

Yan Zhao

List of Publications by Year in descending order

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99
papers

2,881
citations

218677
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189892
50
g-index

99
all docs

99
docs citations

99
times ranked

4108
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-scale computation methods: Their applications in lithium-ion battery research and development. Chinese Physics B, 2016, 25, 018212.	1.4	449
2	A Highly Elastic and Reversibly Stretchable All-Polymer Supercapacitor. Angewandte Chemie - International Edition, 2019, 58, 15707-15711.	13.8	181
3	Enhanced interfacial interactions of carbon fiber reinforced PEEK composites by regulating PEI and graphene oxide complex sizing at the interface. Composites Science and Technology, 2018, 154, 175-186.	7.8	180
4	Development of a Wearable-Sensor-Based Fall Detection System. International Journal of Telemedicine and Applications, 2015, 2015, 1-11.	2.0	140
5	Synthesis and electrocatalytic alcohol oxidation performance of Pd-Co bimetallic nanoparticles supported on graphene. International Journal of Hydrogen Energy, 2014, 39, 1325-1335.	7.1	102
6	Pd/Cu bimetallic nanoparticles supported on graphene nanosheets: Facile synthesis and application as novel electrocatalyst for ethanol oxidation in alkaline media. International Journal of Hydrogen Energy, 2014, 39, 14669-14679.	7.1	101
7	Effect of temperature and cyclic hygrothermal aging on the interlaminar shear strength of carbon fiber/bismaleimide (BMI) composite. Materials & Design, 2011, 32, 4341-4347.	5.1	100
8	Laser-Induced Graphene from Wood Impregnated with Metal Salts and Use in Electrocatalysis. ACS Applied Nano Materials, 2018, 1, 5053-5061.	5.0	95
9	Diazonium functionalization of graphene nanosheets and impact response of aniline modified graphene/bismaleimide nanocomposites. Materials & Design, 2014, 53, 466-474.	5.1	90
10	3D hierarchical Co ₃ O ₄ /Reduced graphene oxide/melamine derived carbon foam as a comprehensive microwave absorbing material. Journal of Alloys and Compounds, 2019, 792, 424-431.	5.5	75
11	Enhanced interfacial properties of carbon fiber/epoxy composites by coating carbon nanotubes onto carbon fiber surface by one-step dipping method. Applied Surface Science, 2021, 546, 149135.	6.1	61
12	Lead-Free Double Perovskite Cs ₂ SnX ₆ : Facile Solution Synthesis and Excellent Stability. Small, 2019, 15, e1901650.	10.0	56
13	Recent Advances in Electrode Fabrication for Flexible Energy Storage Devices. Advanced Materials Technologies, 2019, 4, 1900083.	5.8	54
14	Mechanical and electromagnetic interference shielding properties of carbon fiber/graphene nanosheets/epoxy composite. Polymer Composites, 2016, 37, 2494-2502.	4.6	44
15	A Highly Elastic and Reversibly Stretchable All-Polymer Supercapacitor. Angewandte Chemie, 2019, 131, 15854-15858.	2.0	42
16	Preparation of Ni-reduced graphene oxide nanocomposites by Pd-activated electroless deposition and their magnetic properties. Applied Surface Science, 2012, 258, 8603-8608.	6.1	40
17	Facile synthesis of flower-like cobalt sulfide hierarchitectures with superior electrode performance for supercapacitors. Journal of Alloys and Compounds, 2017, 712, 139-146.	5.5	40
18	Enhanced interfacial strength of carbon fiber/PEEK composites using a facile approach via PEI&ZIF-67 synergistic modification. Journal of Materials Research and Technology, 2019, 8, 6289-6300.	5.8	39

