Weimin Yang

List of Publications by Year
in descending order

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	Acoustic Absorption Properties of Polystyreneâ€Pyrolytic Pinus Resinosa Composite Foams Prepared by Torsionâ€Induced Extrusion. Macromolecular Materials and Engineering, 2022, 307, 2100622.	3.6	2
2	<scp>Polypropyleneâ€based</scp> in situ <scp>fibrillationâ€reinforced</scp> ternary composite foams with improved <scp>fillerâ€phase</scp> dispersion. Polymer Engineering and Science, 2022, 62, 373-381.	3.1	7
3	Plasma sprayed thermal barrier coatings: Effects of polyamide additive on injection molding part quality. Journal of Applied Polymer Science, 2022, 139, 51980.	2.6	2
4	The Critical Roles of the Gas Flow in Fabricating Polymer Nanofibers: A Mini-review. Advanced Fiber Materials, 2022, 4, 162-170.	16.1	10
5	Selfâ€optimization of the V/P switchover and packing pressure for online viscosity compensation during injection molding. Polymer Engineering and Science, 2022, 62, 1114-1123.	3.1	6
6	SiC Nanofiber-Coated Carbon/Carbon Composite for Electromagnetic Interference Shielding. ACS Applied Nano Materials, 2022, 5, 195-204.	5.0	10
7	Structural, electrical, and electromagnetic shielding properties of nanocarbonâ€coated glass fiberâ€reinforced polypropylene. Polymer Composites, 2022, 43, 2796-2802.	4.6	10
8	A Soft Electro-Hydraulic Pneumatic Actuator with Self-Sensing Capability toward Multi-Modal Haptic Feedback. Actuators, 2022, 11, 74.	2.3	2
9	Study on properties of carbon-coated silica prepared by polymer pyrolysis reinforced rubber composites. Polymer Testing, 2022, 110, 107583.	4.8	5
10	Interfacial thermal resistance in polymer composites: a molecular dynamic perspective. Molecular Simulation, 2022, 48, 902-925.	2.0	1
11	The effects of under-ribs convection on enhanced drainage parallel flow field for proton exchange membrane fuel cell. Korean Journal of Chemical Engineering, 2022, 39, 2055-2068.	2.7	7
12	Accelerated Graphitization of PAN-Based Carbon Fibers: K⁺-Effected Graphitization via Laser Irradiation. ACS Sustainable Chemistry and Engineering, 2022, 10, 8086-8093.	6.7	3
13	Preparation of nanocarbon-coated glass fibre/phenolic composites for EMI shielding. Bulletin of Materials Science, 2022, 45, .	1.7	1
14	Comprehensive Assessment of the Environmental Impact of Fused Filament Fabrication Products Produced Under Various Performance Requirements. Journal of the Institution of Engineers (India): Series C, 2021, 102, 59-73.	1.2	11
15	An efficient approach to reliability-based topology optimization for the structural lightweight design of planar continuum structures. Journal of Mechanics, 2021, 37, 270-281.	1.4	1
16	String electrospinning based on the standing wave vibration. Journal of Materials Science, 2021, 56, 9518-9531.	3.7	2
17	Rotors with a novel structure for enhanced follow-up dynamic mixing. International Journal of Chemical Reactor Engineering, 2021, 19, 427-438.	1.1	0
18	Dissolution window in in situ polymerization preparation of polyamide singleâ€polymer composites. Polymer Engineering and Science, 2021, 61, 1662-1672.	3.1	3

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19	A review of thermoplastic polymer foams for functional applications. Journal of Materials Science, 2021, 56, 11579-11604.	3.7	46
20	Improving appearance quality of injection molded microcellular parts through mold coating of PTFE and zirconia. Journal of Applied Polymer Science, 2021, 138, 50828.	2.6	7
21	Temperature evolution, atomistic hotâ€spot effects and thermal runaway during microwave heating of polyacrylonitrile: A ReaxFF molecular dynamics simulation. Nano Select, 2021, 2, 2373-2379.	3.7	11
22	In situ <scp>fibrillationâ€reinforced polypropyleneâ€based multiâ€component</scp> foams. Polymers for Advanced Technologies, 2021, 32, 4052-4060.	3.2	8
23	Aerophilic Co-Embedded N-Doped Carbon Nanotube Arrays as Highly Efficient Cathodes for Aluminumâ€“Air Batteries. ACS Applied Materials & Interfaces, 2021, 13, 26853-26860.	8.0	15
24	Design and Static Analysis of Rotary Manipulator for Fixed-point Tire Vulcanization. , 2021, , .		0
25	Epoxy resin composite containing nanocarbon-coated glass fiber and cloth for electromagnetic interference shielding. Journal of Materials Research and Technology, 2021, 13, 1759-1766.	5.8	14
26	Recent Advances in Enhancing Oxygen Reduction Reaction Performance for Nonâ€Nobleâ€Metal Electrocatalysts Derived from Electrospinning. Energy Technology, 2021, 9, 2100301.	3.8	6
27	Design and Ductile Behavior of Torsion Configurations in Material Extrusion to Enhance Plasticizing and Melting. Polymers, 2021, 13, 3181.	4.5	1
28	A novel strategy to determine the optimal clamping force based on the clamping force change during injection molding. Polymer Engineering and Science, 2021, 61, 3170-3178.	3.1	9
29	Molecular Structure Effect of a Self-Assembled Monolayer on Thermal Resistance across an Interface. Polymers, 2021, 13, 3732.	4.5	2
30	Research on Modelling, Finite Element Analysis and Experiment of Gravity Valve. , 2021, , .		0
31	High performance antiâ€smog window screens via electrospun nanofibers. Journal of Applied Polymer Science, 2020, 137, 48657.	2.6	11
32	Mechanical Behavior of PMMA/SiO2 Multilayer Nanocomposites: Experiments and Molecular Dynamics Simulation. Macromolecular Research, 2020, 28, 266-274.	2.4	7
33	Polymer melt differential electrospinning from a linear slot spinneret. Journal of Applied Polymer Science, 2020, 137, 48922.	2.6	11
34	High Efficiency Solar Membranes Structurally Designed with 3D Coreâ€“2D Shell SiO₂@Amino-Carbon Hybrid Advanced Composite for Facile Steam Generation. ACS Applied Materials & Interfaces, 2020, 12, 35493-35501.	8.0	41
35	Conductive Nanocarbon-Coated Glass Fibers. Journal of Physical Chemistry C, 2020, 124, 17806-17810.	3.1	11
36	The mechanism of the controlled deposition of electrospun fibers. Polymer Engineering and Science, 2020, 60, 2076-2086.	3.1	2

