</i> , 2011, 115, 736-743.	1.5	38
29	Nucleation curves of methane & propane mixed gas hydrates in hydrocarbon oil. <i>Chemical Engineering Science</i> , 2016, 155, 1-9.	1.9	36
30	Surface Supercooling and Stability of n-Alkane Films. <i>Physical Review Letters</i> , 2000, 84, 698-700.	2.9	34
31	High throughput synthesis and characterization of PNIPAM-based kinetic hydrate inhibitors. <i>Fuel</i> , 2017, 188, 522-529.	3.4	34
32	Methane&Propane Mixed Gas Hydrate Film Growth on the Surface of Water and Luvicap EG Solutions. <i>Energy & Fuels</i> , 2013, 27, 2548-2554.	2.5	33
33	Micromanipulation of phospholipid bilayers by atomic force microscopy. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2002, 1564, 165-172.	1.4	31
34	Direct observation of surface effects on the freezing and melting of an n-alkane. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1999, 159, 135-148.	2.3	29
35	Phase Behavior of Long-Chain n-Alkanes at One and between Two Mica Surfaces. <i>Journal of Physical Chemistry B</i> , 2001, 105, 5906-5913.	1.2	29
36	Ranking of kinetic hydrate inhibitors using a high pressure differential scanning calorimeter. <i>Chemical Engineering Science</i> , 2018, 183, 30-36.	1.9	26

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37	Phase transition of n-alkane layers adsorbed on mica. <i>Physical Review E</i> , 2000, 61, 7239-7242.	0.8	25
38	Measurements of gas hydrate formation probability distributions on a quasi-free water droplet. <i>Review of Scientific Instruments</i> , 2014, 85, 065115.	0.6	25
39	Nucleation curves of methane-propane mixed gas hydrates in the presence of a stainless steel wall. <i>Fluid Phase Equilibria</i> , 2016, 413, 142-147.	1.4	24
40	Scaling laws for nucleation rates of gas hydrate. <i>Fuel</i> , 2019, 253, 1597-1604.	3.4	23
41	Effect of Kinetic Hydrate Inhibitor Polyvinylcaprolactam on Cyclopentane Hydrate Cohesion Forces and Growth. <i>Energy & Fuels</i> , 2014, 28, 3632-3637.	2.5	22
42	Comment on Reassessment of Solidification in Fluids Confined between Mica Sheets. <i>Langmuir</i> , 2006, 22, 2397-2398.	1.6	21
43	Probability Distributions of Natural Gas Hydrate Formation in Sodium Dodecyl Sulfate Aqueous Solutions. <i>Energy & Fuels</i> , 2015, 29, 5692-5700.	2.5	21
44	Crystallization in Thin Liquid Films Induced by Shear. <i>Journal of Physical Chemistry B</i> , 2005, 109, 12509-12514.	1.2	19
45	Brief Overview of Ice Nucleation. <i>Molecules</i> , 2021, 26, 392.	1.7	19
46	Is the Surface of Gas Hydrates Dry?. <i>Energies</i> , 2015, 8, 5361-5369.	1.6	18
47	Nucleation Curve of Carbon Dioxide Hydrate from a Linear Cooling Ramp Method. <i>Journal of Physical Chemistry A</i> , 2019, 123, 7911-7919.	1.1	18
48	EXPERIMENTAL OBSERVATIONS OF SURFACE FREEZING. <i>International Journal of Modern Physics B</i> , 2001, 15, 3055-3077.	1.0	17
49	Phase Transitions of Capillary-Held Liquids in a Slit-like Pore. <i>Journal of Physical Chemistry B</i> , 2006, 110, 25982-25993.	1.2	17
50	High-Throughput Testing of Kinetic Hydrate Inhibitors. <i>Energy & Fuels</i> , 2016, 30, 5432-5438.	2.5	17
51	Influence of Dissolved Atmospheric Gases on the Spontaneous Emulsification of Alkane-Ethanol-Water Systems. <i>Journal of Physical Chemistry C</i> , 2011, 115, 8768-8774.	1.5	16
52	Development of a high pressure electrical conductivity probe for experimental studies of gas hydrates in electrolytes. <i>Review of Scientific Instruments</i> , 2013, 84, 015110.	0.6	16
53	Fuel Gas Hydrate Formation Probability Distributions on Quasi-free Water Droplets. <i>Energy & Fuels</i> , 2015, 29, 137-142.	2.5	12
54	Synergism of Ethers on the Kinetic Inhibition Performance of Poly(<i>N</i> -vinyl pyrrolidone) on Methane Hydrate in a Pilot-Scale Flow Loop. <i>Energy & Fuels</i> , 2020, 34, 2790-2799.	2.5	12

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55	Nucleation Probability Distributions of Methane-Propane Mixed Gas Hydrates in Salt Solutions and Urea. Energy & Fuels, 2015, 29, 6259-6270.	2.5	11
56	Generation of pickering emulsions by activating natural asphaltenes as nano materials: An experimental analysis for cost-effective heavy-oil recovery. Journal of Molecular Liquids, 2021, 339, 116759.	2.3	10
57	Measurements of Cohesion Hysteresis between Cyclopentane Hydrates in Liquid Cyclopentane. Energy & Fuels, 2013, 27, 5168-5174.	2.5	9
58	Preliminary Screening and Formulation of New Generation Nanoparticles for Stable Pickering Emulsion in Cold and Hot Heavy-Oil Recovery. SPE Reservoir Evaluation and Engineering, 2021, 24, 66-79.	1.1	9
59	Study of electrical conductivity response upon formation of ice and gas hydrates from salt solutions by a second generation high pressure electrical conductivity probe. Review of Scientific Instruments, 2014, 85, 115101.	0.6	8
60	Growth Kinetics of Methane Hydrate in a Pilot-Scale Flow Loop. Energy & Fuels, 2019, 33, 7717-7725.	2.5	7
61	Nucleation of Gas Hydrates. , 2020, , 111-148.		7
62	Nucleation curves of ice in quasi-free water droplets. Chemical Engineering Science, 2021, 242, 116751.	1.9	6
63	Kinetic Inhibition of CO ₂ Hydrate by Carboxymethylcellulose Sodium through Retarded Mass Transfer. Energy & Fuels, 2021, 35, 18615-18622.	2.5	6
64	Nucleation curve of carbon dioxide hydrate. Energy Procedia, 2019, 158, 5928-5933.	1.8	5
65	Nucleation of Gas Hydrates. , 2020, , .		5
66	Critical Surface Tension and Specific Surface Free Energy of Clathrate Hydrate. Energy & Fuels, 2022, 36, 407-414.	2.5	5
67	Critical Shear Stress of Clathrate and Semiclathrate Hydrates on Solid Substrates. Energy & Fuels, 2022, 36, 3619-3627.	2.5	4
68	Interfacial Gaseous States. , 2020, , 83-109.		3
69	Nucleation Theory. , 2020, , 1-33.		0
70	Experimental Methods for Determination of Nucleation Rates. , 2020, , 35-59.		0
71	Gas Hydrates. , 2020, , 61-81.		0