

Wonoh Lee

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

63

papers

2,493

citations

26

h-index

49

g-index

71

ext. papers

2,784

ext. citations

5.4

avg, IF

4.79

L-index

#	Paper	IF	Citations
63	Characterization of mechanical behavior of woven fabrics: Experimental methods and benchmark results. <i>Composites Part A: Applied Science and Manufacturing</i> , 2008 , 39, 1037-1053	8.4	418
62	Layer-by-Layer Assembly for Graphene-Based Multilayer Nanocomposites: Synthesis and Applications. <i>Chemistry of Materials</i> , 2015 , 27, 3785-3796	9.6	182
61	Simultaneous enhancement of mechanical, electrical and thermal properties of graphene oxide paper by embedding dopamine. <i>Carbon</i> , 2013 , 65, 296-304	10.4	152
60	Mussel-inspired green synthesis of silver nanoparticles on graphene oxide nanosheets for enhanced catalytic applications. <i>Chemical Communications</i> , 2013 , 49, 3392-4	5.8	126
59	Experimental and numerical study on formability of friction stir welded TWB sheets based on hemispherical dome stretch tests. <i>International Journal of Plasticity</i> , 2009 , 25, 1626-1654	7.6	109
58	Graphene/carbon nanotube hybrid as a multi-functional interfacial reinforcement for carbon fiber-reinforced composites. <i>Composites Part B: Engineering</i> , 2017 , 122, 23-30	10	104
57	Experimental and numerical investigation of combined isotropic-kinematic hardening behavior of sheet metals. <i>International Journal of Plasticity</i> , 2009 , 25, 942-972	7.6	101
56	Flexible Textile Strain Wireless Sensor Functionalized with Hybrid Carbon Nanomaterials Supported ZnO Nanowires with Controlled Aspect Ratio. <i>Advanced Functional Materials</i> , 2016 , 26, 6206-6214	15.6	100
55	Highly Flexible Organic Nanofiber Phototransistors Fabricated on a Textile Composite for Wearable Photosensors. <i>Advanced Functional Materials</i> , 2016 , 26, 1445-1453	15.6	85
54	The effect of concentration of graphene nanoplatelets on mechanical and electrical properties of reduced graphene oxide papers. <i>Carbon</i> , 2012 , 50, 4573-4578	10.4	77
53	Processing and characterization of multi-scale hybrid composites reinforced with nanoscale carbon reinforcements and carbon fibers. <i>Composites Part A: Applied Science and Manufacturing</i> , 2011 , 42, 337-344	8.4	65
52	Highly tunable interfacial adhesion of glass fiber by hybrid multilayers of graphene oxide and aramid nanofiber. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 3329-34	9.5	64
51	Partially reduced graphene oxide as a multi-functional sizing agent for carbon fiber composites by electrophoretic deposition. <i>RSC Advances</i> , 2013 , 3, 25609	3.7	63
50	Electrophoretic deposition of aramid nanofibers on carbon fibers for highly enhanced interfacial adhesion at low content. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016 , 84, 482-489	8.4	53
49	Formability evaluation of friction stir welded 6111-T4 sheet with respect to joining material direction. <i>International Journal of Mechanical Sciences</i> , 2010 , 52, 612-625	5.5	50
48	Characterization of mechanical properties by indentation tests and FE analysis validation by application to a weld zone of DP590 steel. <i>International Journal of Solids and Structures</i> , 2009 , 46, 344-363	3.1	46
47	Macro-performance evaluation of friction stir welded automotive tailor-welded blank sheets: Part I [Material properties. <i>International Journal of Solids and Structures</i> , 2010 , 47, 1048-1062	3.1	46

