

Woo Il Lee

List of Publications by Year in descending order

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85
papers

2,666
citations

186265
28
h-index

197818
49
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86
all docs

86
docs citations

86
times ranked

1617
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced ablative resistance of epoxy composites at low loadings of boron nitride nanotubes by the formation of near-graphitic structures. <i>Advanced Composite Materials</i> , 2020, 29, 205-216.	1.9	6
2	Effect of ammonium polyphosphate and acrylic acid on <scp>NaCl</scp> treated electrospun <scp>PLA</scp> microfiber mat. <i>Polymer Engineering and Science</i> , 2020, 60, 2448-2458.	3.1	2
3	Effect of Temperature on the Mechanical Properties and Polymerization Kinetics of Polyamide-6 Composites. <i>Polymers</i> , 2020, 12, 1133.	4.5	13
4	Assessment of Long Fiber Spray-up Molding of Chopped Glass Fiber Reinforced Polydicyclopentadiene Composites. <i>Fibers and Polymers</i> , 2020, 21, 1134-1141.	2.1	5
5	Analysis of the Binding of Analyte-Receptor in a Micro-Fluidic Channel for a Biosensor Based on Brownian Motion. <i>Micromachines</i> , 2020, 11, 570.	2.9	3
6	Electrospun nanofiber composites with micro-/nano-particles for thermal insulation. <i>Advanced Composite Materials</i> , 2019, 28, 193-202.	1.9	9
7	Analysis of Cryogenic Impact Properties for a Glass-Fiber-Reinforced Dicyclopentadiene with a Different Amount of Decelerator Solution. <i>Materials</i> , 2019, 12, 3246.	2.9	5
8	Analysis of curing behavior of endo-dicyclopentadiene using different amounts of decelerator solution. <i>Composites Part B: Engineering</i> , 2019, 161, 439-454.	12.0	14
9	Improvement of ablation resistance of epoxy composites reinforced with low concentrations of multi walled carbon nanotubes. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 124, 105471.	7.6	21
10	Simulation of Multi-cavity Micro-injection System for Reducing Cavity Filling Deviation. <i>Fibers and Polymers</i> , 2019, 20, 375-383.	2.1	0
11	Preference for Case Materials in Smart Devices: A Comparative Study in Korea, USA, and Tanzania. <i>International Journal of Precision Engineering and Manufacturing</i> , 2019, 20, 749-767.	2.2	3
12	Analysis of thermal properties and heat transfer mechanisms for polyurethane foams blown with water. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 132, 1253-1262.	3.6	22
13	Characteristics of micro-glass bead/PLA porous composite prepared by electrospinning. <i>Advanced Composite Materials</i> , 2018, 27, 183-193.	1.9	10
14	Analysis of coalescence behavior for compressed droplets. <i>Applied Surface Science</i> , 2017, 397, 57-69.	6.1	9
15	Mechanical properties of norbornene-based silane treated glass fiber reinforced polydicyclopentadiene composites manufactured by the S-RIM process. <i>E-Polymers</i> , 2017, 17, 159-166.	3.0	13
16	Minimal contact formation between hollow glass microparticles toward low-density and thermally insulating composite materials. <i>Journal of Materials Science</i> , 2017, 52, 6726-6740.	3.7	9
17	Microstructure and property characterization of flexible syntactic foam for insulation material via mold casting. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2017, 4, 169-176.	4.9	8
18	Numerical analysis of convective flow and thermal stratification in a cryogenic storage tank. <i>Numerical Heat Transfer; Part A: Applications</i> , 2017, 71, 402-422.	2.1	35

