

Peng-gang Ren

List of Publications by Year in descending order

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64
papers

5,256
citations

126907

33
h-index

114465

63
g-index

64
all docs

64
docs citations

64
times ranked

5815
citing authors

#	ARTICLE	IF	CITATIONS
1	Structured Reduced Graphene Oxide/Polymer Composites for Ultra-efficient Electromagnetic Interference Shielding. <i>Advanced Functional Materials</i> , 2015, 25, 559-566.	14.9	1,007
2	Temperature dependence of graphene oxide reduced by hydrazine hydrate. <i>Nanotechnology</i> , 2011, 22, 055705.	2.6	578
3	Efficient electromagnetic interference shielding of lightweight graphene/polystyrene composite. <i>Journal of Materials Chemistry</i> , 2012, 22, 18772.	6.7	516
4	High barrier graphene oxide nanosheet/poly(vinyl alcohol) nanocomposite films. <i>Journal of Membrane Science</i> , 2012, 409-410, 156-163.	8.2	273
5	Simultaneously improved electromagnetic interference shielding and mechanical performance of segregated carbon nanotube/polypropylene composite via solid phase molding. <i>Composites Science and Technology</i> , 2018, 156, 87-94.	7.8	221
6	Synergistic effect of graphene nanosheets and carbonyl iron-nickel alloy hybrid filler on electromagnetic interference shielding and thermal conductivity of cyanate ester composites. <i>Journal of Materials Chemistry C</i> , 2018, 6, 1476-1486.	5.5	212
7	Stretchable and durable conductive fabric for ultrahigh performance electromagnetic interference shielding. <i>Carbon</i> , 2019, 144, 101-108.	10.3	186
8	Facile preparation of 3D regenerated cellulose/graphene oxide composite aerogel with high-efficiency adsorption towards methylene blue. <i>Journal of Colloid and Interface Science</i> , 2018, 532, 58-67.	9.4	180
9	Composites of Ultrahigh-molecular-weight Polyethylene with Graphene Sheets and/or MWCNTs with Segregated Network Structure: Preparation and Properties. <i>Macromolecular Materials and Engineering</i> , 2012, 297, 437-443.	3.6	110
10	Large-scale preparation of segregated PLA/carbon nanotube composite with high efficient electromagnetic interference shielding and favourable mechanical properties. <i>Composites Part B: Engineering</i> , 2018, 155, 405-413.	12.0	110
11	Nitrogen-sulphur Co-doped graphenes modified electrospun lignin/polyacrylonitrile-based carbon nanofiber as high performance supercapacitor. <i>Journal of Power Sources</i> , 2019, 437, 226937.	7.8	108
12	A Highly Sensitive and Broad-Range Pressure Sensor Based on Polyurethane Mesodome Arrays Embedded with Silver Nanowires. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 19988-19999.	8.0	108
13	Lightweight and highly efficient electromagnetic wave-absorbing of 3D CNTs/GNS@CoFe ₂ O ₄ ternary composite aerogels. <i>Journal of Alloys and Compounds</i> , 2018, 768, 6-14.	5.5	98
14	Facile synthesis of trimethylammonium grafted cellulose foams with high capacity for selective adsorption of anionic dyes from water. <i>Carbohydrate Polymers</i> , 2020, 241, 116369.	10.2	74
15	Stiff micelle-crosslinked hyaluronate hydrogels with low swelling for potential cartilage repair. <i>Journal of Materials Chemistry B</i> , 2019, 7, 5490-5501.	5.8	69
16	Cyanate ester resin filled with graphene nanosheets and CoFe ₂ O ₄ -reduced graphene oxide nanohybrids as a microwave absorber. <i>Applied Surface Science</i> , 2015, 351, 40-47.	6.1	68
17	Facile synthesis of chitosan-based acid-resistant composite films for efficient selective adsorption properties towards anionic dyes. <i>Carbohydrate Polymers</i> , 2021, 254, 117473.	10.2	64
18	Improved properties of highly oriented graphene/polymer nanocomposites. <i>Journal of Applied Polymer Science</i> , 2011, 121, 3167-3174.	2.6	61

