Long Jiang

List of Publications by Year
in descending order

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63 papers	5,247 citations	159585 30 h-index	123424 61 g-index
65 all docs	65 docs citations	65 times ranked	6272 citing authors

#	Article	IF	Citations
1	Study of Biodegradable Polylactide/Poly(butylene adipate-co-terephthalate) Blends. Biomacromolecules, 2006, 7, 199-207.	5.4	828
2	Cellulose Nanocrystals vs. Cellulose Nanofibrils: A Comparative Study on Their Microstructures and Effects as Polymer Reinforcing Agents. ACS Applied Materials & Interfaces, 2013, 5, 2999-3009.	8.0	773
3	Comparison of polylactide/nano-sized calcium carbonate and polylactide/montmorillonite composites: Reinforcing effects and toughening mechanisms. Polymer, 2007, 48, 7632-7644.	3.8	358
4	Flexible, Highly Graphitized Carbon Aerogels Based on Bacterial Cellulose/Lignin: Catalystâ€Free Synthesis and its Application in Energy Storage Devices. Advanced Functional Materials, 2015, 25, 3193-3202.	14.9	262
5	Thermal and mechanical properties of poly(3-hydroxybutyrate-co-3-hydroxyvalerate)/cellulose nanowhiskers composites. Polymer, 2010, 51, 2652-2660.	3.8	213
6	The temperature-dependent microstructure of PEDOT/PSS films: insights from morphological, mechanical and electrical analyses. Journal of Materials Chemistry C, 2014, 2, 9903-9910.	5.5	193
7	Study of the Poly(3-hydroxybutyrate-co-3-hydroxyvalerate)/Cellulose Nanowhisker Composites Prepared by Solution Casting and Melt Processing. Journal of Composite Materials, 2008, 42, 2629-2645.	2.4	181
8	Preparation and Properties of Electrospun Soy Protein Isolate/Polyethylene Oxide Nanofiber Membranes. ACS Applied Materials & Interfaces, 2012, 4, 4331-4337.	8.0	170
9	Morphology and Properties of Soy Protein and Polylactide Blends. Biomacromolecules, 2006, 7, 1551-1561.	5.4	159
10	Highly transparent, low-haze, hybrid cellulose nanopaper as electrodes for flexible electronics. Nanoscale, 2016, 8, 12294-12306.	5.6	127
11	Graphene nanoplatelets as poly(lactic acid) modifier: linear rheological behavior and electrical conductivity. Journal of Materials Chemistry A, 2013, 1, 8253.	10.3	125
12	Comparison between Cellulose Nanocrystal and Cellulose Nanofibril Reinforced Poly(ethylene oxide) Nanofibers and Their Novel Shish-Kebab-Like Crystalline Structures. Macromolecules, 2014, 47, 3409-3416.	4.8	124
13	Properties of Poly(lactic acid)/Poly(butylene adipate-co-terephthalate)/Nanoparticle Ternary Composites. Industrial & Engineering Chemistry Research, 2009, 48, 7594-7602.	3.7	123
14	Effects of Cellulose Nanowhiskers on Mechanical, Dielectric, and Rheological Properties of Poly(3-hydroxybutyrate-co-3-hydroxyvalerate)/Cellulose Nanowhisker Composites. Industrial & Engineering Chemistry Research, 2012, 51, 2941-2951.	3.7	108
15	A Highâ€Ligninâ€Content, Removable, and Glycolâ€Assisted Repairable Coating Based on Dynamic Covalent Bonds. ChemSusChem, 2019, 12, 1049-1058.	6.8	89
16	Crystallization kinetics of poly(3-hydroxybutyrate-co-3-hydroxyvalerate)/cellulose nanowhiskers composites. Carbohydrate Polymers, 2012, 90, 541-550.	10.2	86
17	Study of Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) (PHBV)/Bamboo Pulp Fiber Composites: Effects of Nucleation Agent and Compatibilizer. Journal of Polymers and the Environment, 2008, 16, 83-93.	5.0	84
18	Lignin-based carbon fibers: Carbon nanotube decoration and superior thermal stability. Carbon, 2014, 80, 91-102.	10.3	76

