

Weimin Yang

List of Publications by Year in descending order

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89
papers

1,380
citations

361413

20
h-index

414414

32
g-index

89
all docs

89
docs citations

89
times ranked

1325
citing authors

#	ARTICLE	IF	CITATIONS
1	Melt electrospinning of low-density polyethylene having a low-melt flow index. Journal of Applied Polymer Science, 2009, 114, 166-175.	2.6	124
2	Current State of Applications of Nanocellulose in Flexible Energy and Electronic Devices. Frontiers in Chemistry, 2020, 8, 420.	3.6	84
3	Orthogonal design study on factors effecting on fibers diameter of melt electrospinning. Polymer Engineering and Science, 2010, 50, 2074-2078.	3.1	63
4	Effect of oriented fiber membrane fabricated via needleless melt electrospinning on water filtration efficiency. Desalination, 2014, 344, 266-273.	8.2	61
5	A large-scale double-stage screw 3D printer for fused deposition of plastic pellets. Journal of Applied Polymer Science, 2017, 134, 45147.	2.6	56
6	A review of thermoplastic polymer foams for functional applications. Journal of Materials Science, 2021, 56, 11579-11604.	3.7	46
7	Polypropylene fibers fabricated via a needleless melt electrospinning device for marine oil spill cleanup. Journal of Applied Polymer Science, 2014, 131, .	2.6	44
8	High Efficiency Solar Membranes Structurally Designed with 3D Core-2D Shell SiO ₂ @Amino-Carbon Hybrid Advanced Composite for Facile Steam Generation. ACS Applied Materials & Interfaces, 2020, 12, 35493-35501.	8.0	41
9	Carbon Fibers with High Electrical Conductivity: Laser Irradiation of Mesophase Pitch Filaments Obtains High Graphitization Degree. ACS Sustainable Chemistry and Engineering, 2020, 8, 17629-17638.	6.7	40
10	Design, synthesis and biological evaluation of bis-aryl ureas and amides based on 2-amino-3-purinyipyridine scaffold as DFG-out B-Raf kinase inhibitors. European Journal of Medicinal Chemistry, 2015, 89, 581-596.	5.5	39
11	A Crawling Soft Robot Driven by Pneumatic Foldable Actuators Based on Miura-Ori. Actuators, 2020, 9, 26.	2.3	37
12	Needleless Melt-Electrospinning of Biodegradable Poly(Lactic Acid) Ultrafine Fibers for the Removal of Oil from Water. Polymers, 2017, 9, 3.	4.5	36
13	Online pressure-volume-temperature measurements of polypropylene using a testing mold to simulate the injection molding process. Journal of Applied Polymer Science, 2010, 118, 200-208.	2.6	35
14	Solvent-free preparation of polylactic acid fibers by melt electrospinning using umbrella-like spray head and alleviation of problematic thermal degradation. Journal of the Serbian Chemical Society, 2012, 77, 1071-1082.	0.8	30
15	Efficient preparation of poly(lactic acid) nanofibers by melt differential electrospinning with addition of acetyl tributyl citrate. Journal of Applied Polymer Science, 2018, 135, 46554.	2.6	27
16	Orthogonal design study on factors affecting the degradation of polylactic acid fibers of melt electrospinning. Journal of Applied Polymer Science, 2012, 125, 2652-2658.	2.6	25
17	Interjet distance in needleless melt differential electrospinning with umbellate nozzles. Journal of Applied Polymer Science, 2014, 131, .	2.6	25
18	Effect of Mold Opening Process on Microporous Structure and Properties of Microcellular Polylactide-Polylactide Nanocomposites. Polymers, 2018, 10, 554.	4.5	23

