

Isao Satoh

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9425181/publications.pdf>

Version: 2024-02-01

38
papers

206
citations

1478505

6
h-index

1058476

14
g-index

38
all docs

38
docs citations

38
times ranked

138
citing authors

#	ARTICLE	IF	CITATIONS
1	A new concept of active temperature control for an injection molding process using infrared radiation heating. <i>Polymer Engineering and Science</i> , 2002, 42, 2418-2429.	3.1	50
2	Freezing of a water droplet due to evaporation—heat transfer dominating the evaporation—freezing phenomena and the effect of boiling on freezing characteristics. <i>International Journal of Refrigeration</i> , 2002, 25, 226-234.	3.4	50
3	Investigation of wave-like flow marks in injection molding: Flow visualization and micro-geometry. <i>Polymer Engineering and Science</i> , 1999, 39, 2233-2241.	3.1	28
4	Investigation of wavelike flow marks in injection molding: A new hypothesis for the generation mechanism. <i>Polymer Engineering and Science</i> , 2000, 40, 2161-2174.	3.1	16
5	Radiative heat exchange between a fluidized bed and heated surface. <i>Experimental Thermal and Fluid Science</i> , 1995, 11, 135-142.	2.7	10
6	A study on separation behavior of press-molded glassware from a thermal engineering viewpoint: Correlation of separation forces to the interface temperature between the mold and the glass. <i>Heat Transfer - Asian Research</i> , 2001, 30, 660-675.	2.8	6
7	Direct-contact heat exchange between fluidizing particles and a heat transfer surface in a fluidized bed: Temperature visualization of fluidizing particles. <i>Heat Transfer - Asian Research</i> , 2002, 31, 165-181.	2.8	6
8	Laminar heat transfer in an asymmetrically heated rectangular duct. <i>International Journal of Heat and Mass Transfer</i> , 1987, 30, 1201-1208.	4.8	5
9	Effect of Marangoni convection on the temperature profiles of a free surface subject to nonuniform radiative heating. <i>Experimental Thermal and Fluid Science</i> , 1989, 2, 365-373.	2.7	5
10	Surface temperature monitoring of convex molten polymer using interferometric tomography with direct cylindrical reconstruction. <i>Measurement Science and Technology</i> , 2006, 17, 2072-2077.	2.6	5
11	Performance of the cold transport system utilizing evaporation-freezing phenomena with a cold trap. <i>International Journal of Refrigeration</i> , 2004, 27, 255-263.	3.4	4
12	Bessel beam laser-scribing of thin film silicon solar cells by ns pulsed laser. <i>Journal of Thermal Science and Technology</i> , 2016, 11, JTST0011-JTST0011.	1.1	4
13	Thermal strategy for the separation of a polymer mixture. <i>Polymer Engineering and Science</i> , 2005, 45, 1419-1425.	3.1	3
14	Dispersion control of immiscible polymer blend using selective heating by infrared laser irradiation. <i>Journal of Applied Polymer Science</i> , 2013, 129, 3606-3612.	2.6	3
15	HEAT TRANSFER ENHANCEMENT DUE TO TURBULENCE INDUCED BY PARTICLE MOTION IN GAS-SOLID FLUIDIZED BEDS. <i>Experimental Heat Transfer</i> , 1994, 7, 163-173.	3.2	2
16	Heat Transfer in Segregated Fluidized Beds Part 2: Particle Motion and Its Effects on the Heat transfer in the Segregated Fluidized Beds. <i>Journal of Thermal Science and Technology</i> , 2007, 2, 55-66.	1.1	2
17	Heat Transfer in Segregated Fluidized Beds Part 1: Relation between Particle and Temperature Segregation and Dominating Heat Transfer Mechanisms. <i>Journal of Thermal Science and Technology</i> , 2007, 2, 43-54.	1.1	2
18	FREEZING OF SUPERCOOLED WATER ON AN OSCILLATING SURFACE. , 1994, , .		2

#	ARTICLE	IF	CITATIONS
19	Separation of Plastic Waste by utilizing Unsteady Heat Transfer and Melt-Sticking Phenomena.. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2001, 67, 1430-1437.	0.2	1
20	Filling and Transcription Behavior of Molten Polymer Coating on Microstructures in Melt-Transcription-Molding Process. Seikei-Kakou, 2009, 21, 94-102.	0.0	1
21	Dispersion control of immiscible polymer blend using selective heating by infrared laser irradiation: Numerical study. AIP Conference Proceedings, 2016, , .	0.4	1
22	A Knowledge Database on Thermal Control in Manufacturing Processes (Molding, Semiconductor) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	0.3	0
23	A Study on Micro-scale Flow Behavior of Thermoplastic Polymeric Material. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2011, 24, 83-88.	0.3	0
24	Formation of Electro-Conductive Part on Polymeric Material Surface by CO2 Laser Irradiation. , 2011, , .		0
25	Multidimensional Measurement of Evaporating Droplets by Dynamic Interferometric Laser Imaging for Droplet Sizing. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2011, 77, 2339-2353.	0.2	0
26	Electric Charge of Micro and Nano Bubbles by Interferometric Laser Imaging Technique. , 2011, , .		0
27	Study of Laser Transmission Welding for Amorphous Polymer using Radiation Absorption Change by Moisture Adsorption. Seikei-Kakou, 2015, 27, 151-156.	0.0	0
28	Local Radiation Heating Technique of Polymeric Materials Using Functional-Dye. , 2007, , .		0
29	Study on Weld Characteristics of Thin-wall Injection Molded Polypropylene Plates. Seikei-Kakou, 2008, 20, 776-780.	0.0	0
30	Adhesion Effects between a Molten Polymer and a Stamper in a Transcription Process for Fine Patterns. Seikei-Kakou, 2009, 21, 499-509.	0.0	0
31	D112 Accuracy of the three dimensional velocity measurement by the novel light field PIV technique. The Proceedings of the Thermal Engineering Conference, 2014, 2014, _D112-1_-_D112-2_.	0.0	0
32	G0610202 Development of new rapid heating-cooling device by desiccant material. The Proceedings of Mechanical Engineering Congress Japan, 2014, 2014, _G0610202-_G0610202-.	0.0	0
33	Estimation of Birefringence Due to Stress and Molecular Orientation Induced in an Injection-molded Polymer Strip. Seikei-Kakou, 1993, 5, 747-756.	0.0	0
34	Behavior of Polymer Melt in the Mold Cavity during the Packing-Holding Process of Injection-Molding and the Effects on the Molding Failure.. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 1996, 5, 232-237.	0.0	0
35	Flow-ability Improvement for Thin Injection Molded Products by Infrared Irradiation.. Seikei-Kakou, 1999, 11, 425-431.	0.0	0
36	A Study of the Wave-like Flow Mark Generation Process on an Injection Molded Polymer Strip with Laser Interference.. Seikei-Kakou, 1999, 11, 914-921.	0.0	0

#	ARTICLE	IF	CITATIONS
37	W261002 Academy for Global Leadership, Tokyo Institute of Technology. The Proceedings of Mechanical Engineering Congress Japan, 2015, 2015, _W261002-1-_W261002-5.	0.0	0
38	Improvement of Thermal Conductivity of Carbon Fiber-Filled Polymer Composites using Flow-Induced Fiber Orientation. Seikei-Kakou, 2019, 31, 126-128.	0.0	0