

Anna Zheng

List of Publications by Year in descending order

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58
papers

1,010
citations

623574

14
h-index

454834

30
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58
all docs

58
docs citations

58
times ranked

1274
citing authors

#	ARTICLE	IF	CITATIONS
1	Soil burial biodegradation of antimicrobial biodegradable PBAT films. <i>Polymer Degradation and Stability</i> , 2015, 116, 14-22.	2.7	145
2	Structural characterization and antibacterial activity of oligoguanidine (polyhexamethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702 T	3.8	118
3	Morphology and mechanical properties of poly(butylene adipate-co-terephthalate)/potato starch blends in the presence of synthesized reactive compatibilizer or modified poly(butylene) Tj ETQq1 1 0.784314 rgBT5,Overlock 10 Tf 50 702 T	1.0	10
4	Permanent antimicrobial cotton fabrics obtained by surface treatment with modified guanidine. <i>Carbohydrate Polymers</i> , 2018, 180, 192-199.	5.1	64
5	Hydrogen-Bond Assembly of Poly(vinyl alcohol) and Polyhexamethylene Guanidine for Nonleaching and Transparent Antimicrobial Films. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 37535-37543.	4.0	60
6	Improving foamability of polypropylene by grafting modification. <i>Journal of Applied Polymer Science</i> , 2006, 101, 4114-4123.	1.3	30
7	Copolymers of styrene with a quaternary europium complex. <i>Journal of Applied Polymer Science</i> , 2006, 100, 1506-1510.	1.3	28
8	Investigation on the reaction between polyhexamethylene guanidine hydrochloride oligomer and glycidyl methacrylate. <i>Journal of Applied Polymer Science</i> , 2013, 127, 666-674.	1.3	28
9	Surface chemical bonding with poly(hexamethylene guanidine) for non-leaching antimicrobial poly(ethylene terephthalate). <i>Journal of Materials Science</i> , 2019, 54, 2699-2711.	1.7	23
10	Preparation and Properties of Nonleaching Antimicrobial Linear Low-Density Polyethylene Films. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 1824-1831.	1.8	22
11	Antimicrobial paper obtained by dip-coating with modified guanidine-based particle aqueous dispersion. <i>Cellulose</i> , 2017, 24, 3901-3910.	2.4	22
12	Surface enrichment and nonleaching antimicrobial performance of polypropylene grafted poly(hexamethylene guanidine) (PP-g-PHMG) in poly(ethylene terephthalate)/PP-g-PHMG. <i>European Polymer Journal</i> , 2019, 118, 231-238.	2.6	22
13	Novel comb-like ionenes with aliphatic side chains: synthesis and antimicrobial properties. <i>Journal of Materials Science</i> , 2013, 48, 1162-1171.	1.7	18
14	Surface antimicrobial modification of polyamide by poly(hexamethylene guanidine) hydrochloride. <i>Polymers for Advanced Technologies</i> , 2020, 31, 1847-1856.	1.6	16
15	Preparation of Fluorosilicone Random Copolymers with Properties Superior to Those of Fluorosilicone/Silicone Polymer Blends. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2015, 25, 1267-1276.	1.9	15
16	Preparation of nonleaching antimicrobial polypropylene wax and its application in polypropylene. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	1.3	15
17	Permanent Antimicrobial Poly(vinylidene fluoride) Prepared by Chemical Bonding with Poly(hexamethylene guanidine). <i>ACS Omega</i> , 2020, 5, 10481-10488.	1.6	15
18	Amphiphilic star block copolymers as gene carrier Part I: Synthesis via ATRP using calix[4]resorcinarene-based initiators and characterization. <i>Materials Science and Engineering C</i> , 2013, 33, 519-526.	3.8	14

