Shengtai Zhou

List of Publications by Year in Descending Order

44 papers	481 citations	13 h-index	20 g-index
49 ext. papers	685 ext. citations	3.9 avg, IF	4.14 L-index

#	Paper	IF	Citations
44	A Room Temperature Self-healing and Thermally Reprocessable Cross-linked Elastomer with Unprecedented Mechanical Properties for Ablation-resistant Applications. *Chemical Engineering Journal*, **2022**, 135156	14.7	3
43	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	9.1	4
42	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	2.7	0
41	Mechanically flexible polyimide foams with different chain structures for high temperature thermal insulation purposes. *Materials Today Physics*, **2022**, 100720	8	1
40	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	3.9	3
39	Structure to Properties Relations of Polyimide Foams Derived from Various Dianhydride Components. *Industrial & Engineering Chemistry Research*, **2021**, 60, 9489-9499	3.9	4
38	A Concurrent Enhancement of Both In-Plane and Through-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	3.9	5
37	Improving ablation properties of liquid silicone rubber composites by in situ construction of rich-porous char layer. *Journal of Applied Polymer Science*, **2021**, 138, 50030	2.9	8
36	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	2.9	3
35	Microstructure and orientation evolution of microinjection molded β-nucleated isotactic polypropylene/poly(ethylene terephthalate) blends. *Polymer Engineering and Science*, **2021**, 61, 971-982	2.3	1
34	A comparison of ablative resistance properties of liquid silicone rubber composites filled with different fibers. *Polymer Engineering and Science*, **2021**, 61, 442-452	2.3	4
33	Hybridization of Polytetrafluorethylene Fibers and Multiscale Short Carbon Fibers to Significantly Improve the Tribological Performance of Polyphenylene Sulfide. *Advanced Engineering Materials*, **2021**, 23, 2000787	3.5	2
32	Microinjection molding of polyoxymethylene/multiwalled carbon nanotubes composites with different matrix viscosities. *Journal of Applied Polymer Science*, **2021**, 138, 49817	2.9	6
31	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	10	1
30	Fabrication of Hollow Polyimide Microspheres with Controllable Sizes. *Macromolecular Chemistry and Physics*, **2021**, 222, 2100197	2.6	3
29	Investigation of the properties and structure of semi-rigid closed-cellular polyimide foams with different diamine structures. *Polymer*, **2021**, 229, 123957	3.9	6
28	Tribological properties of PTFE fiber filled polyoxymethylene composites: The influence of fiber orientation. *Composites Communications*, **2021**, 28, 100918	6.7	1

