

Zhihua Zhou

List of Publications by Year in descending order

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90
papers

1,593
citations

304368

22
h-index

377514

34
g-index

91
all docs

91
docs citations

91
times ranked

2017
citing authors

#	ARTICLE	IF	CITATIONS
1	Design, preparation and application of conjugated microporous polymers. <i>Polymer International</i> , 2014, 63, 381-392.	1.6	97
2	Design, preparation, and application of ordered porous polymer materials. <i>Materials Chemistry and Physics</i> , 2014, 144, 213-225.	2.0	62
3	Evaluation of gelatin-hyaluronic acid composite hydrogels for accelerating wound healing. <i>Journal of Biomaterials Applications</i> , 2017, 31, 1380-1390.	1.2	62
4	In-situ preparation of silver salts/collagen fiber hybrid composites and their photocatalytic and antibacterial activities. <i>Journal of Hazardous Materials</i> , 2018, 359, 274-280.	6.5	57
5	Synthesis of stable metal-containing porous organic polymers for gas storage. <i>European Polymer Journal</i> , 2017, 91, 242-247.	2.6	52
6	Covalent functionalization of graphene with poly(methyl methacrylate) by atom transfer radical polymerization at room temperature. <i>Polymer Chemistry</i> , 2012, 3, 2768.	1.9	50
7	Effect of Chemical Cross-linking on Properties of Gelatin/Hyaluronic Acid Composite Hydrogels. <i>Polymer-Plastics Technology and Engineering</i> , 2013, 52, 45-50.	1.9	50
8	Biomarkers-based Biosensing and Bioimaging with Graphene for Cancer Diagnosis. <i>Nanomaterials</i> , 2019, 9, 130.	1.9	50
9	Symmetrical bis-salophen probe serves as a selectively and sensitively fluorescent switch of gallium ions in living cells and zebrafish. <i>Talanta</i> , 2019, 205, 120118.	2.9	45
10	Polymer-based porous microcarriers as cell delivery systems for applications in bone and cartilage tissue engineering. <i>International Materials Reviews</i> , 2021, 66, 77-113.	9.4	45
11	Activity of a novel titanium-supported bimetallic PtSn/Ti electrode for electrocatalytic oxidation of formic acid and methanol. <i>Journal of Applied Electrochemistry</i> , 2008, 38, 695-701.	1.5	43
12	Fabrication and Physical Properties of Gelatin/Sodium Alginate/Hyaluronic Acid Composite Wound Dressing Hydrogel. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2014, 51, 318-325.	1.2	43
13	Novel ferrocene-based nanoporous organic polymers for clean energy application. <i>RSC Advances</i> , 2015, 5, 8933-8937.	1.7	40
14	In vivo SELEX of bone targeting aptamer in prostate cancer bone metastasis model. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 149-159.	3.3	33
15	Controlled release in vitro of icariin from gelatin/hyaluronic acid composite microspheres. <i>Polymer Bulletin</i> , 2016, 73, 1055-1066.	1.7	31
16	Preparation and characterization of PVA/SA/HA composite hydrogels for wound dressing. <i>International Journal of Polymer Analysis and Characterization</i> , 2019, 24, 132-141.	0.9	31
17	Fabrication of chitosan/alginate porous sponges as adsorbents for the removal of acid dyes from aqueous solution. <i>Journal of Materials Science</i> , 2019, 54, 9995-10008.	1.7	30
18	Novel nanoporous binary Ag-Ni electrocatalysts for hydrazine oxidation. <i>Rare Metals</i> , 2010, 29, 26-31.	3.6	28