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19	Dissipative particle dynamics simulation on the fiber dropping process of melt electrospinning. <i>Journal of Materials Science</i> , 2011, 46, 7877-7882.	3.7	21
20	Gas barrier and morphology characteristics of linear low-density polyethylene and two different polypropylene films. <i>Polymer Bulletin</i> , 2011, 67, 1293-1309.	3.3	21
21	Melt-electrospinning of Polyphenylene Sulfide. <i>Fibers and Polymers</i> , 2018, 19, 2507-2513.	2.1	18
22	Melt differential electrospinning of polyphenylene sulfide nanofibers for flue gas filtration. <i>Polymer Engineering and Science</i> , 2020, 60, 2887-2894.	3.1	18
23	Water filtration properties of novel composite membranes combining solution electrospinning and needleless melt electrospinning methods. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	17
24	Microstructure and Properties of Glass Fiber-Reinforced Polyamide/Nylon Microcellular Foamed Composites. <i>Polymers</i> , 2020, 12, 2368.	4.5	17
25	Large scaled fabrication of microfibers by air-suction assisted needleless melt electrospinning. <i>Fibers and Polymers</i> , 2016, 17, 576-581.	2.1	16
26	Interfacial Diffusion and Bonding in Multilayer Polymer Films: A Molecular Dynamics Simulation. <i>Journal of Physical Chemistry B</i> , 2016, 120, 10018-10029.	2.6	16
27	Continuous manufacturing of nanofiber yarn with the assistance of suction wind and rotating collection via needleless melt electrospinning. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	2.6	16
28	Carbide-bonded graphene coating of mold insert for rapid thermal cycling in injection molding. <i>Applied Thermal Engineering</i> , 2017, 122, 19-26.	6.0	16
29	Electrospinning on a plucked string. <i>Journal of Materials Science</i> , 2019, 54, 901-910.	3.7	16
30	Conductive nano-carbon coating on silica by pyrolysis of polyethylene. <i>Materials Letters</i> , 2019, 255, 126567.	2.6	15
31	Aerophilic Co-Embedded N-Doped Carbon Nanotube Arrays as Highly Efficient Cathodes for Aluminum-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 26853-26860.	8.0	15
32	A Jumping Robot Driven by a Dielectric Elastomer Actuator. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2241.	2.5	14
33	Epoxy resin composite containing nanocarbon-coated glass fiber and cloth for electromagnetic interference shielding. <i>Journal of Materials Research and Technology</i> , 2021, 13, 1759-1766.	5.8	14
34	Effect of electric field on gas-assisted melt differential electrospinning with hollow disc electrode. <i>Journal of Polymer Engineering</i> , 2015, 35, 61-70.	1.4	13
35	Tunable-focus negative poly(vinyl chloride) gel microlens driven by unilateral electrodes. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46136.	2.6	12
36	High performance anti-smog window screens via electrospun nanofibers. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48657.	2.6	11

