

# Yoshio Masuda

## List of Publications by Citations

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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	On natural convection in vertical porous enclosures due to opposing fluxes of heat and mass prescribed at the vertical walls. <i>International Journal of Heat and Mass Transfer</i> , <b>1994</b> , 37, 195-206	4.9	66
29	CO <sub>2</sub> absorption properties, densities, viscosities, and electrical conductivities of ethylimidazolium and 1-ethyl-3-methylimidazolium ionic liquids. <i>Fluid Phase Equilibria</i> , <b>2014</b> , 362, 300-306	2.5	41
28	Physical and CO <sub>2</sub> -Absorption Properties of Imidazolium Ionic Liquids with Tetracyanoborate and Bis(trifluoromethanesulfonyl)amide Anions. <i>Journal of Solution Chemistry</i> , <b>2014</b> , 43, 1601-1613	1.8	36
27	Direct observation of channel-tee mixing of high-temperature and high-pressure water. <i>Journal of Supercritical Fluids</i> , <b>2007</b> , 43, 222-227	4.2	27
26	Numerical simulation of GaN single-crystal growth process in ammonothermal autoclave [Effects of baffle shape. <i>International Journal of Heat and Mass Transfer</i> , <b>2010</b> , 53, 940-943	4.9	19
25	Oscillatory double-diffusive convection in a porous enclosure due to opposing heat and mass fluxes on the vertical walls. <i>International Journal of Heat and Mass Transfer</i> , <b>2002</b> , 45, 1365-1369	4.9	16
24	Depolymerization of Poly(ethylene terephthalate) to Terephthalic Acid and Ethylene Glycol in High-temperature Liquid Water. <i>Chemistry Letters</i> , <b>2009</b> , 38, 268-269	1.7	13
23	Effect of extraction on furfural production by solid acid-catalyzed xylose dehydration in water. <i>Journal of Supercritical Fluids</i> , <b>2019</b> , 144, 14-18	4.2	13
22	Numerical Simulation of Heat and Fluid Flow in Ammonothermal GaN Bulk Crystal Growth Process. <i>Japanese Journal of Applied Physics</i> , <b>2013</b> , 52, 08JA05	1.4	11
21	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?. <i>International Journal of Heat and Mass Transfer</i> , <b>2008</b> , 51, 383-388	4.9	11
20	One dimensional heat transfer on the thermal diffusion and piston effect of supercritical water. <i>International Journal of Heat and Mass Transfer</i> , <b>2002</b> , 45, 3673-3677	4.9	11
19	Determination of anisotropic solvation structure of octafluorotoluene in supercritical carbon dioxide by means of solvent-induced <sup>19</sup> F NMR chemical shift. <i>Chemical Physics Letters</i> , <b>2001</b> , 338, 95-100 <sup>2.5</sup>	2.5	11
18	Thermodynamic Equilibria between Polyalcohols and Cyclic Ethers in High-Temperature Liquid Water [Journal of Chemical & Engineering Data, <b>2009</b> , 54, 2666-2668	2.8	10
17	Calculation method of heat and fluid flow in a microreactor for supercritical water and its solution. <i>International Communications in Heat and Mass Transfer</i> , <b>2006</b> , 33, 419-425	5.8	10
16	Numerical simulation of natural convection heat transfer in a ZnO single-crystal growth hydrothermal autoclave [Effects of fluid properties. <i>Journal of Crystal Growth</i> , <b>2009</b> , 311, 675-679	1.6	9
15	Particle-size Effects of Activated Carbon-supported Rhodium Catalysts on Hydrogenation of Naphthalene in Supercritical Carbon Dioxide Solvent. <i>Chemistry Letters</i> , <b>2008</b> , 37, 734-735	1.7	9
14	Convection patterns and temperature fields of ammonothermal GaN bulk crystal growth process. <i>Japanese Journal of Applied Physics</i> , <b>2016</b> , 55, 05FC03	1.4	8

13	Numerical simulation of two-dimensional piston effect and natural convection in a square cavity heated from one side. <i>International Communications in Heat and Mass Transfer</i> , <b>2004</b> , 31, 151-160	5.8	8
12	Numerical simulation of heat transfer in floating zone single crystal growth process with radio frequency induction heating. <i>International Journal of Heat and Mass Transfer</i> , <b>1996</b> , 39, 3035-3043	4.9	8
11	Numerical Simulation of Hydrothermal Autoclave for Single-Crystal Growth Process. <i>Journal of Thermal Science and Technology</i> , <b>2008</b> , 3, 540-551	0.6	7
10	Rayleigh-BBard convection at high Rayleigh number and infinite Prandtl number: Asymptotics and numerics. <i>Physics of Fluids</i> , <b>2013</b> , 25, 113602	4.4	6
9	Heat and Fluid Flow in Solvothermal Autoclave for Single-Crystal Growth Process. <i>Journal of Thermal Science and Technology</i> , <b>2012</b> , 7, 379-386	0.6	6
8	Chemical Recycling Process of Poly(Ethylene Terephthalate) in High-Temperature Liquid Water. <i>Journal of Chemical Engineering of Japan</i> , <b>2010</b> , 43, 313-317	0.8	5
7	Flow Visualization and Numerical Simulation of T-Junction Mixing of High-Temperature High-Pressure Water. <i>Journal of Chemical Engineering of Japan</i> , <b>2009</b> , 42, 64-70	0.8	5
6	Multiple Solutions of Double-Diffusive Convection in Porous Media due to Opposing Heat and Mass Fluxes on Vertical Walls. <i>Journal of Thermal Science and Technology</i> , <b>2013</b> , 8, 533-542	0.6	4
5	Double-diffusive natural convection in a porous medium under constant heat and mass fluxes. <i>Heat Transfer - Asian Research</i> , <b>1999</b> , 28, 255-265	2.8	4
4	Numerical analysis of re-oscillation and non-centrosymmetric convection in a porous enclosure due to opposing heat and mass fluxes on the vertical walls. <i>International Communications in Heat and Mass Transfer</i> , <b>2010</b> , 37, 250-255	5.8	3
3	<sup>19</sup> F NMR chemical shifts of CF <sub>4</sub> in CO <sub>2</sub> over a wide pressure range at different temperatures. <i>Magnetic Resonance in Chemistry</i> , <b>2003</b> , 41, 75-76	2.1	3
2	Phase Behavior of Hydrogenation of 2-tert-Butylphenol over a Charcoal-Supported Rhodium Catalyst in Carbon Dioxide Solvent. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2009</b> , 54, 1610-1612	2.8	2
1	Continuous Toluene Hydrogenation System Using Compressed Carbon Dioxide. <i>Journal of Chemical Engineering of Japan</i> , <b>2010</b> , 43, 82-86	0.8	1