

Wenbo Liu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5984807/publications.pdf>

Version: 2024-02-01

78
papers

2,474
citations

201674

27
h-index

206112

48
g-index

79
all docs

79
docs citations

79
times ranked

3038
citing authors

#	ARTICLE	IF	CITATIONS
1	Control of the functionality of graphene oxide for its application in epoxy nanocomposites. <i>Polymer</i> , 2013, 54, 6437-6446.	3.8	252
2	Preparation of a carbon nanotube/carbon fiber multi-scale reinforcement by grafting multi-walled carbon nanotubes onto the fibers. <i>Carbon</i> , 2007, 45, 2559-2563.	10.3	204
3	Surface modification of self-healing poly(urea-formaldehyde) microcapsules using silane-coupling agent. <i>Applied Surface Science</i> , 2008, 255, 1894-1900.	6.1	168
4	The role of functional groups on graphene oxide in epoxy nanocomposites. <i>Polymer</i> , 2013, 54, 5821-5829.	3.8	163
5	Hydrogen storage using Na-decorated graphyne and its boron nitride analog. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 12757-12764.	7.1	100
6	Fabrication of carbon nanotubes/carbon fiber hybrid fiber in industrial scale by sizing process. <i>Applied Surface Science</i> , 2013, 284, 914-920.	6.1	78
7	Scalable exfoliation for large-size boron nitride nanosheets by low temperature thermal expansion-assisted ultrasonic exfoliation. <i>Journal of Materials Chemistry C</i> , 2017, 5, 6359-6368.	5.5	76
8	Improving the gas barrier properties of Fe ₃ O ₄ /graphite nanoplatelet reinforced nanocomposites by a low magnetic field induced alignment. <i>Composites Science and Technology</i> , 2014, 99, 124-130.	7.8	71
9	Attapulgate/graphene oxide hybrids as thermal and mechanical reinforcements for epoxy composites. <i>Composites Science and Technology</i> , 2013, 87, 29-35.	7.8	63
10	Preparation and characterization of self-healing microcapsules with poly(urea-formaldehyde) grafted epoxy functional group shell. <i>Journal of Applied Polymer Science</i> , 2009, 113, 1501-1506.	2.6	59
11	Prediction of hydrogen storage on Y-decorated graphene: A density functional theory study. <i>Applied Surface Science</i> , 2014, 296, 204-208.	6.1	59
12	Interfacial reinforcement of hybrid composite by electrophoretic deposition for vertically aligned carbon nanotubes on carbon fiber. <i>Composites Science and Technology</i> , 2020, 187, 107946.	7.8	51
13	Preparation of carbon fiber unsaturated sizing agent for enhancing interfacial strength of carbon fiber/vinyl ester resin composite. <i>Applied Surface Science</i> , 2018, 439, 88-95.	6.1	49
14	Surface modification and magnetic alignment of hexagonal boron nitride nanosheets for highly thermally conductive composites. <i>RSC Advances</i> , 2017, 7, 43380-43389.	3.6	48
15	Properties of carbon fiber sized with poly(phthalazinone ether ketone) resin. <i>Journal of Applied Polymer Science</i> , 2013, 128, 3702-3709.	2.6	44
16	Effects of modified attapulgate on the properties of attapulgate/epoxy nanocomposites. <i>Polymer Composites</i> , 2013, 34, 22-31.	4.6	40
17	Enhanced and tunable photochromism of MoO ₃ butylamine organic-inorganic hybrid composites. <i>Journal of Materials Chemistry C</i> , 2017, 5, 427-433.	5.5	39
18	Anti-Freezing Self-Adhesive Self-Healing Degradable Touch Panel with Ultra-Stretchable Performance Based on Transparent Triboelectric Nanogenerators. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	39