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37	Polymer melt differential electrospinning from a linear slot spinneret. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48922.	2.6	11
38	Conductive Nanocarbon-Coated Glass Fibers. <i>Journal of Physical Chemistry C</i> , 2020, 124, 17806-17810.	3.1	11
39	Comprehensive Assessment of the Environmental Impact of Fused Filament Fabrication Products Produced Under Various Performance Requirements. <i>Journal of the Institution of Engineers (India): Series C</i> , 2021, 102, 59-73.	1.2	11
40	Temperature evolution, atomistic hot-spot effects and thermal runaway during microwave heating of polyacrylonitrile: A ReaxFF molecular dynamics simulation. <i>Nano Select</i> , 2021, 2, 2373-2379.	3.7	11
41	The Critical Roles of the Gas Flow in Fabricating Polymer Nanofibers: A Mini-review. <i>Advanced Fiber Materials</i> , 2022, 4, 162-170.	16.1	10
42	SiC Nanofiber-Coated Carbon/Carbon Composite for Electromagnetic Interference Shielding. <i>ACS Applied Nano Materials</i> , 2022, 5, 195-204.	5.0	10
43	Structural, electrical, and electromagnetic shielding properties of nanocarbon-coated glass fiber-reinforced polypropylene. <i>Polymer Composites</i> , 2022, 43, 2796-2802.	4.6	10
44	Online ADMM-Based Extreme Learning Machine for Sparse Supervised Learning. <i>IEEE Access</i> , 2019, 7, 64533-64544.	4.2	9
45	A novel strategy to determine the optimal clamping force based on the clamping force change during injection molding. <i>Polymer Engineering and Science</i> , 2021, 61, 3170-3178.	3.1	9
46	Filling-To-Packing Switchover Mode Based on Cavity Temperature for Injection Molding. <i>Polymer-Plastics Technology and Engineering</i> , 2011, 50, 1273-1280.	1.9	8
47	In situ fibrillation-reinforced polypropylene-based multi-component foams. <i>Polymers for Advanced Technologies</i> , 2021, 32, 4052-4060.	3.2	8
48	Mechanical and dielectric properties and crystalline behavior of multilayer graphite-filled polyethylene composites. <i>Journal of Applied Polymer Science</i> , 2019, 136, 48131.	2.6	7
49	Efficient preparation of polymer nanofibers by needle roller electrospinning with low threshold voltage. <i>Polymer Engineering and Science</i> , 2019, 59, 745-751.	3.1	7
50	Mechanical Behavior of PMMA/SiO ₂ Multilayer Nanocomposites: Experiments and Molecular Dynamics Simulation. <i>Macromolecular Research</i> , 2020, 28, 266-274.	2.4	7
51	Improving appearance quality of injection molded microcellular parts through mold coating of PTFE and zirconia. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50828.	2.6	7
52	Polypropylene-based in situ fibrillation-reinforced ternary composite foams with improved filler-phase dispersion. <i>Polymer Engineering and Science</i> , 2022, 62, 373-381.	3.1	7
53	The effects of under-ribs convection on enhanced drainage parallel flow field for proton exchange membrane fuel cell. <i>Korean Journal of Chemical Engineering</i> , 2022, 39, 2055-2068.	2.7	7
54	Microalgal cultivation and hydrodynamic characterization using a novel tubular photobioreactor with helical blade rotors. <i>Bioprocess and Biosystems Engineering</i> , 2017, 40, 1743-1751.	3.4	6

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55	Research on Tire Marking Point Completeness Evaluation Based on K-Means Clustering Image Segmentation. <i>Sensors</i> , 2020, 20, 4687.	3.8	6
56	A Haptic Feedback Actuator Suitable for the Soft Wearable Device. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8827.	2.5	6
57	Recent Advances in Enhancing Oxygen Reduction Reaction Performance for Non-Noble Metal Electrocatalysts Derived from Electrospinning. <i>Energy Technology</i> , 2021, 9, 2100301.	3.8	6
58	Design, Synthesis and Antitumor Activities of Bis-aryleureas and Bisarylamides Based on 1H-benzo[d]imidazole Moiety as Novel BRAF ^{V600E}/sub>/VEGFR2 Dual Inhibitors. <i>Letters in Drug Design and Discovery</i> , 2014, 11, 1079-1089.	0.7	6
59	Self-Optimization of the V/P switchover and packing pressure for online viscosity compensation during injection molding. <i>Polymer Engineering and Science</i> , 2022, 62, 1114-1123.	3.1	6
60	Mechanism and solutions of appearance defects on microfluidic chips manufactured by UV-curing assisted injection molding. <i>Journal of Polymer Engineering</i> , 2017, 37, 493-503.	1.4	5
61	Experimental research of drop-on-demand droplet jetting 3D printing with molten polymer. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45933.	2.6	5
62	Uniform Distribution and Densification of Jets in Needleless Electrospinning Using Annular Tip Nozzle. <i>Polymers</i> , 2019, 11, 1301.	4.5	5
63	The forming process of polymer melt droplet deposition three-dimensional printing. <i>Polymer Engineering and Science</i> , 2020, 60, 1866-1876.	3.1	5
64	Study on properties of carbon-coated silica prepared by polymer pyrolysis reinforced rubber composites. <i>Polymer Testing</i> , 2022, 110, 107583.	4.8	5
65	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.	2.1	4
66	Electrical conductivity of carbon nanotube/polypropylene composites prepared through microlayer extrusion technology. <i>Journal of Polymer Engineering</i> , 2017, 37, 795-804.	1.4	4
67	Confinement effects on the orientation of graphene in multilayer polymer nanocomposites during lamination: A molecular dynamics simulation. <i>Journal of Applied Physics</i> , 2019, 126, .	2.5	4
68	The research of UV curing injection molding. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	3
69	Enhancing Mixing and Thermal Management of Recycled Carbon Composite Systems by Torsion-Induced Phase-to-Phase Thermal and Molecular Mobility. <i>Polymers</i> , 2020, 12, 771.	4.5	3
70	Dissolution window in in situ polymerization preparation of polyamide single-polymer composites. <i>Polymer Engineering and Science</i> , 2021, 61, 1662-1672.	3.1	3
71	Accelerated Graphitization of PAN-Based Carbon Fibers: K ⁺ -Effected Graphitization via Laser Irradiation. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 8086-8093.	6.7	3
72	Design of broadband near-infrared reflector using polymer multilayer heterostructure with low-refractive-index contrast. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	2.3	2