46	Catecholamine polymers as surface modifiers for enhancing interfacial strength of fiber-reinforced composites. <i>Composites Science and Technology</i> , 2015 , 110, 53-61	8.6	45
45	Preparation of highly stacked graphene papers via site-selective functionalization of graphene oxide. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 12893	13	43
44	Bias-extension of woven composite fabrics. <i>International Journal of Material Forming</i> , 2008 , 1, 895-898	2	43
43	Constitutive law for AZ31B Mg alloy sheets and finite element simulation for three-point bending. <i>International Journal of Mechanical Sciences</i> , 2008 , 50, 1510-1518	5.5	43
42	Highly Conductive Graphene/Ag Hybrid Fibers for Flexible Fiber-Type Transistors. <i>Scientific Reports</i> , 2015 , 5, 16366	4.9	42
41	Highly porous and easy shapeable poly-dopamine derived graphene-coated single walled carbon nanotube aerogels for stretchable wire-type supercapacitors. <i>Carbon</i> , 2018 , 130, 137-144	10.4	40
40	Macro-performance evaluation of friction stir welded automotive tailor-welded blank sheets: Part II Formability. <i>International Journal of Solids and Structures</i> , 2010 , 47, 1063-1081	3.1	35
39	Effect of phenoxy-based coating resin for reinforcing pitch carbon fibers on the interlaminar shear strength of PA6 composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016 , 87, 212-219	8.4	28
38	Numerical study on thermo-stamping of woven fabric composites based on double-dome stretch forming. <i>International Journal of Material Forming</i> , 2010 , 3, 1217-1227	2	26
37	Highly porous and capacitive copper oxide nanowire/graphene hybrid carbon nanostructure for high-performance supercapacitor electrodes. <i>Composites Part B: Engineering</i> , 2019 , 178, 107464	10	25
36	Site-selective immobilization of gold nanoparticles on graphene sheets and its electrochemical properties. <i>Applied Surface Science</i> , 2014 , 315, 73-80	6.7	25
35	Highly Sensitive Ultraviolet Light Sensor Based on Photoactive Organic Gate Dielectrics with an Azobenzene Derivative. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 23172-23179	3.8	25
34	Formicary-like carbon nanotube/copper hybrid nanostructures for carbon fiber-reinforced composites by electrophoretic deposition. <i>Journal of Materials Science</i> , 2011 , 46, 2359-2364	4.3	22
33	Numerical simulations on double-dome forming of woven composites using the coupled non-orthogonal constitutive model. <i>International Journal of Material Forming</i> , 2009 , 2, 145-148	2	20
32	Non-orthogonal constitutive model for woven composites incorporating tensile effect on shear behavior. <i>International Journal of Material Forming</i> , 2008 , 1, 891-894	2	20
31	Effect of hardening laws and yield function types on spring-back simulations of dual-phase steel automotive sheets. <i>Metals and Materials International</i> , 2006 , 12, 293-305	2.4	18
30	Nano structural analysis on stiffening phenomena of PAN-based carbon fibers during tensile deformation. <i>Carbon</i> , 2014 , 76, 232-239	10.4	17
29	Three-Dimensional Porous Nitrogen-Doped NiO Nanostructures as Highly Sensitive NO ₂ Sensors. <i>Nanomaterials</i> , 2017 , 7,	5.4	15

