

Long-Cheng Tang

List of Publications by Year in Descending Order

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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 | 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 |
| 81 | 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 |
| 80 | A highly fire-retardant rigid polyurethane foam capable of fire-warning. <i>Composites Communications</i> , 2022 , 29, 101046 | 6.7 | 8 |
| 79 | 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 |
| 78 | 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 |
| 77 | A review of nanofiber membranes for solar interface evaporation. <i>Desalination</i> , 2022 , 531, 115686 | 10.3 | 3 |
| 76 | 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 |
| 75 | Dispersion and Alignment of Carbon Nanotubes in Polymer Matrix 2021 , 1-35 | | |
| 74 | 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 |
| 73 | 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 | |
| 72 | 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 |
| 71 | 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 |
| 70 | 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 |
| 69 | 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 |
| 68 | 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 |
| 67 | 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 |
| 66 | 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 |

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|----|---|------|-----|
| 65 | 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 |
| 64 | 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 |
| 63 | 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 |
| 62 | Manipulating interphase reactions for mechanically robust, flame-retardant and sustainable polylactide biocomposites. <i>Composites Part B: Engineering</i> , 2020 , 190, 107930 | 10 | 47 |
| 61 | 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 |
| 60 | 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 |
| 59 | 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 |
| 58 | 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 |
| 57 | 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 |
| 56 | 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 |
| 55 | 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 |
| 54 | 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 |
| 53 | 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 |
| 52 | 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 |
| 51 | 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 |
| 50 | 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 |
| 49 | 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 |
| 48 | 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 |

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|----|---|------|-----|
| 47 | Mechanical Properties of Rubber Nanocomposites Containing Carbon Nanofillers 2019 , 367-423 | | 14 |
| 46 | 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 |
| 45 | 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 |
| 44 | 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 |
| 43 | 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 |
| 42 | 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 |
| 41 | Three-dimensional graphene-based polymer nanocomposites: preparation, properties and applications. <i>Nanoscale</i> , 2018 , 10, 14788-14811 | 7.7 | 128 |
| 40 | 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 |
| 39 | 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 |
| 38 | 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 | 62 |
| 37 | 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 |
| 36 | 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 |
| 35 | 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 |
| 34 | 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 |
| 33 | 7 Graphene/Polymer Composite Materials: Processing, Properties and Applications 2017 , 349-419 | | 14 |
| 32 | 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 |
| 31 | Silane bonded graphene aerogels with tunable functionality and reversible compressibility. <i>Carbon</i> , 2016 , 107, 573-582 | 10.4 | 70 |
| 30 | Fabrication and characterisation of hydrophobic magnetite composite nanoparticles for oil/water separation. <i>Materials Technology</i> , 2016 , 31, 38-43 | 2.1 | 8 |

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| 29 | 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 |
| 28 | 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 |
| 27 | 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 |
| 26 | 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 |
| 25 | 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 |
| 24 | 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 |
| 23 | 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 |
| 22 | Creep and recovery of polystyrene composites filled with graphene additives. <i>Composites Science and Technology</i> , 2014 , 91, 63-70 | 8.6 | 101 |
| 21 | 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 |
| 20 | Fabrication and characterization of chemically bonded polysilsesquioxane-polyacrylate hybrid latex particles. <i>Composite Interfaces</i> , 2014 , 21, 455-465 | 2.3 | 4 |
| 19 | 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 |
| 18 | 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 |
| 17 | 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 |
| 16 | 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 |
| 15 | 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 |
| 14 | 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 |
| 13 | 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 |
| 12 | The effect of graphene dispersion on the mechanical properties of graphene/epoxy composites. <i>Carbon</i> , 2013 , 60, 16-27 | 10.4 | 774 |

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|----|--|-----|-----|
| 11 | 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 |
| 10 | Dielectric properties of carbon nanotubes/epoxy composites. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 964-9 | 1.3 | 15 |
| 9 | Performance of epoxy filled with nano- and micro-sized Magnesium hydroxide. <i>Journal of Materials Science</i> , 2012 , 47, 1480-1488 | 4.3 | 32 |
| 8 | 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 |
| 7 | 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 |
| 6 | 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 |
| 5 | A novel failure analysis of multi-walled carbon nanotubes in epoxy matrix. <i>Polymer</i> , 2011 , 52, 2070-2074 | 3.9 | 65 |
| 4 | 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 |
| 3 | Wear-resistant and transparent acrylate-based coating with highly filled nanosilica particles. <i>Tribology International</i> , 2010 , 43, 83-91 | 4.9 | 49 |
| 2 | Fracture behaviours of in situ silica nanoparticle-filled epoxy at different temperatures. <i>Polymer</i> , 2008 , 49, 3816-3825 | 3.9 | 171 |
| 1 | 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 |