

Yong Liu

List of Publications by Year in descending order

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112
papers

6,375
citations

218592

26
h-index

64755

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112
all docs

112
docs citations

112
times ranked

10171
citing authors

#	ARTICLE	IF	CITATIONS
1	Binary structured polypropylene-/propylene-based elastomer fibrous membranes with enhanced flexibility. <i>Journal of Industrial Textiles</i> , 2022, 51, 1431-1444.	1.1	3
2	Comments on COVID-19, a double-edged sword for the environment: a review on the impacts of COVID-19 on the environment. <i>Environmental Science and Pollution Research</i> , 2022, 29, 10867-10869.	2.7	0
3	PLLA-gelatin composite fiber membranes incorporated with functionalized CeNPs as a sustainable wound dressing substitute promoting skin regeneration and scar remodeling. <i>Journal of Materials Chemistry B</i> , 2022, 10, 1116-1127.	2.9	18
4	Recent insights on iron based nanostructured electrocatalyst and current status of proton exchange membrane fuel cell for sustainable transport. <i>Journal of Energy Chemistry</i> , 2022, 69, 466-489.	7.1	27
5	Mesoscale hydrated morphology of perfluorosulfonic acid membranes. <i>Journal of Applied Polymer Science</i> , 2022, 139, 52275.	1.3	1
6	Research Progress on Sound Absorption of Electrospun Fibrous Composite Materials. <i>Nanomaterials</i> , 2022, 12, 1123.	1.9	13
7	Review of the Principles, Devices, Parameters, and Applications for Centrifugal Electrospinning. <i>Macromolecular Materials and Engineering</i> , 2022, 307, .	1.7	22
8	A novel core-shell rifampicin/isoniazid electrospun nanofiber membrane for long time drug dissolution. <i>Engineered Regeneration</i> , 2022, 3, 73-79.	3.0	1
9	Recent Progress in Electrospun Nanofiber-Based Degenerated Intervertebral Disc Repair. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 16-31.	2.6	9
10	Wrinkle-structured MXene film assists flexible pressure sensors with superhigh sensitivity and ultrawide detection range. <i>Nanocomposites</i> , 2022, 8, 81-94.	2.2	10
11	Recycling and Reutilizing Polymer Waste via Electrospun Micro/Nanofibers: A Review. <i>Nanomaterials</i> , 2022, 12, 1663.	1.9	8
12	In-situ growth of iron nanoparticles on porous carbon nanofibers for structural high-performance lithium metal anode. <i>Electrochimica Acta</i> , 2022, 422, 140552.	2.6	2
13	Core-shell alum-borneol fiber for high bioavailability. <i>Progress in Biomaterials</i> , 2022, 11, 253-261.	1.8	1
14	Electrospun hydroxyapatite loaded L-polylactic acid aligned nanofibrous membrane patch for rotator cuff repair. <i>International Journal of Biological Macromolecules</i> , 2022, 217, 180-187.	3.6	11
15	Water management characteristics of electrospun micro-porous layer in PEMFC under normal temperature and cold start conditions. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 11150-11159.	3.8	33
16	Preparation of Alum-borneol-PVP Drug-loaded Fibers by Electrospinning. <i>Chemical Research in Chinese Universities</i> , 2021, 37, 411-418.	1.3	9
17	Cold start capability and durability of electrospun catalyst layer for proton exchange membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 11140-11149.	3.8	16
18	Carbon dots and ruthenium doped oxygen sensitive nanofibrous membranes for monitoring the respiration of agricultural products. <i>Polymer Testing</i> , 2021, 93, 106957.	2.3	15