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19	Design and synthesis of conjugated polymers of tunable pore size distribution. <i>Materials Chemistry and Physics</i> , 2017, 186, 11-18.	2.0	28
20	In vitro degradation behaviors of Poly-L-lactide/bioactive glass composite materials in phosphate-buffered solution. <i>Polymer Bulletin</i> , 2009, 63, 575-586.	1.7	26
21	Synthesis, characterization, and degradation behaviors of poly(D,L-lactide-co-glycolide) modified by maleic anhydride and ethanediamine. <i>International Journal of Polymer Analysis and Characterization</i> , 2017, 22, 575-586.	0.9	26
22	A New Fluorescent Probe Based on Aggregation Induced Emission for Selective and Quantitative Determination of Copper(II) and its Further Application to Cysteine Detection. <i>ChemistrySelect</i> , 2018, 3, 1521-1526.	0.7	24
23	Preparation and Properties of Novel Maleated Poly (D, L-lactide-co-glycolide) Porous Scaffolds for Tissue Engineering. <i>Journal of Macromolecular Science - Physics</i> , 2017, 56, 505-515.	0.4	23
24	Synthesis and characterization of novel maleated poly(d,l-lactide-co-glycolide) by direct melt copolymerization. <i>Polymer Bulletin</i> , 2015, 72, 1531-1543.	1.7	22
25	Effect of Surface Modification of Bioactive Glass on Properties of Poly-L-lactide Composite Materials. <i>Journal of Macromolecular Science - Physics</i> , 2012, 51, 1637-1646.	0.4	21
26	Biological Assessment In-Vivo of Gel-HA Scaffold Materials Containing Nano-Bioactive Glass for Tissue Engineering. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2014, 51, 572-576.	1.2	21
27	Synthesis and characterization of poly(D,L-lactide-co-glycolide) modified by maleic anhydride and 1,4-butanediamine. <i>International Journal of Polymer Analysis and Characterization</i> , 2018, 23, 474-482.	0.9	20
28	Preparation of gelatin/hyaluronic acid microspheres with different morphologies for drug delivery. <i>Polymer Bulletin</i> , 2015, 72, 713-723.	1.7	19
29	Strontium mineralized silk fibroin porous microcarriers with enhanced osteogenesis as injectable bone tissue engineering vehicles. <i>Materials Science and Engineering C</i> , 2021, 128, 112354.	3.8	19
30	Evaluation of the Potential Cytotoxicity of Metals Associated with Implanted Biomaterials (I). <i>Preparative Biochemistry and Biotechnology</i> , 2008, 39, 81-91.	1.0	18
31	Preparation and Characterization of Hyaluronic Acid Hydrogel Blends with Gelatin. <i>Journal of Macromolecular Science - Physics</i> , 2012, 51, 2392-2400.	0.4	18
32	Influence of Nano-Bioactive Glass (NBG) Content on Properties of Gelatin-Hyaluronic Acid/NBG Composite Scaffolds. <i>Journal of Macromolecular Science - Physics</i> , 2014, 53, 1145-1155.	0.4	18
33	Hypercrosslinked polystyrene microspheres with ultrahigh surface area and their application in gas storage. <i>Materials Chemistry and Physics</i> , 2017, 199, 616-622.	2.0	18
34	Influence of Degradation of Poly-L-lactide on Mass Loss, Mechanical Properties, and Crystallinity in Phosphate-Buffered Solution. <i>Journal of Macromolecular Science - Physics</i> , 2009, 48, 309-317.	0.4	16
35	Morphological and Functional Expression of Fibroblast on Poly(lactide-co-glycolide)/ β -Tricalcium Phosphate/Nature Bone. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2012, 61, 643-653.	1.8	16
36	Biological evaluation of poly-l-lactic acid composite containing bioactive glass. <i>Polymer Bulletin</i> , 2010, 65, 411-423.	1.7	15

