Lan Xie

List of Publications by Year
in descending order

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43 papers	1,577 citations	236612 25 h-index	301761 39 g-index
43 all docs	43 docs citations	43 times ranked	1491 citing authors

#	Article	IF	Citations
1	Flammability and thermal analysis of thermoplastic polyurethane/DOPO derivative/sepiolite composites. Journal of Thermal Analysis and Calorimetry, 2022, 147, 8225-8234.	2.0	6
2	Modulating Electron Transfer in Vanadiumâ€Based Artificial Enzymes for Enhanced ROSâ€Catalysis and Disinfection. Advanced Materials, 2022, 34, e2108646.	11.1	44
3	Directional Electromagnetic Interference Shielding Based on Step-Wise Asymmetric Conductive Networks. Nano-Micro Letters, 2022, 14, 16.	14.4	44
4	Modulating Electron Transfer in Vanadiumâ€Based Artificial Enzymes for Enhanced ROSâ€Catalysis and Disinfection (Adv. Mater. 17/2022). Advanced Materials, 2022, 34, .	11.1	1
5	Unravelling the Role of Electron Acceptors for the Universal Enhancement of Charge Transport in Quinoidâ€Donorâ€Acceptor Polymers for Highâ€Performance Transistors. Advanced Functional Materials, 2022, 32, .	7.8	11
6	Extensional flow-induced conductive nanohybrid shish in poly(lactic acid) nanocomposites toward pioneering combination of high electrical conductivity, strength, and ductility. Composites Part B: Engineering, 2021, 207, 108556.	5.9	16
7	An unprecedented quinoidâ€"donorâ€"acceptor strategy to boost the carrier mobilities of semiconducting polymers for organic field-effect transistors. Journal of Materials Chemistry A, 2021, 9, 23497-23505.	5.2	20
8	Flexible multilayered films consisting of alternating nanofibrillated cellulose/Fe3O4 and carbon nanotube/polyethylene oxide layers for electromagnetic interference shielding. Chemical Engineering Journal, 2021, 410, 128356.	6.6	89
9	Controllable Ag-rGO heterostructure for highly thermal conductivity in layer-by-layer nanocellulose hybrid films. Chemical Engineering Journal, 2020, 383, 123072.	6.6	84
10	Enhanced fouling-resistance performance of polypropylene hollow fiber membrane fabricated by ultrasonic-assisted graft polymerization of acrylic acid. Applied Surface Science, 2020, 502, 144098.	3.1	12
11	Extensional flow-induced conductive nanohybrid shish in poly(lactic acid) nanocomposites toward pioneering combination of high electrical conductivity, strength, and ductility. Composites Part B: Engineering, 2020, 203, 108467.	5.9	3
12	Interface Engineering Based on Polydopamine-Assisted Metallization in Highly Thermal Conductive Cellulose/Nanodiamonds Composite Paper. ACS Sustainable Chemistry and Engineering, 2020, 8, 17639-17650.	3.2	26
13	Super-hydrophobic poly (lactic acid) by controlling the hierarchical structure and polymorphic transformation. Chemical Engineering Journal, 2020, 397, 125297.	6.6	31
14	From tanghulu-like to cattail-like SiC nanowire architectures: interfacial design of nanocellulose composites toward high thermal conductivity. Journal of Materials Chemistry A, 2020, 8, 14506-14518.	5.2	33
15	Structural conversion of PLLA/ZnO composites facilitated by interfacial crystallization to potential application in oil-water separation. Applied Surface Science, 2020, 517, 146135.	3.1	29
16	Multilayered epoxy/glass fiber felt composites with excellently acoustical and thermal insulation properties. Journal of Applied Polymer Science, 2019, 136, 46935.	1.3	18
17	Tune the phase morphology to design conductive polymer composites: A review. Polymer Composites, 2018, 39, 2985-2996.	2.3	52
18	Aqueous Nanocoating Approach to Strong Natural Microfibers with Tunable Electrical Conductivity for Wearable Electronic Textiles. ACS Applied Nano Materials, 2018, 1, 2406-2413.	2.4	10