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19	Advancing green energy solution with the impetus of COVID-19 pandemic. <i>Journal of Energy Chemistry</i> , 2021, 59, 688-705.	7.1	63
20	Recent development of electrospun wound dressing. <i>Current Opinion in Biomedical Engineering</i> , 2021, 17, 100247.	1.8	40
21	Realization of Circular Economy of 3D Printed Plastics: A Review. <i>Polymers</i> , 2021, 13, 744.	2.0	45
22	Dissipative Particle Dynamics Simulation: A Review on Investigating Mesoscale Properties of Polymer Systems. <i>Macromolecular Materials and Engineering</i> , 2021, 306, 2000724.	1.7	28
23	Mesoscale Simulation on the Hydrated Morphologies of SPEEK Membrane. <i>Macromolecular Theory and Simulations</i> , 2021, 30, 2100006.	0.6	4
24	Electrospun high bioavailable rifampicin-isoniazid-polyvinylpyrrolidone fiber membranes. <i>Applied Nanoscience (Switzerland)</i> , 2021, 11, 2271-2280.	1.6	6
25	Electrospun Core-Shell Structure Fibers for Puerarin-Loaded Vascular Grafts. <i>ACS Applied Polymer Materials</i> , 2021, 3, 4195-4202.	2.0	5
26	Optimization of GDL to improve water transferability. <i>Renewable Energy</i> , 2021, 179, 2086-2093.	4.3	16
27	Preparation and performance of hydrophobic and conductive silica composite fiber membrane. <i>Journal of Materials Science</i> , 2020, 55, 191-202.	1.7	6
28	Application of carbon dots in dye-sensitized solar cells: A review. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48443.	1.3	81
29	Recent progress of carbon dots and carbon nanotubes applied in oxygen reduction reaction of fuel cell for transportation. <i>Applied Energy</i> , 2020, 257, 114027.	5.1	101
30	MOF [NH ₂ -MIL-101(Fe)] as a powerful and reusable Fenton-like catalyst. <i>Journal of Water Process Engineering</i> , 2020, 33, 101004.	2.6	40
31	Preparation of hierarchical-pore gas diffusion layer for fuel cell. <i>Journal of Materials Science</i> , 2020, 55, 4558-4569.	1.7	22
32	Nitrogen doped TiO ₂ /Graphene nanofibers as DSSCs photoanode. <i>Materials Chemistry and Physics</i> , 2020, 255, 123542.	2.0	23
33	Fibro-porous PLLA/gelatin composite membrane doped with cerium oxide nanoparticles as bioactive scaffolds for future angiogenesis. <i>Journal of Materials Chemistry B</i> , 2020, 8, 9110-9120.	2.9	33
34	Progress of Improving Mechanical Strength of Electrospun Nanofibrous Membranes. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 2000230.	1.7	43
35	Groove-shaped polypropylene/polyester micro/nanofibrous nonwoven with enhanced oil wetting capability for high oil/water separation. <i>Polymer</i> , 2020, 193, 122356.	1.8	18
36	Improved Fiber Uniformity and Jet Number in Multi-spinneret Electrospinning via Auxiliary Electrode. <i>Fibers and Polymers</i> , 2019, 20, 1172-1179.	1.1	6

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37	Orthogonal experimental preparation of Sanguis Draconis- Polyvinylpyrrolidone microfibers by electrospinning. Journal of Biomaterials Science, Polymer Edition, 2019, 30, 308-321.	1.9	1
38	Review of mechanisms and deformation behaviors in 4D printing. International Journal of Advanced Manufacturing Technology, 2019, 105, 4633-4649.	1.5	48
39	Structure-morphology impact upon segmental dynamics and diffusion in the biodegradable ultrafine fibers of polyhydroxybutyrate-poly lactide blends. European Polymer Journal, 2019, 117, 208-216.	2.6	22
40	Controllable preparation of methyltriethoxysilane xerogel nanofibers. Journal of Materials Science, 2019, 54, 10130-10140.	1.7	11
41	Dissipative particle dynamics simulations of centrifugal melt electrospinning. Journal of Materials Science, 2019, 54, 9958-9968.	1.7	12
42	Black plaster composite fiber prepared by upward electrospinning. Journal of Applied Polymer Science, 2019, 136, 47662.	1.3	5
43	Fiber membranes obtained by melt electrospinning for drug delivery. , 2019, , 173-195.		0
44	Dissipative particle dynamics simulation on melt electrospinning. , 2019, , 103-121.		0
45	Development of melt electrospinning. , 2019, , 1-5.		3
46	Formation of fibrous structure and influential factors in melt electrospinning. , 2019, , 21-90.		3
47	Economical and highly efficient Pt-free counter electrode for dye-sensitized solar cells. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 566, 1-10.	2.3	10
48	Melt electrospinning in a parallel electric field. , 2019, , 91-101.		1
49	The device of melt electrospinning. , 2019, , 7-19.		1
50	Dissipative particle dynamics simulations of centrifugal melt electrospinning. , 2019, , 145-158.		0
51	Electrospinning preparation of a graphene oxide nanohybrid proton-exchange membrane for fuel cells. Journal of Applied Polymer Science, 2018, 135, 46443.	1.3	18
52	Solution electrospinning with a pulsed electric field. Journal of Applied Polymer Science, 2018, 135, 46130.	1.3	8
53	Recent studies on electrospinning preparation of patterned, core-shell, and aligned scaffolds. Journal of Applied Polymer Science, 2018, 135, 46570.	1.3	22
54	PLLA-PHB fiber membranes obtained by solvent-free electrospinning for short-time drug delivery. Drug Delivery and Translational Research, 2018, 8, 291-302.	3.0	45

