

# Ji-Hoon Kim

## List of Publications by Year in descending order

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Version: 2024-02-01

63  
papers

4,537  
citations

331670

21  
h-index

128289

60  
g-index

65  
all docs

65  
docs citations

65  
times ranked

6318  
citing authors

#	ARTICLE	IF	CITATIONS
1	Stretchable silicon nanoribbon electronics for skin prosthesis. <i>Nature Communications</i> , 2014, 5, 5747.	12.8	1,145
2	Wearable red-green-blue quantum dot light-emitting diode array using high-resolution intaglio transfer printing. <i>Nature Communications</i> , 2015, 6, 7149.	12.8	536
3	Transparent and Stretchable Interactive Human Machine Interface Based on Patterned Graphene Heterostructures. <i>Advanced Functional Materials</i> , 2015, 25, 375-383.	14.9	496
4	Stretchable Heater Using Ligand-Exchanged Silver Nanowire Nanocomposite for Wearable Articular Thermotherapy. <i>ACS Nano</i> , 2015, 9, 6626-6633.	14.6	462
5	Highly conductive and elastic nanomembrane for skin electronics. <i>Science</i> , 2021, 373, 1022-1026.	12.6	186
6	Thermally Controlled, Patterned Graphene Transfer Printing for Transparent and Wearable Electronic/Optoelectronic System. <i>Advanced Functional Materials</i> , 2015, 25, 7109-7118.	14.9	155
7	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
8	Wearable Force Touch Sensor Array Using a Flexible and Transparent Electrode. <i>Advanced Functional Materials</i> , 2017, 27, 1605286.	14.9	151
9	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
10	A wearable multiplexed silicon nonvolatile memory array using nanocrystal charge confinement. <i>Science Advances</i> , 2016, 2, e1501101.	10.3	139
11	Stretchable Carbon Nanotube Charge-Trap Floating-Gate Memory and Logic Devices for Wearable Electronics. <i>ACS Nano</i> , 2015, 9, 5585-5593.	14.6	124
12	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
13	Stretchable conductive nanocomposite based on alginate hydrogel and silver nanowires for wearable electronics. <i>APL Materials</i> , 2019, 7, .	5.1	97
14	Mechanical Behavior of AZ31B Mg Alloy Sheets under Monotonic and Cyclic Loadings at Room and Moderately Elevated Temperatures. <i>Materials</i> , 2014, 7, 1271-1295.	2.9	65
15	Oxide Nanomembrane Hybrids with Enhanced Mechano- and Thermo-Sensitivity for Semitransparent Epidermal Electronics. <i>Advanced Healthcare Materials</i> , 2015, 4, 992-997.	7.6	49
16	MoS <sub>2</sub> Liquid Cell Electron Microscopy Through Clean and Fast Polymer-Free MoS <sub>2</sub> Transfer. <i>Nano Letters</i> , 2019, 19, 1788-1795.	9.1	45
17	Three-dimensional foldable quantum dot light-emitting diodes. <i>Nature Electronics</i> , 2021, 4, 671-680.	26.0	43
18	Formability of advanced high strength steels. <i>International Journal of Material Forming</i> , 2009, 2, 359-362.	2.0	37

#	ARTICLE	IF	CITATIONS
19	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
20	Piezoresistive Behaviour of Additively Manufactured Multi-Walled Carbon Nanotube/Thermoplastic Polyurethane Nanocomposites. Materials, 2019, 12, 2613.	2.9	27
21	Anisotropic Hardening Behaviour and Springback of Advanced High-Strength Steels. Metals, 2017, 7, 480.	2.3	24
22	Superhydrophobic Polymer Surface with Hierarchical Patterns Fabricated in Hot Imprinting Process. International Journal of Precision Engineering and Manufacturing - Green Technology, 2020, 7, 493-503.	4.9	21
23	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
24	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
25	Effect of Constitutive Equations on Springback Prediction Accuracy in the TRIP1180 Cold Stamping. Metals, 2018, 8, 18.	2.3	16
26	Lubricant-Added Conductive Composite for Direct Writing of a Stretchable Electrode. ACS Applied Materials & Interfaces, 2019, 11, 48459-48465.	8.0	15
27	A multi-objective optimization using response surface model coupled with particle swarm algorithm on FSW process parameters. Scientific Reports, 2022, 12, 2837.	3.3	15
28	Probing the Mechanism of Friction Stir Welding with ALE Based Finite Element Simulations and Its Application to Strength Prediction of Welded Aluminum. Metals and Materials International, 2021, 27, 650-666.	3.4	14
29	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
30	Residual stress analysis with improved numerical methods for tempered plate glasses based on structural relaxation model. Metals and Materials International, 2007, 13, 67-75.	3.4	12
31	Development of nonlinear constitutive laws for anisotropic and asymmetric fiber reinforced composites. Polymer Composites, 2008, 29, 216-228.	4.6	12
32	Meso-scale Analysis of Strain Path Change Effect on the Hardening Behavior of Dual-phase Steel. Steel Research International, 2014, 85, 1047-1057.	1.8	11
33	Micromechanical modeling of fiber reinforced composites based on elastoplasticity and its application for 3D braided glass/Kevlar composites. Polymer Composites, 2007, 28, 722-732.	4.6	10
34	Characterization of the Mechanical Properties of a High-Strength Laminated Vibration Damping Steel Sheet and Their Application to Formability Prediction. Metals and Materials International, 2019, 25, 1326-1340.	3.4	10
35	Constitutive Modeling of Asymmetric Hardening Behavior of Transformation-Induced Plasticity Steels. International Journal of Automotive Technology, 2019, 20, 19-30.	1.4	10
36	Measurement of Weld Zone Properties of Laser-Welded Tailor-Welded Blanks and Its Application to Deep Drawing. International Journal of Automotive Technology, 2020, 21, 615-622.	1.4	9

