Qingyu Peng

List of Publications by Year
in descending order

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42 papers	2,961 citations	201385 27 h-index	276539 41 g-index
43 all docs	43 docs citations	43 times ranked	3897 citing authors

#	Article	IF	Citations
1	Lightweight, Superelastic, and Mechanically Flexible Graphene/Polyimide Nanocomposite Foam for Strain Sensor Application. ACS Nano, 2015, 9, 8933-8941.	7.3	666
2	Superâ€Stretchable Springâ€Like Carbon Nanotube Ropes. Advanced Materials, 2012, 24, 2896-2900.	11.1	193
3	Interfacial enhancement of carbon fiber composites by poly(amido amine) functionalization. Composites Science and Technology, 2013, 74, 37-42.	3.8	169
4	Chemically and uniformly grafting carbon nanotubes onto carbon fibers by poly(amidoamine) for enhancing interfacial strength in carbon fiber composites. Journal of Materials Chemistry, 2012, 22, 5928.	6.7	168
5	Graphene Nanoribbon Aerogels Unzipped from Carbon Nanotube Sponges. Advanced Materials, 2014, 26, 3241-3247.	11.1	151
6	Multifunctional Stiff Carbon Foam Derived from Bread. ACS Applied Materials & Interfaces, 2016, 8, 16852-16861.	4.0	151
7	Stiff, Thermally Stable and Highly Anisotropic Wood-Derived Carbon Composite Monoliths for Electromagnetic Interference Shielding. ACS Applied Materials & Interfaces, 2017, 9, 21371-21381.	4.0	148
8	Synthesis and characterization of a new hierarchical reinforcement by chemically grafting graphene oxide onto carbon fibers. Journal of Materials Chemistry, 2012, 22, 18748.	6.7	120
9	Overtwisted, Resolvable Carbon Nanotube Yarn Entanglement as Strain Sensors and Rotational Actuators. ACS Nano, 2013, 7, 8128-8135.	7.3	94
10	Grafting carbon nanotubes onto carbon fiber by use of dendrimers. Materials Letters, 2010, 64, 2505-2508.	1.3	82
11	Shape-memory polymer nanocomposites with a 3D conductive network for bidirectional actuation and locomotion application. Nanoscale, 2016, 8, 18042-18049.	2.8	74
12	Multifunctional, Highly Flexible, Freeâ€Standing 3D Polypyrrole Foam. Small, 2016, 12, 4070-4076.	5.2	71
13	Electrically and thermally conductive underwater acoustically absorptive graphene/rubber nanocomposites for multifunctional applications. Nanoscale, 2017, 9, 14476-14485.	2.8	70
14	Tuning the interfacial property of hierarchical composites by changing the grafting density of carbon nanotube using 1,3-propodiamine. Composites Science and Technology, 2013, 85, 36-42.	3.8	67
15	Three-dimensional macroassembly of hybrid C@CoFe nanoparticles/reduced graphene oxide nanosheets towards multifunctional foam. Carbon, 2020, 157, 427-436.	5.4	64
16	Superlight, Mechanically Flexible, Thermally Superinsulating, and Antifrosting Anisotropic Nanocomposite Foam Based on Hierarchical Graphene Oxide Assembly. ACS Applied Materials & Interfaces, 2017, 9, 44010-44017.	4.0	60
17	Grafting carbon nanotubes densely on carbon fibers by poly(propylene imine) for interfacial enhancement of carbon fiber composites. Carbon, 2020, 158, 704-710.	5.4	57
18	Multifunctional graphene sheetâ€“nanoribbon hybrid aerogels. Journal of Materials Chemistry A, 2014, 2, 14994-15000.	5.2	54

