

Ji-Hoon Kim

List of Publications by Year in descending order

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63
papers

4,537
citations

331670

21
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128289

60
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65
docs citations

65
times ranked

6318
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterisation of Compressive Behaviour of Low-Carbon and Third Generation Advanced High Strength Steel Sheets with Freely Movable Anti-buckling Bars. <i>Metals</i> , 2022, 12, 161.	2.3	1
2	Neural Network-Based Multi-Objective Optimization of Adjustable Drawbead Movement for Deep Drawing of Tailor-Welded Blanks. <i>Materials</i> , 2022, 15, 1430.	2.9	7
3	A multi-objective optimization using response surface model coupled with particle swarm algorithm on FSW process parameters. <i>Scientific Reports</i> , 2022, 12, 2837.	3.3	15
4	Analysis of Microstructure Evolution and Mechanical Properties during Compression of Open-Cell Ni-Foams with Hollow Struts Using Micro-CT and FEM. <i>Materials</i> , 2022, 15, 124.	2.9	3
5	Upper bound analysis of friction stir spot welding of 6061-T6 aluminum alloys. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 120, 8311-8320.	3.0	4
6	Modeling the Stress-Strain Curves and Dynamic Recrystallization of Nickel-Based A230 Alloy During Hot Deformation. <i>Metals and Materials International</i> , 2022, 28, 3016-3032.	3.4	8
7	Cure cycle modification for efficient vacuum bag only prepreg process. <i>Journal of Composite Materials</i> , 2021, 55, 1039-1051.	2.4	7
8	Probing the Mechanism of Friction Stir Welding with ALE Based Finite Element Simulations and Its Application to Strength Prediction of Welded Aluminum. <i>Metals and Materials International</i> , 2021, 27, 650-666.	3.4	14
9	Advanced disk-forging process in producing heavy defect-free disk using counteracting dies. <i>International Journal of Material Forming</i> , 2021, 14, 281-291.	2.0	4
10	Tissue-like skin-device interface for wearable bioelectronics by using ultrasoft, mass-permeable, and low-impedance hydrogels. <i>Science Advances</i> , 2021, 7, .	10.3	144
11	Induction System with Deformation Control Unit for Local Softening of Hot-Stamped Parts. <i>International Journal of Automotive Technology</i> , 2021, 22, 621-629.	1.4	0
12	Highly conductive and elastic nanomembrane for skin electronics. <i>Science</i> , 2021, 373, 1022-1026.	12.6	186
13	Die Design for Extrusion Process of Titanium Seamless Tube Using Finite Element Analysis. <i>Metals</i> , 2021, 11, 1338.	2.3	4
14	Three-dimensional foldable quantum dot light-emitting diodes. <i>Nature Electronics</i> , 2021, 4, 671-680.	26.0	43
15	Crash Analysis of Aluminum/CFRP Hybrid Adhesive Joint Parts Using Adhesive Modeling Technique Based on the Fracture Mechanics. <i>Polymers</i> , 2021, 13, 3364.	4.5	4
16	Superhydrophobic Polymer Surface with Hierarchical Patterns Fabricated in Hot Imprinting Process. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2020, 7, 493-503.	4.9	21
17	Prediction of Tempcore Rebar Strength Using a Thermomechanical Simulator with a Designed Hollow Specimen. <i>Steel Research International</i> , 2020, 91, 1900520.	1.8	5
18	Cellular automata modeling of the kinetics of static recrystallization during the post-hydroforming annealing of steel tube. <i>Journal of Materials Science</i> , 2020, 55, 7938-7957.	3.7	8