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19	Low-Cost Oriented Hierarchical Growth of BiVO ₄ /rGO/NiFe Nanoarrays Photoanode for Photoelectrochemical Water Splitting. ACS Sustainable Chemistry and Engineering, 2018, 6, 14695-14703.	6.7	38
20	Ultra-Stiff Graphene Foams as Three-Dimensional Conductive Fillers for Epoxy Resin. ACS Nano, 2018, 12, 11219-11228.	14.6	37
21	A Green Route to a Low Cost Anisotropic MoS ₂ /Poly(Vinylidene Fluoride) Nanocomposite with Ultrahigh Electroactive Phase and Improved Electrical and Mechanical Properties. ACS Sustainable Chemistry and Engineering, 2018, 6, 5043-5052.	6.7	35
22	Effect of polyetherimide sizing on surface properties of carbon fiber and interfacial strength of carbon fiber/polyetheretherketone composites. Polymer Composites, 2021, 42, 931-943.	4.6	34
23	Thermal curing of novel carborane-containing phenylethynyl terminated imide oligomers. RSC Advances, 2015, 5, 98010-98019.	3.6	32
24	Effective improvement on microwave absorbing performance of epoxy resin-based composites with 3D MXene foam prepared by one-step impregnation method. Composites Part A: Applied Science and Manufacturing, 2021, 150, 106594.	7.6	32
25	Palladium nanoparticles supported on reduced graphene oxide: Facile synthesis and highly efficient electrocatalytic performance for methanol oxidation. Thin Solid Films, 2013, 544, 88-92.	1.8	31
26	Cure Cycle Optimization of Rapidly Cured Out-Of-Autoclave Composites. Materials, 2018, 11, 421.	2.9	29
27	A Wearable Supercapacitor Engaged with Gold Leaf Gilding Cloth Toward Enhanced Practicability. ACS Applied Materials & Interfaces, 2018, 10, 21297-21305.	8.0	28
28	One-Pot Synthesis of Functionalized Holey Graphene/Sulfur Composite for Lithium-Sulfur Batteries. Advanced Materials Interfaces, 2017, 4, 1700783.	3.7	27
29	Fabrication of Silicone Rubber Foam with Tailored Porous Structures by Supercritical CO ₂ . Macromolecular Materials and Engineering, 2017, 302, 1600377.	3.6	25
30	Improving tribological performance of epoxy composite by reinforcing with polyetheramine-functionalized graphene oxide. Journal of Materials Research and Technology, 2021, 12, 1516-1529.	5.8	25
31	Effect of preheat treatment on carbon fiber surface properties and fiber/PEEK interfacial behavior. Polymer Composites, 2019, 40, E1407.	4.6	24
32	Mild solution synthesis of graphene loaded with LiFePO ₄ -C nanoplatelets for high performance lithium ion batteries. New Journal of Chemistry, 2015, 39, 1094-1100.	2.8	23
33	Preparation of Phosphonic Acid Functionalized Graphene Oxide-modified Aluminum Powder with Enhanced Anticorrosive Properties. Applied Surface Science, 2017, 411, 235-239.	6.1	22
34	An experimental investigation of compaction behavior of carbon non-crimp fabrics for liquid composite molding. Journal of Materials Science, 2015, 50, 2960-2972.	3.7	21
35	The Analysis of FBG Central Wavelength Variation with Crack Propagation Based on a Self-Adaptive Multi-Peak Detection Algorithm. Sensors, 2019, 19, 1056.	3.8	21
36	Silver nanoparticles cross-linked polyimide aerogels with improved high temperature microstructure stabilities and high mechanical performances. Microporous and Mesoporous Materials, 2020, 297, 110035.	4.4	20

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37	Polyimide Aerogels Cross-Linked with Aminated Ag Nanowires: Mechanically Strong and Tough. <i>Polymers</i> , 2017, 9, 530.	4.5	19
38	Spatiotemporal dynamics of urban expansion and its simulation using CA-ANN model in Ulaanbaatar, Mongolia. <i>Geocarto International</i> , 2022, 37, 494-509.	3.5	19
39	Ultralight and heat-insulating mesoporous polyimide aerogels cross-linked with aminated SiO ₂ nanoparticles. <i>Microporous and Mesoporous Materials</i> , 2021, 319, 111074.	4.4	18
40	Combined effect of graphene oxide and MWCNTs on microwave absorbing performance of epoxy composites. <i>Polymers for Advanced Technologies</i> , 2015, 26, 620-625.	3.2	17
41	CeO ₂ /Ti ₃ C ₂ T _x MXene Nanostructures for Microwave Absorption. <i>ACS Applied Nano Materials</i> , 2022, 5, 5764-5775.	5.0	17
42	Composition, Structure and Morphology Evolution of Octadecylamine (ODA)-Reduced Graphene Oxide and Its Dispersion Stability under Different Reaction Conditions. <i>Materials</i> , 2018, 11, 1710.	2.9	16
43	High-efficiency enhancement on thermal and electrical properties of epoxy nanocomposites with core-shell carbon foam template-coated graphene. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 120, 95-105.	7.6	16
44	Fabrication and characterization of the thermoplastic and thermoset syntactic foam core-based sandwich composites. <i>Polymer Composites</i> , 2020, 41, 3052-3061.	4.6	16
45	Dependence of Dielectric Properties and Percolative Behavior on Phase Separation Structure Induced by Heterogeneous Carbon Nanofiber Distribution in Polymer Blend Nanocomposites. <i>Macromolecular Materials and Engineering</i> , 2011, 296, 992-1001.	3.6	15
46	Error analysis of calibration parameters estimation for binocular stereo vision system. , 2013, , .		15
47	Effect of sizing on the interfacial shear strength of carbon fiber/epoxy resin monofilament composite. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2014, 29, 483-487.	1.0	14
48	Interfacial crystallization behavior of poly(ether-ether-ketone) on polyimide-modified CCF300 carbon fibers. <i>Polymer Composites</i> , 2020, 41, 2433-2445.	4.6	14
49	Friction and mechanical properties of amino-treated graphene-filled epoxy composites: modification conditions and filler content. <i>RSC Advances</i> , 2020, 10, 26646-26657.	3.6	13
50	Low Infrared Emissivity Coating Based on Graphene Surface-Modified Flaky Aluminum. <i>Materials</i> , 2018, 11, 1502.	2.9	12
51	MRI image synthesis with dual discriminator adversarial learning and difficulty-aware attention mechanism for hippocampal subfields segmentation. <i>Computerized Medical Imaging and Graphics</i> , 2020, 86, 101800.	5.8	12
52	Pd-TiO ₂ nanoparticles supported on reduced graphene oxide: Green synthesis and improved electrocatalytic performance for methanol oxidation. <i>Journal of Electroanalytical Chemistry</i> , 2017, 799, 84-91.	3.8	11
53	A comprehensive study on controlling the porosity of CCF300/PEEK composites by optimizing the impregnation parameters. <i>Polymer Composites</i> , 2018, 39, 3765-3779.	4.6	11
54	Long-term stably dispersed functionalized graphene oxide as an oil additive. <i>RSC Advances</i> , 2019, 9, 39230-39241.	3.6	11

