

Woong-Ryeol Yu

List of Publications by Year in descending order

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101
papers

2,357
citations

279487

23
h-index

233125

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101
all docs

101
docs citations

101
times ranked

3000
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of interfacial properties on the damping performance of steel-polymer sandwich cantilever beam composites. <i>JVC/Journal of Vibration and Control</i> , 2023, 29, 400-410.	1.5	3
2	New auxetic materials with stretch-dominant architecture using simple trusses. <i>Mechanics of Advanced Materials and Structures</i> , 2023, 30, 609-625.	1.5	8
3	Electrochemical properties of PVP-derived carbon nanospheres with various porosity and heteroatom contents in anode voltage range over full-cell operation. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 105, 146-157.	2.9	6
4	Frontally polymerizable shape memory polymer for 3D printing of free-standing structures. <i>Smart Materials and Structures</i> , 2022, 31, 025013.	1.8	6
5	Modeling of the piezoresistive behavior of carbon nanotube/polymer composites during stress relaxation. <i>Polymer Composites</i> , 2022, 43, 2672-2682.	2.3	8
6	Influence of water absorption on the mechanical behavior of CFRPs manufactured by RTM at room temperature. <i>Functional Composites and Structures</i> , 2022, 4, 015007.	1.6	3
7	Three-dimensional printing of continuous carbon fiber-reinforced polymer composites via in-situ pin-assisted melt impregnation. <i>Additive Manufacturing</i> , 2022, 55, 102860.	1.7	7
8	Microstructure Analysis of Drawing Effect and Mechanical Properties of Polyacrylonitrile Precursor Fiber According to Molecular Weight. <i>Polymers</i> , 2022, 14, 2625.	2.0	2
9	Graphite Fiber Electrode by Continuous Wet-Spinning. <i>ACS Applied Energy Materials</i> , 2022, 5, 8963-8972.	2.5	2
10	Gel Polymer Electrolytes Based on Crosslinked Networks by the Introduction of an Ionic Liquid Crosslinker with Ethylene Oxide Arms. <i>ACS Applied Energy Materials</i> , 2022, 5, 8381-8390.	2.5	5
11	The effects of adhesion on the tensile strength of steel-polymer sandwich composites. <i>Advanced Composite Materials</i> , 2021, 30, 443-461.	1.0	10
12	Method for Characterizing the Rate-dependent Behavior of Aramid Fibers Coated with Shear Thickening Fluids. <i>Fibers and Polymers</i> , 2021, 22, 366-372.	1.1	1
13	Three-dimensional constitutive model for shape-memory polymers considering temperature-rate dependent behavior. <i>Smart Materials and Structures</i> , 2021, 30, 035030.	1.8	8
14	A micromechanical model of carbon fiber-reinforced plastic and steel hybrid laminate composites. <i>Journal of Composite Materials</i> , 2021, 55, 3071-3086.	1.2	3
15	Accelerated Testing Method for Predicting Long-Term Properties of Carbon Fiber-Reinforced Shape Memory Polymer Composites in a Low Earth Orbit Environment. <i>Polymers</i> , 2021, 13, 1628.	2.0	11
16	Microstructure and Mechanical Properties of Polyacrylonitrile Precursor Fiber with Dry and Wet Drawing Process. <i>Polymers</i> , 2021, 13, 1613.	2.0	9
17	Investigation of I_b -Values for Determining Fracture Modes in Fiber-Reinforced Composite Materials by Acoustic Emission. <i>Materials</i> , 2021, 14, 3641.	1.3	6
18	Simple design of a Si-Sn-C ternary composite anode for Li-ion batteries. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 98, 275-282.	2.9	2

