Yoshio Masuda

List of Publications by Year
in descending order

30 papers	457 citations	840119 11 h-index	713013 21 g-index
30 all docs	30 docs citations	30 times ranked	389 citing authors

#	Article	IF	Citations
1	On natural convection in vertical porous enclosures due to opposing fluxes of heat and mass prescribed at the vertical walls. International Journal of Heat and Mass Transfer, 1994, 37, 195-206.	2.5	76
2	CO2 absorption properties, densities, viscosities, and electrical conductivities of ethylimidazolium and 1-ethyl-3-methylimidazolium ionic liquids. Fluid Phase Equilibria, 2014, 362, 300-306.	1.4	58
3	Physical and CO2-Absorption Properties of Imidazolium Ionic Liquids with Tetracyanoborate and Bis(trifluoromethanesulfonyl)amide Anions. Journal of Solution Chemistry, 2014, 43, 1601-1613.	0.6	47
4	Direct observation of channel-tee mixing of high-temperature and high-pressure water. Journal of Supercritical Fluids, 2007, 43, 222-227.	1.6	31
5	Numerical simulation of GaN single-crystal growth process in ammonothermal autoclave â€“ Effects of baffle shape. International Journal of Heat and Mass Transfer, 2010, 53, 940-943.	2.5	22
6	Effect of extraction on furfural production by solid acid-catalyzed xylose dehydration in water. Journal of Supercritical Fluids, 2019, 144, 14-18.	1.6	22
7	Oscillatory double-diffusive convection in a porous enclosure due to opposing heat and mass fluxes on the vertical walls. International Journal of Heat and Mass Transfer, 2002, 45, 1365-1369.	2.5	18
8	One dimensional heat transfer on the thermal diffusion and piston effect of supercritical water. International Journal of Heat and Mass Transfer, 2002, 45, 3673-3677.	2.5	13
9	Numerical analysis of double-diffusive convection in a porous enclosure due to opposing heat and mass fluxes on the vertical walls â€“ Why does peculiar oscillation occur?. International Journal of Heat and Mass Transfer, 2008, 51, 383-388.	2.5	13
10	Depolymerization of Poly(ethylene terephthalate) to Terephthalic Acid and Ethylene Glycol in High-temperature Liquid Water. Chemistry Letters, 2009, 38, 268-269.	0.7	13
11	Determination of anisotropic solvation structure of octafluorotoluene in supercritical carbon dioxide by means of solvent-induced 19F NMR chemical shift. Chemical Physics Letters, 2001, 338, 95-100.	1.2	12
12	Calculation method of heat and fluid flow in a microreactor for supercritical water and its solution. International Communications in Heat and Mass Transfer, 2006, 33, 419-425.	2.9	11
13	Numerical Simulation of Heat and Fluid Flow in Ammonothermal GaN Bulk Crystal Growth Process. Japanese Journal of Applied Physics, 2013, 52, 08JA05.	0.8	11
14	Particle-size Effects of Activated Carbon-supported Rhodium Catalysts on Hydrogenation of Naphthalene in Supercritical Carbon Dioxide Solvent. Chemistry Letters, 2008, 37, 734-735.	0.7	10
15	Numerical simulation of natural convection heat transfer in a ZnO single-crystal growth hydrothermal autoclaveâ€"Effects of fluid properties. Journal of Crystal Growth, 2009, 311, 675-679.	0.7	10
16	Thermodynamic Equilibria between Polyalcohols and Cyclic Ethers in High-Temperature Liquid Water. Journal of Chemical & Engineering Data, 2009, 54, 2666-2668.	1.0	10
17	Numerical simulation of two-dimensional piston effect and natural convection in a square cavity heated from one side. International Communications in Heat and Mass Transfer, 2004, 31, 151-160.	2.9	9
18	Rayleigh-BÃ©nard convection at high Rayleigh number and infinite Prandtl number: Asymptotics and numerics. Physics of Fluids, 2013, 25, .	1.6	9

#	Article	IF	Citations
19	Convection patterns and temperature fields of ammonothermal GaN bulk crystal growth process. Japanese Journal of Applied Physics, 2016, 55, 05FC03.	0.8	9
20	Numerical simulation of heat transfer in floating zone single crystal growth process with radio frequency induction heating. International Journal of Heat and Mass Transfer, 1996, 39, 3035-3043.	2.5	8
21	Numerical Simulation of Hydrothermal Autoclave for Single-Crystal Growth Process. Journal of Thermal Science and Technology, 2008, 3, 540-551.	0.6	8
22	Chemical Recycling Process of Poly(Ethylene Terephthalate) in High-Temperature Liquid Water. Journal of Chemical Engineering of Japan, 2010, 43, 313-317.	0.3	6
23	Heat and Fluid Flow in Solvothermal Autoclave for Single-Crystal Growth Process. Journal of Thermal Science and Technology, 2012, 7, 379-386.	0.6	6
24	Multiple Solutions of Double-Diffusive Convection in Porous Media due to Opposing Heat and Mass Fluxes on Vertical Walls. Journal of Thermal Science and Technology, 2013, 8, 533-542.	0.6	5
25	Flow Visualization and Numerical Simulation of T-Junction Mixing of High-Temperature High-Pressure Water. Journal of Chemical Engineering of Japan, 2009, 42, 64-70.	0.3	5
26	Double-diffusive natural convection in a porous medium under constant heat and mass fluxes. Heat Transfer - Asian Research, 1999, 28, 255-265.	2.8	4
27	19F NMR chemical shifts of CF4 in CO2 over a wide pressure range at different temperatures. Magnetic Resonance in Chemistry, 2003, 41, 75-76.	1.1	4
28	Numerical analysis of re-oscillation and non-centrosymmetric convection in a porous enclosure due to opposing heat and mass fluxes on the vertical walls. International Communications in Heat and Mass Transfer, 2010, 37, 250-255.	2.9	4
29	Phase Behavior of Hydrogenation of 2-tert-Butylphenol over a Charcoal-Supported Rhodium Catalyst in Carbon Dioxide Solvent. Journal of Chemical & Engineering Data, 2009, 54, 1610-1612.	1.0	2
30	Continuous Toluene Hydrogenation System Using Compressed Carbon Dioxide. Journal of Chemical Engineering of Japan, 2010, 43, 82-86.	0.3	1