

Jonghwan Suhr

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

3,663
citations

201674

27
h-index

128289

60
g-index

74
all docs

74
docs citations

74
times ranked

5129
citing authors

#	ARTICLE	IF	CITATIONS
1	Composites with carbon nanotubes and graphene: An outlook. <i>Science</i> , 2018, 362, 547-553.	12.6	662
2	Viscoelasticity in carbon nanotube composites. <i>Nature Materials</i> , 2005, 4, 134-137.	27.5	443
3	Energy absorption capability of nanocomposites: A review. <i>Composites Science and Technology</i> , 2009, 69, 2392-2409.	7.8	422
4	Additive manufacturing of multi-directional preforms for composites: opportunities and challenges. <i>Materials Today</i> , 2015, 18, 503-512.	14.2	244
5	Characterizing energy dissipation in single-walled carbon nanotube polycarbonate composites. <i>Applied Physics Letters</i> , 2005, 87, 063102.	3.3	119
6	Microstructural design and additive manufacturing and characterization of 3D orthogonal short carbon fiber/acrylonitrile-butadiene-styrene preform and composite. <i>Composites Science and Technology</i> , 2016, 126, 139-148.	7.8	111
7	Three-Dimensional Nitrogen-Doped Multiwall Carbon Nanotube Sponges with Tunable Properties. <i>Nano Letters</i> , 2013, 13, 5514-5520.	9.1	110
8	Temperature-Activated Interfacial Friction Damping in Carbon Nanotube Polymer Composites. <i>Nano Letters</i> , 2006, 6, 219-223.	9.1	104
9	Hierarchical Porous Chitosan Sponges as Robust and Recyclable Adsorbents for Anionic Dye Adsorption. <i>Scientific Reports</i> , 2017, 7, 18054.	3.3	94
10	Utilizing interfaces in carbon nanotube reinforced polymer composites for structural damping. <i>Journal of Materials Science</i> , 2006, 41, 7824-7829.	3.7	88
11	All Biomass and UV Protective Composite Composed of Compatibilized Lignin and Poly (Lactic-acid). <i>Scientific Reports</i> , 2017, 7, .	3.3	78
12	Experimental and analytical investigation of mechanical damping and CTE of both SiO ₂ particle and carbon nanofiber reinforced hybrid epoxy composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2011, 42, 98-103.	7.6	69
13	Tensile properties of millimeter-long multi-walled carbon nanotubes. <i>Scientific Reports</i> , 2017, 7, 9512.	3.3	66
14	Enhancing interfacial properties of carbon fiber reinforced epoxy composites by grafting MXene sheets (Ti ₂ C). <i>Composites Part B: Engineering</i> , 2021, 207, 108580.	12.0	62
15	MXene-xanthan nanocomposite films with layered microstructure for electromagnetic interference shielding and Joule heating. <i>Chemical Engineering Journal</i> , 2021, 410, 128348.	12.7	55
16	Dynamic viscoelasticity of silica-filled styrene-butadiene rubber/polybutadiene rubber (SBR/BR) elastomer composites. <i>Composites Part B: Engineering</i> , 2020, 187, 107865.	12.0	52
17	UV-curing kinetics and performance development of in situ curable 3D printing materials. <i>European Polymer Journal</i> , 2017, 93, 140-147.	5.4	51
18	Superb electromagnetic wave-absorbing composites based on large-scale graphene and carbon nanotube films. <i>Scientific Reports</i> , 2017, 7, 2349.	3.3	51

