Ge Gao

List of Publications by Year
in descending order

46 papers	1,438 citations	361413 20 h-index	330143 37 g-index
46 all docs	46 docs citations	46 times ranked	1817 citing authors

#	Article	IF	Citations
1	Chemical Insights into Antibacterial N-Halamines. Chemical Reviews, 2017, 117, 4806-4862.	47.7	279
2	Temperature-Responsive Properties of Poly(acrylic acid-co-acrylamide) Hydrophobic Association Hydrogels with High Mechanical Strength. Macromolecules, 2010, 43, 10645-10651.	4.8	114
3	Insight into Biological Effects of Zinc Oxide Nanoflowers on Bacteria: Why Morphology Matters. ACS Applied Materials & Interfaces, 2016, 8, 10109-10120.	8.0	109
4	Conductivity and Viscosity of 1-Allyl-3-methyl-imidazolium Chloride + Water and + Ethanol from 293.15 K to 333.15 K. Journal of Chemical & Engineering Data, 2005, 50, 133-135.	1.9	87
5	Rheology and biodegradation of polylactide/silica nanocomposites. Polymer Composites, 2012, 33, 1719-1727.	4.6	81
6	N-Halamine-Containing Electrospun Fibers Kill Bacteria via a Contact/Release Co-Determined Antibacterial Pathway. ACS Applied Materials & Interfaces, 2016, 8, 31530-31540.	8.0	76
7	Synthesis, Characterization, and Bactericidal Evaluation of Chitosan/Guanidine Functionalized Graphene Oxide Composites. Molecules, 2017, 22, 12.	3.8	66
8	Unexpected Enhancement in Antibacterial Activity of N-Halamine Polymers from Spheres to Fibers. ACS Applied Materials & Interfaces, 2015, 7, 17516-17526.	8.0	50
9	Bactericidal evaluation of N-halamine-functionalized silica nanoparticles based on barbituric acid. Colloids and Surfaces B: Biointerfaces, 2014, 113, 450-457.	5.0	42
10	Decorating CdTe QD-Embedded Mesoporous Silica Nanospheres with Ag NPs to Prevent Bacteria Invasion for Enhanced Anticounterfeit Applications. ACS Applied Materials & Interfaces, 2015, 7, 10022-10033.	8.0	42
11	Assessment of 2,2,6,6-tetramethyl-4-piperidinol-based amine N-halamine-labeled silica nanoparticles as potent antibiotics for deactivating bacteria. Colloids and Surfaces B: Biointerfaces, 2015, 126, 106-114.	5.0	41
12	Damping materials based on polyurethane/polyacrylate IPNs: dynamic mechanical spectroscopy, mechanical properties and multiphase morphology. Polymer International, 1999, 48, 805-810.	3.1	40
13	Influences of Intramolecular Cyclization on Structure and Cross-Linking Reaction Processes of PVA Hydrogels. Macromolecules, 2006, 39, 1160-1164.	4.8	33
14	Effect of salt solutions on chain structure of partially hydrolyzed polyacrylamide. Central South University, 2008, 15, 80-83.	0.5	31
15	Synthesis and bactericidal evaluation of imide N-halamine-loaded PMMA nanoparticles. New Journal of Chemistry, 2015, 39, 1783-1791.	2.8	30
16	Design, synthesis and biocidal effect of novel amine N-halamine microspheres based on 2,2,6,6-tetramethyl-4-piperidinol as promising antibacterial agents. RSC Advances, 2014, 4, 47853-47864.	3.6	28
17	N-Halamine polymer from bipolymer to amphiphilic terpolymer with enhancement in antibacterial activity. Colloids and Surfaces B: Biointerfaces, 2018, 163, 402-411.	5.0	28
18	Thermosensitive poly (N-isopropylacrylamide) hydrophobic associated hydrogels: optical, swelling/deswelling, and mechanical properties. Journal of Materials Science, 2013, 48, 774-784.	3.7	27