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37	Isothermal crystallization and melting behaviors of nano TiO ₂ -modified polypropylene/polyamide 6 blends. <i>Polymer Composites</i> , 2012, 33, 1054-1063.	2.3	15
38	Preparation and In-vitro Degradation Behavior of Poly(L-lactide-co-glycolide-co- μ -caprolactone) Terpolymer. <i>Journal of Macromolecular Science - Physics</i> , 2019, 58, 568-577.	0.4	15
39	Biological Assessment of Composite Materials Based on Poly-L-lactide and Bovine Bone. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2013, 62, 81-84.	1.8	14
40	Preparation of collagen fiber/CaCO ₃ hybrid materials and their applications in synthetic paper. <i>Fibers and Polymers</i> , 2014, 15, 519-524.	1.1	14
41	Cytocompatibility of Poly(L-lactide-co-glycolide) Porous Scaffold Materials for Tissue Engineering. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2008, 57, 1026-1035.	1.8	13
42	Study on Controlled Release of 5-Fluorouracil from Gelatin/Chitosan Microspheres. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2012, 49, 1030-1034.	1.2	13
43	Fabrication and Characterization of Gelatin/Chitosan Microspheres for Drug Release. <i>Journal of Macromolecular Science - Physics</i> , 2012, 51, 777-785.	0.4	13
44	Mechanical and Antibacterial Properties of Polypropylene/Polyamide 6 Blends-TiO ₂ Nanocomposites. <i>Polymer-Plastics Technology and Engineering</i> , 2012, 51, 849-853.	1.9	11
45	Evaluation of Biological Properties In-Vivo of Poly(L-Lactide-Coglycolide) Composites Containing Bioactive Glass. <i>Polymers and Polymer Composites</i> , 2013, 21, 79-84.	1.0	11
46	Preparation and Properties of Polyurethane Hydrogels Based on Methylene Diphenyl Diisocyanate/Polycaprolactone-Polyethylene Glycol. <i>Journal of Macromolecular Science - Physics</i> , 2016, 55, 839-848.	0.4	11
47	Preparation and properties of BMPLGA/NBAG- β -TCP composite scaffold materials. <i>International Journal of Polymer Analysis and Characterization</i> , 2018, 23, 710-720.	0.9	11
48	Preparation and Characterization of Poly(L-lactide-co-glycolide-co- μ -caprolactone) Scaffolds by Thermally Induced Phase Separation. <i>Journal of Macromolecular Science - Physics</i> , 2020, 59, 427-439.	0.4	11
49	Characterization of Biocompatible Scaffolds Based on Gelatin and Hyaluronic Acid for Fibroblasts Culture. <i>Polymers and Polymer Composites</i> , 2012, 20, 791-796.	1.0	10
50	Influence of Mass Ratio of Polyols on Properties of Polycaprolactone-Polyethylene Glycol/Methylene Diphenyl Diisocyanate/Diethylene Glycol Hydrogels. <i>Journal of Macromolecular Science - Physics</i> , 2017, 56, 315-323.	0.4	10
51	A Comparative Study of Preparation of Porous Poly-L-lactide Scaffolds Using NaHCO ₃ and NaCl as Porogen Materials. <i>Journal of Macromolecular Science - Physics</i> , 2008, 47, 667-674.	0.4	9
52	Fabrication and Properties of Composite Biomaterials Composed of Poly(L-Lactide) and Bovine Bone. Designed Monomers and Polymers, 2009, 12, 57-67.	0.7	9
53	Influences of Molecular Weight and Content of Polyethylene Glycol on Morphology and Size of Nano-Bioactive Glass. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2014, 51, 522-527.	1.2	9
54	Polyurethane membrane with temperature- and pH-Controllable permeability for amino-acids. <i>Macromolecular Research</i> , 2015, 23, 94-99.	1.0	9