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55	Recent progress in electrospinning TiO ₂ nanostructured photoanode of dye-sensitized solar cells. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45649.	1.3	47
56	Comparative Characterization of Melt Electrospun Fibers and Films Based on PLA-PHB Blends: Diffusion, Drug Release, and Structural Features. <i>Macromolecular Symposia</i> , 2018, 381, 1800130.	0.4	9
57	Electrochemical Characterization of Preconditioning Process of Electrospun Nanofiber Electrodes in Polymer Electrolyte Fuel Cells. <i>Fuel Cells</i> , 2018, 18, 576-585.	1.5	16
58	Facile fabrication of core-shell polyelectrolyte complexes nanofibers based on electric field induced phase separation. <i>Polymer</i> , 2017, 110, 80-86.	1.8	25
59	Photo and Thermal Cured Silicon-Containing Diethynylbenzene Fibers via Melt Electrospinning with Enhanced Thermal Stability. <i>Journal of Polymer Science Part A</i> , 2017, 55, 2815-2823.	2.5	11
60	Effect of scaffold morphology and cell co-culture on tenogenic differentiation of HADMSC on centrifugal melt electrospun poly (L-lactic acid) fibrous meshes. <i>Biofabrication</i> , 2017, 9, 044106.	3.7	61
61	Recent development of centrifugal electrospinning. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	1.3	39
62	Recent Developments in Regenerated Silk Fiber. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 8667-8682.	0.9	12
63	Preparation and Dissolution of Solid Dispersions of Sanguis Draconis. , 2017, , .		1
64	Effects of hot airflow on macromolecular orientation and crystallinity of melt electrospun poly(L-lactic acid) fibers. <i>Materials Letters</i> , 2016, 176, 194-198.	1.3	16
65	Pulsed Electric Fields on Poly-(lactic acid) Melt Electrospun Fibers. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 7116-7123.	1.8	25
66	Progress in Preparation of Phenolic Fibers by Electrospinning. <i>Materials Science Forum</i> , 2015, 815, 638-642.	0.3	1
67	Orthogonal design preparation of phenolic fiber by melt electrospinning. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	27
68	3D printing of smart materials: A review on recent progresses in 4D printing. <i>Virtual and Physical Prototyping</i> , 2015, 10, 103-122.	5.3	660
69	Research and Development in Electrospinning Theory and Technology. <i>Materials Science Forum</i> , 2015, 815, 695-700.	0.3	2
70	Orthogonal design study on factors affecting the diameter of perfluorinated sulfonic acid nanofibers during electrospinning. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	15
71	Effect of polar additives on melt electrospinning of nonpolar polypropylene. <i>Journal of the Serbian Chemical Society</i> , 2014, 79, 587-596.	0.4	20
72	Synthesis and self-assembly behavior of thermoresponsive poly(oligo(ethylene glycol) methyl ether) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 2014, 292, 2993-3001.	1.0	18

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73	Melt electrospinning in a parallel electric field. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2014, 52, 946-952.	2.4	21
74	Removal of Indoor Formaldehyde with Nanoscale Catalytic Oxidation. <i>Materials Science Forum</i> , 2014, 787, 92-96.	0.3	1
75	Tug of war effect in melt electrospinning. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2013, 202, 131-136.	1.0	11
76	Experimental Study on Falling Process of Melt Electrospinning Fiber. <i>Key Engineering Materials</i> , 2013, 561, 36-40.	0.4	2
77	Effect of Different Factors on Falling Process of Melt Electrospinning Jet. <i>Materials Science Forum</i> , 2013, 745-746, 407-411.	0.3	4
78	Simulation on Electrical Field Distribution and Fiber Falls in Melt Electrospinning. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 4680-4685.	0.9	18
79	Morphologies and crystal structures of styrene- <i>acrylonitrile/isotactic polypropylene</i> ultrafine fibers fabricated by melt electrospinning. <i>Polymer Engineering and Science</i> , 2013, 53, 2674-2682.	1.5	32
80	Solvent-free preparation of polylactic acid fibers by melt electrospinning using umbrella-like spray head and alleviation of problematic thermal degradation. <i>Journal of the Serbian Chemical Society</i> , 2012, 77, 1071-1082.	0.4	30
81	Simulation on Effect of Five Kinds of Belt Structures on Tire Performance. <i>Key Engineering Materials</i> , 2012, 501, 151-155.	0.4	0
82	Orthogonal design study on factors affecting the degradation of polylactic acid fibers of melt electrospinning. <i>Journal of Applied Polymer Science</i> , 2012, 125, 2652-2658.	1.3	25
83	Dissipative particle dynamics simulation on the fiber dropping process of melt electrospinning. <i>Journal of Materials Science</i> , 2011, 46, 7877-7882.	1.7	21
84	Gas barrier and morphology characteristics of linear low-density polyethylene and two different polypropylene films. <i>Polymer Bulletin</i> , 2011, 67, 1293-1309.	1.7	21
85	Effect of applied voltage on diameter and morphology of ultrafine fibers in bubble electrospinning. <i>Journal of Applied Polymer Science</i> , 2011, 120, 592-598.	1.3	75
86	Theoretical study on the thermal decomposition mechanism of 3,3-dinitro-4,4-azoxyfurazan. <i>Computational and Theoretical Chemistry</i> , 2011, 963, 135-140.	1.1	13
87	Finite Element Analysis of Performance for Radial Tires, Part I: Model, Material Constants. <i>Advanced Materials Research</i> , 2011, 221, 165-169.	0.3	1
88	Experimental Study of Melt Electrospinning in Parallel Electrical Field. <i>Advanced Materials Research</i> , 2011, 221, 111-116.	0.3	10
89	Main chain and segmental dynamics of semi interpenetrating polymer networks based on polyisoprene and poly(methyl methacrylate). <i>Polymer</i> , 2010, 51, 2390-2402.	1.8	27
90	Influences of three kinds of springs on the retraction of a polymer ellipsoid in dissipative particle dynamics simulation. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 2484-2489.	2.4	4