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19	Stable Cycling of a 4 V Class Lithium Polymer Battery Enabled by In Situ Cross-Linked Ethylene Oxide/Propylene Oxide Copolymer Electrolytes with Controlled Molecular Structures. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 35664-35676.	4.0	7
20	Effect of propagation distance on acoustic emission of carbon fiber/epoxy composites. <i>Structural Health Monitoring</i> , 2021, 20, 3342-3353.	4.3	9
21	Moisturized Polyacrylonitrile Copolymer for Stronger Precursor Fibers. <i>ACS Applied Polymer Materials</i> , 2021, 3, 6285-6293.	2.0	7
22	A scalable, ecofriendly, and cost-effective lithium metal protection layer from a Post-it note. <i>RSC Advances</i> , 2021, 12, 346-354.	1.7	3
23	A new cure kinetics model to simulate thermomechanical behavior of polymeric sealants for automotive applications. <i>Functional Composites and Structures</i> , 2021, 3, 045008.	1.6	1
24	Increased breaking strain of carbon fiber-reinforced plastic and steel hybrid laminate composites. <i>Composite Structures</i> , 2020, 235, 111768.	3.1	14
25	Simulating rate- and temperature-dependent behaviors of adhesives using a nonlinear viscoelastic model. <i>Mechanics of Materials</i> , 2020, 147, 103446.	1.7	11
26	Electrochemical wet-spinning process for fabricating strong PAN fibers via an in situ induced plasticizing effect. <i>Polymer</i> , 2020, 202, 122641.	1.8	17
27	Electrospun carbon nanofibers as a functional composite platform: a review of highly tunable microstructures and morphologies for versatile applications. <i>Functional Composites and Structures</i> , 2020, 2, 012001.	1.6	16
28	Numerical simulation of gas-assisted polymer-melt electrospinning: Parametric study of a multinozzle system for mass production. <i>Polymer Engineering and Science</i> , 2020, 60, 2111-2121.	1.5	3
29	Carbon nanotube fiber assemblies with braided insulation layers for washable capacitive textile touch sensors. <i>Functional Composites and Structures</i> , 2020, 2, 015007.	1.6	7
30	Continuous and rapid production of three-dimensional woven fabric preforms using a new weaving technique. <i>Functional Composites and Structures</i> , 2020, 2, 015005.	1.6	5
31	Fabrication of a Highly Stretchable, Wrinkle-Free Electrode with Switchable Transparency Using a Free-Standing Silver Nanofiber Network and Shape Memory Polymer Substrate. <i>Macromolecular Rapid Communications</i> , 2020, 41, 2000129.	2.0	12
32	All-Inkjet-Printed Flexible Nanobio-Devices with Efficient Electrochemical Coupling Using Amphiphilic Biomaterials. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 24231-24241.	4.0	25
33	Semiconducting carbon nanotube fibers for electrochemical biosensor platforms. <i>Materials and Design</i> , 2020, 192, 108740.	3.3	12
34	Mechanical properties of glass-reinforced composite/perforated metal sheet hybrids. <i>Functional Composites and Structures</i> , 2020, 2, 035005.	1.6	12
35	A new auxetic structure with enhanced stiffness via stiffened elliptical perforations. <i>Functional Composites and Structures</i> , 2020, 2, 045006.	1.6	7
36	Control of Braid Pattern on Every Side of a Braided Composite Part Produced by Asymmetrical Braiding Process. <i>Applied Composite Materials</i> , 2019, 26, 479-492.	1.3	13

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37	Rational design of a Siâ€“Snâ€“C ternary anode having exceptional rate performance. <i>Energy Storage Materials</i> , 2019, 17, 62-69.	9.5	20
38	A facile route to mechanically robust graphene oxide fibers. <i>RSC Advances</i> , 2019, 9, 20248-20255.	1.7	5
39	Long-term properties of carbon fiber-reinforced shape memory epoxy/polymer composites exposed to vacuum and ultraviolet radiation. <i>Smart Materials and Structures</i> , 2019, 28, 115013.	1.8	27
40	Improved adhesion of metalâ€“polymer sandwich composites using a spontaneous polymer grafting process. <i>Functional Composites and Structures</i> , 2019, 1, 025004.	1.6	18
41	Robust yarn electrodes for microbatteries with high areal capacity. <i>Materials and Design</i> , 2019, 166, 107620.	3.3	7
42	Poling-free spinning process of manufacturing piezoelectric yarns for textile applications. <i>Materials and Design</i> , 2019, 179, 107889.	3.3	37
43	Elastocaloric effects of carbon fabric-reinforced shape memory polymer composites. <i>Functional Composites and Structures</i> , 2019, 1, 015004.	1.6	1
44	Welcome to <i>Functional Composites and Structures</i> . <i>Functional Composites and Structures</i> , 2019, 1, 010201.	1.6	0
45	Preparation of epoxy-based shape memory polymers for deployable space structures using diglycidyl ether of ethoxylated bisphenol-A. <i>Journal of Polymer Research</i> , 2019, 26, 1.	1.2	12
46	Characterization and modeling of elastocaloric effects of shape memory poly(cyclooctene). <i>Applied Physics Letters</i> , 2019, 114, 013904.	1.5	7
47	Three-dimensional constitutive model of woven fabric-reinforced shape memory polymer composites considering thermal residual stress. <i>Smart Materials and Structures</i> , 2019, 28, 035023.	1.8	12
48	Mechanical Metamaterials with Thermo-responsive Switching between Positive and Negative Poisson's Ratios. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018, 12, 1800040.	1.2	8
49	Tension-induced twist of twist-spun carbon nanotube yarns and its effect on their torsional behavior. <i>Scientific Reports</i> , 2018, 8, 6146.	1.6	6
50	Design, fabrication, and bending test of shape memory polymer composite hinges for space deployable structures. <i>Journal of Intelligent Material Systems and Structures</i> , 2018, 29, 1560-1574.	1.4	53
51	Preparation of Epoxy Shape Memory Polymers for Deployable Space Structures Using Flexible Diamines. <i>Fibers and Polymers</i> , 2018, 19, 1799-1805.	1.1	15
52	Quantitative evaluation of the three-dimensional deployment behavior of a shape memory polymer antenna. <i>Smart Materials and Structures</i> , 2018, 27, 105007.	1.8	8
53	Constitutive modelling of carbon fiber-reinforced shape memory polymer composites. <i>Journal of Physics: Conference Series</i> , 2018, 1063, 012028.	0.3	1
54	Improved electrical conductivity of poly(ethylene oxide) nanofibers using multi-walled carbon nanotubes. <i>AIP Advances</i> , 2018, 8, .	0.6	8

