

# Shi-guo Chen

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

2,644  
citations

159358

30  
h-index

182168

51  
g-index

59  
all docs

59  
docs citations

59  
times ranked

3872  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multifunctional phototheranostic nanomedicine for cancer imaging and treatment. <i>Materials Today Bio</i> , 2020, 5, 100035.	2.6	167
2	New insights into synergistic antimicrobial and antifouling cotton fabrics via dually finished with quaternary ammonium salt and zwitterionic sulfobetaine. <i>Chemical Engineering Journal</i> , 2018, 336, 123-132.	6.6	149
3	Durable Antibacterial and Nonfouling Cotton Textiles with Enhanced Comfort via Zwitterionic Sulfopropylbetaine Coating. <i>Small</i> , 2016, 12, 3516-3521.	5.2	145
4	Environmentally Friendly Antibacterial Cotton Textiles Finished with Siloxane Sulfopropylbetaine. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 1154-1162.	4.0	139
5	Enhanced water-solubility, antibacterial activity and biocompatibility upon introducing sulfobetaine and quaternary ammonium to chitosan. <i>Carbohydrate Polymers</i> , 2016, 143, 246-253.	5.1	122
6	Development of zwitterionic polyurethanes with multi-shape memory effects and self-healing properties. <i>Journal of Materials Chemistry A</i> , 2015, 3, 2924-2933.	5.2	114
7	Enhanced water-solubility and antibacterial activity of novel chitosan derivatives modified with quaternary phosphonium salt. <i>Materials Science and Engineering C</i> , 2016, 61, 79-84.	3.8	113
8	Rapid hemostatic and mild polyurethane-urea foam wound dressing for promoting wound healing. <i>Materials Science and Engineering C</i> , 2017, 71, 289-297.	3.8	95
9	Cytocompatible chitosan based multi-network hydrogels with antimicrobial, cell anti-adhesive and mechanical properties. <i>Carbohydrate Polymers</i> , 2018, 202, 246-257.	5.1	95
10	Synergistic antibacterial mechanism and coating application of copper/titanium dioxide nanoparticles. <i>Chemical Engineering Journal</i> , 2014, 256, 238-246.	6.6	94
11	Facile preparation and synergistic antibacterial effect of three-component Cu/TiO <sub>2</sub> /CS nanoparticles. <i>Journal of Materials Chemistry</i> , 2012, 22, 9092.	6.7	82
12	Flexible graphene electrothermal films made from electrochemically exfoliated graphite. <i>Journal of Materials Science</i> , 2016, 51, 1043-1051.	1.7	76
13	Insight into multifunctional polyester fabrics finished by one-step eco-friendly strategy. <i>Chemical Engineering Journal</i> , 2019, 358, 634-642.	6.6	75
14	Study of zwitterionic sulfopropylbetaine containing reactive siloxanes for application in antibacterial materials. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 85, 323-329.	2.5	59
15	Progress and prospects in chitosan derivatives: Modification strategies and medical applications. <i>Journal of Materials Science and Technology</i> , 2021, 89, 209-224.	5.6	49
16	Electrochemical biosensing platforms using poly-cyclodextrin and carbon nanotube composite. <i>Biosensors and Bioelectronics</i> , 2010, 26, 295-298.	5.3	47
17	Delivery of Liposomes with Different Sizes to Mice Brain after Sonication by Focused Ultrasound in the Presence of Microbubbles. <i>Ultrasound in Medicine and Biology</i> , 2016, 42, 1499-1511.	0.7	46
18	Development of zwitterionic copolymers with multi-shape memory effects and moisture-sensitive shape memory effects. <i>Journal of Materials Chemistry B</i> , 2015, 3, 6645-6655.	2.9	43

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19	Atomic force microscopy methodology and AFMech Suite software for nanomechanics on heterogeneous soft materials. <i>Nature Communications</i> , 2018, 9, 3584.	5.8	43
20	Smart multifunctional polyurethane microcapsules for the quick release of anticancer drugs in BGC 823 and HeLa tumor cells. <i>Journal of Materials Chemistry B</i> , 2017, 5, 9477-9481.	2.9	42
21	Non-leaching bactericidal cotton fabrics with well-preserved physical properties, no skin irritation and no toxicity. <i>Cellulose</i> , 2018, 25, 5415-5426.	2.4	42
22	Development of supramolecular liquid-crystalline polyurethane complexes exhibiting triple-shape functionality using a one-step programming process. <i>Journal of Materials Chemistry A</i> , 2014, 2, 10169-10181.	5.2	41
23	Guanidine-functionalized cotton fabrics for achieving permanent antibacterial activity without compromising their physicochemical properties and cytocompatibility. <i>Cellulose</i> , 2020, 27, 6027-6036.	2.4	41
24	Shaped core/shell polymer nanoobjects with high antibacterial activities via block copolymer microphase separation. <i>Polymer</i> , 2013, 54, 3485-3491.	1.8	40
25	Non-Leaching, Rapid Bactericidal and Biocompatible Polyester Fabrics Finished with Benzophenone Terminated N-halamine. <i>Advanced Fiber Materials</i> , 2022, 4, 119-128.	7.9	40
26	Fabrication of Cu/TiO <sub>2</sub> nanocomposite: Toward an enhanced antibacterial performance in the absence of light. <i>Materials Letters</i> , 2012, 83, 154-157.	1.3	39
27	A new AIE multi-block polyurethane copolymer material for subcellular microfilament imaging in living cells. <i>Chemical Communications</i> , 2017, 53, 7541-7544.	2.2	38
28	Insights into liquid-crystalline shape-memory polyurethane composites based on an amorphous reversible phase and hexadecyloxybenzoic acid. <i>Journal of Materials Chemistry C</i> , 2014, 2, 1041-1049.	2.7	36
29	Bactericidal and antifouling electrospun PVA nanofibers modified with a quaternary ammonium salt and zwitterionic sulfopropylbetaine. <i>Materials Science and Engineering C</i> , 2020, 111, 110855.	3.8	36
30	Electroactive two-way shape memory polymer laminates. <i>Polymer Composites</i> , 2015, 36, 439-444.	2.3	34
31	Facile fabrication of polyurethane microcapsules carriers for tracing cellular internalization and intracellular pH-triggered drug release. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 153, 160-167.	2.5	30
32	Relationships between organic vapor adsorption behaviors and gas sensitivity of carbon black filled waterborne polyurethane composites. <i>Sensors and Actuators B: Chemical</i> , 2006, 119, 110-117.	4.0	29
33	Development of liquid-crystalline shape-memory polyurethane composites based on polyurethane with semi-crystalline reversible phase and hexadecyloxybenzoic acid for self-healing applications. <i>Journal of Materials Chemistry C</i> , 2014, 2, 4203-4212.	2.7	28
34	Effect of MDI-BDO hard segment on pyridine-containing shape memory polyurethanes. <i>Journal of Materials Science</i> , 2011, 46, 5294-5304.	1.7	27
35	Studies of the moisture-sensitive shape memory effect of pyridine-containing polyurethanes. <i>Polymer International</i> , 2012, 61, 314-320.	1.6	27
36	Development of shape memory polyurethane based on polyethylene glycol and liquefied 4,4'-diphenylmethane diisocyanate using a bulk method for biomedical applications. <i>Polymer International</i> , 2015, 64, 477-485.	1.6	26