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91	Orthogonal design study on factors effecting on fibers diameter of melt electrospinning. Polymer Engineering and Science, 2010, 50, 2074-2078.	1.5	63
92	Micelle Formation and Gelation of (PEG ⁿ P(MA-POSS)) Amphiphilic Block Copolymers via Associative Hydrophobic Effects. Langmuir, 2010, 26, 11763-11773.	1.6	86
93	Nitrogen-Doped Graphene as Efficient Metal-Free Electrocatalyst for Oxygen Reduction in Fuel Cells. ACS Nano, 2010, 4, 1321-1326.	7.3	3,658
94	A study on the microstructure of a nitrate ester plasticized polyether propellant dissolved in HCl and KOH solutions. Journal of the Serbian Chemical Society, 2010, 75, 987-996.	0.4	5
95	An SEM and EDS study of the microstructure of nitrate ester plasticized polyether propellants. Journal of the Serbian Chemical Society, 2010, 75, 369-376.	0.4	5
96	HOMOLYTIC C-H BOND DISSOCIATION ENERGIES OF HTPB BINDER NETWORK. Journal of Theoretical and Computational Chemistry, 2009, 08, 519-528.	1.8	3
97	Study on Oil Resistance Properties of Flexible PVC/PNBR Blends. Advanced Materials Research, 2009, 87-88, 134-136.	0.3	1
98	Melt electrospinning of low-density polyethylene having a low-melt flow index. Journal of Applied Polymer Science, 2009, 114, 166-175.	1.3	124
99	Abrasion resistance of thermoplastic polyurethane materials blended with ethylene-propylene diene monomer rubber. Journal of Applied Polymer Science, 2008, 110, 1851-1857.	1.3	26
100	Mesoscale dynamic simulation on phase separation between plasticizer and binder in NEPE propellants. Polymer, 2008, 49, 2775-2780.	1.8	27
101	Studies on some factors influencing the interfacial tension measurement of polymers. Polymer, 2005, 46, 2811-2816.	1.8	16
102	Mesoscale simulation on the shape evolution of polymer drop and initial geometry influence. Polymer, 2004, 45, 6985-6991.	1.8	12
103	Research on Mechanical Performance of Roof Tiles Made of Tire Powder and Waste Plastic. Advanced Materials Research, 0, 87-88, 329-332.	0.3	6
104	Encapsulating and Manufacture Technology Study of Impact-Resisting, Enclosed Soft Aramid Vesicle. Materials Science Forum, 0, 686, 752-757.	0.3	0
105	Finite Element Analysis of Performance for Radial Tires, Part II: Simulation Results. Advanced Materials Research, 0, 221, 170-174.	0.3	1
106	Factors Influencing Diameter of Polypropylene Fiber in Melt Electrospinning. Advanced Materials Research, 0, 221, 129-134.	0.3	12
107	Effect of Plasticizer and Load on Melt Electrospinning of PLA. Key Engineering Materials, 0, 501, 32-36.	0.4	10
108	Finite Element Analysis for Effect of Double Firm Rings on Grounding Performance of Aircraft Tire. Key Engineering Materials, 0, 561, 250-254.	0.4	1

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109	The Preparation of Polypropylene/Polyvinyl Alcohol Ultra-Fine Fibers Using Melt Electrospinning Method. Key Engineering Materials, 0, 561, 8-12.	0.4	5
110	Finite Element Analysis for Effect of Different Carcass on Performance of Aircraft Tire. Key Engineering Materials, 0, 561, 422-427.	0.4	0
111	Research on the Modification of Waterborne UV-Curable Polyurethane Acrylate. Advanced Materials Research, 0, 864-867, 698-701.	0.3	1
112	Competitive effects of centrifugal force and electric field force on centrifugal electrospinning. Iranian Polymer Journal (English Edition), 0, , .	1.3	3