#	ARTICLE	IF	CITATIONS
19	Surface and interface properties of carbon fiber composites under cyclical aging. <i>Applied Surface Science</i> , 2011, 257, 10459-10464.	6.1	38
20	Molecular dynamics simulations of the effect of sizing agent on the interface property in carbon fiber reinforced vinyl ester resin composite. <i>Applied Surface Science</i> , 2019, 479, 1192-1199.	6.1	38
21	Improvement in interfacial shear strength and fracture toughness for carbon fiber reinforced epoxy composite by fiber sizing. <i>Polymer Composites</i> , 2014, 35, 482-488.	4.6	37
22	Preparation of MoO ₃ QDs through combining intercalation and thermal exfoliation. <i>Journal of Materials Chemistry C</i> , 2016, 4, 6720-6726.	5.5	37
23	Slippage coefficient measurement for non-geodesic filament-winding process. <i>Composites Part A: Applied Science and Manufacturing</i> , 2011, 42, 303-309.	7.6	34
24	Biomimic Hairy Skin Tactile Sensor Based on Ferromagnetic Microwires. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 33848-33855.	8.0	33
25	Synthesis and characterization of chitosan/urea-formaldehyde shell microcapsules containing dicyclopentadiene. <i>Journal of Applied Polymer Science</i> , 2011, 121, 2202-2212.	2.6	31
26	Effect of arc spraying power on the microstructure and mechanical properties of Zn-Al coating deposited onto carbon fiber reinforced epoxy composites. <i>Applied Surface Science</i> , 2010, 257, 203-209.	6.1	29
27	Improvement of interfacial properties of carbon fiber reinforced poly(phthalazinone ether ketone) composites by introducing carbon nanotube to the interphase. <i>Polymer Composites</i> , 2015, 36, 26-33.	4.6	29
28	The effect of triangle-shape carbon fiber on the flexural properties of the carbon fiber reinforced plastics. <i>Materials Letters</i> , 2012, 73, 21-23.	2.6	27
29	Photothermally induced scratch healing effects of thermoplastic nanocomposites with gold nanoparticles. <i>Composites Science and Technology</i> , 2016, 133, 165-172.	7.8	24
30	Mechanical properties of carbon nanotube/carbon fiber reinforced thermoplastic polymer composite. <i>Polymer Composites</i> , 2017, 38, 2001-2008.	4.6	24
31	Improving the interfacial property of carbon fiber/vinyl ester resin composite by grafting modification of sizing agent on carbon fiber surface. <i>Journal of Materials Science</i> , 2017, 52, 13812-13828.	3.7	23
32	Study on Damage Evaluation and Machinability of UD-CFRP for the Orthogonal Cutting Operation Using Scanning Acoustic Microscopy and the Finite Element Method. <i>Materials</i> , 2017, 10, 204.	2.9	23
33	Preparation of quantum dots from MoO ₃ nanosheets by UV irradiation and insight into morphology changes. <i>Journal of Materials Chemistry C</i> , 2016, 4, 11449-11456.	5.5	22
34	Study of structure-mechanical heterogeneity of polyacrylonitrile-based carbon fiber monofilament by plasma etching-assisted radius profiling. <i>Carbon</i> , 2017, 114, 317-323.	10.3	22
35	Improving the interfacial strength of carbon fiber/vinyl ester resin composite by self-migration of acrylamide: A molecular dynamics simulation. <i>Applied Surface Science</i> , 2018, 454, 74-81.	6.1	22
36	Dome Thickness Prediction of Composite Pressure Vessels by a Cubic Spline Function and Finite Element Analysis. <i>Polymers and Polymer Composites</i> , 2011, 19, 227-234.	1.9	21

#	ARTICLE	IF	CITATIONS
37	The effect of synthesis condition on physical properties of epoxy-containing microcapsules. Journal of Applied Polymer Science, 2012, 124, 1866-1879.	2.6	21
38	Preparation and characterization of novel film adhesives based on cyanate ester resin for bonding advanced radome. International Journal of Adhesion and Adhesives, 2016, 68, 80-86.	2.9	20
39	Surface Modification of Poly(urea-formaldehyde) Microcapsules and the Effect on the Epoxy Composites Performance. Journal of Macromolecular Science - Pure and Applied Chemistry, 2010, 47, 991-995.	2.2	19
40	Microstructure and mechanical properties of PbSn alloys deposited on carbon fiber reinforced epoxy composites. Journal of Alloys and Compounds, 2010, 505, 348-351.	5.5	19
41	Effect of thermal-oxidative aging on carbon fibre-bismaleimide composites. Pigment and Resin Technology, 2012, 41, 34-41.	0.9	18
42	<sc>DFT</sc> study of hydrogen adsorption on Eu-decorated single- and double-sided graphene. Physica Status Solidi (B): Basic Research, 2014, 251, 229-234.	1.5	18
43	Study on phenolphthalein poly(ether sulfone)-modified cyanate ester resin and epoxy resin blends. Polymer Engineering and Science, 2015, 55, 2591-2602.	3.1	18
44	Remarkable improvement in interfacial shear strength of carbon fiber/epoxy composite by large-scale sizing with epoxy sizing agent containing amine-treated MWCNTs. Polymer Composites, 2018, 39, 2734-2742.	4.6	18
45	Skin-inspired self-healing semiconductive touch panel based on novel transparent stretchable hydrogels. Journal of Materials Chemistry A, 2021, 9, 14806-14817.	10.3	17
46	Preparation and Characterization of Self-healing Polymeric Materials with Microencapsulated Epoxy and Imidazoline Derivatives Curing Agent. Polymers and Polymer Composites, 2011, 19, 279-288.	1.9	16
47	Oxidative etching of MoS ₂ /WS ₂ nanosheets to their QDs by facile UV irradiation. Physical Chemistry Chemical Physics, 2016, 18, 31211-31216.	2.8	14
48	Fabrication of a novel separation-free heterostructured photocatalyst with enhanced visible light activity in photocatalytic degradation of antibiotics. Journal of Materials Chemistry A, 2022, 10, 3146-3158.	10.3	13
49	Propulsive efficiency and structural response of a sandwich composite propeller. Applied Ocean Research, 2019, 84, 250-258.	4.1	12
50	Ultra-high gas barrier composites with aligned graphene flakes and polyethylene molecules for high-pressure gas storage tanks. Journal of Energy Storage, 2021, 40, 102692.	8.1	12
51	Ultra-Stretchable Self-Healing Composite Hydrogels as Touch Panel. Advanced Materials Interfaces, 2021, 8, 2100742.	3.7	10
52	Photothermal healing of a glass fiber reinforced composite interface by gold nanoparticles. RSC Advances, 2015, 5, 102167-102172.	3.6	9
53	Improving the propulsion performance of composite propellers under off-design conditions. Applied Ocean Research, 2020, 100, 102164.	4.1	7
54	Compatibility and Anti-oxidation Properties of Study on Liquid Oxygen Compatibility with Nano-modified Epoxy Composites. Polymers and Polymer Composites, 2011, 19, 351-356.	1.9	6

