

Xiaowen Zhao

List of Publications by Year in descending order

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56
papers

1,074
citations

394286

19
h-index

477173

29
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56
all docs

56
docs citations

56
times ranked

1205
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation and drug release behavior of pH-responsive bovine serum albumin-loaded chitosan microspheres. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 21, 1389-1397.	2.9	82
2	Synthesis of cationic chitosan hydrogel and its controlled glucose-responsive drug release behavior. <i>Chemical Engineering Journal</i> , 2015, 273, 92-100.	6.6	70
3	In Situ Synthesis of Monomer Casting Nylon-6/Graphene-Polysiloxane Nanocomposites: Intercalation Structure, Synergistic Reinforcing, and Friction-Reducing Effect. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 33176-33190.	4.0	54
4	A Novel Elastic Urea-Melamine-Formaldehyde Foam: Structure and Properties. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 8743-8750.	1.8	53
5	Controlled pH- and glucose-responsive drug release behavior of cationic chitosan based nano-composite hydrogels by using graphene oxide as drug nanocarrier. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 49, 36-45.	2.9	42
6	Structure evolution and orientation mechanism of long-chain-branched poly (lactic acid) in the process of solid die drawing. <i>European Polymer Journal</i> , 2017, 90, 54-65.	2.6	37
7	Preparation, structure, and property of polyoxymethylene/carbon nanotubes thermal conductive composites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 905-912.	2.4	33
8	Structure and properties of highly oriented polyoxymethylene/multi-walled carbon nanotube composites produced by hot stretching. <i>Composites Science and Technology</i> , 2011, 71, 1367-1372.	3.8	32
9	Mechanical and crystalline properties of monomer casting Nylon-6/SiO ₂ composites prepared via <i>in situ</i> polymerization. <i>Polymer Engineering and Science</i> , 2013, 53, 1809-1822.	1.5	32
10	Structure and blood compatibility of highly oriented poly(lactic acid)/thermoplastic polyurethane blends produced by solid hot stretching. <i>Polymers for Advanced Technologies</i> , 2013, 24, 853-860.	1.6	32
11	Synthesis of cationic chitosan hydrogel with long chain alkyl and its controlled glucose-responsive drug delivery behavior. <i>RSC Advances</i> , 2015, 5, 96230-96241.	1.7	31
12	Synthesis of the melamine-formaldehyde polycondensate and its thermal stabilization effect on polyoxymethylene. <i>Polymer</i> , 2006, 47, 2649-2659.	1.8	30
13	Structure and blood compatibility of highly oriented poly(L-lactic acid) chain extended by ethylene glycol diglycidyl ether. <i>Polymer</i> , 2015, 56, 523-534.	1.8	26
14	Structure and biocompatibility of highly oriented poly(lactic acid) film produced by biaxial solid hot stretching. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 52, 338-348.	2.9	25
15	Long-Chain Branched Poly(lactic acid)-poly(lactide-co-caprolactone): Structure, Viscoelastic Behavior, and Triple-Shape Memory Effect as Smart Bone Fixation Material. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 4524-4532.	1.8	25
16	Fibrillation of chain branched poly (lactic acid) with improved blood compatibility and bionic structure. <i>Chemical Engineering Journal</i> , 2015, 279, 767-776.	6.6	24
17	Facile Method to Fabricate Superstrong and Tough Poly(vinyl alcohol) Hydrogels with High Energy Dissipation. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 10705-10715.	1.8	24
18	Effect of Heat Treatment on the Structure and Properties of MC Nylon 6. <i>Polymer-Plastics Technology and Engineering</i> , 2012, 51, 689-695.	1.9	22