28	Springback evaluation of friction stir welded TWB automotive sheets. <i>Metals and Materials International</i> , 2011 , 17, 83-98	2.4	14
27	Mussel-inspired dopamine-mediated graphene hybrid with silver nanoparticles for high performance electrochemical energy storage electrodes. <i>Composites Part B: Engineering</i> , 2018 , 134, 141-150	1.0	11
26	Effect of dimethylpolysiloxane liquid on the cryogenic tensile strength and thermal contraction behavior of epoxy resins. <i>Cryogenics</i> , 2014 , 61, 63-69	1.8	10
25	Highly stretchable fiber transistors with all-stretchable electronic components and graphene hybrid electrodes. <i>Organic Electronics</i> , 2019 , 69, 320-328	3.5	9
24	Fabrication of Carbon Nanotube/Copper Hybrid Nanoplatelets Coated Carbon Fiber Composites by Thermal Vapor and Electrophoretic Depositions. <i>Electrochemical and Solid-State Letters</i> , 2011 , 14, K37		8
23	Effect of constitutive laws on plane strain ideal flow design: an analytical example. <i>Acta Mechanica</i> , 2004 , 173, 49-63	2.1	8
22	Ultra-sensitive non-enzymatic amperometric glucose sensors based on silver nanowire/graphene hybrid three-dimensional nanostructures. <i>Results in Physics</i> , 2019 , 15, 102761	3.7	6
21	Nonsteady plane-strain ideal forming without elastic dead-zone. <i>Fibers and Polymers</i> , 2002 , 3, 120-127	2	6
20	Constitutive equations based on cell modeling method for 3D circular braided glass fiber reinforced composites. <i>Fibers and Polymers</i> , 2003 , 4, 77-83	2	6
19	Contrast enhancement for quantitative image analysis of graphene oxide using optical microscopy for Si-based field effect transistors. <i>Materials Science in Semiconductor Processing</i> , 2015 , 39, 521-529	4.3	5
18	Optimization of boost condition and axial feeding on tube bending and hydro-forming process considering formability and spring-back. <i>Metals and Materials International</i> , 2009 , 15, 863-876	2.4	5
17	Non-steady plane-strain ideal plastic flow. <i>International Journal of Plasticity</i> , 2005 , 21, 1322-1345	7.6	5
16	Experimental study of a thin water-film evaporative cooling system to enhance the energy conversion efficiency of a thermoelectric device. <i>Energy</i> , 2020 , 211, 119040	7.9	5
15	Kinematics of the nonsteady axi-symmetric ideal plastic flow process. <i>Fibers and Polymers</i> , 2004 , 5, 209-212	2.1	4
14	Preparation of Graphene/Gold Nano-Hybrid Using Diamine Linker as Effective Surface-Enhanced Raman Scattering Platforms. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 8996-9001	1.3	3
13	A microfluidic circuit consisting of individualized components with a 3D slope valve for automation of sequential liquid control. <i>Lab on A Chip</i> , 2020 , 20, 4433-4441	7.2	3
12	Experimental and Numerical Studies on Fiber Deformation and Formability in Thermoforming Process Using a Fast-Cure Carbon Prepreg: Effect of Stacking Sequence and Mold Geometry. <i>Materials</i> , 2018 , 11,	3.5	2
11	Experimental and Numerical Investigation of Kinematic Hardening Behavior in Sheet Metals. <i>AIP Conference Proceedings</i> , 2007 ,	0	2

10	Preparation of electrochemically exfoliated graphene sheets using DC switching voltages. <i>Carbon Letters</i> , 2020 , 30, 409-416	2.3	2
9	Numerical Evaluation of Hydro-Formed DP-Steel Tubes on Crash-Performance with Welding Heat Effects. <i>Materials Transactions</i> , 2012 , 53, 812-819	1.3	1
8	Numerical Analysis on Double Dome Stretching Tests of Woven Composites. <i>AIP Conference Proceedings</i> , 2007 ,	0	1
7	Preparation of Amine-functionalized Graphene Fiber and Its Application. <i>Composites Research</i> , 2015 , 28, 265-269		1
6	A Study on Image Analysis of Graphene Oxide Using Optical Microscopy. <i>Composites Research</i> , 2014 , 27, 183-189		1
5	Removal Efficiency of PM10 via Ventilation with Residential Exhaust Hood and Conditions for Reducing Human Intake Fraction. <i>Environmental Modeling and Assessment</i> , 1	2	1
4	Recent advances on fiber-reinforced multifunctional composites for structural supercapacitors. <i>Functional Composites and Structures</i> , 2022 , 4, 012001	3.5	0
3	Nonsteady Plain-Strain Ideal Plastic Flow Considering Elastic Dead Zone. <i>Solid Mechanics and Its Applications</i> , 2004 , 343-350	0.4	
2	Preparation of Nitrogen-doped Carbon Nanowire Arrays by Carbonization of Mussel-inspired Polydopamine. <i>Composites Research</i> , 2016 , 29, 132-137		
1	Half-dome Thermo-forming Tests of Thermoplastic Glass Fiber/PP Composites and FEM Simulations Based on Non-orthogonal Constitutive Models. <i>Composites Research</i> , 2016 , 29, 236-242		