Shengtai Zhou

List of Publications by Year
in descending order

48 papers	897 citations	471061 17 h-index	500791 28 g-index
49 all docs	49 docs citations	49 times ranked	711 citing authors

#	Article	IF	Citations
1	Enhanced mechanical and tribological properties in polyphenylene sulfide/polytetrafluoroethylene composites reinforced by short carbon fiber. Composites Part B: Engineering, 2016, 91, 579-588.	5.9	115
2	Thermally conductive composites obtained by flake graphite filling immiscible Polyamide 6/Polycarbonate blends. Thermochimica Acta, 2013, 566, 84-91.	1.2	106
3	Room-Temperature Self-Healing Ablative Composites via Dynamic Covalent Bonds for High-Performance Applications. ACS Applied Polymer Materials, 2020, 2, 3977-3987.	2.0	52
4	A room temperature self-healing and thermally reprocessable cross-linked elastomer with unprecedented mechanical properties for ablation-resistant applications. Chemical Engineering Journal, 2022, 436, 135156.	6.6	33
5	High thermally conducting composites obtained via in situ exfoliation process of expandable graphite filled polyamide 6. Polymer Composites, 2013, 34, 1816-1823.	2.3	32
6	Enhanced thermal conductivity of polyamide 6/polypropylene (PA6/PP) immiscible blends with high loadings of graphite. Journal of Composite Materials, 2016, 50, 327-337.	1.2	28
7	Electrical and morphological properties of microinjection molded polypropylene/carbon nanocomposites. Journal of Applied Polymer Science, 2017, 134, 45462.	1.3	27
8	A comparison of ablative resistance properties of liquid silicone rubber composites filled with different fibers. Polymer Engineering and Science, 2021, 61, 442-452.	1.5	26
9	Self-Reinforced Polypropylene/Graphene Composite with Segregated Structures To Achieve Balanced Electrical and Mechanical Properties. Industrial & Engineering Chemistry Research, 2020, 59, 11206-11218.	1.8	25
10	Preparation of highly thermally conducting polyamide 6/graphite composites via lowâ€temperature in situ expansion. Journal of Applied Polymer Science, 2014, 131, .	1.3	23
11	Microinjection molding of polypropylene/multiâ€walled carbon nanotube nanocomposites: The influence of process parameters. Polymer Engineering and Science, 2018, 58, E226.	1.5	22
12	Electrical and morphological properties of microinjection molded polystyrene/multiwalled carbon nanotubes nanocomposites. Polymer Engineering and Science, 2016, 56, 1182-1190.	1.5	21
13	Thermal, electrical and rheological behavior of high-density polyethylene/graphite composites. Iranian Polymer Journal (English Edition), 2015, 24, 573-581.	1.3	20
14	Electrical, morphological and thermal properties of microinjection molded polyamide 6/multi-walled carbon nanotubes nanocomposites. Composites Part A: Applied Science and Manufacturing, 2017, 103, 84-95.	3.8	20
15	Microinjection molding of multiwalled carbon nanotubes (<scp>CNT</scp>)â€“filled polycarbonate nanocomposites and comparison with electrical and morphological properties of various other <scp>CNT</scp>â€filled thermoplastic micromoldings. Polymers for Advanced Technologies, 2018, 29, 1753-1764.	1.6	20
16	Ablation Response Behavior under Different Heat Flux Environments for Liquid Silicone Rubber Composites. ACS Applied Polymer Materials, 2021, 3, 5632-5641.	2.0	19
17	Preparation of thermally conductive polycarbonate/boron nitride composites with balanced mechanical properties. Polymer Composites, 2020, 41, 5418-5427.	2.3	18
18	A Concurrent Enhancement of Both Inâ€Plane and Throughâ€Plane Thermal Conductivity of Injection Molded Polycarbonate/Boron Nitride/Alumina Composites by Constructing a Dense Filler Packing Structure. Macromolecular Materials and Engineering, 2021, 306, 2100267.	1.7	18

