

Baozhong Zhang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5893013/publications.pdf>

Version: 2024-02-01

38
papers

1,151
citations

430874

18
h-index

395702

33
g-index

39
all docs

39
docs citations

39
times ranked

1104
citing authors

#	ARTICLE	IF	CITATIONS
1	Designing Biobased Recyclable Polymers for Plastics. <i>Trends in Biotechnology</i> , 2020, 38, 50-67.	9.3	185
2	Tuning Polymer Thickness: Synthesis and Scaling Theory of Homologous Series of Dendronized Polymers. <i>Journal of the American Chemical Society</i> , 2009, 131, 11841-11854.	13.7	130
3	The Largest Synthetic Structure with Molecular Precision: Towards a Molecular Object. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 737-740.	13.8	111
4	Dendronized Polymers: Molecular Objects between Conventional Linear Polymers and Colloidal Particles. <i>ACS Macro Letters</i> , 2014, 3, 991-998.	4.8	62
5	5-Hydroxymethylfurfural from fructose: an efficient continuous process in a water-dimethyl carbonate biphasic system with high yield product recovery. <i>Green Chemistry</i> , 2020, 22, 5402-5413.	9.0	52
6	Synthesis, Life Cycle Assessment, and Polymerization of a Vanillin-Based Spirocyclic Diol toward Polyesters with Increased Glass-Transition Temperature. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 19090-19103.	6.7	50
7	A rigid spirocyclic diol from fructose-based 5-hydroxymethylfurfural: synthesis, life-cycle assessment, and polymerization for renewable polyesters and poly(urethane-urea)s. <i>Green Chemistry</i> , 2019, 21, 6667-6684.	9.0	50
8	Height and Width of Adsorbed Dendronized Polymers: Electron and Atomic Force Microscopy of Homologous Series. <i>Macromolecules</i> , 2011, 44, 6785-6792.	4.8	46
9	Facile synthesis of novel soluble cellulose-grafted hyperbranched polymers as potential natural antimicrobial materials. <i>Carbohydrate Polymers</i> , 2017, 157, 1913-1921.	10.2	46
10	Indole as a new sustainable aromatic unit for high quality biopolyesters. <i>Polymer Chemistry</i> , 2018, 9, 4706-4710.	3.9	30
11	Assessing the Solution Shape and Size of Charged Dendronized Polymers Using Double ElectronâElectron Resonance. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1583-1587.	4.6	28
12	Computer simulation of dendronized polymers: organization and characterization at the atomistic level. <i>RSC Advances</i> , 2013, 3, 126-140.	3.6	26
13	New biobased non-ionic hyperbranched polymers as environmentally friendly antibacterial additives for biopolymers. <i>Green Chemistry</i> , 2018, 20, 1238-1249.	9.0	26
14	Synthesis of High Generation Dendronized Polymers and Quantification of Their Structure Perfection. <i>Macromolecules</i> , 2014, 47, 4127-4135.	4.8	24
15	Synthesis of Dendronized Polymers by a Co^{2+} Approach. <i>Macromolecules</i> , 2012, 45, 8555-8560.	4.8	21
16	Synthetic regimes due to packing constraints in dendritic molecules confirmed by labelling experiments. <i>Nature Communications</i> , 2013, 4, 1993.	12.8	21
17	Computer Simulation of Fifth Generation Dendronized Polymers: Impact of Charge on Internal Organization. <i>Journal of Physical Chemistry B</i> , 2013, 117, 6007-6017.	2.6	20
18	Synthesis, Thermal Properties, and Rheological Characteristics of Indole-Based Aromatic Polyesters. <i>ACS Omega</i> , 2019, 4, 15012-15021.	3.5	19