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19	Composite Membrane Based on Graphene Oxide Sheets and Nafion for Polymer Electrolyte Membrane Fuel Cells. <i>ECS Electrochemistry Letters</i> , 2014, 4, F1-F4.	1.9	46
20	Low velocity impact resistance and energy absorption of environmentally friendly expanded cork core-carbon fiber sandwich composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 101, 290-296.	7.6	46
21	Experimental investigation of mechanical properties of UV-Curable 3D printing materials. <i>Polymer</i> , 2018, 145, 88-94.	3.8	45
22	Anisotropic electromagnetic interference shielding properties of polymer-based composites with magnetically-responsive aligned Fe ₃ O ₄ decorated reduced graphene oxide. <i>European Polymer Journal</i> , 2020, 127, 109595.	5.4	41
23	Interfacial shear strength of reduced graphene oxide polymer composites. <i>Carbon</i> , 2014, 77, 390-397.	10.3	40
24	A flexible supercapacitor based on vertically oriented "Graphene Forest" electrodes. <i>Journal of Materials Chemistry A</i> , 2015, 3, 21875-21881.	10.3	39
25	Quantitative Interpretation of Electromagnetic Interference Shielding Efficiency: Is It Really a Wave Absorber or a Reflector?. <i>ACS Omega</i> , 2022, 7, 4135-4139.	3.5	35
26	Mechanical properties of nanocomposites reinforced by carbon nanotube sponges. <i>Journal of Materiomics</i> , 2018, 4, 157-164.	5.7	32
27	Lightweight graphene oxide-based sponges with high compressibility and durability for dye adsorption. <i>Carbon</i> , 2020, 160, 54-63.	10.3	30
28	Carbon aerogel reinforced PDMS nanocomposites with controllable and hierarchical microstructures for multifunctional wearable devices. <i>Carbon</i> , 2021, 171, 758-767.	10.3	29
29	Natural Cork Agglomerate Employed as an Environmentally Friendly Solution for Quiet Sandwich Composites. <i>Scientific Reports</i> , 2012, 2, 403.	3.3	28
30	Accelerated Aging and Lifetime Prediction of Graphene-Reinforced Natural Rubber Composites. <i>Macromolecular Research</i> , 2018, 26, 998-1003.	2.4	26
31	Solvent-free bulk polymerization of lignin-polycaprolactone (PCL) copolymer and its thermoplastic characteristics. <i>Scientific Reports</i> , 2019, 9, 7033.	3.3	25
32	All natural cork composites with suberin-based polyester and lignocellulosic residue. <i>Industrial Crops and Products</i> , 2017, 109, 843-849.	5.2	20
33	Rheological and mechanical properties of polypropylene composites containing microfibrillated cellulose (MFC) with improved compatibility through surface silylation. <i>Cellulose</i> , 2019, 26, 1085-1097.	4.9	18
34	Investigation of laser powder bed fusion manufacturing and post-processing for surface quality of as-built 17-4PH stainless steel. <i>Surface and Coatings Technology</i> , 2021, 422, 127492.	4.8	18
35	Quantitative Electrode Design Modeling of an Electroadhesive Lifting Device Based on the Localized Charge Distribution and Interfacial Polarization of Different Objects. <i>ACS Omega</i> , 2019, 4, 7994-8000.	3.5	17
36	Effects of functional carbon nanodots on water hyacinth response to Cd/Pb stress: Implication for phytoremediation. <i>Journal of Environmental Management</i> , 2021, 299, 113624.	7.8	15

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37	Aperture control in polymer-based composites with hybrid core-shell spheres for frequency-selective electromagnetic interference shielding. <i>Journal of Materials Chemistry A</i> , 2022, 10, 8751-8760.	10.3	15
38	Highly Anisotropic Adhesive Film Made from Upside-Down, Flat, and Uniform Vertically Aligned CNTs. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 34061-34067.	8.0	13
39	Development of reversibly compressible feather-like lightweight Chitosan/GO composite foams and their mechanical and viscoelastic properties. <i>Carbon</i> , 2020, 157, 191-200.	10.3	13
40	3D printing of free-standing Ti ₃ C ₂ T _x /PEO architecture for electromagnetic interference shielding. <i>Polymer</i> , 2021, 236, 124312.	3.8	13
41	Experimental Investigation on 3D Graphene-CNT Hybrid Foams with Different Interactions. <i>Nanomaterials</i> , 2018, 8, 694.	4.1	12
42	Bio-inspired multiple-stimuli responsive porous materials with switchable flexibility and programmable shape morphing capability. <i>Carbon</i> , 2020, 161, 702-711.	10.3	12
43	Natural cork agglomerate enabled mechanically robust rigid polyurethane foams with outstanding viscoelastic damping properties. <i>Polymer</i> , 2021, 217, 123437.	3.8	12
44	Hyperelasticity of three-dimensional carbon nanotube sponge controlled by the stiffness of covalent junctions. <i>Carbon</i> , 2015, 95, 640-645.	10.3	11
45	Determination of material constants of vertically aligned carbon nanotube structures in compressions. <i>Nanotechnology</i> , 2015, 26, 245701.	2.6	11
46	Non-Einstein Viscosity Phenomenon of Acrylonitrile-Butadiene-Styrene Composites Containing Lignin-Polycaprolactone Particulates Highly Dispersed by High-Shear Stress. <i>ACS Omega</i> , 2019, 4, 10036-10043.	3.5	11
47	All-Cellulose Paper with High Optical Transmittance and Haze Fabricated via Electrophoretic Deposition. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 11110-11117.	6.7	9
48	Mechanical properties and flame retardancy of surface modified magnesium oxysulfate (5Mg(OH) ₂ ·MgSO ₄ ·3H ₂ O) whisker for polypropylene composites. <i>Journal of Materiomics</i> , 2018, 4, 149-156.	5.7	8
49	Noncovalently assembled nanotubular porous layers for delaying of heating surface failure. <i>Scientific Reports</i> , 2014, 4, 6817.	3.3	7
50	Nanoplatelet reinforcement of cavity cell walls in polymer foams using carbon dioxide supercritical fluid. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46615.	2.6	7
51	Semi-empirical investigation of the interfacial shear strength of short fiber polymer composites. <i>Polymer Testing</i> , 2019, 74, 99-103.	4.8	7
52	Forced infiltration of silica beads into densely-packed glass fibre beds for thin composite laminates. <i>RSC Advances</i> , 2016, 6, 91341-91348.	3.6	6
53	Controllable and Predictable Viscoelastic Behavior of 3D Boron-Doped Multiwalled Carbon Nanotube Sponges. <i>Particle and Particle Systems Characterization</i> , 2016, 33, 21-26.	2.3	6
54	A Suggested Vacuum Bagging Process for the Fabrication of Single-Walled Carbon Nanotube/Epoxy Composites That Maximize Electromagnetic Interference Shielding Effectiveness. <i>Polymers</i> , 2021, 13, 1867.	4.5	6