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19	Investigation of the properties and structure of semi-rigid closed-cellular polyimide foams with different diamine structures. Polymer, 2021, 229, 123957.	1.8	18
20	Effect of shape morphology on mechanical, rheological and tribological properties of polyoxymethylene/aramid composites. Polymer Science - Series A, 2015, 57, 209-220.	0.4	16
21	Improving ablation properties of liquid silicone rubber composites by in situ construction of richâ€porous char layer. Journal of Applied Polymer Science, 2021, 138, 50030.	1.3	16
22	Structure to Properties Relations of Polyimide Foams Derived from Various Dianhydride Components. Industrial & Engineering Chemistry Research, 2021, 60, 9489-9499.	1.8	16
23	Effect of Hybrid Carbon Fillers on the Electrical and Morphological Properties of Polystyrene Nanocomposites in Microinjection Molding. Nanomaterials, 2018, 8, 779.	1.9	15
24	Simultaneously enhanced heat dissipation and tribological properties of polyphenylene sulfide-based composites via constructing segregated network structure. Journal of Materials Science and Technology, 2022, 99, 239-250.	5.6	15
25	In situ micro-fibrillization and post annealing to significantly improve the tribological properties of polyphenylene sulfide/polyamide 66/polytetrafluoroethylene composites. Composites Part B: Engineering, 2021, 216, 108841.	5.9	14
26	Properties of microinjection-molded multi-walled carbon nanotubes-filled poly(lactic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 Td (acid) 53, 9013-9025.	1.7	13
27	Preparation of polyimide/multiâ€walled carbon nanotubes composite aerogels with anisotropic properties. Journal of Applied Polymer Science, 2020, 137, 49357.	1.3	13
28	Tribological properties of PTFE fiber filled polyoxymethylene composites: The influence of fiber orientation. Composites Communications, 2021, 28, 100918.	3.3	12
29	Highly Thermally Conductive Yet Electrically Insulative Polycarbonate Composites with Oriented Hybrid Networks Assisted by High Shear Injection Molding. Macromolecular Materials and Engineering, 2022, 307, 2100632.	1.7	11
30	Carbonization of Graphene-Doped Isocyanate-Based Polyimide Foams to Achieve Carbon Foams with Excellent Electromagnetic Interference Shielding Performance. Materials, 2021, 14, 7551.	1.3	11
31	Fabrication of Hollow Polyimide Microspheres with Controllable Sizes. Macromolecular Chemistry and Physics, 2021, 222, 2100197.	1.1	10
32	Microinjection molding of polyoxymethylene/multiwalled carbon nanotubes composites with different matrix viscosities. Journal of Applied Polymer Science, 2021, 138, 49817.	1.3	9
33	Combining Microwaveâ€Assisted Foaming and Post Curing Process to Prepare Lightweight Flexible Polyimide Foams for Thermal Insulation Applications. Macromolecular Materials and Engineering, 2022, 307, .	1.7	9
34	Mechanically flexible polyimide foams with different chain structures for high temperature thermal insulation purposes. Materials Today Physics, 2022, 26, 100720.	2.9	9
35	Comparative study on the electrical, thermal, and mechanical properties of multiwalled carbon nanotubes filled polypropylene and polyamide 6 micromoldings. Journal of Applied Polymer Science, 2021, 138, 49984.	1.3	8
36	Electrical, thermal, and mechanical properties of polypropylene/multiwalled carbon nanotube micromoldings. Polymer Composites, 2020, 41, 1507-1520.	2.3	7

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37	Hybridization of Polytetrafluorethylene Fibers and Multiscale Short Carbon Fibers to Significantly Improve the Tribological Performance of Polyphenylene Sulfide. Advanced Engineering Materials, 2021, 23, 2000787.	1.6	7
38	Crystallization and Microstructure Evolution of Microinjection Molded Isotactic Polypropylene with the Assistance of Poly(Ethylene Terephthalate). Polymers, 2020, 12, 219.	2.0	6
39	In Situ Microfibrillation of Polyamide 66 and Construction of Ordered Polytetrafluoroethylene Fibers to Significantly Reduce the Friction Coefficient of Polyphenylene Sulfide. Industrial & Engineering Chemistry Research, 2021, 60, 281-290.	1.8	6
40	Properties of microinjectionâ€molded polypropylene/graphite composites. Polymer Engineering and Science, 2019, 59, 1560-1569.	1.5	5
41	Properties of gradient polyimide aerogels prepared through <scp>layerâ€byâ€layer</scp> assembly. Polymer Engineering and Science, 2020, 60, 2292-2300.	1.5	5
42	Microstructure and orientation evolution of microinjection molded Î²â€nucleated isotactic polypropylene/poly(ethylene terephthalate) blends. Polymer Engineering and Science, 2021, 61, 971-982.	1.5	5
43	Composite nanoarchitectonics of poly(vinylidene fluoride)/graphene for thermal and electrical conductivity enhancement via constructing segregated network structure. Journal of Polymer Research, 2022, 29, 1.	1.2	5
44	Controllable design of polytetrafluoroethylene chemical component using the â€œharmfulâ€irradiation heat. Polymers for Advanced Technologies, 2022, 33, 1956-1966.	1.6	4
45	Tribological behavior and morphology of PTFE particulate-reinforced POM matrix composites. Journal of Polymer Engineering, 2017, 37, 227-237.	0.6	3
46	Crystallization and thermal conductivity of poly (vinylidene fluoride)/boron nitride nanosheets composites. Polymer-Plastics Technology and Materials, 2020, 59, 1552-1561.	0.6	2
47	Effect of carbon fiber addition on the tribological properties of polyoxymethylene composites. Polymer Engineering and Science, 0, , .	1.5	1
48	Effect of mixing conditions and polymer particle size on the properties of polypropylene/graphite nanoplatelets micromoldings. International Polymer Processing, 2022, .	0.3	0