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73	The mechanism of the controlled deposition of electrospun fibers. <i>Polymer Engineering and Science</i> , 2020, 60, 2076-2086.	3.1	2
74	String electrospinning based on the standing wave vibration. <i>Journal of Materials Science</i> , 2021, 56, 9518-9531.	3.7	2
75	Acoustic Absorption Properties of Polystyreneâ€­Pyrolytic Pinus Resinosa Composite Foams Prepared by Torsionâ€­Induced Extrusion. <i>Macromolecular Materials and Engineering</i> , 2022, 307, 2100622.	3.6	2
76	Design of polymer multilayer heterostructure broadband reflector for the near-infrared using genetic algorithm. <i>Journal of Nanophotonics</i> , 2017, 11, 1.	1.0	2
77	Molecular Structure Effect of a Self-Assembled Monolayer on Thermal Resistance across an Interface. <i>Polymers</i> , 2021, 13, 3732.	4.5	2
78	Plasma sprayed thermal barrier coatings: Effects of polyamide additive on injection molding part quality. <i>Journal of Applied Polymer Science</i> , 2022, 139, 51980.	2.6	2
79	A Soft Electro-Hydraulic Pneumatic Actuator with Self-Sensing Capability toward Multi-Modal Haptic Feedback. <i>Actuators</i> , 2022, 11, 74.	2.3	2
80	Development of a multimicroinjection molding system for thermoplastic polymer. <i>Polymer Engineering and Science</i> , 2012, 52, 2237-2244.	3.1	1
81	Feature-Integrated Structural Optimization Design Method and Performance Evaluation for Hollow Slab Structures. <i>IEEE Access</i> , 2020, 8, 220450-220460.	4.2	1
82	Energy-Saving Performance and Production Accuracy of the Direct-Pressure Tire Curing Technology with an Expandable Steel Internal Mold. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 79.	2.5	1
83	An efficient approach to reliability-based topology optimization for the structural lightweight design of planar continuum structures. <i>Journal of Mechanics</i> , 2021, 37, 270-281.	1.4	1
84	Design and Ductile Behavior of Torsion Configurations in Material Extrusion to Enhance Plasticizing and Melting. <i>Polymers</i> , 2021, 13, 3181.	4.5	1
85	Interfacial thermal resistance in polymer composites: a molecular dynamic perspective. <i>Molecular Simulation</i> , 2022, 48, 902-925.	2.0	1
86	Preparation of nanocarbon-coated glass fibre/phenolic composites for EMI shielding. <i>Bulletin of Materials Science</i> , 2022, 45, .	1.7	1
87	Rotors with a novel structure for enhanced follow-up dynamic mixing. <i>International Journal of Chemical Reactor Engineering</i> , 2021, 19, 427-438.	1.1	0
88	Design and Static Analysis of Rotary Manipulator for Fixed-point Tire Vulcanization. , 2021, , .		0
89	Research on Modelling, Finite Element Analysis and Experiment of Gravity Valve. , 2021, , .		0