

Long-Cheng Tang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

82

papers

5,804

citations

39

h-index

76

g-index

89

ext. papers

7,226

ext. citations

8.8

avg, IF

5.99

L-index

#	Paper	IF	Citations
82	The effect of graphene dispersion on the mechanical properties of graphene/epoxy composites. <i>Carbon</i> , 2013 , 60, 16-27	10.4	774
81	Grafting of epoxy chains onto graphene oxide for epoxy composites with improved mechanical and thermal properties. <i>Carbon</i> , 2014 , 69, 467-480	10.4	558
80	Mechanical properties of epoxy composites filled with silane-functionalized graphene oxide. <i>Composites Part A: Applied Science and Manufacturing</i> , 2014 , 64, 79-89	8.4	422
79	Improved dispersion and interface in the graphene/epoxy composites via a facile surfactant-assisted process. <i>Composites Science and Technology</i> , 2013 , 82, 60-68	8.6	251
78	Toward effective and tunable interphases in graphene oxide/epoxy composites by grafting different chain lengths of polyetheramine onto graphene oxide. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 15058	13	185
77	Fracture behaviours of in situ silica nanoparticle-filled epoxy at different temperatures. <i>Polymer</i> , 2008 , 49, 3816-3825	3.9	171
76	Facile synthesis of super-hydrophobic, electrically conductive and mechanically flexible functionalized graphene nanoribbon/polyurethane sponge for efficient oil/water separation at static and dynamic states. <i>Chemical Engineering Journal</i> , 2018 , 334, 2154-2166	14.7	149
75	Fracture mechanisms of epoxy filled with ozone functionalized multi-wall carbon nanotubes. <i>Composites Science and Technology</i> , 2011 , 72, 7-13	8.6	142
74	Efficient Flame Detection and Early Warning Sensors on Combustible Materials Using Hierarchical Graphene Oxide/Silicone Coatings. <i>ACS Nano</i> , 2018 , 12, 416-424	16.7	135
73	Fracture mechanisms of epoxy-based ternary composites filled with rigid-soft particles. <i>Composites Science and Technology</i> , 2012 , 72, 558-565	8.6	134
72	Fracture toughness and electrical conductivity of epoxy composites filled with carbon nanotubes and spherical particles. <i>Composites Part A: Applied Science and Manufacturing</i> , 2013 , 45, 95-101	8.4	130
71	Three-dimensional graphene-based polymer nanocomposites: preparation, properties and applications. <i>Nanoscale</i> , 2018 , 10, 14788-14811	7.7	128
70	Flexible, superhydrophobic and highly conductive composite based on non-woven polypropylene fabric for electromagnetic interference shielding. <i>Chemical Engineering Journal</i> , 2019 , 364, 493-502	14.7	123
69	A highly stretchable, super-hydrophobic strain sensor based on polydopamine and graphene reinforced nanofiber composite for human motion monitoring. <i>Composites Part B: Engineering</i> , 2020 , 181, 107580	10	105
68	Creep and recovery of polystyrene composites filled with graphene additives. <i>Composites Science and Technology</i> , 2014 , 91, 63-70	8.6	101
67	Polymer grafted reduced graphene oxide sheets for improving stress transfer in polymer composites. <i>Composites Science and Technology</i> , 2016 , 134, 144-152	8.6	92
66	Balanced electrical, thermal and mechanical properties of epoxy composites filled with chemically reduced graphene oxide and rubber nanoparticles. <i>Composites Science and Technology</i> , 2015 , 121, 104-114	8.6	86