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19	Structure and properties of urea-formaldehyde resin/polyurethane blend prepared via in-situ polymerization. RSC Advances, 2015, 5, 53700-53707.	1.7	22
20	Polyoxymethylene/graphene oxide-perfluoropolyether nano-composite with ultra-low friction coefficient fabricated by formation of superior interfacial tribofilm. Composites Part A: Applied Science and Manufacturing, 2020, 132, 105856.	3.8	22
21	Structure and blood compatibility of highly oriented PLA/MWNTs composites produced by solid hot drawing. Journal of Biomaterials Applications, 2014, 28, 978-989.	1.2	21
22	High orientation of long chain branched poly (lactic acid) with enhanced blood compatibility and bionic structure. Journal of Biomedical Materials Research - Part A, 2016, 104, 1082-1089.	2.1	18
23	In situ preparation of intrinsic flame retardant urea formaldehyde/aramid fiber composite foam: Structure, property and reinforcing mechanism. Composites Part A: Applied Science and Manufacturing, 2018, 115, 274-282.	3.8	18
24	Highly Reinforced Poly(lactic acid) Foam Fabricated by Formation of a Heat-Resistant Oriented Stereocomplex Crystalline Structure. ACS Sustainable Chemistry and Engineering, 2021, 9, 12674-12686.	3.2	18
25	Construction of gradient structure in polyetherimide/carbon nanotube nanocomposite foam and its thermal/mechanical property. Composites Part A: Applied Science and Manufacturing, 2019, 126, 105579.	3.8	17
26	Preparation of long-chain branched poly(ethylene terephthalate): Molecular entanglement structure and toughening mechanism. Polymer Engineering and Science, 2019, 59, 1190-1198.	1.5	17
27	Facile construction of robust super-hydrophobic coating for urea-formaldehyde foam: Durable hydrophobicity and Self-cleaning ability. Composites Part A: Applied Science and Manufacturing, 2020, 132, 105831.	3.8	17
28	Construction of Dual Orientation Crystalline Structure in Poly(vinyl alcohol)/Graphene Oxide Nano-Composite Hydrogels and Reinforcing Mechanism. Industrial & Engineering Chemistry Research, 2019, 58, 10908-10921.	1.8	15
29	Fabrication of well-miscible and highly enhanced polyethylene/ultrahigh molecular weight polyethylene blends by facile construction of interfacial intermolecular entanglement. Polymer Testing, 2021, 93, 106973.	2.3	15
30	Intercalation structure and toughening mechanism of graphene/urea-formaldehyde nanocomposites prepared via in situ polymerization. Polymer International, 2018, 67, 330-339.	1.6	13
31	Reactive toughening of intrinsic flame retardant urea-formaldehyde foam with polyether amine: Structure and elastic deformation mechanism. Composites Part B: Engineering, 2019, 176, 107264.	5.9	13
32	Dual-Anchoring Intercalation Structure and Enhanced Bioactivity of Poly(vinyl alcohol)/Graphene Oxide-Hydroxyapatite Nanocomposite Hydrogels as Artificial Cartilage Replacement. Industrial & Engineering Chemistry Research, 2020, 59, 20359-20370.	1.8	13
33	Structure and biocompatibility improvement mechanism of highly oriented poly(lactic acid) produced by solid die drawing. European Polymer Journal, 2017, 97, 68-76.	2.6	11
34	Multiple shape memory behavior of highly oriented long-chain-branched poly(lactic acid) and its recovery mechanism. Journal of Biomedical Materials Research - Part A, 2019, 107, 872-883.	2.1	11
35	Reactive processing of poly(lactic acid)/poly(ethylene octene) blend film with tailored interfacial intermolecular entanglement and toughening mechanism. Journal of Materials Science and Technology, 2022, 98, 186-196.	5.6	11
36	Structure and self-reinforcing mechanism of biaxially oriented polyethylene pipes produced by solid phase die drawing. Polymer, 2019, 178, 121556.	1.8	10