#	ARTICLE	IF	CITATIONS
19	Loading and release capabilities of charged dendronized polymers revealed by EPR spectroscopy. <i>Chemical Science</i> , 2012, 3, 2550.	7.4	18
20	Solvent induced phenomena in a dendronized linear polymer. <i>Colloid and Polymer Science</i> , 2013, 291, 2879-2892.	2.1	17
21	Cellulose-Organic <i>Montmorillonite</i> Nanocomposites as Biomacromolecular Quorum-Sensing Inhibitor. <i>Biomacromolecules</i> , 2017, 18, 3439-3446.	5.4	13
22	Synthesis, Molecular Docking Simulation, and Enzymatic Degradation of AB-Type Indole-Based Polyesters with Improved Thermal Properties. <i>Biomacromolecules</i> , 2020, 21, 1078-1090.	5.4	13
23	Hyperbranched Polyesters Based on Indole- and Lignin-Derived Monomeric Aromatic Aldehydes as Effective Nonionic Antimicrobial Coatings with Excellent Biocompatibility. <i>Biomacromolecules</i> , 2022, 23, 150-162.	5.4	13
24	Mainâ€Chain Scission of a Charged Fifthâ€Generation Dendronized Polymer. <i>Helvetica Chimica Acta</i> , 2012, 95, 2399-2410.	1.6	12
25	Modeling Nanosized Single Molecule Objects: Dendronized Polymers Adsorbed onto Mica. <i>Journal of Physical Chemistry C</i> , 2015, 119, 3746-3753.	3.1	11
26	Biobased aliphatic polyesters from a spirocyclic dicarboxylate monomer derived from levulinic acid. <i>Green Chemistry</i> , 2021, 23, 5706-5723.	9.0	11
27	Solvatochromism of dye-labeled dendronized polymers of generation numbers 1â€4: comparison to dendrimers. <i>Chemical Science</i> , 2016, 7, 4644-4652.	7.4	9
28	Synthesis, thermal, rheological characteristics, and enzymatic degradation of aliphatic polyesters with ligninâ€based aromatic pendant groups. <i>Journal of Polymer Science Part A</i> , 2019, 57, 2314-2323.	2.3	9
29	Synthesis and melt-spinning of partly bio-based thermoplastic poly(cycloacetal-urethane)s toward sustainable textiles. <i>Polymer Chemistry</i> , 2021, 12, 4942-4953.	3.9	9
30	Synthesis, Enzymatic Degradation, and Polymer-Miscibility Evaluation of Nonionic Antimicrobial Hyperbranched Polyesters with Indole or Isatin Functionalities. <i>Biomacromolecules</i> , 2021, 22, 2256-2271.	5.4	8
31	Development of Circularly Recyclable Low Melting Temperature Bicomponent Fibers toward a Sustainable Nonwoven Application. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 16778-16785.	6.7	8
32	Loadâ€Collapseâ€Release Cascades of Amphiphilic Guest Molecules in Charged Dendronized Polymers through Spatial Separation of Noncovalent Forces. <i>Chemistry - A European Journal</i> , 2013, 19, 5602-5608.	3.3	7
33	Assessment of IsPETase-Assisted Depolymerization of Terephthalate Aromatic Polyesters and the Effect of the Thioredoxin Fusion Domain. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 8315.	2.5	6
34	Synthesis of Biobased Block Copolymers Using A Novel Methacrylated Methyl Salicylate and Poly(3â€Hydroxybutyrate). <i>ChemistrySelect</i> , 2021, 6, 12255-12265.	1.5	6
35	Nonionic nontoxic antimicrobial polymers: indole-grafted poly(vinyl alcohol) with pendant alkyl or ether groups. <i>Polymer Chemistry</i> , 2022, 13, 2307-2319.	3.9	5
36	The Viscosity Law of Dendronized Linear Polymers. <i>Macromolecular Rapid Communications</i> , 2013, 34, 1537-1541.	3.9	3

#	ARTICLE	IF	CITATIONS
37	Sustainable aromatic polyesters with 1,5-disubstituted indole units. RSC Advances, 2021, 11, 16480-16489.	3.6	2
38	Exploring the Loading Capacity of Generation Six to Eight Dendronized Polymers in Aqueous Solution. ChemPhysChem, 2016, 17, 2767-2772.	2.1	1