65	Silane grafted graphene oxide papers for improved flame resistance and fast fire alarm response. <i>Composites Part B: Engineering</i> , 2019 , 168, 413-420	10	80
64	Water-based hybrid coatings toward mechanically flexible, super-hydrophobic and flame-retardant polyurethane foam nanocomposites with high-efficiency and reliable fire alarm response. <i>Composites Part B: Engineering</i> , 2020 , 193, 108017	10	80
63	Facile preparation of hybrid microspheres for super-hydrophobic coating and oil-water separation. <i>Chemical Engineering Journal</i> , 2017 , 326, 443-453	14.7	78
62	Temperature dependence of creep and recovery behaviors of polymer composites filled with chemically reduced graphene oxide. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015 , 69, 288-298	8.4	78
61	Mechanically Durable, Highly Conductive, and Anticorrosive Composite Fabrics with Excellent Self-Cleaning Performance for High-Efficiency Electromagnetic Interference Shielding. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 10883-10894	9.5	75
60	Efficient interfacial interaction for improving mechanical properties of polydimethylsiloxane nanocomposites filled with low content of graphene oxide nanoribbons. <i>RSC Advances</i> , 2017 , 7, 22045-22053	12.7	71
59	Construction of sandwich-like porous structure of graphene-coated foam composites for ultrasensitive and flexible pressure sensors. <i>Nanoscale</i> , 2019 , 11, 10229-10238	7.7	70
58	Silane bonded graphene aerogels with tunable functionality and reversible compressibility. <i>Carbon</i> , 2016 , 107, 573-582	10.4	70
57	Mechanical properties and fracture behaviors of epoxy composites with multi-scale rubber particles. <i>Materials Chemistry and Physics</i> , 2013 , 141, 333-342	4.4	70
56	Temperature-responsive resistance sensitivity controlled by L-ascorbic acid and silane co-functionalization in flame-retardant GO network for efficient fire early-warning response. <i>Chemical Engineering Journal</i> , 2020 , 386, 123894	14.7	70
55	Temperature-triggered sensitive resistance transition of graphene oxide wide-ribbons wrapped sponge for fire ultrafast detecting and early warning. <i>Journal of Hazardous Materials</i> , 2019 , 363, 286-294	12.8	66
54	A novel failure analysis of multi-walled carbon nanotubes in epoxy matrix. <i>Polymer</i> , 2011 , 52, 2070-2074	3.9	65
53	Design of mechanically stable, electrically conductive and highly hydrophobic three-dimensional graphene nanoribbon composites by modulating the interconnected network on polymer foam skeleton. <i>Composites Science and Technology</i> , 2019 , 171, 162-170	8.6	65
52	Influence of processing conditions on dispersion, electrical and mechanical properties of graphene-filled-silicone rubber composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016 , 91, 53-64	8.4	63
51	Superhydrophobic and superelastic conductive rubber composite for wearable strain sensors with ultrahigh sensitivity and excellent anti-corrosion property. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24523-24533	13	63
50	A novel and facile strategy for highly flame retardant polymer foam composite materials: Transforming silicone resin coating into silica self-extinguishing layer. <i>Journal of Hazardous Materials</i> , 2017 , 336, 222-231	12.8	60
49	Facile and green synthesis of mechanically flexible and flame-retardant clay/graphene oxide nanoribbon interconnected networks for fire safety and prevention. <i>Chemical Engineering Journal</i> , 2021 , 405, 126620	14.7	56
48	Wear-resistant and transparent acrylate-based coating with highly filled nanosilica particles. <i>Tribology International</i> , 2010 , 43, 83-91	4.9	49