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19	Novel Highâ€Strength Thermoplastic Starch Reinforced by in situ Poly(lactic acid) Fibrillation. Macromolecular Materials and Engineering, 2009, 294, 301-305.	3.6	75
20	Ultra-violet degradation behavior of polymeric backsheets for photovoltaic modules. Solar Energy, 2014, 108, 88-100.	6.1	60
21	Reinforcing and Toughening Effects of Bamboo Pulp Fiber on Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) Fiber Composites. Industrial & Engineering Chemistry Research, 2010, 49, 572-577.	3.7	55
22	Porous core-shell carbon fibers derived from lignin and cellulose nanofibrils. Materials Letters, 2013, 109, 175-178.	2.6	53
23	Study on the Effect of Dicumyl Peroxide on Structure and Properties of Poly(Lactic Acid)/Natural Rubber Blend. Journal of Polymers and the Environment, 2013, 21, 375-387.	5.0	52
24	High-Performance Styrene-Butadiene Rubber Nanocomposites Reinforced by Surface-Modified Cellulose Nanofibers. ACS Omega, 2019, 4, 13189-13199.	3.5	52
25	Preparation and properties of aligned poly(3-hydroxybutyrate-co-3-hydroxyvalerate)/cellulose nanowhiskers composites. Carbohydrate Polymers, 2013, 92, 206-213.	10.2	51
26	Synergetic Effect of Dual Compatibilizers on in Situ Formed Poly(Lactic Acid)/Soy Protein Composites. Industrial & Engineering Chemistry Research, 2010, 49, 6399-6406.	3.7	47
27	Recycling carbon fiber composites using microwave irradiation: Reinforcement study of the recycled fiber in new composites. Journal of Applied Polymer Science, 2015, 132, .	2.6	41
28	Graphene Nanoplatelets as Rheology Modifiers for Polylactic Acid: Graphene Aspect-Ratio-Dependent Nonlinear Rheological Behavior. Industrial & Engineering Chemistry Research, 2015, 54, 8175-8182.	3.7	36
29	Flexural properties of surface reinforced wood/plastic deck board. Polymer Engineering and Science, 2007, 47, 281-288.	3.1	35
30	PLA/sepiolite and PLA/calcium carbonate nanocomposites: A comparison study. Journal of Applied Polymer Science, 2013, 129, 1734-1744.	2.6	34
31	Morphology and Properties of Thermoplastic Sugar Beet Pulp and Poly(butylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 262 T	3.7	32
32	Alcohol Recognition by Flexible, Transparent and Highly Sensitive Graphene-Based Thin-Film Sensors. Scientific Reports, 2017, 7, 4317.	3.3	30
33	Biodegradable and Biobased Polymers. , 2017, , 127-143.		30
34	Electrospun, sepiolite-loaded poly(vinyl alcohol)/soy protein isolate nanofibers: Preparation, characterization, and their drug release behavior. International Journal of Pharmaceutics, 2021, 594, 120172.	5.2	30
35	Cellulose nanofibers produced from various agricultural residues and their reinforcement effects in polymer nanocomposites. Journal of Applied Polymer Science, 2018, 135, 46304.	2.6	28
36	Comparative study of zein- and gluten-based wood adhesives containing cellulose nanofibers and crosslinking agent for improved bond strength. International Journal of Adhesion and Adhesives, 2019, 92, 44-57.	2.9	28