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55	Synthesis and Characterization of Terpolymers of poly(L-lactide-glycolide- ϵ -caprolactone). Journal of Macromolecular Science - Physics, 2018, 57, 562-571.	0.4	9
56	Influence of Thermal Treatment on the Thermal Behavior of Poly(L-lactide). Journal of Macromolecular Science - Physics, 2007, 46, 1247-1254.	0.4	8
57	Preparation of Conductive Polyaniline/Functionalized Titanium Dioxide Nanocomposites via Graft Polymerization. Journal of Macromolecular Science - Pure and Applied Chemistry, 2012, 49, 149-153.	1.2	8
58	Covalent Functionalization of Silica Nanoparticle with Poly(glycidyl methacrylate) via ATRP at Ambient Temperature. Journal of Macromolecular Science - Pure and Applied Chemistry, 2013, 50, 25-28.	1.2	8
59	In-vitro Degradation Behaviors of Poly(L-lactide-co-glycolide-co- ϵ -caprolactone) Microspheres. Journal of Macromolecular Science - Physics, 2021, 60, 521-529.	0.4	8
60	Preparation of Monodisperse Cationic Microspheres by Dispersion Polymerization of Styrene and a Cation-Charged Monomer in the Absence of a Stabilizer. Journal of Macromolecular Science - Pure and Applied Chemistry, 2011, 48, 518-525.	1.2	7
61	Fabrication and Properties of Gelatin/Chitosan Microspheres Loaded with 5-Fluorouracil. Journal of Macromolecular Science - Physics, 2013, 52, 973-983.	0.4	7
62	Biocompatibility In-vitro of Gel/HA Composite Scaffolds Containing Nano-Bioactive Glass for Tissue Engineering. Journal of Macromolecular Science - Pure and Applied Chemistry, 2013, 50, 1048-1053.	1.2	7
63	Mechanical properties and nonisothermal crystallization kinetics of polyamide 6/functionalized TiO ₂ nanocomposites. Polymer Composites, 2014, 35, 294-300.	2.3	7
64	A Novel Route to Prepare Cationic Polystyrene Latex Particles with Monodispersity. Journal of Macromolecular Science - Pure and Applied Chemistry, 2014, 51, 271-278.	1.2	7
65	In-vitro degradation behavior and biological properties of a novel maleated poly (D, L) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 347 58, 209-218.	0.4	7
66	Polyurethane Synthetic Papers Based on Different Inorganic Fillers with Water and Fire Resistance. Macromolecular Materials and Engineering, 2019, 304, 1800473.	1.7	7
67	Efficient Synthesis of Isoquinoline and Its Derivatives: From Metal Catalysts to Catalyst-free Processes in Water. Russian Journal of General Chemistry, 2020, 90, 2012-2027.	0.3	7
68	Fabrication of Degradable Bone-Like Substitutes Based on Poly-L-lactide and β -tricalcium Phosphate. Journal of Macromolecular Science - Physics, 2010, 49, 781-790.	0.4	6
69	Preparation and Properties of 2, 4-Diisocyanic Acid Methyl Ester/Poly(ϵ -caprolactone)/Diethylene Glycol Hydrogels. Journal of Macromolecular Science - Physics, 2017, 56, 245-253.	0.4	6
70	Preparation and Properties of Poly(D,L-lactide-co-glycolide-co- ϵ -caprolactone)/1,4-Butanediamine Modified Poly(lactide-co-glycolide) Blend Porous Microspheres. Journal of Macromolecular Science - Physics, 2022, 61, 270-280.	0.4	6
71	A simple route to prepare pomegranate-like polystyrene-based microspheres with high porosity. Polymer International, 2011, 60, 1287-1290.	1.6	5
72	Simultaneous delivery of gene and chemotherapeutics via copolymeric micellar nanoparticles to overcome multiple drug resistance to promote synergistic tumor suppression. Journal of Biomaterials Applications, 2019, 34, 130-140.	1.2	5