#	ARTICLE	IF	CITATIONS
19	Measurement of Weld Zone Properties of Laser-Welded Tailor-Welded Blanks and Its Application to Deep Drawing. <i>International Journal of Automotive Technology</i> , 2020, 21, 615-622.	1.4	9
20	Manufacture of Tungsten Heavy Alloy Tube by Diffusion Bonding of Semicircular Tubes. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 699-711.	2.5	1
21	Characteristic evaluation of electromagnetic forming system and its application to deformation prediction in bulge forming. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 107, 775-789.	3.0	5
22	Piezoresistive Behaviour of Additively Manufactured Multi-Walled Carbon Nanotube/Thermoplastic Polyurethane Nanocomposites. <i>Materials</i> , 2019, 12, 2613.	2.9	27
23	Characterization of the Mechanical Properties of a High-Strength Laminated Vibration Damping Steel Sheet and Their Application to Formability Prediction. <i>Metals and Materials International</i> , 2019, 25, 1326-1340.	3.4	10
24	MoS ₂ Liquid Cell Electron Microscopy Through Clean and Fast Polymer-Free MoS ₂ Transfer. <i>Nano Letters</i> , 2019, 19, 1788-1795.	9.1	45
25	Forced Circulation of Nitrogen Gas for Accelerated and Eco-Friendly Cooling of Metallic Parts. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3679.	2.5	3
26	Constitutive Modeling of Asymmetric Hardening Behavior of Transformation-Induced Plasticity Steels. <i>International Journal of Automotive Technology</i> , 2019, 20, 19-30.	1.4	10
27	Lubricant-Added Conductive Composite for Direct Writing of a Stretchable Electrode. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 48459-48465.	8.0	15
28	Stretchable conductive nanocomposite based on alginate hydrogel and silver nanowires for wearable electronics. <i>APL Materials</i> , 2019, 7, .	5.1	97
29	Effect of Constitutive Equations on Springback Prediction Accuracy in the TRIP1180 Cold Stamping. <i>Metals</i> , 2018, 8, 18.	2.3	16
30	Wearable Force Touch Sensor Array Using a Flexible and Transparent Electrode. <i>Advanced Functional Materials</i> , 2017, 27, 1605286.	14.9	151
31	Stretchable Electrode Based on Laterally Combed Carbon Nanotubes for Wearable Energy Harvesting and Storage Devices. <i>Advanced Functional Materials</i> , 2017, 27, 1704353.	14.9	110
32	Anisotropic Hardening Behaviour and Springback of Advanced High-Strength Steels. <i>Metals</i> , 2017, 7, 480.	2.3	24
33	Colloidal Synthesis of Uniform-Sized Molybdenum Disulfide Nanosheets for Wafer-Scale Flexible Nonvolatile Memory. <i>Advanced Materials</i> , 2016, 28, 9326-9332.	21.0	151
34	Multiscale Analysis of Open-Cell Aluminum Foam for Impact Energy Absorption. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 3977-3984.	2.5	8
35	A wearable multiplexed silicon nonvolatile memory array using nanocrystal charge confinement. <i>Science Advances</i> , 2016, 2, e1501101.	10.3	139
36	Skin Electronics: Oxide Nanomembrane Hybrids with Enhanced Mechano- and Thermo-Sensitivity for Semitransparent Epidermal Electronics (<i>Adv. Healthcare Mater.</i> 7/2015). <i>Advanced Healthcare Materials</i> , 2015, 4, 991-991.	7.6	4