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37	Biodegradable Polymers and Polymer Blends. , 2013, , 109-128.		27
38	Development of Candle Soot Based Carbon Nanoparticles (CNPs)/Polyaniline Electrode and Its Comparative Study with CNPs/MnO2 in Supercapacitors. Electrochimica Acta, 2016, 210, 190-198.	5.2	25
39	Self-reinforcement of high-density polyethylene/low-density polyethylene prepared by oscillating packing injection molding under low pressure. Journal of Applied Polymer Science, 1999, 71, 799-804.	2.6	24
40	Roles of Graphene Oxide in Hydrothermal Carbonization and Microwave Irradiation of Distillerâ€™s Dried Grains with Solubles To Produce Supercapacitor Electrodes. ACS Sustainable Chemistry and Engineering, 2017, 5, 5588-5597.	6.7	23
41	Freestanding carbon aerogels produced from bacterial cellulose and its Ni/MnO2/Ni(OH)2 decoration for supercapacitor electrodes. Journal of Applied Electrochemistry, 2018, 48, 495-507.	2.9	23
42	UV-Curable Cellulose Nanofiber-Reinforced Soy Protein Resins for 3D Printing and Conventional Molding. ACS Applied Polymer Materials, 2020, 2, 4666-4676.	4.4	23
43	Needleless emulsion electrospinning for scalable fabrication of coreâ€“shell nanofibers. Journal of Applied Polymer Science, 2014, 131, .	2.6	21
44	Multifunctional silk fibroin/PVA bio-nanocomposite films containing TEMPO-oxidized bacterial cellulose nanofibers and silver nanoparticles. Cellulose, 2022, 29, 1647-1666.	4.9	20
45	Extrusion Foaming of Poly (lactic acid)/Soy Protein Concentrate Blends. Macromolecular Materials and Engineering, 2011, 296, 835-842.	3.6	19
46	The role of mandrel rotation speed on morphology and mechanical properties of polyethylene pipes produced by rotational shear. Polymer, 2019, 184, 121915.	3.8	19
47	Cellulose Mediated Transferrin Nanocages for Enumeration of Circulating Tumor Cells for Head and Neck Cancer. Scientific Reports, 2020, 10, 10010.	3.3	18
48	Parameter dependence of conic angle of nanofibres during electrospinning. Journal Physics D: Applied Physics, 2011, 44, 435401.	2.8	16
49	Fiber Spinning of Polyacrylonitrile Grafted Soy Protein in an Ionic Liquid/DMSO Mixture Solvent. Journal of Polymers and the Environment, 2014, 22, 17-26.	5.0	16
50	Strong, Ductile, Transparent, Water-Resistant Cellulose Nanofibril Composite Films via UV-Induced Inter-Cross-Linked Networks. ACS Sustainable Chemistry and Engineering, 2021, 9, 10749-10760.	6.7	16
51	Study of Effects of Processing Aids on Properties of Poly(lactic acid)/Soy Protein Blends. Journal of Polymers and the Environment, 2011, 19, 239-247.	5.0	15
52	Insight on the influence of nano zinc oxide on the thermal, dynamic mechanical, and flow characteristics of Poly(lactic acid)â€“ zinc oxide composites. Polymer Engineering and Science, 2019, 59, 1242-1249.	3.1	15
53	Development of Low-Cost DDGS-Based Activated Carbons and Their Applications in Environmental Remediation and High-Performance Electrodes for Supercapacitors. Journal of Polymers and the Environment, 2015, 23, 595-605.	5.0	12
54	The coupling effect of cellulose nanocrystal and strong shear field achieved the strength and toughness balance of Polylactide. International Journal of Biological Macromolecules, 2022, 207, 927-940.	7.5	12

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55	Polymeric Composite Matrix with High Biobased Content as Pharmaceutically Relevant Molecular Encapsulation and Release Platform. ACS Applied Materials & Interfaces, 2021, 13, 40229-40248.	8.0	10
56	Different Effects of Water and Glycerol on Morphology and Properties of Poly(lactic acid)/Soy Protein Concentrate Blends. Macromolecular Materials and Engineering, 2010, 295, 123-129.	3.6	9
57	Biodegradable and Biobased Polymers. , 2011, , 145-158.		7
58	Numerical Thermal Characterization and Performance Metrics of Building Envelopes Containing Phase Change Materials for Energy-Efficient Buildings. Sustainability, 2018, 10, 2657.	3.2	7
59	Using hydrodynamic focusing to predictably alter the diameter of synthetic silk fibers. PLoS ONE, 2018, 13, e0195522.	2.5	7
60	Strategies for Preparation of Oriented Cellulose Nanowhiskers Composites. ACS Symposium Series, 2012, , 17-36.	0.5	4
61	Soy-Based Soft Matrices for Encapsulation and Delivery of Hydrophilic Compounds. Polymers, 2018, 10, 583.	4.5	3
62	Incorporation of dynamic boronate links and Ag nanoparticles into PVA hydrogels for pH-Regulated and prolonged release of methotrexate. Journal of Drug Delivery Science and Technology, 2021, 63, 102502.	3.0	3
63	Development of Biodegradable Polymer Composites. ACS Symposium Series, 2011, , 367-391.	0.5	2