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73	Preparation and Degradation Behaviors of Poly(L-lactide-co-glycolide-co- μ -caprolactone)/1,4-butanediamine Modified Poly(lactic-co-glycolic acid) Blend Film. <i>Journal of Macromolecular Science - Physics</i> , 2020, 59, 491-501.	0.4	5
74	Fabrication of Poly-l-lactide Biomaterials with High Mechanical Properties Using Fiber Oriented Pressing. <i>Journal of Macromolecular Science - Physics</i> , 2008, 47, 847-858.	0.4	4
75	Biocompatibility properties of composite scaffolds based on 1,4-butanediamine modified poly(lactide-co-glycolide) and nanobioceramics. <i>International Journal of Polymer Analysis and Characterization</i> , 2019, 24, 428-438.	0.9	4
76	Preparation and Characterization of Poly(l-lactide-co-glycolide-co- μ -caprolactone) Porous Microspheres. <i>Journal of Macromolecular Science - Physics</i> , 2021, 60, 313-323.	0.4	4
77	Preparation of doubly responsive polymer functionalized silica hybrid nanoparticles via a one-pot thiol- ϵ -socyanate click reaction at room temperature. <i>Polymer Composites</i> , 2017, 38, 1454-1461.	2.3	3
78	Preparation and Properties of Sodium Alginate/Silk Fibroin Microcarriers. <i>Journal of Macromolecular Science - Physics</i> , 2022, 61, 636-648.	0.4	3
79	Evaluation of the potential cytotoxicity of metals associated with implanted biomaterials (II). <i>Journal of Medical Engineering and Technology</i> , 2010, 34, 455-461.	0.8	2
80	Preparation of Poly (L-lactic Acid) Microsphere. <i>Journal of Macromolecular Science - Physics</i> , 2010, 50, 300-305.	0.4	2
81	Biocompatibility In-vivo of Poly-L-lactide and Bioactive Glass Composite Substitute for Internal Fracture Fixation. <i>Polymers and Polymer Composites</i> , 2011, 19, 797-802.	1.0	2
82	Novel temperature-sensitive and pH-sensitive polyurethane membranes: preparation and characterization. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2015, 10, 193-200.	0.8	2
83	A Novel Amphiphilic AIE Molecule and Its Application in Thermosensitive Liposome. <i>ChemistrySelect</i> , 2019, 4, 5195-5198.	0.7	2
84	Preparation and Characterization of Poly(L-lactide-co-glycolide-co- μ -caprolactone)/Nano-bioactive Glass-Nano- β -tricalcium Phosphate Composite Scaffolds. <i>Journal of Macromolecular Science - Physics</i> , 2020, 59, 415-425.	0.4	2
85	The relationship between typical heavy metal content and physiological indexes of shrubs in bioretention facilities. <i>Hydrology Research</i> , 2021, 52, 1132-1142.	1.1	2
86	Onsite Tests and Numerical Simulation of Broken Rock Zones in Surrounding Rocks of Seepage Roadways under Blasting. <i>Geofluids</i> , 2020, 2020, 1-8.	0.3	2
87	A discrete Fourier transform-based method for Nyquist signal shaping in VLC-SCFDE system. , 2018, , .		1
88	Preparation and Characterization of Poly(L-lactide-co-glycolide-co- μ -caprolactone)/1,4-Butanediamine Modified Maleated Poly(D,L-lactide-co-glycolide) Blend Porous Films. <i>Journal of Macromolecular Science - Physics</i> , 2021, 60, 51-62.	0.4	1
89	Preparation and Characterization of Poly(lactide-co-glycolide-co- μ -caprolactone)-1,4-Butanediamine-Modified Poly(lactide-co-glycolide)/Nano-Bioactive Glass- β -Tricalcium Phosphate Composite Scaffolds. <i>Journal of Macromolecular Science - Physics</i> , 2022, 61, 622-635.	0.4	1
90	Preparation and Characterization of Nanocomposite Scaffolds Based on Polycaprolactone-Polyethylene Glycol/Methylene Diphenyl Diisocyanate/Diethylene Glycol and Nano-Bioactive Glass. <i>Journal of Macromolecular Science - Physics</i> , 2019, 58, 442-451.	0.4	0