Sun Kyoung Kim

List of Publications by Year
in descending order

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

#	Article	IF	Citations
1	Multi-scale filling simulation of micro-injection molding process. Journal of Mechanical Science and Technology, 2011, 25, 117-124.	1.5	39
2	Flow-rate based method for velocity of fully developed laminar flow in tubes. Journal of Rheology, 2018, 62, 1397-1407.	2.6	20
3	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
4	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
5	Non-Newtonian modeling of contact pressure in fused filament fabrication. Journal of Rheology, 2021, 65, 27-42.	2.6	16
6	Flow and solidification of semi-crystalline polymer during micro-injection molding. International Journal of Heat and Mass Transfer, 2020, 153, 119576.	4.8	15
7	Observation of instabilities in flow front during micro injection molding process. Polymer Engineering and Science, 2010, 50, 1377-1381.	3.1	13
8	Simulation of Warpage During Fabrication of Printed Circuit Boards. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2011, 1, 884-892.	2.5	13
9	Flow rate based framework for solving viscoplastic flow with slip. Journal of Non-Newtonian Fluid Mechanics, 2019, 269, 37-46.	2.4	11
10	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
11	Collective viscosity model for shear thinning polymeric materials. Rheologica Acta, 2020, 59, 63-72.	2.4	10
12	Injection molding without prior drying process by the gas counter pressure. Polymer Engineering and Science, 2012, 52, 2417-2423.	3.1	9
13	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
14	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
15	An Experimental Study on the Thermoplastic Filament Winding Process using Commingled Yarns. Advanced Composites Letters, 2002, 11, 096369350201100.	1.3	7
16	Penalty formulation for postfilling analysis during injection molding. International Journal for Numerical Methods in Fluids, 2008, 57, 139-155.	1.6	7
17	Prameterized Gradient Integration Method for Inverse Heat Conduction Problems. Numerical Heat Transfer, Part B: Fundamentals, 2012, 61, 116-128.	0.9	6
18	Darcy friction factor and Nusselt number in laminar tube flow of Carreau fluid. Rheologica Acta, 2022, 61, 243-255.	2.4	6

#	ARTICLE	IF	CITATIONS
19	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
20	Flow instability of semicrystalline polymer melt during micro-injection molding. Journal of Micromechanics and Microengineering, 2014, 24, 085015.	2.6	3
21	High-Throughput Synthesis of Liposome Using an Injection-Molded Plastic Micro-Fluidic Device. Micromachines, 2021, 12, 170.	2.9	3
22	Rapid Numerical Estimation of Pressure Drop in Hot Runner System. Micromachines, 2021, 12, 207.	2.9	2
23	Optimal Dummy Pattern Design Method for PWB Warpage Control Using the Human-Based Genetic Algorithm. Micromachines, 2020, 11, 807.	2.9	1
24	Influence of Errors in Known Constants and Boundary Conditions on Solutions of Inverse Heat Conduction Problem. Energies, 2021, 14, 3313.	3.1	1
25	Correlations for Convective Laminar Heat Transfer of Carreau Fluid in Straight Tube Flow. Energies, 2022, 15, 2368.	3.1	1
26	Flow characteristic during injection molding of PC/MWNT nanocomposites. Korea Australia Rheology Journal, 2020, 32, 261-269.	1.7	0
27	Non-isothermal non-Newtonian three-dimensional flow simulation of fused filament fabrication. Additive Manufacturing, 2022, , 102833.	3.0	0