

Takaaki Mochizuki

List of Publications by Year in descending order

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Version: 2024-02-01

17
papers

365
citations

1163117

8
h-index

940533

16
g-index

17
all docs

17
docs citations

17
times ranked

326
citing authors

#	ARTICLE	IF	CITATIONS
1	Mass transport across clathrate hydrate films – a capillary permeation model. Chemical Engineering Science, 1997, 52, 3613-3616.	3.8	94
2	Clathrate-hydrate film growth along water/hydrate-former phase boundaries – numerical heat-transfer study. Journal of Crystal Growth, 2006, 290, 642-652.	1.5	86
3	Formation and dissociation of clathrate hydrate in stoichiometric tetrahydrofuran – water mixture subjected to one-dimensional cooling or heating. Chemical Engineering Science, 2001, 56, 4747-4758.	3.8	42
4	Behavior of oblately deformed droplets in an immiscible dielectric liquid under a steady and uniform electric field. Physics of Fluids, 2006, 18, 127101.	4.0	38
5	Dissolution of liquid CO ₂ into water at high pressures: A search for the mechanism of dissolution being retarded through hydrate-film formation. Energy Conversion and Management, 1998, 39, 567-578.	9.2	31
6	Simultaneous mass and heat transfer to/from the edge of a clathrate-hydrate film causing its growth along a water/guest-fluid phase boundary. Chemical Engineering Science, 2017, 171, 61-75.	3.8	26
7	Numerical Simulation of Transient Heat and Mass Transfer Controlling the Growth of a Hydrate Film. Annals of the New York Academy of Sciences, 2000, 912, 642-650.	3.8	12
8	Clathrate hydrate formation at liquid/liquid interface under shear water flow. Journal of Crystal Growth, 2003, 249, 372-380.	1.5	8
9	Modeling of Simultaneous Heat and Mass Transfer to/from and across a Hydrate Film. Annals of the New York Academy of Sciences, 2000, 912, 633-641.	3.8	7
10	Calibration scheme for three-dimensional particle tracking with a prismatic light. Review of Scientific Instruments, 2004, 75, 541-545.	1.3	6
11	Periodic Deformation of Microsize Droplets in a Microchannel Induced by a Transverse Alternating Electric Field. Langmuir, 2013, 29, 12879-12890.	3.5	6
12	Augmentation of direct-contact heat transfer to a train of drops through application of a transverse electric field.. Journal of Chemical Engineering of Japan, 1987, 20, 608-613.	0.6	2
13	Drop interactions in electrostatic liquid-liquid contactors. AIChE Journal, 1992, 38, 311-314.	3.6	2
14	Rotating Motion of an Oil Droplet in a Circular Channel Subjected to a Transverse Alternating Electric Field. ACS Omega, 2018, 3, 1031-1040.	3.5	2
15	Drop Interactions in Electric Fields across Tilted Parallel-Plate Electrodes.. JSME International Journal Series B, 1993, 36, 628-635.	0.3	1
16	Multi-angle observation scheme for bubbles and droplets. Journal of Visualization, 2012, 15, 125-137.	1.8	1
17	A NOVEL DESIGN OF LIQUID-LIQUID CONTACTORS WITH AN ELECTRICAL ENHANCEMENT DEVICE – A SIMULATION OF THEIR PERFORMANCE. , 1997, , .		1