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37	Special issue on Hydroforming for Automotive Applications. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2015, 229, 571-571.	2.4	0
38	Thermally Controlled, Patterned Graphene Transfer Printing for Transparent and Wearable Electronic/Optoelectronic System. Advanced Functional Materials, 2015, 25, 7109-7118.	14.9	155
39	Oxide Nanomembrane Hybrids with Enhanced Mechano- and Thermo- Sensitivity for Semitransparent Epidermal Electronics. Advanced Healthcare Materials, 2015, 4, 992-997.	7.6	49
40	Stretchable Heater Using Ligand-Exchanged Silver Nanowire Nanocomposite for Wearable Articular Thermotherapy. ACS Nano, 2015, 9, 6626-6633.	14.6	462
41	Experimental and numerical analysis of a rectangular helical coil actuator for electromagnetic bulging. International Journal of Advanced Manufacturing Technology, 2015, 78, 825-839.	3.0	20
42	Wearable Electronics: Transparent and Stretchable Interactive Human Machine Interface Based on Patterned Graphene Heterostructures (Adv. Funct. Mater. 3/2015). Advanced Functional Materials, 2015, 25, 374-374.	14.9	13
43	Stretchable Carbon Nanotube Charge-Trap Floating-Gate Memory and Logic Devices for Wearable Electronics. ACS Nano, 2015, 9, 5585-5593.	14.6	124
44	Wearable red- "green" blue quantum dot light-emitting diode array using high-resolution intaglio transfer printing. Nature Communications, 2015, 6, 7149.	12.8	536
45	Transparent and Stretchable Interactive Human Machine Interface Based on Patterned Graphene Heterostructures. Advanced Functional Materials, 2015, 25, 375-383.	14.9	496
46	Recent developments in hydroforming technology. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2015, 229, 572-596.	2.4	32
47	Experimental study on forming behavior of high-strength steel sheets under electromagnetic pressure. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2015, 229, 670-681.	2.4	6
48	Mechanical Behavior of AZ31B Mg Alloy Sheets under Monotonic and Cyclic Loadings at Room and Moderately Elevated Temperatures. Materials, 2014, 7, 1271-1295.	2.9	65
49	Meso- Scopic Analysis of Strain Path Change Effect on the Hardening Behavior of Dual- Phase Steel. Steel Research International, 2014, 85, 1047-1057.	1.8	11
50	Stretchable silicon nanoribbon electronics for skin prosthesis. Nature Communications, 2014, 5, 5747.	12.8	1,145
51	Numerical simulation of friction stir welding process. International Journal of Material Forming, 2009, 2, 383-386.	2.0	7
52	Formability of advanced high strength steels. International Journal of Material Forming, 2009, 2, 359-362.	2.0	37
53	Thermo-mechanical and microstructural modeling of friction stir welding of 6111-T4 aluminum alloys. Metals and Materials International, 2009, 15, 125-132.	3.4	16
54	Reverse effect of tensile force on sidewall curl for materials with tensile/compressive strength difference. Metals and Materials International, 2009, 15, 353-363.	3.4	7

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55	Development of nonlinear constitutive laws for anisotropic and asymmetric fiber reinforced composites. <i>Polymer Composites</i> , 2008, 29, 216-228.	4.6	12
56	Determination of Wrinkling Criteria for an Incompressible Polymer Membrane by Non-Linear Elastic Finite Element Method. <i>Polymers and Polymer Composites</i> , 2008, 16, 225-232.	1.9	0
57	Micromechanical modeling of fiber reinforced composites based on elastoplasticity and its application for 3D braided glass/Kevlar composites. <i>Polymer Composites</i> , 2007, 28, 722-732.	4.6	10
58	Residual stress analysis with improved numerical methods for tempered plate glasses based on structural relaxation model. <i>Metals and Materials International</i> , 2007, 13, 67-75.	3.4	12
59	Application of Taguchi method to robust design of acoustic performance in IMT-2000 mobile phones. <i>IEEE Transactions on Magnetics</i> , 2005, 41, 1900-1903.	2.1	8
60	Reduction of Harmonic Distortion in Dual Magnet Type Microspeaker. <i>IEEE Transactions on Magnetics</i> , 2004, 40, 3054-3056.	2.1	4
61	New development of integrated microspeaker and dynamic receiver used for cellular phones. <i>IEEE Transactions on Magnetics</i> , 2003, 39, 3259-3261.	2.1	2
62	New development of integrated micro-speaker and dynamic receiver used for cellular phone. , 0, , .		0
63	Effect of process parameters on formability in two-point incremental forming-machining of planar and twisted AA5083 blades. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 0, , 095440542110697.	2.4	1