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19	Gene reconstruction spandex with intrinsic antimicrobial activity. <i>Chemical Engineering Journal</i> , 2021, 404, 125152.	6.6	14
20	Antimicrobial polyethylene wax emulsion and its application on active paper-based packaging material. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	13
21	Hybrid poly(ethylene terephthalate)/silica nanocomposites prepared by in-situ polymerization. <i>Polymer Composites</i> , 2007, 28, 42-46.	2.3	11
22	Branching and cross-linking of poly(ethylene terephthalate) and its foaming properties. <i>Polymer Science - Series B</i> , 2017, 59, 164-172.	0.3	11
23	Preparation and characterization of rare earth complex europium ³⁺ -acrylate-1,10-phenanthroline grafted onto polypropylene. <i>Journal of Applied Polymer Science</i> , 2006, 102, 1547-1552.	1.3	10
24	Properties of a novel thermal sensitive polymer based on poly(vinyl alcohol) and its layer-by-layer assembly. <i>Polymers for Advanced Technologies</i> , 2007, 18, 335-345.	1.6	10
25	A novel approach for anionic bulk polymerization of 1,3,5-tris(trifluoropropylmethyl)cyclotrisiloxane. <i>Polymer Engineering and Science</i> , 2010, 50, 2440-2447.	1.5	10
26	Permanent antistatic polypropylene based on polyethylene wax/polypropylene wax grafting sodium acrylate. <i>Journal of Applied Polymer Science</i> , 2012, 126, 83-90.	1.3	10
27	Synthesis and characterization of a novel water-soluble cationic diblock copolymer with star conformation by ATRP. <i>Materials Science and Engineering C</i> , 2014, 43, 350-358.	3.8	10
28	A controlled synthesis method of polystyrene- <i>b</i> -polyisoprene- <i>b</i> -poly(methyl methacrylate) copolymer via anionic polymerization with trace amounts of THF having potential of a commercial scale. <i>RSC Advances</i> , 2017, 7, 9933-9940.	1.7	10
29	Preparation of graphene oxide modified glass fibers and their application in flame retardant polyamide 6. <i>Polymers for Advanced Technologies</i> , 2020, 31, 1709-1718.	1.6	10
30	Morphology of poly(styrene- <i>b</i> -dimethylsiloxane) copolymer films. <i>Journal of Applied Polymer Science</i> , 2007, 104, 1010-1018.	1.3	9
31	Effect of silanol on the thermal stability of poly[methyl(trifluoropropyl)siloxane]. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49347.	1.3	9
32	The characterization of rheological properties of melt grafting polypropylene for foaming. <i>Polymer Bulletin</i> , 2009, 63, 111-123.	1.7	8
33	Preparation of antistatic and antimicrobial polyethylene by incorporating of comb-like ionenes. <i>Journal of Materials Science</i> , 2012, 47, 7201-7209.	1.7	8
34	Anionic bulk polymerization to synthesize styrene- <i>b</i> -isoprene diblock and multiblock copolymers by reactive extrusion. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	8
35	Synthesis and properties of polystyrene/polydimethylsiloxane graft copolymers. <i>Frontiers of Chemistry in China: Selected Publications From Chinese Universities</i> , 2006, 1, 350-356.	0.4	7
36	Synthesis of poly(<i>n</i> -hexyl methacrylate)- <i>b</i> -poly(methyl methacrylate) via anionic polymerization with <i>t</i> -BuOK as the initiator at ambient temperature. <i>RSC Advances</i> , 2017, 7, 53996-54001.	1.7	7

