

# Young-Bin Park

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

1,843  
citations

201385

27  
h-index

264894

42  
g-index

51  
all docs

51  
docs citations

51  
times ranked

2192  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multidimensional wearable self-powered personal thermal management with scalable solar heating and a triboelectric nanogenerator. <i>Nano Energy</i> , 2022, 98, 107323.	8.2	16
2	Synergistic Mechanical Reinforcement of Woven Carbon Fiber/Polypropylene Composites Using Plasma Treatment and Nanoclay. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2021, 8, 595-609.	2.7	4
3	Enhanced Mechanical and Antibacterial Properties of Nanocomposites Based on Poly(vinyl Alcohol) and Biopolymer-Derived Reduced Graphene Oxide. <i>Polymers</i> , 2021, 13, 615.	2.0	11
4	Multilayered Composites with Modulus Gradient for Enhanced Pressure-Temperature Sensing Performance. <i>Sensors</i> , 2021, 21, 4752.	2.1	5
5	Porous spongy FeCo <sub>1-x</sub> P nanostructure and MXene infused self-powered flexible textile based personal thermoregulatory device. <i>Nano Energy</i> , 2021, 86, 106042.	8.2	18
6	Interfacial enhancements between a three-dimensionally printed Honeycomb-Truss core and woven carbon fiber/polyamide-6 facesheets in sandwich-structured composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 149, 106534.	3.8	7
7	Interphase strengthening of carbon fiber/polyamide 6 composites through mixture of sizing agent and reduced graphene oxide coating. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 149, 106521.	3.8	26
8	Smart gating of the flexible Ag@Co <sub>x</sub> Mo <sub>1-x</sub> P and rGO-loaded composite based personal thermal management device inspired by the neuroanatomic circuitry of endotherms. <i>Chemical Engineering Journal</i> , 2021, 421, 127746.	6.6	15
9	Carbon Nanocomposite Based Mechanical Sensing and Energy Harvesting. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2020, 7, 247-267.	2.7	25
10	Hierarchically structured ZnO nanorod-carbon fiber composites as ultrathin, flexible, highly sensitive triboelectric sensors. <i>Smart Materials and Structures</i> , 2020, 29, 025002.	1.8	7
11	Real-time in situ monitoring of manufacturing process and CFRP quality by relative resistance change measurement. <i>Polymer Testing</i> , 2020, 85, 106416.	2.3	7
12	Exfoliated Graphite Nanoplatelet-Carbon Nanotube Hybrid Composites for Compression Sensing. <i>ACS Omega</i> , 2020, 5, 2630-2639.	1.6	10
13	Triboelectric-nanogenerator-integrated structural supercapacitor based on highly active P-doped branched Cu-Mn selenide nanowires for efficient energy harvesting and storage. <i>Nano Energy</i> , 2020, 73, 104754.	8.2	63
14	Bioinspired, High-Sensitivity Mechanical Sensors Realized with Hexagonal Microcolumnar Arrays Coated with Ultrasonic-Sprayed Single-Walled Carbon Nanotubes. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 18813-18822.	4.0	29
15	Strain sensing and progressive failure monitoring of glass-fiber-reinforced composites using percolated carbon nanotube networks. <i>Functional Composites and Structures</i> , 2020, 2, 015006.	1.6	13
16	Enhancement in mechanical properties of polyamide 66-carbon fiber composites containing graphene oxide-carbon nanotube hybrid nanofillers synthesized through in situ interfacial polymerization. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 135, 105938.	3.8	58
17	Bimetallic copper cobalt selenide nanowire-anchored woven carbon fiber-based structural supercapacitors. <i>Chemical Engineering Journal</i> , 2019, 355, 551-559.	6.6	117
18	Fabrication of the piezoresistive sensor using the continuous laser-induced nanostructure growth for structural health monitoring. <i>Carbon</i> , 2019, 152, 376-387.	5.4	16