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19	Graphene/waste-newspaper cellulose composite aerogels with selective adsorption of organic dyes: preparation, characterization, and adsorption mechanism. <i>New Journal of Chemistry</i> , 2020, 44, 2256-2267.	2.8	59
20	Multifunctional sandwich-structured magnetic-electric composite films with Joule heating capacities toward absorption-dominant electromagnetic interference shielding. <i>Composites Part B: Engineering</i> , 2022, 236, 109836.	12.0	59
21	Boosting the electrochemical performance of nitrogen-oxygen co-doped carbon nanofibers based supercapacitors through esterification of lignin precursor. <i>Renewable Energy</i> , 2020, 162, 613-623.	8.9	56
22	Preparation and Performance of High-Barrier Low Density Polyethylene/Organic Montmorillonite Nanocomposite. <i>Polymer-Plastics Technology and Engineering</i> , 2012, 51, 1251-1257.	1.9	52
23	Three-dimensional macroporous hybrid carbon aerogel with heterogeneous structure derived from MXene/cellulose aerogel for absorption-dominant electromagnetic interference shielding and excellent thermal insulation performance. <i>Journal of Colloid and Interface Science</i> , 2022, 619, 96-105.	9.4	52
24	Hydrophobic Graphene Oxide as a Promising Barrier of Water Vapor for Regenerated Cellulose Nanocomposite Films. <i>ACS Omega</i> , 2019, 4, 509-517.	3.5	46
25	Characterization and performance of dodecyl amine functionalized graphene oxide and dodecyl amine functionalized graphene/high-density polyethylene nanocomposites: A comparative study. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	2.6	43
26	Ultra-low gas permeable cellulose nanofiber nanocomposite films filled with highly oriented graphene oxide nanosheets induced by shear field. <i>Carbohydrate Polymers</i> , 2019, 209, 310-319.	10.2	43
27	Enhanced magnetoelectric coefficient and interfacial compatibility by constructing a three-phase CFO@BT@PDA/P(VDF-TrFE) core-shell nanocomposite. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 131, 105805.	7.6	43
28	Construction of three-dimensional interconnected graphene nanosheet network in thermoplastic polyurethane with highly efficient electromagnetic interference shielding. <i>Composites Part B: Engineering</i> , 2021, 215, 108813.	12.0	43
29	Asymmetric multilayered MXene-AgNWs/cellulose nanofiber composite films with antibacterial properties for high-efficiency electromagnetic interference shielding. <i>Journal of Materials Science and Technology</i> , 2022, 129, 181-189.	10.7	40
30	Multi-layered graphene-Fe ₃ O ₄ /poly (vinylidene fluoride) hybrid composite films for high-efficient electromagnetic shielding. <i>Polymer Testing</i> , 2020, 89, 106652.	4.8	39
31	Fabrication of visible-light responsive TiO ₂ @C photocatalyst with an ultra-thin carbon layer to efficiently degrade organic pollutants. <i>Applied Surface Science</i> , 2020, 532, 147482.	6.1	38
32	Fabrication of carbonized spent coffee grounds/graphene nanoplates/cyanate ester composites for superior and highly absorbed electromagnetic interference shielding performance. <i>Journal of Materials Science and Technology</i> , 2022, 102, 123-131.	10.7	38
33	Magnetic coupling N self-doped porous carbon derived from biomass with broad absorption bandwidth and high-efficiency microwave absorption. <i>Journal of Colloid and Interface Science</i> , 2022, 610, 1077-1087.	9.4	38
34	Dual-functional carbonized loofah@GNSs-CNTs reinforced by cyanate ester composite with highly efficient electromagnetic interference shielding and thermal management. <i>Composites Part B: Engineering</i> , 2021, 223, 109132.	12.0	35
35	Thermal, Mechanical and Electrical Properties of Linear Low-Density Polyethylene Composites Filled with Different Dimensional SiC Particles. <i>Polymer-Plastics Technology and Engineering</i> , 2011, 50, 791-796.	1.9	34
36	Synergistic effect of 2D TiC and 1D CNT towards absorption-dominant high-performance electromagnetic interference shielding in 3D macroporous carbon aerogel. <i>Carbon</i> , 2022, 197, 40-51.	10.3	32