#	ARTICLE	IF	CITATIONS
55	Interfacial healing of carbon fiber composites in the presence of gold nanoparticles as localized nano-heaters. RSC Advances, 2015, 5, 5680-5685.	3.6	6
56	Tensile Properties of Epoxy with Microcapsules and Imidazoline Derivatives Curing Agent and Interlaminar Self-Healing Properties of Carbon Fiber Reinforced Epoxy Composites. Polymers and Polymer Composites, 2014, 22, 293-298.	1.9	5
57	Dielectric property of unidirectional triangle-shape carbon fiber reinforced polymeric composites. Journal of Composite Materials, 2014, 48, 1143-1151.	2.4	5
58	Molecular dynamics simulation of the influence of sizing agent on the interfacial properties of sized carbon fiber/vinyl ester resin composite modified by self-migration method. Composite Interfaces, 2021, 28, 445-459.	2.3	5
59	Toughening Self-healing Epoxy Resin by Addition of Microcapsules. Polymers and Polymer Composites, 2011, 19, 223-226.	1.9	4
60	MD Simulation of Single-wall Carbon Nanotubes Employed as Container in Self-healing Materials. Polymers and Polymer Composites, 2011, 19, 333-338.	1.9	4
61	The B-basis Value of the Shearing Strength of Triangle-Shape Carbon Fibers Reinforced Plastics. Polymers and Polymer Composites, 2011, 19, 327-332.	1.9	4
62	Delamination growth behavior in carbon fiber reinforced plastic angle ply laminates under compressive fatigue loads. Journal of Reinforced Plastics and Composites, 2012, 31, 259-267.	3.1	4
63	Prediction of the transverse Young's modulus of unidirectional triangle-section carbon fiber reinforced plastics. International Journal of Materials Research, 2012, 103, 513-517.	0.3	4
64	Study on rheological behavior of vinyl ester resin during thickening. Journal of Vinyl and Additive Technology, 2018, 24, 239-247.	3.4	4
65	Preparation and characterization of self-healing poly (urea-formaldehyde) microcapsules. , 2007, , .		3
66	Optimal Design of Lightweight Composite Pressure Vessel by Using Artificial Immune Algorithm. Polymers and Polymer Composites, 2014, 22, 323-328.	1.9	3
67	Interfacial Properties of Nano-Silica Modified Cfrps under Cryogenic Condition. Polymers and Polymer Composites, 2014, 22, 269-274.	1.9	3
68	Study on Hygrothermal Properties of Carbon Fiber Reinforced Composites Aged in Cyclic Environment. Polymers and Polymer Composites, 2011, 19, 313-318.	1.9	2
69	Effect of Arc Spraying Power on the Microstructure and Mechanical Properties of Pb-Sn Coating Deposited onto Carbon Fiber Reinforced Epoxy Composites. Polymers and Polymer Composites, 2011, 19, 289-294.	1.9	1
70	Effect of Fiber Surface on the Interfacial Properties for Carbon Fiber Reinforced Polymer Composites. Polymers and Polymer Composites, 2014, 22, 283-288.	1.9	1
71	Preparation and Properties of Mdi-Based Polyester Polyurethane Elastomer. Polymers and Polymer Composites, 2014, 22, 341-346.	1.9	1
72	Calibrating conservative and dissipative response of electrically-driven quartz tuning forks. Ultramicroscopy, 2017, 174, 106-111.	1.9	1

#	ARTICLE	IF	CITATIONS
73	Effects of nanoparticles on hygrothermal property of epoxy resin composites. , 2009, , .		0
74	Effect of different cross-section types on mechanical properties and electromagnetic properties of carbon fibers reinforced plastics. Proceedings of SPIE, 2009, , .	0.8	0
75	Effects of Tougheners and Thermo-oxidative Aging on Bending Properties of Carbon Fiber/bis-maleimide Composites. Polymers and Polymer Composites, 2011, 19, 155-160.	1.9	0
76	Prediction of Delamination Buckling and Growth Behavior in Laminated Composites with Coexisting Delaminations. Polymers and Polymer Composites, 2014, 22, 299-308.	1.9	0
77	Hydrogen Adsorption on Ca-Decorated Epoxy-Coating Graphene. Polymers and Polymer Composites, 2014, 22, 141-146.	1.9	0
78	The Effect of Crack Resistance Layer on Ballistic Performance of Laminated Composites. Polymers and Polymer Composites, 2014, 22, 177-180.	1.9	0