27	Crystallization and thermal conductivity of poly (vinylidene fluoride)/boron nitride nanosheets composites. *Polymer-Plastics Technology and Materials*, **2020**, 59, 1552-1561	1.5	0
26	Self-Reinforced Polypropylene/Graphene Composite with Segregated Structures To Achieve Balanced Electrical and Mechanical Properties. *Industrial & Engineering Chemistry Research*, **2020**, 59, 11206-11218	3.9	15
25	Preparation of polyimide/multi-walled carbon nanotubes composite aerogels with anisotropic properties. *Journal of Applied Polymer Science*, **2020**, 137, 49357	2.9	3
24	Properties of gradient polyimide aerogels prepared through layer-by-layer assembly. *Polymer Engineering and Science*, **2020**, 60, 2292-2300	2.3	0
23	Crystallization and Microstructure Evolution of Microinjection Molded Isotactic Polypropylene with the Assistance of Poly(Ethylene Terephthalate). *Polymers*, **2020**, 12,	4.5	2
22	Electrical, thermal, and mechanical properties of polypropylene/multiwalled carbon nanotube micromoldings. *Polymer Composites*, **2020**, 41, 1507-1520	3	5
21	Room-Temperature Self-Healing Ablative Composites via Dynamic Covalent Bonds for High-Performance Applications. *ACS Applied Polymer Materials*, **2020**, 2, 3977-3987	4.3	13
20	Preparation of thermally conductive polycarbonate/boron nitride composites with balanced mechanical properties. *Polymer Composites*, **2020**, 41, 5418-5427	3	3
19	Properties of microinjection-molded polypropylene/graphite composites. *Polymer Engineering and Science*, **2019**, 59, 1560-1569	2.3	3
18	Microinjection molding of multiwalled carbon nanotubes (CNT)-filled polycarbonate nanocomposites and comparison with electrical and morphological properties of various other CNT-filled thermoplastic micromoldings. *Polymers for Advanced Technologies*, **2018**, 29, 1753-1764	3.2	16
17	Properties of microinjection-molded multi-walled carbon nanotubes-filled poly(lactic acid)/poly[(butylene succinate)-co-adipate] blend nanocomposites. *Journal of Materials Science*, **2018**, 53, 9013-9025	4.3	7
16	Microinjection molding of polypropylene/multi-walled carbon nanotube nanocomposites: The influence of process parameters. *Polymer Engineering and Science*, **2018**, 58, E226-E234	2.3	17
15	Effect of Hybrid Carbon Fillers on the Electrical and Morphological Properties of Polystyrene Nanocomposites in Microinjection Molding. *Nanomaterials*, **2018**, 8,	5.4	11
14	Tribological behavior and morphology of PTFE particulate-reinforced POM matrix composites. *Journal of Polymer Engineering*, **2017**, 37, 227-237	1.4	2
13	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	8.4	15
12	Electrical and morphological properties of microinjection molded polypropylene/carbon nanocomposites. *Journal of Applied Polymer Science*, **2017**, 134, 45462	2.9	21
11	Enhanced thermal conductivity of polyamide 6/polypropylene (PA6/PP) immiscible blends with high loadings of graphite. *Journal of Composite Materials*, **2016**, 50, 327-337	2.7	22
10	Enhanced mechanical and tribological properties in polyphenylene sulfide/polytetrafluoroethylene composites reinforced by short carbon fiber. *Composites Part B: Engineering*, **2016**, 91, 579-588	10	81

9	Electrical and morphological properties of microinjection molded polystyrene/multiwalled carbon nanotubes nanocomposites. *Polymer Engineering and Science*, **2016**, 56, 1182-1190	2.3	18
8	Effect of shape morphology on mechanical, rheological and tribological properties of polyoxymethylene/aramid composites. *Polymer Science - Series A*, **2015**, 57, 209-220	1.2	10
7	Thermal, electrical and rheological behavior of high-density polyethylene/graphite composites. *Iranian Polymer Journal (English Edition)*, **2015**, 24, 573-581	2.3	17
6	Preparation of highly thermally conducting polyamide 6/graphite composites via low-temperature in situ expansion. *Journal of Applied Polymer Science*, **2014**, 131, n/a-n/a	2.9	18
5	Thermally conductive composites obtained by flake graphite filling immiscible Polyamide 6/Polycarbonate blends. *Thermochimica Acta*, **2013**, 566, 84-91	2.9	94
4	High thermally conducting composites obtained via in situ exfoliation process of expandable graphite filled polyamide 6. *Polymer Composites*, **2013**, 34, 1816-1823	3	26
3	Combining Microwave-assisted Foaming and Post Curing Process to Prepare Lightweight Flexible Polyimide Foams for Thermal Insulation Applications. *Macromolecular Materials and Engineering*,2100941	3.9	1
2	Ablation Response Behavior under Different Heat Flux Environments for Liquid Silicone Rubber Composites. *ACS Applied Polymer Materials*,	4.3	2
1	Highly Thermally Conductive Yet Electrically Insulative Polycarbonate Composites with Oriented Hybrid Networks Assisted by High Shear Injection Molding. *Macromolecular Materials and Engineering*,2100632	3.9	1