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37	Construction of robust siloxane coating for urea-formaldehyde foam and durable hydrophobic mechanism. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 122, 96-106.	3.8	10
38	Intrinsic flame-retardant urea formaldehyde/graphene nanocomposite foam: Structure and reinforcing mechanism. <i>Polymer Composites</i> , 2019, 40, E811.	2.3	10
39	Poly(vinyl alcohol)/graphene oxide nanocomposite hydrogel with catalytic activity: the removal behavior and dual adsorption/catalytic degradation mechanism for dye wastewater. <i>Polymer International</i> , 2021, 70, 331-340.	1.6	10
40	Tailored Bonded Interfacial Intermolecular Entanglement of Polyethylene/Ultrahigh-Molecular-Weight Polyethylene Blends: Enhancing Miscibility, Reinforcement, and Friction Reduction. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 5879-5889.	1.8	10
41	Low Percolation Threshold and Enhanced Electromagnetic Interference Shielding in Polyoxymethylene/Carbon Nanotube Nanocomposites with Conductive Segregated Networks. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 3962-3972.	1.8	10
42	Polyoxymethylene/Carbon Nanotube Self-Assembly Networks with Improved Electrical Conductivity for Engineering Functional Structural Materials. <i>ACS Applied Nano Materials</i> , 2021, 4, 9606-9615.	2.4	9
43	Microcellular polyetherimide/carbon nanotube composite foam: Structure, property and highly reinforcing mechanism. <i>European Polymer Journal</i> , 2019, 116, 488-496.	2.6	8
44	Enhancing Poly(lactic acid) Microcellular Foams by Formation of Distinctive Crystalline Structures. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 7624-7632.	1.8	7
45	Thermal stability enhancement of oriented polyethylene by formation of epitaxial shish-kebab crystalline structure. <i>Polymer Degradation and Stability</i> , 2022, 195, 109771.	2.7	7
46	Polyoxymethylene/Reduced Graphene Oxide-g-Melamine Nano-composites With Low Formaldehyde Emission: Intercalation Structure and Synergistic Thermal Oxidative Stabilization Effect. <i>Polymer Degradation and Stability</i> , 2022, 198, 109876.	2.7	7
47	Controlled in vitro degradation behavior of highly oriented long-chain branched poly(lactic acid) produced by solid-phase die drawing. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 1522-1531.	2.1	6
48	Reactive toughening of urea-formaldehyde resin with poly(vinyl alcohol) by formation of interpenetrating networks. <i>Polymer Engineering and Science</i> , 2018, 58, 2031-2038.	1.5	5
49	Reinforcing urea-formaldehyde based composite foam by formation of tailored chemical/mechanical interlocking structure. <i>Polymer Composites</i> , 2022, 43, 2208-2221.	2.3	5
50	Compatibility and toughening mechanism of poly(ethylene terephthalate)/polycarbonate blends. <i>Polymer International</i> , 2020, 69, 1297-1307.	1.6	3
51	Triple-shape memory effect of long-chain branched Poly(lactic acid)-b-poly(lactide-co-caprolactone) and its controllable shape recovery as self-fastening smart bone fixture. <i>Polymer</i> , 2022, 238, 124421.	1.8	3
52	Formation and reinforcing effect of epitaxial oriented crystallization of polyethylene induced by self-assembly nucleating agent under stress. <i>Polymer International</i> , 2022, 71, 817-828.	1.6	3
53	Biocompatibility improvement and controlled in vitro degradation of poly(lactic acid) for orthopedic application. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2022, 110, 2480-2493.	1.6	2
54	In situ preparation of intrinsic flame-retardant urea formaldehyde/carbon nanotubes nanocomposite foam: structure and reinforcing mechanism. <i>Polymer-Plastics Technology and Materials</i> , 2020, 59, 1640-1653.	0.6	1

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55	Highly reinforcing effect of polycarbonate/poly(ethylene terephthalate) blends by formation of orientation microfibrillar structure. <i>Polymer International</i> , 2021, 70, 1386-1395.	1.6	1
56	Structure Evolution of Highly Oriented Poly(lactic acid)- <i>b</i> -poly(lactide- <i>co</i> -caprolactone) Block Copolymer during Two-Stage Solid Phase Hot Drawing. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 2110-2125.	1.8	1