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37	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
38	Melt differential electrospinning of polyphenylene sulfide nanofibers for flue gas filtration. Polymer Engineering and Science, 2020, 60, 2887-2894.	3.1	18
39	The forming process of polymer melt droplet deposition threeâ€dimensional printing. Polymer Engineering and Science, 2020, 60, 1866-1876.	3.1	5
40	Microstructure and Properties of Glass Fiber-Reinforced Polyamide/Nylon Microcellular Foamed Composites. Polymers, 2020, 12, 2368.	4.5	17
41	Research on Tire Marking Point Completeness Evaluation Based on K-Means Clustering Image Segmentation. Sensors, 2020, 20, 4687.	3.8	6
42	Feature-Integrated Structural Optimization Design Method and Performance Evaluation for Hollow Slab Structures. IEEE Access, 2020, 8, 220450-220460.	4.2	1
43	A Haptic Feedback Actuator Suitable for the Soft Wearable Device. Applied Sciences (Switzerland), 2020, 10, 8827.	2.5	6
44	Current State of Applications of Nanocellulose in Flexible Energy and Electronic Devices. Frontiers in Chemistry, 2020, 8, 420.	3.6	84
45	Energy-Saving Performance and Production Accuracy of the Direct-Pressure Tire Curing Technology with an Expandable Steel Internal Mold. Applied Sciences (Switzerland), 2020, 10, 79.	2.5	1
46	Enhancing Mixing and Thermal Management of Recycled Carbon Composite Systems by Torsion-Induced Phase-to-Phase Thermal and Molecular Mobility. Polymers, 2020, 12, 771.	4.5	3
47	A Crawling Soft Robot Driven by Pneumatic Foldable Actuators Based on Miura-Ori. Actuators, 2020, 9, 26.	2.3	37
48	A Jumping Robot Driven by a Dielectric Elastomer Actuator. Applied Sciences (Switzerland), 2020, 10, 2241.	2.5	14
49	Uniform Distribution and Densification of Jets in Needleless Electrospinning Using Annular Tip Nozzle. Polymers, 2019, 11, 1301.	4.5	5
50	Confinement effects on the orientation of graphene in multilayer polymer nanocomposites during lamination: A molecular dynamics simulation. Journal of Applied Physics, 2019, 126, .	2.5	4
51	Conductive nano-carbon coating on silica by pyrolysis of polyethylene. Materials Letters, 2019, 255, 126567.	2.6	15
52	Mechanical and dielectric properties and crystalline behavior of multilayer graphiteâ€filled polyethylene composites. Journal of Applied Polymer Science, 2019, 136, 48131.	2.6	7
53	Online ADMM-Based Extreme Learning Machine for Sparse Supervised Learning. IEEE Access, 2019, 7, 64533-64544.	4.2	9
54	Electrospinning on a plucked string. Journal of Materials Science, 2019, 54, 901-910.	3.7	16