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55	Multiscale enhancement behavior of nano-silica modified CF/PEEK composites prepared by wet powder impregnation. <i>Polymer Composites</i> , 2019, 40, 1187-1197.	4.6	11
56	Ni-Co-Based Nanowire Arrays with Hierarchical Core-Shell Structure Electrodes for High-Performance Supercapacitors. <i>ACS Applied Energy Materials</i> , 2020, 3, 7580-7587.	5.1	11
57	The effect of cooling rate on resistance-welded CF/PEEK joints. <i>Journal of Materials Research and Technology</i> , 2021, 12, 53-62.	5.8	11
58	The effect of poor solvent on the microstructures and thermal insulation performance of polyimide aerogels. <i>Materials Letters</i> , 2021, 300, 130151.	2.6	11
59	Denoising of the Fiber Bragg Grating Deformation Spectrum Signal Using Variational Mode Decomposition Combined with Wavelet Thresholding. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 180.	2.5	10
60	Decomposition of individual-specific and individual-shared components from resting-state functional connectivity using a multi-task machine learning method. <i>NeuroImage</i> , 2021, 238, 118252.	4.2	10
61	Detection of Crack Locations in Aluminum Alloy Structures Using FBG Sensors. <i>Sensors</i> , 2020, 20, 347.	3.8	9
62	Functionalized carbon fibers with MXene via electrochemistry aryl diazonium salt reaction to improve the interfacial properties of carbon fiber/epoxy composites. <i>Journal of Materials Research and Technology</i> , 2022, 19, 3699-3712.	5.8	9
63	Preparation and Properties of C/C Hollow Spheres and the Energy Absorption Capacity of the Corresponding Aluminum Syntactic Foams. <i>Materials</i> , 2018, 11, 997.	2.9	8
64	Improved interlaminar crack resistance of glass fiber/poly (phenylene sulfide) thermoplastic composites modified with multiwalled carbon nanotubes. <i>Polymer Composites</i> , 2019, 40, 4186-4195.	4.6	8
65	Mitigation of Ionospheric Scintillation Effects on GNSS Signals with VMD-MFDFA. <i>Remote Sensing</i> , 2019, 11, 2867.	4.0	8
66	Effects of polyetherimide sizing involving carbon nanotubes on interfacial performance of carbon fiber/polyetheretherketone composites. <i>Polymers for Advanced Technologies</i> , 2021, 32, 3689-3700.	3.2	8
67	Ultralight hard carbon nanotubes nanofiber foam/epoxy nanocomposites for comprehensive microwave absorption performance. <i>Polymer Composites</i> , 2021, 42, 4673-4683.	4.6	8
68	Accelerometer error estimation and compensation for three-axis gyro-stabilized camera mount based on proportional multiple-integral observer. <i>Science China Technological Sciences</i> , 2014, 57, 2387-2395.	4.0	7
69	Enhanced adhesion between PEEK and stainless-steel mesh in resistance welding of CF/PEEK composites by various surface treatments. <i>High Performance Polymers</i> , 2021, 33, 892-904.	1.8	7
70	Effect of Sizing Agents on Surface Properties of Carbon Fibers and Interfacial Adhesion of Carbon Fiber/Bismaleimide Composites. <i>ACS Omega</i> , 2021, 6, 23028-23037.	3.5	7
71	Experiments and finite element simulation of interfacial properties for monofilament composites. <i>New Carbon Materials</i> , 2014, 29, 176-185.	6.1	6
72	Gain-Constrained Extended Kalman Filtering with Stochastic Nonlinearities and Randomly Occurring Measurement Delays. <i>Circuits, Systems, and Signal Processing</i> , 2016, 35, 3957-3980.	2.0	6