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19	Direct measurement of grafting strength between an individual carbon nanotube and a carbon fiber. Carbon, 2012, 50, 3782-3788.	5.4	44
20	Superflexible Interconnected Graphene Network Nanocomposites for High-Performance Electromagnetic Interference Shielding. ACS Omega, 2018, 3, 3599-3607.	1.6	40
21	Artificial muscle with reversible and controllable deformation based on stiffness-variable carbon nanotube spring-like nanocomposite yarn. Nanoscale, 2019, 11, 8124-8132.	2.8	40
22	Variable densification of reduced graphene oxide foam into multifunctional high-performance graphene paper. Journal of Materials Chemistry C, 2018, 6, 12321-12328.	2.7	37
23	Largeâ€Deformation, Multifunctional Artificial Muscles Based on Singleâ€Walled Carbon Nanotube Yarns. Advanced Engineering Materials, 2015, 17, 14-20.	1.6	36
24	Graphene oxide-assisted Co-sintering synthesis of carbon nanotubes with enhanced electromagnetic wave absorption performance. Carbon, 2021, 185, 186-197.	5.4	36
25	Highly Conductive Multifunctional rGO/CNT Hybrid Sponge for Electromagnetic Wave Shielding and Strain Sensor. Advanced Materials Technologies, 2019, 4, 1900443.	3.0	32
26	Electromagnetic and acoustic double-shielding graphene-based metastructures. Nanoscale, 2019, 11, 1692-1699.	2.8	32
27	Theoretical prediction and experimental verification of pulling carbon nanotubes from carbon fiber prepared by chemical grafting method. Composites Part A: Applied Science and Manufacturing, 2013, 50, 1-10.	3.8	31
28	Lightweight, mechanically flexible and thermally superinsulating rGO/polyimide nanocomposite foam with an anisotropic microstructure. Nanoscale Advances, 2019, 1, 4895-4903.	2.2	27
29	An ultra-broad-range pressure sensor based on a gradient stiffness design. Materials Horizons, 2021, 8, 2260-2272.	6.4	24
30	Grapheneâ€“Carbon Composite Films as Thermal Management Materials. ACS Applied Nano Materials, 2020, 3, 9076-9087.	2.4	21
31	Active control of graphene-based membrane-type acoustic metamaterials using a low voltage. Nanoscale, 2019, 11, 16384-16392.	2.8	18
32	A Photoactuator Based on Stiffness-Variable Carbon Nanotube Nanocomposite Yarn. ACS Applied Materials & Interfaces, 2020, 12, 40711-40718.	4.0	18
33	Flame-retardant MXene/polyimide film with outstanding thermal and mechanical properties based on the secondary orientation strategy. Nanoscale Advances, 2021, 3, 5683-5693.	2.2	18
34	A pullout model for inclined carbon nanotube. Mechanics of Materials, 2012, 52, 28-39.	1.7	13
35	Roles of twisting-compression operations on mechanical enhancement of carbon nanotube fibers. Carbon, 2021, 172, 41-49.	5.4	12
36	Enhancement of compositeâ€metal interfacial adhesion strength by dendrimer. Surface and Interface Analysis, 2011, 43, 726-733.	0.8	7

#	Article	IF	Citations
37	Superbroad-band actively tunable acoustic metamaterials driven from poly (ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 7	5.8	6
38	Carbon Nanotubes: Superâ€Stretchable Springâ€Like Carbon Nanotube Ropes (Adv. Mater. 21/2012). Advanced Materials, 2012, 24, 2935-2935.	11.1	3
39	Mechanical Properties Improvement in Highly and Aligned Dispersed Graphene Oxide/Bismaleimide Nanocomposites based on Graphene Oxide Sponge. Advanced Engineering Materials, 2020, 22, 2000231.	1.6	3
40	Partially unzipping carbon nanotubes: A route to synchronously improve fracture strength and toughness of nanocomposites inspired by pinning effect of screw. Materials Today Communications, 2020, 25, 101355.	0.9	3
41	Dependence of Amino-functionalization on Interfacial Adhesion Strength in Epoxy/Al Laminated Composites. Polymers and Polymer Composites, 2012, 20, 445-452.	1.0	1
42	Microstructure, mechanical and oxidation properties of in-situ synthesized (Y₂O₃â€‰+â€‰TiC)/Ti-4.5Si composites. International Journal of Materials Research, 2013, 104, 65-70.	0.1	0