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55	Efficient preparation of polymer nanofibers by needle roller electrospinning with low threshold voltage. Polymer Engineering and Science, 2019, 59, 745-751.	3.1	7
56	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
57	Experimental research of dropâ€onâ€demand droplet jetting 3D printing with molten polymer. Journal of Applied Polymer Science, 2018, 135, 45933.	2.6	5
58	Tunableâ€focus negative poly(vinyl chloride) gel microlens driven by unilateral electrodes. Journal of Applied Polymer Science, 2018, 135, 46136.	2.6	12
59	Melt-electrospinning of Polyphenylene Sulfide. Fibers and Polymers, 2018, 19, 2507-2513.	2.1	18
60	Effect of Mold Opening Process on Microporous Structure and Properties of Microcellular Polylactideâ€“Polylactide Nanocomposites. Polymers, 2018, 10, 554.	4.5	23
61	Electrical conductivity of carbon nanotube/polypropylene composites prepared through microlayer extrusion technology. Journal of Polymer Engineering, 2017, 37, 795-804.	1.4	4
62	Continuous manufacturing of nanofiber yarn with the assistance of suction wind and rotating collection via needleless melt electrospinning. Journal of Applied Polymer Science, 2017, 134, .	2.6	16
63	Carbide-bonded graphene coating of mold insert for rapid thermal cycling in injection molding. Applied Thermal Engineering, 2017, 122, 19-26.	6.0	16
64	A largeâ€scale doubleâ€stageâ€screw 3<scp>D</scp> printer for fused deposition of plastic pellets. Journal of Applied Polymer Science, 2017, 134, 45147.	2.6	56
65	Microalgal cultivation and hydrodynamic characterization using a novel tubular photobioreactor with helical blade rotors. Bioprocess and Biosystems Engineering, 2017, 40, 1743-1751.	3.4	6
66	Design of broadband near-infrared reflector using polymer multilayer heterostructure with low-refractive-index contrast. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	2
67	Mechanism and solutions of appearance defects on microfluidic chips manufactured by UV-curing assisted injection molding. Journal of Polymer Engineering, 2017, 37, 493-503.	1.4	5
68	Needleless Melt-Electrospinning of Biodegradable Poly(Lactic Acid) Ultrafine Fibers for the Removal of Oil from Water. Polymers, 2017, 9, 3.	4.5	36
69	Design of polymer multilayer heterostructure broadband reflector for the near-infrared using genetic algorithm. Journal of Nanophotonics, 2017, 11, 1.	1.0	2
70	Large scaled fabrication of microfibers by air-suction assisted needleless melt electrospinning. Fibers and Polymers, 2016, 17, 576-581.	2.1	16
71	Interfacial Diffusion and Bonding in Multilayer Polymer Films: A Molecular Dynamics Simulation. Journal of Physical Chemistry B, 2016, 120, 10018-10029.	2.6	16
72	Effect of electric field on gas-assisted melt differential electrospinning with hollow disc electrode. Journal of Polymer Engineering, 2015, 35, 61-70.	1.4	13

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73	The research of UV curing injection molding. AIP Conference Proceedings, 2015, , .	0.4	3
74	Water filtration properties of novel composite membranes combining solution electrospinning and needleless melt electrospinning methods. Journal of Applied Polymer Science, 2015, 132, .	2.6	17
75	Design, synthesis and biological evaluation of bis-aryl ureas and amides based on 2-amino-3-purinylpyridine scaffold as DFG-out B-Raf kinase inhibitors. European Journal of Medicinal Chemistry, 2015, 89, 581-596.	5.5	39
76	Polypropylene fibers fabricated via a needleless meltâ€electrospinning device for marine oilâ€spill cleanup. Journal of Applied Polymer Science, 2014, 131, .	2.6	44
77	Interjet distance in needleless melt differential electrospinning with umbellate nozzles. Journal of Applied Polymer Science, 2014, 131, .	2.6	25
78	Effect of oriented fiber membrane fabricated via needleless melt electrospinning on water filtration efficiency. Desalination, 2014, 344, 266-273.	8.2	61
79	Design, Synthesis and AntitumorActivities of Bis-arylureas and Bisarylamides Based on 1H-benzo[d]imidazole Moiety as Novel BRaf <sup>V600E</sub>/VEGFR2 Dual Inhibitors. Letters in Drug Design and Discovery, 2014, 11, 1079-1089.	0.7	6
80	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
81	Development of a multimicroinjection molding system for thermoplastic polymer. Polymer Engineering and Science, 2012, 52, 2237-2244.	3.1	1
82	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
83	Dissipative particle dynamics simulation on the fiber dropping process of melt electrospinning. Journal of Materials Science, 2011, 46, 7877-7882.	3.7	21
84	Gas barrier and morphology characteristics of linear low-density polyethylene and two different polypropylene films. Polymer Bulletin, 2011, 67, 1293-1309.	3.3	21
85	Filling-To-Packing Switchover Mode Based on Cavity Temperature for Injection Molding. Polymer-Plastics Technology and Engineering, 2011, 50, 1273-1280.	1.9	8
86	Online pressureâ€“volumeâ€“temperature measurements of polypropylene using a testing mold to simulate the injectionâ€molding process. Journal of Applied Polymer Science, 2010, 118, 200-208.	2.6	35
87	Influences of three kinds of springs on the retraction of a polymer ellipsoid in dissipative particle dynamics simulation. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 2484-2489.	2.1	4
88	Orthogonal design study on factors effecting on fibers diameter of melt electrospinning. Polymer Engineering and Science, 2010, 50, 2074-2078.	3.1	63
89	Melt electrospinning of lowâ€density polyethylene having a lowâ€melt flow index. Journal of Applied Polymer Science, 2009, 114, 166-175.	2.6	124