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19	Passive vibration damping of carbon fiber reinforced plastic with PZT particles and SMA powder. , 2016, , .		0
20	Effect of radius of gyration on polymer deformation for thermal nanoimprint lithography. Macromolecular Research, 2016, 24, 847-850.	2.4	0
21	Particle filtration and distribution during the liquid composite molding process for manufacturing particles containing composite materials. Composites Part A: Applied Science and Manufacturing, 2016, 90, 330-339.	7.6	7
22	Effect of a pressurized cavity on the replication of micro-patterns with injection molding. E-Polymers, 2016, 16, 373-378.	3.0	3
23	Analysis of leaked LNG flow and consequent thermal effect for safety in LNG cargo containment system. Ocean Engineering, 2016, 113, 276-294.	4.3	9
24	Analysis of flow characteristics of cryogenic liquid in porous media. International Journal of Heat and Mass Transfer, 2015, 87, 161-183.	4.8	9
25	Improvement of ablation resistance of phenolic composites reinforced with low concentrations of carbon nanotubes. Composites Science and Technology, 2015, 121, 16-24.	7.8	68
26	Isotropic conductivities in chopped carbon fiber composites using expanded polypropylene. Advanced Composite Materials, 2014, 23, 409-420.	1.9	3
27	Analysis of buckling load of glass fiber/epoxy-reinforced plywood and its temperature dependence. Journal of Composite Materials, 2014, 48, 2191-2206.	2.4	11
28	Assessment of particle distribution in particle-containing composite materials using an electron probe microanalyzer. Composites Science and Technology, 2013, 82, 38-46.	7.8	12
29	Molecular Dynamic Simulation on the Effect of Polymer Molecular Size in Thermal Nanoimprint Lithographic (T-NIL) Process. Tribology Letters, 2013, 49, 421-430.	2.6	16
30	Electrical and mechanical properties of graphite/maleic anhydride grafted polypropylene nanocomposites. Composites Part B: Engineering, 2013, 45, 1548-1553.	12.0	22
31	Analysis of two main LNG CCS (cargo containment system) insulation boxes for leakage safety using experimentally defined thermal properties. Applied Ocean Research, 2012, 37, 72-89.	4.1	36
32	Modeling and simulation of voids and saturation in liquid composite molding processes. Composites Part A: Applied Science and Manufacturing, 2011, 42, 658-668.	7.6	154
33	Effects of PZT particle-enhanced ply interfaces on the vibration damping behavior of CFRP composites. Composites Part A: Applied Science and Manufacturing, 2011, 42, 1477-1482.	7.6	19
34	Optimisation of location and dimension of SMC precharge in compression moulding process. Computers and Structures, 2011, 89, 1523-1534.	4.4	13
35	Measurement of pull-off force on imprinted nanopatterns in an inert liquid. Nanotechnology, 2010, 21, 295306.	2.6	5
36	Molecular Dynamic Studies on Deformation of Polymer Resist During Thermal Nano Imprint Lithographic Process. Tribology Letters, 2009, 36, 209-222.	2.6	16

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37	An integrated optimisation for the weight, the structural performance and the cost of composite structures. Composites Science and Technology, 2009, 69, 1101-1107.	7.8	22
38	Thickness optimization of composite plates by Box's complex method considering the process and material parameters in compression molding of SMC. Composites Part A: Applied Science and Manufacturing, 2009, 40, 1192-1198.	7.6	16
39	Penalty formulation for postfilling analysis during injection molding. International Journal for Numerical Methods in Fluids, 2008, 57, 139-155.	1.6	7
40	Analysis of pulling force during pultrusion process of phenolic foam composites. Composites Science and Technology, 2008, 68, 140-146.	7.8	18
41	Improved genetic algorithm for multidisciplinary optimization of composite laminates. Computers and Structures, 2008, 86, 1894-1903.	4.4	49
42	Density variation of nanoscale patterns in thermal nanoimprint lithography. Applied Physics Letters, 2007, 91, 253111.	3.3	11
43	An inverse estimation of surface temperature using the maximum entropy method. International Communications in Heat and Mass Transfer, 2007, 34, 37-44.	5.6	13
44	Finite element analysis for wavelike flow marks in injection molding. Polymer Engineering and Science, 2007, 47, 922-933.	3.1	10
45	An Effective Calculation Method for Radiative Exchange in an Enclosure with Specular Surfaces. Numerical Heat Transfer; Part A: Applications, 2006, 50, 865-881.	2.1	3
46	Smart cure of thick composite filament wound structures to minimize the development of residual stresses. Composites Part A: Applied Science and Manufacturing, 2006, 37, 530-537.	7.6	16
47	Analysis and minimization of void formation during resin transfer molding process. Composites Science and Technology, 2006, 66, 3281-3289.	7.8	84
48	Evolution of transient meniscus in a wettable microchannel for Newtonian fluid. Journal of Micromechanics and Microengineering, 2006, 16, 2692-2696.	2.6	6
49	Optimal Adjustment of Composite-Material Club Shaft Characteristics. , 2006, , 329-334.		0
50	Multiconstraint Optimization of Composite Structures Manufactured by Resin Transfer Molding Process. Journal of Composite Materials, 2005, 39, 347-374.	2.4	22
51	Finite element analysis of flow and heat transfer with moving free surface using fixed grid system. International Journal of Computational Fluid Dynamics, 2005, 19, 263-276.	1.2	12
52	Inverse Estimation of Surface Temperature in Nanoscale Using the Artificial Neural Network. , 2005, , 403.		0
53	Simultaneous optimization of composite structures considering mechanical performance and manufacturing cost. Composite Structures, 2004, 65, 117-127.	5.8	44
54	A dual-scale analysis of macroscopic resin flow in vacuum assisted resin transfer molding. Polymer Composites, 2004, 25, 510-520.	4.6	10