47	In situ reactive self-assembly of a graphene oxide nano-coating in polymer foam materials with synergistic fire shielding properties. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 27032-27040	13	48
46	Manipulating interphase reactions for mechanically robust, flame-retardant and sustainable polylactide biocomposites. <i>Composites Part B: Engineering</i> , 2020 , 190, 107930	10	47
45	Enhanced mechanical property and flame resistance of graphene oxide nanocomposite paper modified with functionalized silica nanoparticles. <i>Composites Part B: Engineering</i> , 2019 , 177, 107347	10	46
44	Fracture Behaviors of TRGO-Filled Epoxy Nanocomposites with Different Dispersion/Interface Levels. <i>Macromolecular Materials and Engineering</i> , 2015 , 300, 737-749	3.9	42
43	One-step and green synthesis of lightweight, mechanically flexible and flame-retardant polydimethylsiloxane foam nanocomposites via surface-assembling ultralow content of graphene derivative. <i>Chemical Engineering Journal</i> , 2020 , 393, 124724	14.7	36
42	Mechanical properties and fracture behaviors of epoxy composites with phase-separation formed liquid rubber and preformed powdered rubber nanoparticles: A comparative study. <i>Polymer Composites</i> , 2015 , 36, 785-799	3	35
41	Mechanically flexible, super-hydrophobic and flame-retardant hybrid nano-silica/graphene oxide wide ribbon decorated sponges for efficient oil/water separation and fire warning response. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021 , 140, 106191	8.4	34
40	Simultaneous improvements in fire resistance and alarm response of GO paper via one-step 3-mercaptopropyltrimethoxysilane functionalization for efficient fire safety and prevention. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020 , 131, 105797	8.4	33
39	Performance of epoxy filled with nano- and micro-sized Magnesium hydroxide. <i>Journal of Materials Science</i> , 2012 , 47, 1480-1488	4.3	32
38	Single carbon fiber fracture embedded in an epoxy matrix modified by nanoparticles. <i>Composites Science and Technology</i> , 2013 , 77, 101-109	8.6	32
37	Environmentally stable, mechanically flexible, self-adhesive, and electrically conductive Ti3C2Tx MXene hydrogels for wide-temperature strain sensing. <i>Nano Energy</i> , 2021 , 90, 106502	17.1	32
36	Self-Derived Superhydrophobic and Multifunctional Polymer Sponge Composite with Excellent Joule Heating and Photothermal Performance for Strain/Pressure Sensors. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 13316-13326	9.5	30
35	Comparative study on the optical, surface mechanical and wear resistant properties of transparent coatings filled with pyrogenic and colloidal silica nanoparticles. <i>Composites Science and Technology</i> , 2011 , 71, 471-479	8.6	30
34	Facile and green fabrication of flame-retardant Ti3C2Tx MXene networks for ultrafast, reusable and weather-resistant fire warning. <i>Chemical Engineering Journal</i> , 2022 , 427, 131615	14.7	30
33	Chitosan in-situ grafted magnetite nanoparticles toward mechanically robust and electrically conductive ionic-covalent nanocomposite hydrogels with sensitive strain-responsive resistance. <i>Composites Science and Technology</i> , 2020 , 195, 108173	8.6	29
32	A Durable, Flexible, Large-Area, Flame-Retardant, Early Fire Warning Sensor with Built-In Patterned Electrodes.. <i>Small Methods</i> , 2021 , 5, e2001040	12.8	26
31	Constructing dual ionically cross-linked poly(acrylamide-co-acrylic acid) /chitosan hydrogel materials embedded with chitosan decorated halloysite nanotubes for exceptional mechanical performance. <i>Composites Part B: Engineering</i> , 2020 , 194, 108046	10	25
30	Improved interfacial properties between glass fibers and tetra-functional epoxy resins modified with silica nanoparticles. <i>Fibers and Polymers</i> , 2015 , 16, 2056-2065	2	22