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37	Application of Taguchi method to robust design of acoustic performance in IMT-2000 mobile phones. IEEE Transactions on Magnetics, 2005, 41, 1900-1903.	2.1	8
38	Multiscale Analysis of Open-Cell Aluminum Foam for Impact Energy Absorption. Journal of Materials Engineering and Performance, 2016, 25, 3977-3984.	2.5	8
39	Cellular automata modeling of the kinetics of static recrystallization during the post-hydroforming annealing of steel tube. Journal of Materials Science, 2020, 55, 7938-7957.	3.7	8
40	Modeling the Stress-Strain Curves and Dynamic Recrystallization of Nickel-Based A230 Alloy During Hot Deformation. Metals and Materials International, 2022, 28, 3016-3032.	3.4	8
41	Numerical simulation of friction stir welding process. International Journal of Material Forming, 2009, 2, 383-386.	2.0	7
42	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
43	Cure cycle modification for efficient vacuum bag only prepreg process. Journal of Composite Materials, 2021, 55, 1039-1051.	2.4	7
44	Neural Network-Based Multi-Objective Optimization of Adjustable Drawbead Movement for Deep Drawing of Tailor-Welded Blanks. Materials, 2022, 15, 1430.	2.9	7
45	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
46	Prediction of Tempcore Rebar Strength Using a Thermomechanical Simulator with a Designed Hollow Specimen. Steel Research International, 2020, 91, 1900520.	1.8	5
47	Characteristic evaluation of electromagnetic forming system and its application to deformation prediction in bulge forming. International Journal of Advanced Manufacturing Technology, 2020, 107, 775-789.	3.0	5
48	Reduction of Harmonic Distortion in Dual Magnet Type Microspeaker. IEEE Transactions on Magnetics, 2004, 40, 3054-3056.	2.1	4
49	Skin Electronics: Oxide Nanomembrane Hybrids with Enhanced Mechano- and Thermo-Sensitivity for Semitransparent Epidermal Electronics (Adv. Healthcare Mater. 7/2015). Advanced Healthcare Materials, 2015, 4, 991-991.	7.6	4
50	Advanced disk-forging process in producing heavy defect-free disk using counteracting dies. International Journal of Material Forming, 2021, 14, 281-291.	2.0	4
51	Die Design for Extrusion Process of Titanium Seamless Tube Using Finite Element Analysis. Metals, 2021, 11, 1338.	2.3	4
52	Crash Analysis of Aluminum/CFRP Hybrid Adhesive Joint Parts Using Adhesive Modeling Technique Based on the Fracture Mechanics. Polymers, 2021, 13, 3364.	4.5	4
53	Upper bound analysis of friction stir spot welding of 6061-T6 aluminum alloys. International Journal of Advanced Manufacturing Technology, 2022, 120, 8311-8320.	3.0	4
54	Forced Circulation of Nitrogen Gas for Accelerated and Eco-Friendly Cooling of Metallic Parts. Applied Sciences (Switzerland), 2019, 9, 3679.	2.5	3

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55	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
56	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
57	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
58	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
59	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
60	New development of integrated micro-speaker and dynamic receiver used for cellular phone. , 0, , .		0
61	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
62	Special issue on Hydroforming for Automotive Applications. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2015, 229, 571-571.	2.4	0
63	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