Wonoh Lee

List of Publications by Year in Descending Order

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	Recent advances on fiber-reinforced multifunctional composites for structural supercapacitors. *Functional Composites and Structures*, **2022**, 4, 012001	3.5	0
62	Preparation of electrochemically exfoliated graphene sheets using DC switching voltages. *Carbon Letters*, **2020**, 30, 409-416	2.3	2
61	Experimental study of a thin water-film evaporative cooling system to enhance the energy conversion efficiency of a thermoelectric device. *Energy*, **2020**, 211, 119040	7.9	5
60	A microfluidic circuit consisting of individualized components with a 3D slope valve for automation of sequential liquid control. *Lab on A Chip*, **2020**, 20, 4433-4441	7.2	3
59	Highly porous and capacitive copper oxide nanowire/graphene hybrid carbon nanostructure for high-performance supercapacitor electrodes. *Composites Part B: Engineering*, **2019**, 178, 107464	10	25
58	Highly stretchable fiber transistors with all-stretchable electronic components and graphene hybrid electrodes. *Organic Electronics*, **2019**, 69, 320-328	3.5	9
57	Ultra-sensitive non-enzymatic amperometric glucose sensors based on silver nanowire/graphene hybrid three-dimensional nanostructures. *Results in Physics*, **2019**, 15, 102761	3.7	6
56	Highly porous and easy shapeable poly-dopamine derived graphene-coated single walled carbon nanotube aerogels for stretchable wire-type supercapacitors. *Carbon*, **2018**, 130, 137-144	10.4	40
55	Mussel-inspired dopamine-mediated graphene hybrid with silver nanoparticles for high performance electrochemical energy storage electrodes. *Composites Part B: Engineering*, **2018**, 134, 141-150	10	11
54	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. *Materials*, **2018**, 11,	3.5	2
53	Graphene/carbon nanotube hybrid as a multi-functional interfacial reinforcement for carbon fiber-reinforced composites. *Composites Part B: Engineering*, **2017**, 122, 23-30	10	104
52	Three-Dimensional Porous Nitrogen-Doped NiO Nanostructures as Highly Sensitive NO Sensors. *Nanomaterials*, **2017**, 7,	5.4	15
51	Flexible Textile Strain Wireless Sensor Functionalized with Hybrid Carbon Nanomaterials Supported ZnO Nanowires with Controlled Aspect Ratio. *Advanced Functional Materials*, **2016**, 26, 6206-6214	15.6	100
50	Electrophoretic deposition of aramid nanofibers on carbon fibers for highly enhanced interfacial adhesion at low content. *Composites Part A: Applied Science and Manufacturing*, **2016**, 84, 482-489	8.4	53
49	Preparation of Nitrogen-doped Carbon Nanowire Arrays by Carbonization of Mussel-inspired Polydopamine. *Composites Research*, **2016**, 29, 132-137		
48	Half-dome Thermo-forming Tests of Thermoplastic Glass Fiber/PP Composites and FEM Simulations Based on Non-orthogonal Constitutive Models. *Composites Research*, **2016**, 29, 236-242		
47	Highly Flexible Organic Nanofiber Phototransistors Fabricated on a Textile Composite for Wearable Photosensors. *Advanced Functional Materials*, **2016**, 26, 1445-1453	15.6	85

