Sun Kyoung Kim

List of Publications by Year
in descending order

		933447	996975
27	250	10	15
papers	citations	h-index	g-index
28	28	28	217
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	Darcy friction factor and Nusselt number in laminar tube flow of Carreau fluid. Rheologica Acta, 2022, 61, 243-255.	2.4	6
2	Correlations for Convective Laminar Heat Transfer of Carreau Fluid in Straight Tube Flow. Energies, 2022, 15, 2368.	3.1	1
3	Non-isothermal non-Newtonian three-dimensional flow simulation of fused filament fabrication. Additive Manufacturing, 2022, , 102833.	3.0	0
4	Non-Newtonian modeling of contact pressure in fused filament fabrication. Journal of Rheology, 2021, 65, 27-42.	2.6	16
5	High-Throughput Synthesis of Liposome Using an Injection-Molded Plastic Micro-Fluidic Device. Micromachines, 2021, 12, 170.	2.9	3
6	Rapid Numerical Estimation of Pressure Drop in Hot Runner System. Micromachines, 2021, 12, 207.	2.9	2
7	Influence of Errors in Known Constants and Boundary Conditions on Solutions of Inverse Heat Conduction Problem. Energies, 2021, 14, 3313.	3.1	1
8	Forced convection heat transfer for the fully-developed laminar flow of the cross fluid between parallel plates. Journal of Non-Newtonian Fluid Mechanics, 2020, 276, 104226.	2.4	11
9	Collective viscosity model for shear thinning polymeric materials. Rheologica Acta, 2020, 59, 63-72.	2.4	10
10	Optimal Dummy Pattern Design Method for PWB Warpage Control Using the Human-Based Genetic Algorithm. Micromachines, 2020, 11, 807.	2.9	1
11	Flow characteristic during injection molding of PC/MWNT nanocomposites. Korea Australia Rheology Journal, 2020, 32, 261-269.	1.7	0
12	Flow and solidification of semi-crystalline polymer during micro-injection molding. International Journal of Heat and Mass Transfer, 2020, 153, 119576.	4.8	15
13	Flow rate based framework for solving viscoplastic flow with slip. Journal of Non-Newtonian Fluid Mechanics, 2019, 269, 37-46.	2.4	11
14	Numerical Simulation of Crystal Growth in Injection Molded Thermoplastics based on Monte Carlo Method with Shear Rate Tracking. International Journal of Precision Engineering and Manufacturing, 2019, 20, 641-650.	2.2	5
15	Effects of Mold Heat Transfer Coefficient on Numerical Simulation of Injection Molding. Transactions of the Korean Society of Mechanical Engineers, B, 2019, 43, 201-209.	0.1	8
16	Flow-rate based method for velocity of fully developed laminar flow in tubes. Journal of Rheology, 2018, 62, 1397-1407.	2.6	20
17	Flow instability of semicrystalline polymer melt during micro-injection molding. Journal of Micromechanics and Microengineering, 2014, 24, 085015.	2.6	3
18	Prameterized Gradient Integration Method for Inverse Heat Conduction Problems. Numerical Heat Transfer, Part B: Fundamentals, 2012, 61, 116-128.	0.9	6

#	Article	IF	Citations
19	Injection molding without prior drying process by the gas counter pressure. Polymer Engineering and Science, 2012, 52, 2417-2423.	3.1	9
20	Simulation of Warpage During Fabrication of Printed Circuit Boards. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2011, 1, 884-892.	2.5	13
21	Multi-scale filling simulation of micro-injection molding process. Journal of Mechanical Science and Technology, 2011, 25, 117-124.	1.5	39
22	Observation of instabilities in flow front during micro injection molding process. Polymer Engineering and Science, 2010, 50, 1377-1381.	3.1	13
23	Resolving the Final Time Singularity in Gradient Methods for Inverse Heat Conduction Problems. Numerical Heat Transfer, Part B: Fundamentals, 2010, 57, 74-88.	0.9	17
24	Penalty formulation for postfilling analysis during injection molding. International Journal for Numerical Methods in Fluids, 2008, 57, 139-155.	1.6	7
25	A SOLUTION METHOD FOR A NONLINEAR THREE-DIMENSIONAL INVERSE HEAT CONDUCTION PROBLEM USING THE SEQUENTIAL GRADIENT METHOD COMBINED WITH CUBIC-SPLINE FUNCTION SPECIFICATION. Numerical Heat Transfer, Part B: Fundamentals, 2003, 43, 43-61.	0.9	18
26	Inverse estimation of steady‐state surface temperature on a three‐dimensional body. International Journal of Numerical Methods for Heat and Fluid Flow, 2002, 12, 1032-1050.	2.8	7
27	An Experimental Study on the Thermoplastic Filament Winding Process using Commingled Yarns. Advanced Composites Letters, 2002, 11, 096369350201100.	1.3	7