

Keun Park

List of Publications by Year in descending order

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55
papers

707
citations

430874

18
h-index

610901

24
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56
all docs

56
docs citations

56
times ranked

397
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of experiment considering two-way interactions and its application to injection molding processes with numerical analysis. <i>Journal of Materials Processing Technology</i> , 2004, 146, 221-227.	6.3	53
2	Direct patterning of micro-features on a polymer substrate using ultrasonic vibration. <i>Microsystem Technologies</i> , 2012, 18, 2053-2061.	2.0	39
3	Adaptive Conformal Cooling of Injection Molds Using Additively Manufactured TPMS Structures. <i>Polymers</i> , 2022, 14, 181.	4.5	34
4	Eliminating weldlines of an injection-molded part with the aid of high-frequency induction heating. <i>Journal of Mechanical Science and Technology</i> , 2010, 24, 149-152.	1.5	31
5	Design optimization of ultrasonic horn for micro-pattern replication. <i>International Journal of Precision Engineering and Manufacturing</i> , 2012, 13, 2195-2201.	2.2	30
6	Design for additive manufacturing of customized cast with porous shell structures. <i>Journal of Mechanical Science and Technology</i> , 2017, 31, 5477-5483.	1.5	26
7	Automatic Design of 3D Conformal Lightweight Structures Based on a Tetrahedral Mesh. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2018, 5, 499-506.	4.9	25
8	Localized mold heating with the aid of selective induction for injection molding of high aspect ratio micro-features. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 035002.	2.6	24
9	A Study on Flow Simulation and Deformation Analysis for Injection-Molded Plastic Parts Using Three-Dimensional Solid Elements. <i>Polymer-Plastics Technology and Engineering</i> , 2005, 43, 1569-1585.	1.9	22
10	Investigation of localized heating characteristics in selective ultrasonic imprinting. <i>International Journal of Precision Engineering and Manufacturing</i> , 2015, 16, 1999-2004.	2.2	22
11	Compressive behavior of soft lattice structures and their application to functional compliance control. <i>Additive Manufacturing</i> , 2020, 33, 101148.	3.0	22
12	Development of composite micro-patterns on polymer film using repetitive ultrasonic imprinting. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2014, 1, 341-345.	4.9	21
13	Damage prediction in the multistep forging process of subminiature screws. <i>International Journal of Precision Engineering and Manufacturing</i> , 2012, 13, 1619-1624.	2.2	20
14	Facile fabrication of superhydrophobic poly(methyl methacrylate) substrates using ultrasonic imprinting. <i>Journal of Micromechanics and Microengineering</i> , 2013, 23, 055019.	2.6	20
15	Topology Optimization and Additive Manufacturing of Customized Sports Item Considering Orthotropic Anisotropy. <i>International Journal of Precision Engineering and Manufacturing</i> , 2019, 20, 1443-1450.	2.2	20
16	Design and additive manufacturing of thermal metamaterial with high thermal resistance and cooling capability. <i>Additive Manufacturing</i> , 2021, 41, 101947.	3.0	20
17	Fully-Coupled Numerical Analysis of High-Frequency Induction Heating for Thin-Wall Injection Molding. <i>Polymer-Plastics Technology and Engineering</i> , 2009, 48, 1070-1077.	1.9	19
18	Topology Optimization and Additive Manufacturing of Automotive Component by Coupling Kinetic and Structural Analyses. <i>International Journal of Automotive Technology</i> , 2020, 21, 1455-1463.	1.4	19

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19	Selective ultrasonic imprinting for micropattern replication on predefined area. <i>Ultrasonics</i> , 2014, 54, 1495-1503.	3.9	17
20	Coupled numerical analysis to investigate the heating mechanism of ultrasonic imprint lithography. <i>Ultrasonics</i> , 2015, 60, 96-102.	3.9	17
21	Conformal Mold Heating and Cooling Using a Carbon Nanotube Film Heater and Additively Manufactured Cellular Metamaterial. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2022, 9, 1463-1476.	4.9	17
22	Effect of Mold Temperature on Mechanical Properties of an Injection-Molded Part with Microfeatures. <i>Journal of Polymer Engineering</i> , 2009, 29, .	1.4	15
23	Multiscale Topology Optimization Combining Density-Based Optimization and Lattice Enhancement for Additive Manufacturing. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2021, 8, 1197-1208.	4.9	15
24	Variable wettability control of a polymer surface by selective ultrasonic imprinting and hydrophobic coating. <i>Colloid and Polymer Science</i> , 2016, 294, 1413-1423.	2.1	14
25	Design and analysis of ultrasonic horn for polymer sheet forming. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2016, 3, 49-54.	4.9	14
26	Integrated numerical analysis to evaluate replication characteristics of micro channels in a locally heated mold by selective induction. <i>International Journal of Precision Engineering and Manufacturing</i> , 2011, 12, 53-60.	2.2	13
27	Finite element analysis for the lamination process of a precision motor core using progressive stacking dies. <i>Journal of Materials Processing Technology</i> , 2002, 130-131, 477-481.	6.3	11
28	Numerical Evaluation of a Plastic Lens by Coupling Injection Molding Analysis with Optical Simulation. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 8402-8407.	1.5	11
29	Evaluation of Clamping Characteristics for Subminiature Screws According to Thread Angle Variation. <i>Journal of the Korean Society for Precision Engineering</i> , 2014, 31, 839-846.	0.2	9
30	Ultrasonic thermoforming of a large thermoplastic polyurethane film with the aid of infrared heating. <i>Journal of Mechanical Science and Technology</i> , 2017, 31, 5687-5693.	1.5	7
31	Numerical investigation on vibration characteristics of a micro-speaker diaphragm considering thermoforming effects. <i>Journal of Mechanical Science and Technology</i> , 2013, 27, 2923-2928.	1.5	6
32	Development of Hybrid Surfaces with Tunable Wettability by Selective Surface Modifications. <i>Materials</i> , 2016, 9, 136.	2.9	6
33	Ultrasonic assisted thermoforming for rapid fabrication of a microspeaker diaphragm. <i>Microsystem Technologies</i> , 2017, 23, 1677-1686.	2.0	6
34	Mechanical reinforcement of additive-manufactured constructs using in situ auxiliary heating process. <i>Additive Manufacturing</i> , 2021, 43, 101995.	3.0	6
35	Effect of vibration transmission direction in ultrasonic thermoforming on the formability of micro-corrugations. <i>International Journal of Precision Engineering and Manufacturing</i> , 2017, 18, 697-703.	2.2	5
36	Investigation on Vibration Characteristics of Micro Speaker Diaphragms for Various Shape Designs. <i>Journal of the Korean Society for Precision Engineering</i> , 2013, 30, 790-796.	0.2	5