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73	Effect of carbon fiber surface microstructure on mechanical properties of CCF800. Journal of Materials Research and Technology, 2020, 9, 8714-8722.	5.8	6
74	Multi-view prediction of Alzheimer's disease progression with end-to-end integrated framework. Journal of Biomedical Informatics, 2022, 125, 103978.	4.3	6
75	A Hybrid Deep Learning Method for Early and Late Mild Cognitive Impairment Diagnosis With Incomplete Multimodal Data. Frontiers in Neuroinformatics, 2022, 16, 843566.	2.5	6
76	The synergistic steric hindrance effect in the preparation of polyether ether ketone composites by powder slurry method. Polymer Composites, 2022, 43, 2384-2395.	4.6	5
77	Improved interfacial performance of carbon fiber/polyetherimide composites by polyetherimide and modified graphene oxide complex emulsion type sizing agent. High Performance Polymers, 2022, 34, 292-309.	1.8	5
78	Virtual cubic panorama synthesis based on triangular reprojection. Computer Animation and Virtual Worlds, 2014, 25, 143-154.	1.2	4
79	Draping Behavior of Carbon Non-Crimp Fabrics and Its Effects on Mechanical Performance of the Hemispherical Composites. Journal Wuhan University of Technology, Materials Science Edition, 2018, 33, 720-728.	1.0	4
80	A one-step mild acid route to fabricate high performance porous anti-reflective optical films from cationic polymeric nanolatex. Scientific Reports, 2020, 10, 14224.	3.3	4
81	Investigative Method for Fatigue Crack Propagation Based on a Small Time Scale. Materials, 2018, 11, 774.	2.9	3
82	Comparison of two different methods for producing hollow microspheres with carbon fiber reinforced composite skin used in syntactic foams. Polymer Composites, 2019, 40, E1075.	4.6	3
83	Effect of Carbon Fiber Surface Microstructure on Composite Interfacial Property Based on Image Quantitative Characterization Technique. Materials, 2021, 14, 6367.	2.9	3
84	Preparation and Properties of Modified Phenylethynyl Terminated Polyimide with Neodymium Oxide. Materials, 2022, 15, 4148.	2.9	3
85	A phase field study for influence of elastic energy on L10+L12 transient ordering in Ni75Al17Zn8. Science Bulletin, 2010, 55, 3044-3050.	1.7	2
86	Intermediate cubic-panorama synthesis based on triangular re-projection. , 2010, , .		2
87	Lead-Free Perovskites: Lead-Free Double Perovskite Cs ₂ SnX ₆ : Facile Solution Synthesis and Excellent Stability (Small 39/2019). Small, 2019, 15, 1970211.	10.0	2
88	Assessment of Orthometric Height Derived from Levelling, GNSS and EGM2008 Geoid Model in Bangladesh. , 2020, , .		2
89	Investigation of High-Temperature Normal Infrared Spectral Emissivity of ZrO ₂ Thermal Barrier Coating Artefacts by the Modified Integrated Blackbody Method. Materials, 2022, 15, 235.	2.9	2
90	A kernel-density-estimation-based outlier detection for airborne LiDAR point clouds. , 2012, , .		1

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91	The estimation of wing flexure deformation in transfer alignment based on inertial sensors network. , 2017, , .		1
92	Effect of Sizing Agents on Surface Properties of T800 Grade CF and Thermal Aging Time on Mechanical Properties of T800 Grade CF/Epoxy Composites. International Journal of Polymer Science, 2021, 2021, 1-9.	2.7	1
93	Lensless Multispectral Camera Based on a Coded Aperture Array. Sensors, 2021, 21, 7757.	3.8	1
94	KGM Derived CNTs Foam/Epoxy Composites with Excellent Microwave Absorbing Performance. Journal Wuhan University of Technology, Materials Science Edition, 2022, 37, 155-162.	1.0	1
95	Dynamic path planning algorithm for wearable visual navigation system based on the improved A*. , 2017, , .		0
96	Application of spatial heterodyne spectroscopy interferometer in velocity measurement and error analysis. , 2017, , .		0
97	Effect of High-temperature Annealing on Mechanical Performance and Microstructures of Different Oxygen SiC Fibers. Journal Wuhan University of Technology, Materials Science Edition, 2018, 33, 778-782.	1.0	0
98	Person Recognition Method in Cross-Country Environment Based on Improved Euclidean Clustering. International Journal of Pattern Recognition and Artificial Intelligence, 2020, 34, 2056011.	1.2	0
99	The Damage Physical Features Extraction Algorithms Based on Denoising FBG Signal in Aluminum Alloy Structures. , 2020, , .		0