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37	Permanent antimicrobial silicone rubber based on bonding guanidine polymers. <i>Polymers for Advanced Technologies</i> , 2019, 30, 1555-1563.	1.6	7
38	Preparation and properties of an antimicrobial acrylic coating modified with guanidinium oligomer. <i>Journal of Coatings Technology Research</i> , 2020, 17, 1505-1513.	1.2	7
39	Permanent antistatic polypropylene based on polyethylene wax/polypropylene wax grafting sodium acrylate. <i>Journal of Applied Polymer Science</i> , 2013, 127, 959-966.	1.3	6
40	Study of Stimuli-Sensitivities of Amphiphilic Modified Star Poly[N,N-(Dimethylamino)ethyl Methacrylate] and Its Ability of DNA Complexation. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2014, 51, 898-906.	1.2	5
41	A Novel Efficient Ligand in Anionic Polymerization at Elevated Temperature. <i>Chinese Journal of Chemistry</i> , 2014, 32, 1128-1134.	2.6	5
42	Styrene/isoprene/butadiene integrated rubber prepared by anionic bulk polymerization in a twin-screw extruder. <i>Polymer Engineering and Science</i> , 2015, 55, 1163-1169.	1.5	5
43	A controlled synthesis method of alkyl methacrylate block copolymers via living anionic polymerization at ambient temperature. <i>RSC Advances</i> , 2019, 9, 16049-16056.	1.7	5
44	Surface properties of block and graft polystyrene-polydimethylsiloxane copolymers. <i>Journal of Applied Polymer Science</i> , 2006, 99, 2936-2942.	1.3	4
45	A New View of the Initiation and Propagation in Anionic Polymerization. <i>Chinese Journal of Chemistry</i> , 2013, 31, 393-400.	2.6	4
46	Nonleaching antimicrobial poly(vinyl alcohol)/polyhexamethylene guanidine hydrochloride hydrogels reinforced by hydrogen bond. <i>Polymers for Advanced Technologies</i> , 2020, 31, 3238-3246.	1.6	4
47	Studies on the Synthesis and the Reaction Mechanism of Epoxy-Terminated Polystyrene Oligomer. <i>Polymer Bulletin</i> , 2008, 60, 477-486.	1.7	3
48	Further Studies on the Anionic Copolymerization of Styrene and Glycidyl Methacrylate in Toluene. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2010, 47, 626-632.	1.2	3
49	Condensation between guanidine hydrochloride and diamine/multi-amine and its influence on the structures and antibacterial activity of oligoguanidines. <i>E-Polymers</i> , 2012, 12, .	1.3	3
50	Synthesis of Block Copolymers of Ethylhexyl Methacrylate, Hexyl Methacrylate and Methyl Methacrylate via Anionic Polymerization at Ambient Temperature. <i>Chinese Journal of Chemistry</i> , 2018, 36, 934-938.	2.6	3
51	Anionic living polymerization of alkyl methacrylate at ambient temperature and its mechanism research. <i>Journal of Polymer Science Part A</i> , 2019, 57, 1130-1139.	2.5	3
52	Permanent antimicrobial polymethyl methacrylate prepared by chemical bonding with poly(hexamethylene guanidine hydrochloride). <i>Polymers for Advanced Technologies</i> , 0, , .	1.6	2
53	Crystallization Behaviors of amino-terminated polyurethane (ATPU)-grafted polypropylene. <i>Polymer Bulletin</i> , 2006, 56, 179-191.	1.7	1
54	Synergistic effects of tetrabutyl titanate on intumescent flame-retarded polypropylene. <i>Journal of Applied Polymer Science</i> , 2013, 130, 4255-4263.	1.3	1

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55	Initiating Mechanism of the Anionic Polymerization of Methacrylates with $t\text{-BuOK}$ and the Synthesis of ABA Type Triblock Copolymers. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1900390.	1.1	1
56	Preparation of antibacterial down fibers by chemical grafting using novel guanidine salt oligomer. <i>Polymers for Advanced Technologies</i> , 2021, 32, 4082-4093.	1.6	1
57	An investigation on tribological properties and mechanical properties of UHMWPE/polycrystalline mullite fiber. <i>Polymer Bulletin</i> , 0, , 1.	1.7	0
58	Antibacterial mechanism of $\text{N}\alpha\text{-P}(\text{MI})$ and the characteristics of $\text{PMMA}\text{-}\text{co}\text{-}\text{N}\alpha\text{-P}(\text{MI})$ copolymer. <i>Chemistry and Biodiversity</i> , 2022, , .	1.0	0