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55	Theoretical and experimental study of braid pattern in mandrels with arbitrary cross-sections. <i>Journal of Composite Materials</i> , 2018, 52, 4009-4022.	1.2	15
56	Recent Progress in Coaxial Electrospinning: New Parameters, Various Structures, and Wide Applications. <i>Advanced Materials</i> , 2018, 30, e1704765.	11.1	313
57	Prediction of the tensile strength of unidirectional carbon fiber composites considering the interfacial shear strength. <i>Composite Structures</i> , 2017, 168, 92-103.	3.1	38
58	TiO ₂ @SnO ₂ @TiO ₂ triple-shell nanotube anode for high-performance lithium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 2365-2371.	1.2	17
59	Fiber electrode by one-pot wet-spinning of graphene and manganese oxide nanowires for wearable lithium-ion batteries. <i>Journal of Applied Electrochemistry</i> , 2017, 47, 865-875.	1.5	22
60	Redox-Triggered Coloration Mechanism of Electrically Tunable Colloidal Photonic Crystals. <i>Langmuir</i> , 2017, 33, 9057-9065.	1.6	13
61	Optical and shape memory properties of semicrystalline poly(cyclooctene) upon cold drawing. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017, 55, 1595-1607.	2.4	9
62	Prediction of delamination of steel-polymer composites using cohesive zone model and peeling tests. <i>Composite Structures</i> , 2017, 160, 118-127.	3.1	23
63	Mechanical analysis of CFRP-steel hybrid composites considering the interfacial adhesion. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	1
64	Prediction of tensile and flexural strength of unidirectional CFRP considering the interfacial shear strength. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	2
65	Mechanical analysis of three dimensional woven carbon fiber-reinforced composites using fiber-based continuum model. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	0
66	Silicon/Carbon Nanotube/BaTiO ₃ Nanocomposite Anode: Evidence for Enhanced Lithium-Ion Mobility Induced by the Local Piezoelectric Potential. <i>ACS Nano</i> , 2016, 10, 2617-2627.	7.3	81
67	Three-dimensional constitutive model for shape memory polymers using multiplicative decomposition of the deformation gradient and shape memory strains. <i>Mechanics of Materials</i> , 2016, 93, 43-62.	1.7	59
68	Optimally conductive networks in randomly dispersed CNT:graphene hybrids. <i>Scientific Reports</i> , 2015, 5, 16568.	1.6	37
69	Facile method to improve initial reversible capacity of hollow carbon nanofiber anodes. <i>European Polymer Journal</i> , 2015, 70, 392-399.	2.6	17
70	Fabrication of double-tubular carbon nanofibers using quadruple coaxial electrospinning. <i>Nanotechnology</i> , 2014, 25, 465602.	1.3	21
71	Fabrication of carbon nanofibers with Si nanoparticle-stuffed cylindrical multi-channels via coaxial electrospinning and their anodic performance. <i>RSC Advances</i> , 2014, 4, 47389-47395.	1.7	18
72	Novel multi-layered 1-D nanostructure exhibiting the theoretical capacity of silicon for a super-enhanced lithium-ion battery. <i>Nanoscale</i> , 2014, 6, 5989.	2.8	47