46	Effect of phenoxy-based coating resin for reinforcing pitch carbon fibers on the interlaminar shear strength of PA6 composites. *Composites Part A: Applied Science and Manufacturing*, **2016**, 87, 212-219	8.4	28
45	Highly Sensitive Ultraviolet Light Sensor Based on Photoactive Organic Gate Dielectrics with an Azobenzene Derivative. *Journal of Physical Chemistry C*, **2016**, 120, 23172-23179	3.8	25
44	Layer-by-Layer Assembly for Graphene-Based Multilayer Nanocomposites: Synthesis and Applications. *Chemistry of Materials*, **2015**, 27, 3785-3796	9.6	182
43	Contrast enhancement for quantitative image analysis of graphene oxide using optical microscopy for Si-based field effect transistors. *Materials Science in Semiconductor Processing*, **2015**, 39, 521-529	4.3	5
42	Highly Conductive Graphene/Ag Hybrid Fibers for Flexible Fiber-Type Transistors. *Scientific Reports*, **2015**, 5, 16366	4.9	42
41	Preparation of Graphene/Gold Nano-Hybrid Using Diamine Linker as Effective Surface-Enhanced Raman Scattering Platforms. *Journal of Nanoscience and Nanotechnology*, **2015**, 15, 8996-9001	1.3	3
40	Catecholamine polymers as surface modifiers for enhancing interfacial strength of fiber-reinforced composites. *Composites Science and Technology*, **2015**, 110, 53-61	8.6	45
39	Highly tunable interfacial adhesion of glass fiber by hybrid multilayers of graphene oxide and aramid nanofiber. *ACS Applied Materials & Interfaces*, **2015**, 7, 3329-34	9.5	64
38	Preparation of Amine-functionalized Graphene Fiber and Its Application. *Composites Research*, **2015**, 28, 265-269		1
37	Effect of dimethylpolysiloxane liquid on the cryogenic tensile strength and thermal contraction behavior of epoxy resins. *Cryogenics*, **2014**, 61, 63-69	1.8	10
36	Site-selective immobilization of gold nanoparticles on graphene sheets and its electrochemical properties. *Applied Surface Science*, **2014**, 315, 73-80	6.7	25
35	Nano structural analysis on stiffening phenomena of PAN-based carbon fibers during tensile deformation. *Carbon*, **2014**, 76, 232-239	10.4	17
34	A Study on Image Analysis of Graphene Oxide Using Optical Microscopy. *Composites Research*, **2014**, 27, 183-189		1
33	Preparation of highly stacked graphene papers via site-selective functionalization of graphene oxide. *Journal of Materials Chemistry A*, **2013**, 1, 12893	13	43
32	Simultaneous enhancement of mechanical, electrical and thermal properties of graphene oxide paper by embedding dopamine. *Carbon*, **2013**, 65, 296-304	10.4	152
31	Partially reduced graphene oxide as a multi-functional sizing agent for carbon fiber composites by electrophoretic deposition. *RSC Advances*, **2013**, 3, 25609	3.7	63
30	Mussel-inspired green synthesis of silver nanoparticles on graphene oxide nanosheets for enhanced catalytic applications. *Chemical Communications*, **2013**, 49, 3392-4	5.8	126
29	The effect of concentration of graphene nanoplatelets on mechanical and electrical properties of reduced graphene oxide papers. *Carbon*, **2012**, 50, 4573-4578	10.4	77