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19	3D porous poly(l-lactic acid) materials with controllable multi-scale microstructures and their potential application in oil-water separation. Applied Surface Science, 2018, 462, 633-640.	3.1	47
20	Natural Fiber-Anchored Few-Layer Graphene Oxide Nanosheets for Ultrastrong Interfaces in Poly(lactic acid). ACS Sustainable Chemistry and Engineering, 2017, 5, 3279-3289.	3.2	24
21	Self-nanofibrillation strategy to an unusual combination of strength and toughness for poly(lactic) Tj ETQq1 1 0.784314 rgBT /Overlo	1.7	26
22	Can classic Avrami theory describe the isothermal crystallization kinetics for stereocomplex poly(lactic acid)?. Chinese Journal of Polymer Science (English Edition), 2017, 35, 773-781.	2.0	8
23	Coffee-Ground-Derived Quantum Dots for Aqueous Processable Nanoporous Graphene Membranes. ACS Sustainable Chemistry and Engineering, 2017, 5, 5360-5367.	3.2	63
24	Heat-Resistant and Microwaveable Poly(lactic acid) by Quantum-Dot-Promoted Stereocomplexation. ACS Sustainable Chemistry and Engineering, 2017, 5, 11607-11617.	3.2	23
25	Detailed molecular movements during poly(<scp>l</scp>-lactic acid) cold-crystallization investigated by FTIR spectroscopy combined with two-dimensional correlation analysis. RSC Advances, 2017, 7, 47017-47028.	1.7	10
26	Coffee Grounds to Multifunctional Quantum Dots: Extreme Nanoenhancers of Polymer Biocomposites. ACS Applied Materials & Interfaces, 2017, 9, 27972-27983.	4.0	41
27	Structural Hierarchy and Polymorphic Transformation in Shearâ€Induced Shishâ€Kebab of Stereocomplex Poly(Lactic Acid). Macromolecular Rapid Communications, 2016, 37, 745-751.	2.0	31
28	Strong and ductile poly(butylene adipateâ€<i>co</i>â€terephthalate) biocomposites fabricated by oscillation shear injection molding. Journal of Applied Polymer Science, 2016, 133, .	1.3	2
29	Immobilized Graphene Oxide Nanosheets as Thin but Strong Nanointerfaces in Biocomposites. ACS Sustainable Chemistry and Engineering, 2016, 4, 2211-2222.	3.2	48
30	Zero-Dimensional and Highly Oxygenated Graphene Oxide for Multifunctional Poly(lactic acid) Bionanocomposites. ACS Sustainable Chemistry and Engineering, 2016, 4, 5618-5631.	3.2	50
31	Biomimetic Nanofibrillation in Two-Component Biopolymer Blends with Structural Analogs to Spider Silk. Scientific Reports, 2016, 6, 34572.	1.6	24
32	Conformational Footprint in Hydrolysis-Induced Nanofibrillation and Crystallization of Poly(lactic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2	2.6	49
33	Graphene Oxide-Driven Design of Strong and Flexible Biopolymer Barrier Films: From Smart Crystallization Control to Affordable Engineering. ACS Sustainable Chemistry and Engineering, 2016, 4, 334-349.	3.2	47
34	A free radical assisted strategy for preparing functionalized carbon nanotubes as a highly efficient nucleating agent for poly(<scp>l</scp>-lactide). RSC Advances, 2015, 5, 16604-16610.	1.7	11
35	Beyond a Model of Polymer Processing-Triggered Shear: Reconciling Shish-Kebab Formation and Control of Chain Degradation in Sheared Poly(<scp>l</scp>-lactic acid). ACS Sustainable Chemistry and Engineering, 2015, 3, 1443-1452.	3.2	35
36	Thermostable and Impermeable â€œNano-Barrier Wallsâ€• Constructed by Poly(lactic acid) Stereocomplex Crystal Decorated Graphene Oxide Nanosheets. Macromolecules, 2015, 48, 2127-2137.	2.2	95

#	ARTICLE	IF	CITATIONS
37	From Nanofibrillar to Nanolaminar Poly(butylene succinate): Paving the Way to Robust Barrier and Mechanical Properties for Full-Biodegradable Poly(lactic acid) Films. ACS Applied Materials & Interfaces, 2015, 7, 8023-8032.	4.0	67
38	Toward faster degradation for natural fiber reinforced poly(lactic acid) biocomposites by enhancing the hydrolysis-induced surface erosion. Journal of Polymer Research, 2014, 21, 1.	1.2	31
39	Toward Stronger Transcrystalline Layers in Poly(<scp>l</scp>-lactic acid)/Natural Fiber Biocomposites with the Aid of an Accelerator of Chain Mobility. Journal of Physical Chemistry B, 2014, 118, 812-823.	1.2	49
40	Unprecedented Access to Strong and Ductile Poly(lactic acid) by Introducing In Situ Nanofibrillar Poly(butylene succinate) for Green Packaging. Biomacromolecules, 2014, 15, 4054-4064.	2.6	149
41	Strong and tough micro/nanostructured poly(lactic acid) by mimicking the multifunctional hierarchy of shell. Materials Horizons, 2014, 1, 546-552.	6.4	61
42	Structural Basis for Unique Hierarchical Cylindrites Induced by Ultrahigh Shear Gradient in Single Natural Fiber Reinforced Poly(lactic acid) Green Composites. Biomacromolecules, 2014, 15, 1676-1686.	2.6	57
43	The combined plasticization of jute and tung oil anhydride for jute fiber reinforced poly(lactic acid) composites. Polymers and Polymer Composites, 0, , 096739112110576.	1.0	0