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73	Predicting the tensile strength of needle-punched nonwoven mats using X-ray computed tomography and a statistical model. <i>Fibers and Polymers</i> , 2014, 15, 1202-1210.	1.1	11
74	Development of carbon composite bike fork using finite element analysis and a new pressure molding process. <i>Fibers and Polymers</i> , 2014, 15, 1517-1522.	1.1	3
75	3D braid scaffolds for regeneration of articular cartilage. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 34, 37-46.	1.5	26
76	New Electrospinning Nozzle to Reduce Jet Instability and Its Application to Manufacture of Multi-layered Nanofibers. <i>Scientific Reports</i> , 2014, 4, 6758.	1.6	50
77	A simple anisotropic hyperelastic constitutive model for textile fabrics with application to forming simulation. <i>Composites Part B: Engineering</i> , 2013, 52, 275-281.	5.9	121
78	Facile conductive bridges formed between silicon nanoparticles inside hollow carbon nanofibers. <i>Nanoscale</i> , 2013, 5, 4790.	2.8	37
79	Face-Centered-Cubic Lithium Crystals Formed in Mesopores of Carbon Nanofiber Electrodes. <i>ACS Nano</i> , 2013, 7, 5801-5807.	7.3	24
80	Carbon nanotube film interlayer for strain and damage sensing in composites during dynamic compressive loading. <i>Applied Physics Letters</i> , 2012, 101, 221909.	1.5	8
81	Effect of Pores in Hollow Carbon Nanofibers on Their Negative Electrode Properties for a Lithium Rechargeable Battery. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 6702-6710.	4.0	84
82	An effective method for manufacturing hollow carbon nanofibers and microstructural analysis. <i>Macromolecular Research</i> , 2012, 20, 605-613.	1.0	46
83	Dispersion polymerization of styrene using poly(4-vinylpyridine) macro-RAFT agent under UV radiation. <i>Fibers and Polymers</i> , 2012, 13, 135-138.	1.1	17
84	Mechanical analysis of geocomposites consisting of multi-axial warp knitted fabric and nonwoven mat. <i>Fibers and Polymers</i> , 2012, 13, 658-663.	1.1	2
85	Anodic properties of hollow carbon nanofibers for Li-ion battery. <i>Journal of Power Sources</i> , 2012, 199, 53-60.	4.0	109
86	Fabrication of Si core/C shell nanofibers and their electrochemical performances as a lithium-ion battery anode. <i>Journal of Power Sources</i> , 2012, 206, 267-273.	4.0	136
87	Fabrication of SnO ₂ nanotube microyarn and its gas sensing behavior. <i>Smart Materials and Structures</i> , 2011, 20, 105019.	1.8	21
88	Thermoresponsive shape memory characteristics of polyurethane electrospun web. <i>Journal of Applied Polymer Science</i> , 2011, 120, 492-500.	1.3	35
89	Determination of the transition temperature of shape memory polyurethanes using constrained recovery test. <i>Fibers and Polymers</i> , 2010, 11, 749-756.	1.1	9
90	PA6/MWNT nanocomposites fabricated using electrospun nanofibers containing MWNT. <i>Macromolecular Research</i> , 2010, 18, 162-169.	1.0	23

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91	Synthesis of water-soluble poly(vinyl alcohol)-grafted multi-walled carbon nanotubes. <i>Macromolecular Research</i> , 2010, 18, 458-462.	1.0	7
92	Thermo-mechanical constitutive modeling of shape memory polyurethanes using a phenomenological approach. <i>International Journal of Plasticity</i> , 2010, 26, 204-218.	4.1	73
93	Fabrication of long and discontinuous natural fiber reinforced polypropylene biocomposites and their mechanical properties. <i>Fibers and Polymers</i> , 2009, 10, 83-90.	1.1	195
94	Measuring tensile strength of nanofibers using conductive substrates and dynamic mechanical analyzer. <i>Fibers and Polymers</i> , 2009, 10, 703-708.	1.1	8
95	Mechanical behavior of shape memory fibers spun from nanoclay-tethered polyurethanes. <i>Macromolecular Research</i> , 2008, 16, 644-650.	1.0	17
96	Multi-scale modelling of 3D multi-layered braided composite tubes. <i>International Journal of Material Forming</i> , 2008, 1, 883-886.	0.9	3
97	Polyurethane smart fiber with shape memory function: Experimental characterization and constitutive modelling. <i>Fibers and Polymers</i> , 2007, 8, 377-385.	1.1	18
98	Modeling of anisotropic creep behavior of coated textile membranes. <i>Fibers and Polymers</i> , 2006, 7, 123-128.	1.1	14
99	A predictive approach to simulating the forming of viscous textile composite sheet. <i>Revue Europeenne Des Elements</i> , 2005, 14, 613-631.	0.1	1
100	Determination of critical testing frequency of the short fiber reinforced plastics for efficient fatigue test. <i>Polymer Composites</i> , 0, , .	2.3	0
101	Synthesis of inherently helical nanofibers: Effects of solidification of electrified jet during electrospinning. <i>Journal of Applied Polymer Science</i> , 0, , 52352.	1.3	0