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55	Polyamide-nylon 6 particulate polycarbonate composites with outstanding energy-absorbing properties. <i>Polymer</i> , 2022, 254, 125082.	3.8	6
56	Vertical Graphene Canal Mesh for Strain Sensing with a Supereminent Resolution. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 32387-32394.	8.0	6
57	Lifting-Force Maximization of a Micropatterned Electroadhesive Device Comparable to the Human-Finger Grip. <i>ACS Applied Electronic Materials</i> , 2020, 2, 1596-1602.	4.3	5
58	Natural Cork Suberin-Originated Ecofriendly Biopolyester Syntactic Foam. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 7508-7514.	6.7	5
59	Experimental and numerical investigation of 17 μ m 4PH stainless steel fabricated by laser powder bed fusion and hot isostatic pressing. <i>Materials Research Express</i> , 2021, 8, 106512.	1.6	4
60	Natural cork/potato periderm derivatives enabled interface engineering of elastomer composites for tunable energy-absorbing capabilities. <i>Industrial Crops and Products</i> , 2021, 170, 113763.	5.2	4
61	Design optimization of smartphone camera housing fabricated by laser powder bed fusion using thermal analysis. <i>Journal of Mechanical Science and Technology</i> , 2022, 36, 699-708.	1.5	4
62	INVESTIGATION OF MECHANICAL DAMPING CHARACTERISTIC IN SHORT FIBERGLASS REINFORCED POLYCARBONATE COMPOSITES. <i>Modern Physics Letters B</i> , 2013, 27, 1350108.	1.9	3
63	A strategy to synthesize graphene-incorporated lignin polymer composite materials with uniform graphene dispersion and covalently bonded interface engineering. <i>Korea Australia Rheology Journal</i> , 2017, 29, 207-213.	1.7	3
64	Use of Nanoindentation, Finite Element Simulations, and a Combined Experimental/Numerical Approach to Characterize Elastic Moduli of Individual Porous Silica Particles. <i>Particulate Science and Technology</i> , 2015, 33, 213-218.	2.1	2
65	Multi-step cure kinetic model of ultra-thin glass fiber epoxy prepreg exhibiting both autocatalytic and diffusion-controlled regimes under isothermal and dynamic-heating conditions. <i>Korea Australia Rheology Journal</i> , 2017, 29, 157-162.	1.7	2
66	Adhesion and failure analysis of metal-polymer interface in flexible printed circuits boards. <i>Journal of the Korean Physical Society</i> , 2017, 71, 1019-1026.	0.7	2
67	Capturing Polar and Nonpolar Particles with an Electroadhesive Device Using Interfacial and Orientational Polarization. <i>ACS Sustainable Chemistry and Engineering</i> , 0, , .	6.7	2
68	Porous Carbon Boosted Non-Enzymatic Glutamate Detection with Ultra-High Sensitivity in Broad Range Using Cu Ions. <i>Nanomaterials</i> , 2022, 12, 1987.	4.1	2
69	Toughening mechanisms of thermoplastic particulate polycarbonate composites. , 2012, , .		1
70	Determination of local debonding stress and investigation of its effect on mechanical properties of glass short fiber reinforced polycarbonate composites. , 2012, , .		1
71	Effect of geometry and loading fractions on energy absorbing properties of fiberglass polymer composite under quasi-static and low-velocity impact loadings. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	2.6	0