

Eita Shoji

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

297
citations

933264

10
h-index

887953

17
g-index

30
all docs

30
docs citations

30
times ranked

229
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of phase-shifting interferometry for measurement of isothermal diffusion coefficients in binary solutions. <i>Optics and Lasers in Engineering</i> , 2012, 50, 1287-1296.	2.0	52
2	Numerical analysis of core-scale methane hydrate dissociation dynamics and multiphase flow in porous media. <i>Chemical Engineering Science</i> , 2016, 153, 221-235.	1.9	43
3	High-speed phase-shifting interferometry using triangular prism for time-resolved temperature measurement. <i>Applied Optics</i> , 2015, 54, 6297.	2.1	21
4	Development of quasi common path phase-shifting interferometer for measurement of natural convection fields. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 7460-7470.	2.5	18
5	Experimental evaluation of thermal radiation effects on natural convection with a Rayleigh number of 108×10^9 by using an interferometer. <i>International Journal of Heat and Mass Transfer</i> , 2019, 132, 1239-1249.	2.5	18
6	Three-step phase-shifting imaging ellipsometry to measure nanofilm thickness profiles. <i>Optics and Lasers in Engineering</i> , 2019, 112, 145-150.	2.0	16
7	Neutron computed tomography of phase separation structures in solidified Cu Co alloys and investigation of relationship between the structures and melt convection during solidification. <i>Scripta Materialia</i> , 2020, 175, 29-32.	2.6	16
8	Quantitative visualization of boundary layers by developing quasi-common-path phase-shifting interferometer. <i>Experimental Thermal and Fluid Science</i> , 2015, 60, 231-240.	1.5	14
9	Evaluation of the work of adhesion at the interface between a surface-modified metal oxide and an organic solvent using molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2021, 154, 114703.	1.2	14
10	Measurement of transient heat transfer in vicinity of gas-liquid interface using high-speed phase-shifting interferometer. <i>International Communications in Heat and Mass Transfer</i> , 2017, 89, 57-63.	2.9	12
11	Control of the temperature responsiveness of poly(N-isopropylacrylamide-co-2-hydroxyethyl) Tj ETQq1 1 0.784314 ggBT /Overlock 10	3.8	12
12	Flow visualization of heavy oil in a packed bed using real-time neutron radiography. <i>Chemical Engineering Science</i> , 2019, 196, 425-432.	1.9	8
13	Effects of vertical, horizontal and rotational magnetic fields on convection in an electromagnetically levitated droplet. <i>International Journal of Heat and Mass Transfer</i> , 2019, 130, 787-796.	2.5	8
14	In-situ visualization of heavy oil behavior in supercritical water using neutron radiography. <i>Chemical Engineering Science</i> , 2020, 225, 115816.	1.9	7
15	Numerical Simulation of Laminar-Turbulent Transition in Magnetohydrodynamic Convection in an Electromagnetically Levitated Molten Droplet of Cu-Co Alloys Under a Static Magnetic Field. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021, 52, 896-902.	1.0	6
16	Design guideline for multi-cylinder-type liquid-piston Stirling engine. <i>Applied Thermal Engineering</i> , 2022, 200, 117635.	3.0	6
17	Thermal Conductivity Measurement of Molten Cu-Co Alloy Using an Electromagnetic Levitator Superimposed with a Static Magnetic Field. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2017, 48, 3213-3218.	1.0	5
18	Compositional Dependence of Normal Spectral Emissivity of Molten Cu-Fe Alloy. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2019, 50, 2454-2458.	1.0	4

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19	Numerical Simulation of Structure Formation of Surface-Modified Nanoparticles during Solvent Evaporation. Journal of Chemical Engineering of Japan, 2019, 52, 680-693.	0.3	4
20	Effect of Surface Modifier of Nanoparticles on Dewetting Behaviors of Polymer Nanocomposite Thin Films. Journal of Chemical Engineering of Japan, 2018, 51, 282-288.	0.3	3
21	Experimental Study of Methane Hydrate Dissociation and Gas Production Behaviors under Depressurization. International Journal of Mechanical Engineering and Robotics Research, 2017, , 140-146.	0.7	3
22	Spatial structures formation of surface-modified nanoparticles in polymer nanocomposite thin films. Chemical Engineering and Processing: Process Intensification, 2020, 155, 108054.	1.8	2
23	Compositional Dependence of Thermal Conductivity of Molten Cu-Fe Alloy at Low Fe Contents. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2020, 51, 2504-2509.	1.0	2
24	Measurement of dynamic wetting using phase-shifting imaging ellipsometer: comparison of pure solvent and nanoparticle suspension on film thickness profile, apparent contact angle, and precursor film length. Experiments in Fluids, 2021, 62, 1.	1.1	2
25	Numerical investigation of growth interface shape and compositional distributions in SiGe crystals grown by the TLZ method in the International Space Station. Journal of Crystal Growth, 2021, 566-567, 126157.	0.7	0
26	238 Accurate Measurement of Natural Convection Fields by Commo-Path Phase-Shifting Interferometer. The Proceedings of Conference of Tohoku Branch, 2012, 2012.47, 282-283.	0.0	0
27	Visualization of density distribution during dissociation at the methane hydrate interface. The Proceedings of Conference of Tohoku Branch, 2017, 2017.52, 151.	0.0	0
28	Prediction of Surface Tension of Heavy Oil Based on Principle of Corresponding States Combined with Detailed Composition and Molecular Structure Analysis. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2020, 99, 75-81.	0.2	0