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37	Biomimetic epidermal sensors assembled from polydopamine-modified reduced graphene oxide/polyvinyl alcohol hydrogels for the real-time monitoring of human motions. <i>Journal of Materials Chemistry B</i> , 2020, 8, 10549-10558.	5.8	31
38	Hierarchical porous carbon composite constructed with 1-D CNT and 2-D GNS anchored on 3-D carbon skeleton from spent coffee grounds for supercapacitor. <i>Applied Surface Science</i> , 2021, 558, 149899.	6.1	31
39	Highly Bendable and Durable Waterproof Paper for Ultra-High Electromagnetic Interference Shielding. <i>Polymers</i> , 2019, 11, 1486.	4.5	30
40	Simultaneous realization of highly efficient electromagnetic interference shielding and human motion detection in carbon fiber felt decorated with silver nanowires and thermoplastic polyurethane. <i>Journal of Materials Chemistry C</i> , 2021, 9, 6894-6903.	5.5	29
41	Improved mechanical and barrier properties of low-density polyethylene nanocomposite films by incorporating hydrophobic graphene oxide nanosheets. <i>RSC Advances</i> , 2015, 5, 80739-80748.	3.6	26
42	Construction of interconnected and oriented graphene nanosheets networks in cellulose aerogel film for high-efficiency electromagnetic interference shielding. <i>Cellulose</i> , 2021, 28, 3135-3148.	4.9	25
43	Flexible and Conductive Cellulose Composite Paper for Highly Efficient Electromagnetic Interference Shielding. <i>Advanced Electronic Materials</i> , 2021, 7, 2100496.	5.1	24
44	Highly thermally conductive and electrical insulating epoxy-based composites containing oriented ternary carbon/graphene/MgO hybrid network. <i>Ceramics International</i> , 2022, 48, 13115-13124.	4.8	23
45	Three-dimensional porous carbon materials derived from locust for efficient N-O-S co-doped supercapacitors by facile self-template and in-situ doping method. <i>Fuel Processing Technology</i> , 2021, 213, 106677.	7.2	21
46	Synthesis of TiO ₂ @lignin based carbon nanofibers composite materials with highly efficient photocatalytic to methylene blue dye. <i>Journal of Polymer Research</i> , 2020, 27, 1.	2.4	20
47	Layer-Structured Design and Fabrication of Cyanate Ester Nanocomposites for Excellent Electromagnetic Shielding with Absorption-Dominated Characteristic. <i>Polymers</i> , 2018, 10, 933.	4.5	19
48	Single cell migration dynamics mediated by geometric confinement. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 145, 72-78.	5.0	18
49	Injectable, strongly compressible hyaluronic acid hydrogels via incorporation of Pluronic F127 diacrylate nanomicelles. <i>Materials Letters</i> , 2019, 243, 112-115.	2.6	12
50	Nâ€“O Codoped Carbon Nanofibers Decorated with Graphene for Highâ€“Performance Supercapacitors. <i>Energy Technology</i> , 2021, 9, 2100743.	3.8	12
51	Synergetic Toughening Effect of Carbon Nanotubes and Î²-Nucleating Agents on the Polypropylene Random Copolymer/Styrene-Ethylene-Butylene- Styrene Block Copolymer Blends. <i>Polymers</i> , 2019, 11, 29.	4.5	11
52	Nitrogen-doped and hierarchically porous carbon derived from spent coffee ground for efficient adsorption of organic dyes. <i>Carbon Letters</i> , 2021, 31, 1249-1260.	5.9	11
53	Influences of interfacial adhesion on gas barrier property of functionalized graphene oxide/ultra-high-molecular-weight polyethylene composites with segregated structure. <i>Composite Interfaces</i> , 2017, 24, 729-741.	2.3	10
54	One-step synthesis of nitrogen, sulfur co-doped interconnected porous carbon derived from methylene blue for high-performance supercapacitors. <i>Diamond and Related Materials</i> , 2020, 109, 108028.	3.9	10

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55	Preparation of porous graphene nanosheets/carbon nanotube/polyvinylidene fluoride (GNS/CNT/PVDF) composites for high microwave absorption in X-band. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 9611-9622.	2.2	10
56	Effects of dodecyl amine functionalized graphene oxide on the crystallization behavior of isotactic polypropylene. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	2.6	8
57	Preparation of highly thermally conductive epoxy composites via constructing a vertically aligned foam of cetyltrimethylammonium bromide@graphene@polydopamine@multi-walled carbon nanotubes. <i>Journal of Materials Science</i> , 2021, 56, 7951-7965.	3.7	8
58	Ultrahigh voltage window, preeminent energy density aqueous supercapacitor derived from honeycomb-like porous carbon decorated with carbon dots. <i>Electrochimica Acta</i> , 2022, 425, 140336.	5.2	8
59	Synergistic effects of conductive carbon nanofillers based on the ultrahigh-molecular-weight polyethylene with uniform and segregated structures. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47317.	2.6	7
60	Pore- and Heteroatom-Controlled Superabsorbent Resin-Derived Carbon Aerogels for Supercapacitors via Adjusting the Methylene Blue Concentration. <i>Advanced Materials Interfaces</i> , 2021, 8, 2101266.	3.7	7
61	Reinforced macromolecular micelle-crosslinked hyaluronate gels induced by water/DMSO binary solvent. <i>Soft Matter</i> , 2020, 16, 8647-8654.	2.7	5
62	Serpentine-Inspired Strain Sensor with Predictable Cracks for Remote Bio-Mechanical Signal Monitoring. <i>Macromolecular Rapid Communications</i> , 2022, 43, .	3.9	5
63	Silver nanoparticles as a conductive bridge for high-performance flexible all-solid-state asymmetric supercapacitor. <i>International Journal of Energy Research</i> , 2022, 46, 1813-1825.	4.5	2
64	Fabrication of multilayered carbon fibrous membranes for high-efficiency electromagnetic absorption. <i>Journal of Applied Physics</i> , 2021, 130, 175302.	2.5	0