Yoshio Masuda

List of Publications by Year in Descending Order

30 papers	383 citations	11 h-index	18 g-index
30 ext. papers	411 ext. citations	2.9 avg, IF	2.98 L-index

#	Paper	IF	Citations
30	Effect of extraction on furfural production by solid acid-catalyzed xylose dehydration in water. *Journal of Supercritical Fluids*, **2019**, 144, 14-18	4.2	13
29	Convection patterns and temperature fields of ammonothermal GaN bulk crystal growth process. *Japanese Journal of Applied Physics*, **2016**, 55, 05FC03	1.4	8
28	CO2 absorption properties, densities, viscosities, and electrical conductivities of ethylimidazolium and 1-ethyl-3-methylimidazolium ionic liquids. *Fluid Phase Equilibria*, **2014**, 362, 300-306	2.5	41
27	Physical and CO2-Absorption Properties of Imidazolium Ionic Liquids with Tetracyanoborate and Bis(trifluoromethanesulfonyl)amide Anions. *Journal of Solution Chemistry*, **2014**, 43, 1601-1613	1.8	36
26	Rayleigh-B□ard convection at high Rayleigh number and infinite Prandtl number: Asymptotics and numerics. *Physics of Fluids*, **2013**, 25, 113602	4.4	6
25	Numerical Simulation of Heat and Fluid Flow in Ammonothermal GaN Bulk Crystal Growth Process. *Japanese Journal of Applied Physics*, **2013**, 52, 08JA05	1.4	11
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	4
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
22	Chemical Recycling Process of Poly(Ethylene Terephthalate) in High-Temperature Liquid Water. *Journal of Chemical Engineering of Japan*, **2010**, 43, 313-317	0.8	5
21	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	5.8	3
20	Numerical simulation of GaN single-crystal growth process in ammonothermal autoclave □Effects of baffle shape. *International Journal of Heat and Mass Transfer*, **2010**, 53, 940-943	4.9	19
19	Continuous Toluene Hydrogenation System Using Compressed Carbon Dioxide. *Journal of Chemical Engineering of Japan*, **2010**, 43, 82-86	0.8	1
18	Numerical simulation of natural convection heat transfer in a ZnO single-crystal growth hydrothermal autoclave□ffects of fluid properties. *Journal of Crystal Growth*, **2009**, 311, 675-679	1.6	9
17	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	2.8	2
16	Thermodynamic Equilibria between Polyalcohols and Cyclic Ethers in High-Temperature Liquid Water□*Journal of Chemical & Engineering Data*, **2009**, 54, 2666-2668	2.8	10
15	Depolymerization of Poly(ethylene terephthalate) to Terephthalic Acid and Ethylene Glycol in High-temperature Liquid Water. *Chemistry Letters*, **2009**, 38, 268-269	1.7	13
14	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	0.8	5

List of Publications

13	Numerical Simulation of Hydrothermal Autoclave for Single-Crystal Growth Process. *Journal of Thermal Science and Technology*, **2008**, 3, 540-551	0.6	7
12	Particle-size Effects of Activated Carbon-supported Rhodium Catalysts on Hydrogenation of Naphthalene in Supercritical Carbon Dioxide Solvent. *Chemistry Letters*, **2008**, 37, 734-735	1.7	9
11	Numerical analysis of double-diffusive convection in a porous enclosure due to opposing heat and mass fluxes on the vertical walls Why does peculiar oscillation occur?. *International Journal of Heat and Mass Transfer*, **2008**, 51, 383-388	4.9	11
10	Direct observation of channel-tee mixing of high-temperature and high-pressure water. *Journal of Supercritical Fluids*, **2007**, 43, 222-227	4.2	27
9	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	5.8	10
8	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	5.8	8
7	19F NMR chemical shifts of CF4 in CO2 over a wide pressure range at different temperatures. *Magnetic Resonance in Chemistry*, **2003**, 41, 75-76	2.1	3
6	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	4.9	16
5	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	4.9	11
4	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	2.5	11
3	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
2	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	4.9	8
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	4.9	66