28	Numerical Evaluation of Hydro-Formed DP-Steel Tubes on Crash-Performance with Welding Heat Effects. *Materials Transactions*, **2012**, 53, 812-819	1.3	1
27	Processing and characterization of multi-scale hybrid composites reinforced with nanoscale carbon reinforcements and carbon fibers. *Composites Part A: Applied Science and Manufacturing*, **2011**, 42, 337-344	8.4	65
26	Formicary-like carbon nanotube/copper hybrid nanostructures for carbon fiber-reinforced composites by electrophoretic deposition. *Journal of Materials Science*, **2011**, 46, 2359-2364	4.3	22
25	Springback evaluation of friction stir welded TWB automotive sheets. *Metals and Materials International*, **2011**, 17, 83-98	2.4	14
24	Fabrication of Carbon Nanotube/Copper Hybrid Nanoplatelets Coated Carbon Fiber Composites by Thermal Vapor and Electrophoretic Depositions. *Electrochemical and Solid-State Letters*, **2011**, 14, K37		8
23	Numerical study on thermo-stamping of woven fabric composites based on double-dome stretch forming. *International Journal of Material Forming*, **2010**, 3, 1217-1227	2	26
22	Formability evaluation of friction stir welded 6111-T4 sheet with respect to joining material direction. *International Journal of Mechanical Sciences*, **2010**, 52, 612-625	5.5	50
21	Macro-performance evaluation of friction stir welded automotive tailor-welded blank sheets: Part II Formability. *International Journal of Solids and Structures*, **2010**, 47, 1063-1081	3.1	35
20	Macro-performance evaluation of friction stir welded automotive tailor-welded blank sheets: Part I Material properties. *International Journal of Solids and Structures*, **2010**, 47, 1048-1062	3.1	46
19	Numerical simulations on double-dome forming of woven composites using the coupled non-orthogonal constitutive model. *International Journal of Material Forming*, **2009**, 2, 145-148	2	20
18	Optimization of boost condition and axial feeding on tube bending and hydro-forming process considering formability and spring-back. *Metals and Materials International*, **2009**, 15, 863-876	2.4	5
17	Experimental and numerical investigation of combined isotropic-kinematic hardening behavior of sheet metals. *International Journal of Plasticity*, **2009**, 25, 942-972	7.6	101
16	Experimental and numerical study on formability of friction stir welded TWB sheets based on hemispherical dome stretch tests. *International Journal of Plasticity*, **2009**, 25, 1626-1654	7.6	109
15	Characterization of mechanical properties by indentation tests and FE analysis Validation by application to a weld zone of DP590 steel. *International Journal of Solids and Structures*, **2009**, 46, 344-363	3.1	46
14	Characterization of mechanical behavior of woven fabrics: Experimental methods and benchmark results. *Composites Part A: Applied Science and Manufacturing*, **2008**, 39, 1037-1053	8.4	418
13	Non-orthogonal constitutive model for woven composites incorporating tensile effect on shear behavior. *International Journal of Material Forming*, **2008**, 1, 891-894	2	20
12	Bias-extension of woven composite fabrics. *International Journal of Material Forming*, **2008**, 1, 895-898	2	43
11	Constitutive law for AZ31B Mg alloy sheets and finite element simulation for three-point bending. *International Journal of Mechanical Sciences*, **2008**, 50, 1510-1518	5.5	43

10	Experimental and Numerical Investigation of Kinematic Hardening Behavior in Sheet Metals. *AIP Conference Proceedings*, **2007**,	0	2
9	Numerical Analysis on Double Dome Stretching Tests of Woven Composites. *AIP Conference Proceedings*, **2007**,	0	1
8	Effect of hardening laws and yield function types on spring-back simulations of dual-phase steel automotive sheets. *Metals and Materials International*, **2006**, 12, 293-305	2.4	18
7	Non-steady plane-strain ideal plastic flow. *International Journal of Plasticity*, **2005**, 21, 1322-1345	7.6	5
6	Effect of constitutive laws on plane strain ideal flow design: an analytical example. *Acta Mechanica*, **2004**, 173, 49-63	2.1	8
5	Kinematics of the nonsteady axi-symmetric ideal plastic flow process. *Fibers and Polymers*, **2004**, 5, 209-212	1	4
4	Nonsteady Plain-Strain Ideal Plastic Flow Considering Elastic Dead Zone. *Solid Mechanics and Its Applications*, **2004**, 343-350	0.4	
3	Constitutive equations based on cell modeling method for 3D circular braided glass fiber reinforced composites. *Fibers and Polymers*, **2003**, 4, 77-83	2	6
2	Nonsteady plane-strain ideal forming without elastic dead-zone. *Fibers and Polymers*, **2002**, 3, 120-127	2	6
1	Removal Efficiency of PM10 via Ventilation with Residential Exhaust Hood and Conditions for Reducing Human Intake Fraction. *Environmental Modeling and Assessment*,1	2	1