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19	Biomechanical Energy Harvesting Wearable Textile-Based Personal Thermal Management Device Containing Epitaxially Grown Aligned Ag-Tipped Ni <sub>x</sub> Co <sub>1-x</sub> Se Nanowires/Reduced Graphene Oxide. <i>Advanced Functional Materials</i> , 2019, 29, 1903144.	7.8	80
20	Deformation and interlaminar crack propagation sensing in carbon fiber composites using electrical resistance measurement. <i>Composite Structures</i> , 2019, 216, 142-150.	3.1	24
21	The effects of plasma surface treatment on the mechanical properties of polycarbonate/carbon nanotube/carbon fiber composites. <i>Composites Part B: Engineering</i> , 2019, 160, 436-445.	5.9	75
22	Unidirectional spread-flow carbon fiber/polypropylene composites reinforced with mechanically aligned multi-walled carbon nanotubes and exfoliated graphite nanoplatelets. <i>Polymer Composites</i> , 2018, 39, E1251.	2.3	7
23	Ultra-high-speed processing of nanomaterial-reinforced woven carbon fiber/polyamide 6 composites using reactive thermoplastic resin transfer molding. <i>Composites Part B: Engineering</i> , 2018, 143, 36-46.	5.9	38
24	Microwave absorption and mechanical performance of MnO <sub>2</sub> nanostructures grown on woven Kevlar fiber/reduced graphene oxide-polyaniline nanofiber array-reinforced polyester resin composites. <i>Composites Part B: Engineering</i> , 2018, 140, 123-132.	5.9	38
25	Prediction of thermal conductivities of carbon-containing fiber-reinforced and multiscale hybrid composites. <i>Composites Part B: Engineering</i> , 2018, 133, 232-239.	5.9	28
26	Woven Kevlar Fiber/Polydimethylsiloxane/Reduced Graphene Oxide Composite-Based Personal Thermal Management with Freestanding Cu-Ni Core-Shell Nanowires. <i>Nano Letters</i> , 2018, 18, 6731-6739.	4.5	104
27	Interfacial control through ZnO nanorod growth on plasma-treated carbon fiber for multiscale reinforcement of carbon fiber/polyamide 6 composites. <i>Materials Today Communications</i> , 2018, 17, 438-449.	0.9	12
28	Synergistic interfacial reinforcement of carbon fiber/polyamide 6 composites using carbon-nanotube-modified silane coating on ZnO-nanorod-grown carbon fiber. <i>Composites Science and Technology</i> , 2018, 165, 362-372.	3.8	35
29	Influence of hybrid graphene oxide-carbon nanotube as a nano-filler on the interfacial interaction in nylon composites prepared by in situ interfacial polymerization. <i>Carbon</i> , 2018, 140, 324-337.	5.4	36
30	Recent development and challenges of multifunctional structural supercapacitors for automotive industries. <i>International Journal of Energy Research</i> , 2017, 41, 1397-1411.	2.2	79
31	Microwave-synthesized freestanding iron-carbon nanotubes on polyester composites of woven Kevlar fibre and silver nanoparticle-decorated graphene. <i>Scientific Reports</i> , 2017, 7, 40386.	1.6	38
32	Multifunctional enhancement of woven carbon fiber/ZnO nanotube-based structural supercapacitor and polyester resin-domain solid-polymer electrolytes. <i>Chemical Engineering Journal</i> , 2017, 325, 672-680.	6.6	66
33	Fabrication and Synthesis of Highly Ordered Nickel Cobalt Sulfide Nanowire-Grown Woven Kevlar Fiber/Reduced Graphene Oxide/Polyester Composites. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 36311-36319.	4.0	37
34	In situ assessment of carbon nanotube flow and filtration monitoring through glass fabric using electrical resistance measurement. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 90, 137-146.	3.8	24
35	Structural health monitoring of carbon-material-reinforced polymers using electrical resistance measurement. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2016, 3, 311-321.	2.7	36
36	Effects of process parameters and surface treatments of graphene nanoplatelets on the crystallinity and thermomechanical properties of polyamide 6 composite fibers. <i>Composites Part B: Engineering</i> , 2016, 100, 220-227.	5.9	40

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37	Multifunctional CuO nanowire embodied structural supercapacitor based on woven carbon fiber/ionic liquid-polyester resin. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 87, 256-262.	3.8	95
38	Electrical thermal heating and piezoresistive characteristics of hybrid CuO-woven carbon fiber/vinyl ester composite laminates. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 85, 103-112.	3.8	26
39	In situ process monitoring of hierarchical micro-/nano-composites using percolated carbon nanotube networks. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 84, 281-291.	3.8	20
40	Characterization of thermoelectric properties of multifunctional multiscale composites and fiber-reinforced composites for thermal energy harvesting. <i>Composites Part B: Engineering</i> , 2016, 92, 202-209.	5.9	37
41	Characterization of resistive heating and thermoelectric behavior of discontinuous carbon fiber-epoxy composites. <i>Composites Part B: Engineering</i> , 2016, 90, 37-44.	5.9	62
42	Highly wettable CuO:graphene oxide core-shell porous nanocomposites for enhanced critical heat flux. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 1756-1766.	0.8	31
43	Growth of aligned ZnO nanorods on woven Kevlar® fiber and its performance in woven Kevlar® fiber/polyester composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015, 78, 284-293.	3.8	50
44	Controlled growth of CuO nanowires on woven carbon fibers and effects on the mechanical properties of woven carbon fiber/polyester composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015, 69, 56-63.	3.8	50
45	Interlaminar resistive heating behavior of woven carbon fiber composite laminates modified with ZnO nanorods. <i>Composites Science and Technology</i> , 2014, 100, 83-91.	3.8	32
46	Large pulsed electron beam (LPEB)-processed woven carbon fiber/ZnO nanorod/polyester resin composites. <i>Composites Science and Technology</i> , 2014, 102, 106-112.	3.8	19
47	Modeling, processing, and characterization of exfoliated graphite nanoplatelet-nylon 6 composite fibers. <i>Composites Part B: Engineering</i> , 2014, 66, 511-517.	5.9	14
48	Processing and mechanical characterization of ZnO/polyester woven carbon fiber composites with different ZnO concentrations. <i>Composites Part A: Applied Science and Manufacturing</i> , 2013, 55, 152-160.	3.8	62
49	Piezoresistive behavior and multi-directional strain sensing ability of carbon nanotube-graphene nanoplatelet hybrid sheets. <i>Smart Materials and Structures</i> , 2013, 22, 015013.	1.8	48
50	Electromagnetic interference shielding of composites consisting of a polyester matrix and carbon nanotube-coated fiber reinforcement. <i>Composites Part A: Applied Science and Manufacturing</i> , 2013, 50, 73-80.	3.8	53