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55	IMPLEMENTATION OF INVERSE METHOD FOR ESTIMATING UNDETERMINED BOUNDARY IN A TWO-DIMENSIONAL SLAB BASED ON TEMPERATURE MEASUREMENT. Numerical Heat Transfer; Part A: Applications, 2004, 46, 515-523.	2.1	9
56	A new VOF-based numerical scheme for the simulation of fluid flow with free surface. Part I: New free surface-tracking algorithm and its verification. International Journal for Numerical Methods in Fluids, 2003, 42, 765-790.	1.6	74
57	A new VOF-based numerical scheme for the simulation of fluid flow with free surface. Part II: application to the cavity filling and sloshing problems. International Journal for Numerical Methods in Fluids, 2003, 42, 791-812.	1.6	45
58	Weight minimization of composite laminated plates with multiple constraints. Composites Science and Technology, 2003, 63, 1015-1026.	7.8	33
59	Inverse estimation of thermophysical properties for anisotropic composite. Experimental Thermal and Fluid Science, 2003, 27, 697-704.	2.7	56
60	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
61	Characterization of boundary conditions during thermoplastic composite tape lay-up process using an inverse method. Modelling and Simulation in Materials Science and Engineering, 2003, 11, 417-426.	2.0	8
62	A Maximum Entropy Solution for a Two-Dimensional Inverse Heat Conduction Problem. Journal of Heat Transfer, 2003, 125, 1197-1205.	2.1	4
63	An Experimental Study on the Thermoplastic Filament Winding Process using Commingled Yarns. Advanced Composites Letters, 2002, 11, 096369350201100.	1.3	7
64	Solving a nonlinear inverse convection problem using the sequential gradient method. Journal of Mechanical Science and Technology, 2002, 16, 710-719.	0.4	6
65	A semi-implicit method for the analysis of two-dimensional fluid flow with moving free surfaces. Journal of Mechanical Science and Technology, 2002, 16, 720-731.	0.4	4
66	Modeling of mechanical property degradation by short-term aging at high temperatures. Composites Part B: Engineering, 2002, 33, 531-543.	12.0	27
67	Solution of inverse heat conduction problems using maximum entropy method. International Journal of Heat and Mass Transfer, 2002, 45, 381-391.	4.8	40
68	A model for a thermoplastic pultrusion process using commingled yarns. Composites Science and Technology, 2001, 61, 1065-1077.	7.8	58
69	Finite element analysis of incompressible viscous flow with moving free surface by selective volume of fluid method. International Journal of Heat and Fluid Flow, 2000, 21, 197-206.	2.4	38
70	An analysis of the three-dimensional resin-transfer mold filling process. Composites Science and Technology, 2000, 60, 961-975.	7.8	87
71	Analysis of resin transfer moulding process with controlled multiple gates resin injection. Composites Part A: Applied Science and Manufacturing, 2000, 31, 407-422.	7.6	48
72	A Model for Thermosetting Composite Pultrusion Process. Journal of Composite Materials, 1997, 31, 2105-2122.	2.4	22

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73	A study on heat transfer during thermoplastic composite tape lay-up process. <i>Experimental Thermal and Fluid Science</i> , 1996, 13, 408-418.	2.7	39
74	Numerical simulation of the resin transfer mold filling process using the boundary element method. <i>Polymer Composites</i> , 1996, 17, 368-374.	4.6	57
75	Model for Determining the Vent Locations and the Fill Time of Resin Transfer Molds. <i>Journal of Composite Materials</i> , 1995, 29, 306-333.	2.4	44
76	Measurement of the Three-Dimensional Permeability of Fiber Preforms Using Embedded Fiber Optic Sensors. <i>Journal of Composite Materials</i> , 1995, 29, 714-733.	2.4	102
77	A study on the mold filling process in resin transfer molding. <i>Polymer Engineering and Science</i> , 1991, 31, 765-771.	3.1	80
78	An Expert System for Autoclave Curing of Composites. <i>Journal of Composite Materials</i> , 1991, 25, 1542-1587.	2.4	44
79	A Model of the Resin Impregnation in Thermoplastic Composites. <i>Journal of Composite Materials</i> , 1991, 25, 1127-1142.	2.4	40
80	Pultrusion of Thermoplastics—A Model. <i>Journal of Composite Materials</i> , 1991, 25, 1632-1652.	2.4	31
81	A Model of the Manufacturing Process of Thermoplastic Matrix Composites. <i>Journal of Composite Materials</i> , 1987, 21, 1017-1055.	2.4	250
82	Interaction of Electromagnetic Radiation with Organic Matrix Composites. <i>Journal of Composite Materials</i> , 1984, 18, 357-386.	2.4	54
83	Microwave Curing of Composites. <i>Journal of Composite Materials</i> , 1984, 18, 387-409.	2.4	92
84	Heat of Reaction, Degree of Cure, and Viscosity of Hercules 3501-6 Resin. <i>Journal of Composite Materials</i> , 1982, 16, 510-520.	2.4	313
85	Study on the monitoring of resin flow and curing in the vacuum assisted resin transfer molding process using a long-period fiber bragg grating. , 0, , .		0