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37	New insights into multi-shape memory behaviours and liquid crystalline properties of supramolecular polyurethane complexes based on pyridine-containing polyurethane and 4-octyldecyloxybenzoic acid. <i>Journal of Materials Chemistry A</i> , 2015, 3, 19525-19538.	5.2	25
38	Enhancing the chemotherapeutic efficacy of platinum prodrug nanoparticles and inhibiting cancer metastasis by targeting iron homeostasis. <i>Nanoscale Horizons</i> , 2020, 5, 999-1015.	4.1	25
39	Hierarchically porous sponge for oily water treatment: Facile fabrication by combination of particulate templates and thermally induced phase separation method. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 62, 192-196.	2.9	24
40	A mitochondria targeting artesunate prodrug-loaded nanoparticle exerting anticancer activity via iron-mediated generation of the reactive oxygen species. <i>Chemical Communications</i> , 2019, 55, 4781-4784.	2.2	23
41	Green light-triggered antimicrobial cotton fabric for wastewater disinfection. <i>Materials Today Physics</i> , 2020, 15, 100254.	2.9	22
42	A new strategy for designing multifunctional shape memory polymers with amine-containing polyurethanes. <i>Journal of Materials Science</i> , 2016, 51, 9131-9144.	1.7	19
43	Wetting-Enhanced Structural Color for Convenient and Reversible Encryption of Optical Information. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 42276-42286.	4.0	18
44	Synthesis and characterization of siloxane sulfobetaine antimicrobial agents. <i>Surface Science</i> , 2011, 605, L25-L28.	0.8	16
45	Stretchable unidirectional liquid-transporting membrane with antibacterial and biocompatible features based on chitosan derivative and composite nanofibers. <i>Carbohydrate Polymers</i> , 2022, 276, 118703.	5.1	16
46	Spontaneous polarization induced electrostatic charge in washable electret composite fabrics for reusable air-filtering application. <i>Composites Science and Technology</i> , 2022, 217, 109093.	3.8	16
47	Studies on the thermal stability of polyurethanes containing pyridine: Thermogravimetric analysis. <i>Thermochimica Acta</i> , 2012, 543, 281-287.	1.2	15
48	Electrochemical lithiation and delithiation performance of SnSb-Ag/carbon nanonube composites for lithium-ion batteries. <i>Journal of Power Sources</i> , 2013, 233, 166-173.	4.0	15
49	Study on the structure and morphology of supramolecular shape memory polyurethane containing pyridine moieties. <i>Smart Materials and Structures</i> , 2011, 20, 065003.	1.8	14
50	Template-free synthesis of polystyrene monoliths for the removal of oil-in-water emulsion. <i>Scientific Reports</i> , 2017, 7, 6534.	1.6	14
51	On the modulus shift and thermorheological complexity in polyolefins. <i>Rheologica Acta</i> , 2015, 54, 695-704.	1.1	12
52	Self-Assembling of Electrochemical Glucose Biosensor with Bacteriostatic Materials via Layer-by-Layer Method. <i>Journal of the Electrochemical Society</i> , 2017, 164, B189-B192.	1.3	8
53	A shape memory copolymer based on 2-(dimethylamino)ethyl methacrylate and methyl allyl polyethenoxy ether for potential biological applications. <i>RSC Advances</i> , 2015, 5, 44435-44446.	1.7	6
54	Giant persistent antimicrobial and biocompatible polyester fabrics for anti-mold food packaging. <i>Materials Today Chemistry</i> , 2021, 22, 100571.	1.7	5

#	ARTICLE	IF	CITATIONS
55	Facile preparation of shape memory polyurethanes by polyurethanes blending. Journal of Applied Polymer Science, 2013, 130, 4047-4053.	1.3	2
56	Packaging of graphite/epoxy composite film as electric heating devices. , 2014, , .		0
57	Effect of diisocyanate on pyridine containing shape memory polyurethanes based on <i>N,N</i> -bis(2-hydroxyethyl)isonicotinamide. Journal of Applied Polymer Science, 2014, 131, .	1.3	0
58	Packaging of graphite/epoxy composite film as electric heating devices. , 2014, , .		0