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37	Finite Element Analysis for Improvement of Folding Defects in the Forging Process of Subminiature Screws. Journal of the Korean Society for Precision Engineering, 2015, 32, 509-515.	0.2	5
38	An investigation into the anti-releasing performance of a serrated bolt. Journal of Mechanical Science and Technology, 2015, 29, 5127-5132.	1.5	4
39	Prediction of Joining Torque for Bit Depth of Subminiature Bolt. Transactions of the Korean Society of Mechanical Engineers, A, 2014, 38, 917-923.	0.2	4
40	Three-Dimensional Finite Element Analysis of the Induction Heating Procedure of an Injection Mold. Transactions of Materials Processing, 2010, 19, 152-159.	0.1	4
41	Investigation into Heat Transfer Characteristics of an Injection Mold by Considering Thermal Contact Resistance. Transactions of Materials Processing, 2011, 20, 29-35.	0.1	4
42	High-frequency induction heating for increase of flow length in polymer/metal hybrid molding. Journal of Mechanical Science and Technology, 2019, 33, 5375-5382.	1.5	3
43	Energy-efficient micromolding and in-mold compounding using ultrasonic vibration energy with enhanced material flow. Microsystem Technologies, 2020, 26, 1021-1030.	2.0	3
44	Thread Shape Design Using Joining and Release Analysis of Bolts. Journal of the Korean Society for Precision Engineering, 2015, 32, 523-528.	0.2	3
45	Lightweight Design of a Sledge Frame for Para Ice Hockey Using Design for Additive Manufacturing. Journal of the Korean Society for Precision Engineering, 2020, 37, 407-414.	0.2	3
46	Fully coupled numerical analysis of high frequency induction heating and warm sheet metal forming. Steel Research International, 2015, 86, 877-885.	1.8	2
47	Investigation into Thread Rolling Characteristics of Subminiature Screws According to Thread Shapes. Transactions of the Korean Society of Mechanical Engineers, A, 2016, 40, 971-978.	0.2	2
48	Study on Improvement of Dimensional Accuracy of a Precision Plastic Screw Under Various Injection-Molding Conditions. Transactions of the Korean Society of Mechanical Engineers, A, 2010, 34, 1549-1554.	0.2	2
49	Thermal-Fluid Coupled Analysis for Injection Molding Process by Considering Thermal Contact Resistance. Transactions of the Korean Society of Mechanical Engineers, A, 2011, 35, 1627-1633.	0.2	2
50	Development of Micropatterns on Curved Surfaces Using Two-Step Ultrasonic Forming. Micromachines, 2019, 10, 654.	2.9	1
51	Lightweight Design of a Vacuum Gripper for Inspection Equipment Using Topology Optimization. Journal of the Korean Society for Precision Engineering, 2021, 38, 683-690.	0.2	1
52	Design and Analysis of Shell Runners to Improve Cooling Efficiency in Injection Molding of Subminiature Lens. Transactions of the Korean Society of Mechanical Engineers, A, 2015, 39, 1021-1028.	0.2	1
53	An Investigation of Thread Rolling Characteristics of Titanium Micro-Screws according to Die Design Parameters. Journal of the Korean Society for Precision Engineering, 2017, 34, 89-94.	0.2	1
54	A Study on the Heat Transfer Characteristics of a Glass Lens Mold Heating Block according to Design of a Heat Radiating Block. Journal of the Korean Society for Precision Engineering, 2022, 39, 493-500.	0.2	1

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55	Infrared Heating for Rapid and Localized Shape Transformations of Additively Manufactured Polymer Parts. <i>Frontiers in Materials</i> , 2022, 9, .	2.4	0