29	Enhanced mechanical properties of polyacrylamide/chitosan hydrogels by tuning the molecular structure of hyperbranched polysiloxane. <i>Materials and Design</i> , 2019 , 162, 162-170	8.1	22
28	Ultrafast Flame-Induced Pyrolysis of Poly(dimethylsiloxane) Foam Materials toward Exceptional Superhydrophobic Surfaces and Reliable Mechanical Robustness. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 23161-23172	9.5	20
27	Scalable preparation of multiscale carbon nanotube/glass fiber reinforcements and their application in polymer composites. <i>Fibers and Polymers</i> , 2014 , 15, 1242-1250	2	16
26	Dielectric properties of carbon nanotubes/epoxy composites. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 964-9	1.3	15
25	An insulating second filler tuning porous conductive composites for highly sensitive and fast responsive organic vapor sensor. <i>Sensors and Actuators B: Chemical</i> , 2019 , 285, 254-263	8.5	15
24	Bamboo-inspired mechanically flexible and electrically conductive polydimethylsiloxane foam materials with designed hierarchical pore structures for ultra-sensitive and reliable piezoresistive pressure sensor. <i>Composites Part B: Engineering</i> , 2021 , 225, 109243	10	15
23	Mechanical Properties of Rubber Nanocomposites Containing Carbon Nanofillers 2019 , 367-423		14
22	7 Graphene/Polymer Composite Materials: Processing, Properties and Applications 2017 , 349-419		14
21	The effects of alumina nanofillers on mechanical properties of high-performance epoxy resin. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 7526-32	1.3	14
20	Temperature-induced resistance transition behaviors of melamine sponge composites wrapped with different graphene oxide derivatives. <i>Journal of Materials Science and Technology</i> , 2021 , 85, 194-204	9.1	14
19	Bio-inspired, sustainable and mechanically robust graphene oxide-based hybrid networks for efficient fire protection and warning. <i>Chemical Engineering Journal</i> , 2022 , 134516	14.7	13
18	Rheological behaviors of fumed silica/low molecular weight hydroxyl silicone oil. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	10
17	Silicone/graphene oxide co-cross-linked aerogels with wide-temperature mechanical flexibility, super-hydrophobicity and flame resistance for exceptional thermal insulation and oil/water separation. <i>Journal of Materials Science and Technology</i> , 2022 , 114, 131-142	9.1	9
16	Fire Intumescent, High-Temperature Resistant, Mechanically Flexible Graphene Oxide Network for Exceptional Fire Shielding and Ultra-Fast Fire Warning.. <i>Nano-Micro Letters</i> , 2022 , 14, 92	19.5	9
15	Mechanically Robust Polyacrylamide Composite Hydrogel Achieved by Integrating Lamellar Montmorillonite and Chitosan Microcrystalline Structure into Covalently Cross-linked Network. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 1874-1885	4.3	8
14	Fabrication and characterisation of hydrophobic magnetite composite nanoparticles for oil/water separation. <i>Materials Technology</i> , 2016 , 31, 38-43	2.1	8
13	A highly fire-retardant rigid polyurethane foam capable of fire-warning. <i>Composites Communications</i> , 2022 , 29, 101046	6.7	8
12	Processing, thermal conductivity and flame retardant properties of silicone rubber filled with different geometries of thermally conductive fillers: A comparative study. <i>Composites Part B: Engineering</i> , 2022 , 238, 109907	10	8

11	Fabrication and properties of chemically bonded polysilsesquioxane-polyacrylate/silica hybrid latex films with high silicon content. <i>Polymer Composites</i> , 2015 , 36, 389-396	3	6
10	Exceptionally flame-retardant flexible polyurethane foam composites: synergistic effect of the silicone resin/graphene oxide coating. <i>Frontiers of Chemical Science and Engineering</i> , 2021 , 15, 969-983	4.5	6
9	Stable electrically conductive, highly flame-retardant foam composites generated from reduced graphene oxide and silicone resin coatings. <i>Soft Matter</i> , 2021 , 17, 68-82	3.6	6
8	Superhydrophobic and Superparamagnetic Composite Coatings: A Comparative Study on Dual-Sized Functional Magnetite Nanoparticles/Silicone Rubber. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2017 , 27, 1816-1825	3.2	5
7	Fabrication and characterization of chemically bonded polysilsesquioxane-polyacrylate hybrid latex particles. <i>Composite Interfaces</i> , 2014 , 21, 455-465	2.3	4
6	A review of nanofiber membranes for solar interface evaporation. <i>Desalination</i> , 2022 , 531, 115686	10.3	3
5	Self-healing High-performance dielectric elastomer actuator with novel Liquid-solid interpenetrating structure. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021 , 149, 106519	8.4	2
4	Emulsion dipping based superhydrophobic, temperature tolerant, and multifunctional coatings for smart strain sensing applications. <i>Composites Science and Technology</i> , 2021 , 216, 109045	8.6	2
3	Halogen-free intumescent flame retardancy and mechanical properties of the microcellular polypropylene with low expansion ratio via continuous extrusion assisted by subcritical CO ₂ . <i>Journal of Applied Polymer Science</i> , 51971	2.9	1
2	Dispersion and Alignment of Carbon Nanotubes in Polymer Matrix 2021 , 1-35		
1	Back Cover: A Durable, Flexible, Large-Area, Flame-Retardant, Early Fire Warning Sensor with Built-In Patterned Electrodes (Small Methods 4/2021). <i>Small Methods</i> , 2021 , 5, 2170016	12.8	