#	Article	IF	Citations
19	Tailored synthesis of amine N-halamine copolymerized polystyrene with capability of killing bacteria. Journal of Colloid and Interface Science, 2015, 444, 1-9.	9.4	23
20	Study on miscibility, thermal properties, degradation behaviors, and toughening mechanism of poly(lactic acid)/poly (ethylene-butylacrylate-glycidyl methacrylate) blends. International Journal of Biological Macromolecules, 2020, 143, 443-452.	7.5	21
21	Poly(maleic anhydride-co-acrylic acid)/poly(ethylene glycol) hydrogels with pH- and ionic-strength-responses. Chinese Journal of Polymer Science (English Edition), 2010, 28, 951-959.	3.8	20
22	Preparation and characterization of Ag/AgO nanoshells on carboxylated polystyrene latex particles. Journal of Materials Research, 2006, 21, 349-354.	2.6	17
23	Magnetiteâ€coated polystyrene hybrid microspheres prepared by miniemulsion polymerization. Polymer International, 2008, 57, 584-591.	3.1	15
24	Novel antibacterial fibers of amphiphilic N â€halamine polymer prepared by electrospinning. Polymers for Advanced Technologies, 2019, 30, 1386-1393.	3.2	15
25	Rheological, thermal, and morphological properties of ABS-PA1010 blends. Journal of Applied Polymer Science, 1999, 72, 683-688.	2.6	11
26	Effect of the sodium dodecyl sulfate/monomer ratio on the network structure of hydrophobic association hydrogels with adjustable mechanical properties. Journal of Applied Polymer Science, 2017, 134, 45196.	2.6	11
27	Diethylene glycol monobutyl ether adipate as a novel plasticizer for biodegradable polylactide. Polymer Bulletin, 2016, 73, 3143-3161.	3.3	10
28	Rheological, thermal and mechanical properties of biodegradable poly(lactic acid)/poly(butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3 Bulletin, 2020, 77, 4235-4258.	3.3	10
29	Rheological, thermal and mechanical properties of biodegradable poly(propylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 347 T Science (English Edition), 2015, 33, 1702-1712.	3.8	9
30	Studies on Rheological, Thermal, and Mechanical Properties of Polylactide/Methyl Methacrylate-Butadiene-Styrene Copolymer/Poly(propylene carbonate) Polyurethane Ternary Blends. Chinese Journal of Polymer Science (English Edition), 2019, 37, 1273-1282.	3.8	9
31	Influence of methyl methacrylateâ€butadieneâ€styrene copolymer on plasticized polylactide blown films. Polymer Engineering and Science, 2018, 58, E4.	3.1	8
32	Network structure and mechanical properties of hydrophobic association hydrogels: Surfactant effect I. Journal of Applied Polymer Science, 2015, 132, .	2.6	7
33	The effect of composition and the introduction of positive charge group (?N(CH3)2) on the multiphase morphology of polyurethane/polyacrylates interpenetrating polymer networks. Journal of Applied Polymer Science, 1999, 74, 1898-1904.	2.6	6
34	Molecular size and morphology of single chains of poly(sulfobetaine methacrylate). Chemical Research in Chinese Universities, 2016, 32, 499-504.	2.6	6
35	Novel hydrophilic Nâ€halamine polymer with enhanced antibacterial activity synthesized by inverse emulsion polymerization. Journal of Applied Polymer Science, 2019, 136, 47419.	2.6	5
36	Polychromatic lightâ€emitting conjugated polymer prepared by controlling its structure through active free radical addition. Polymer International, 2008, 57, 921-926.	3.1	4

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37	Preparation of zinc oxide nanocrystals with high stability in the aqueous phase. Journal of Applied Polymer Science, 2013, 128, 2162-2166.	2.6	4
38	The simultaneous introduction of low and high molecular weight of biodegradable Poly(diethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.1	4
39	Poly(butylene terephthalate) Toughening with Butadiene-Epoxy-Functionalized Methyl Methacrylate Coreâ€“Shell Copolymer. Journal of Macromolecular Science - Physics, 2015, 54, 1267-1281.	1.0	4
40	Phase behavior of a high-concentration sulfobetaine zwitterionic polymer solution. Polymer Journal, 2017, 49, 767-774.	2.7	4
41	Use of Amidoxime Polyacrylonitrile Bead-Supported Pd-Based Nanoparticles as High Efficiency Catalysts for Dehydrogenation of Formic Acid. Journal of Nanoscience and Nanotechnology, 2020, 20, 2389-2394.	0.9	4
42	Preparation of polystyrene/poly[2â€•methoxyâ€5â€(2â€²â€•ethylhexyloxy)â€pâ€phenylenevinylene] fluorescent microspheres by miniemulsion polymerization. Polymer International, 2013, 62, 665-669.	3.1	3
43	Crystalline and thermal behavior of poly(ethylene terephthalate)/polyphenoxy blends. Journal of Applied Polymer Science, 2005, 97, 878-885.	2.6	2
44	Electrochemical behavior of hemoglobin in neutral surfactants with different poly(ethylene oxide) unit lengths adsorbed on an electrode. Science China Chemistry, 2012, 55, 151-157.	8.2	1
45	Effect of epoxy resin on the thermal, mechanical and rheological properties of polybutylene terephthalate/glycidyl methacrylate functionalized methyl methacrylate-butadiene blend. Chemical Research in Chinese Universities, 2016, 32, 140-148.	2.6	1
46	Phase behaviors of poly(sulfobetaine methacrylate) in various concentrations of NaCl aqueous solutions at critical transparent state. Journal of Dispersion Science and Technology, 2018, 39, 143-147.	2.4	0