

# Benjamin Hsiao

## List of Publications by Year in descending order

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262  
papers

15,336  
citations

13098

68  
h-index

23530

111  
g-index

267  
all docs

267  
docs citations

267  
times ranked

12877  
citing authors

#	ARTICLE	IF	CITATIONS
1	NANOFIBROUS MATERIALS AND THEIR APPLICATIONS. Annual Review of Materials Research, 2006, 36, 333-368.	9.3	573
2	High flux ultrafiltration membranes based on electrospun nanofibrous PAN scaffolds and chitosan coating. Polymer, 2006, 47, 2434-2441.	3.8	503
3	Functional nanofibers for environmental applications. Journal of Materials Chemistry, 2008, 18, 5326.	6.7	388
4	Small-Angle X-ray Scattering of Polymers. Chemical Reviews, 2001, 101, 1727-1762.	47.7	348
5	Isothermal Crystallization of Poly(l-lactide) Induced by Graphene Nanosheets and Carbon Nanotubes: A Comparative Study. Macromolecules, 2010, 43, 5000-5008.	4.8	308
6	Unexpected Shish-Kebab Structure in a Sheared Polyethylene Melt. Physical Review Letters, 2005, 94, 117802.	7.8	254
7	Effects of organoclays on morphology and thermal and rheological properties of polystyrene and poly(methyl methacrylate) blends. Journal of Polymer Science, Part B: Polymer Physics, 2003, 41, 44-54.	2.1	250
8	Ultra-fine cellulose nanofibers: new nano-scale materials for water purification. Journal of Materials Chemistry, 2011, 21, 7507.	6.7	250
9	Micro-nano structure poly(ether sulfones)/poly(ethyleneimine) nanofibrous affinity membranes for adsorption of anionic dyes and heavy metal ions in aqueous solution. Chemical Engineering Journal, 2012, 197, 88-100.	12.7	250
10	Nanofibrous microfiltration membranes capable of removing bacteria, viruses and heavy metal ions. Journal of Membrane Science, 2013, 446, 376-382.	8.2	215
11	Ultrafine Polysaccharide Nanofibrous Membranes for Water Purification. Biomacromolecules, 2011, 12, 970-976.	5.4	212
12	Thiol-modified cellulose nanofibrous composite membranes for chromium (VI) and lead (II) adsorption. Polymer, 2014, 55, 1167-1176.	3.8	211
13	Nanofibrous Microfiltration Membrane Based on Cellulose Nanowhiskers. Biomacromolecules, 2012, 13, 180-186.	5.4	201
14	Ultrafine Cellulose Nanofibers as Efficient Adsorbents for Removal of $UO_2^{2+}$ in Water. ACS Macro Letters, 2012, 1, 213-216.	4.8	187
15	Nanoscale reinforcement of polyhedral oligomeric silsesquioxane (POSS) in polyurethane elastomer. Polymer International, 2000, 49, 437-440.	3.1	182
16	Formation and Stability of Shear-Induced Shish-Kebab Structure in Highly Entangled Melts of UHMWPE/HDPE Blends. Macromolecules, 2008, 41, 4766-4776.	4.8	162
17	Graphene Nanosheets and Shear Flow Induced Crystallization in Isotactic Polypropylene Nanocomposites. Macromolecules, 2011, 44, 2808-2818.	4.8	160
18	Formation of functional polyethersulfone electrospun membrane for water purification by mixed solvent and oxidation processes. Polymer, 2009, 50, 2893-2899.	3.8	156

#	ARTICLE	IF	CITATIONS
19	Highly Permeable Polymer Membranes Containing Directed Channels for Water Purification. ACS Macro Letters, 2012, 1, 723-726.	4.8	154
20	Effective chromium removal from water by polyaniline-coated electrospun adsorbent membrane. Chemical Engineering Journal, 2019, 372, 341-351.	12.7	151
21	Fabrication and characterization of cellulose nanofiber based thin-film nanofibrous composite membranes. Journal of Membrane Science, 2014, 454, 272-282.	8.2	150
22	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.	5.4	149
23	Functionalized electrospun nanofibrous microfiltration membranes for removal of bacteria and viruses. Journal of Membrane Science, 2014, 452, 446-452.	8.2	142
24	Dual-Biomimetic Superhydrophobic Electrospun Polystyrene Nanofibrous Membranes for Membrane Distillation. ACS Applied Materials & Interfaces, 2014, 6, 2423-2430.	8.0	141
25	Mechanism of strain-induced crystallization in filled and unfilled natural rubber vulcanizates. Journal of Applied Physics, 2005, 97, 103529.	2.5	140
26	Low-dimensional carbonaceous nanofiller induced polymer crystallization. Progress in Polymer Science, 2014, 39, 555-593.	24.7	140
27	Nanocellulose from Spinifex as an Effective Adsorbent to Remove Cadmium(II) from Water. ACS Sustainable Chemistry and Engineering, 2018, 6, 3279-3290.	6.7	138
28	Crystallization studies of isotactic polypropylene containing nanostructured polyhedral oligomeric silsesquioxane molecules under quiescent and shear conditions. Journal of Polymer Science, Part B: Polymer Physics, 2001, 39, 2727-2739.	2.1	135
29	Electrospinning of Hyaluronic Acid (HA) and HA/Gelatin Blends. Macromolecular Rapid Communications, 2006, 27, 114-120.	3.9	134
30	Entanglements and Networks to Strain-Induced Crystallization and Stress-Strain Relations in Natural Rubber and Synthetic Polyisoprene at Various Temperatures. Macromolecules, 2013, 46, 5238-5248.	4.8	132
31	Mesophase as the Precursor for Strain-Induced Crystallization in Amorphous Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	4.8	131
32	Competitive Growth of $\beta$ - and $\beta'$ -Crystals in $\beta'$ -Nucleated Isotactic Polypropylene under Shear Flow. Macromolecules, 2010, 43, 6760-6771.	4.8	128
33	Formation of Shish-Kebabs in Injection-Molded Poly(l-lactic acid) by Application of an Intense Flow Field. ACS Applied Materials & Interfaces, 2012, 4, 6774-6784.	8.0	128
34	High-flux thin-film nanofibrous composite ultrafiltration membranes containing cellulose barrier layer. Journal of Materials Chemistry, 2010, 20, 4692.	6.7	125
35	A Simple Approach to Prepare Carboxycellulose Nanofibers from Untreated Biomass. Biomacromolecules, 2017, 18, 2333-2342.	5.4	124
36	Nanocellulose-Enabled Membranes for Water Purification: Perspectives. Advanced Sustainable Systems, 2020, 4, 1900114.	5.3	118

#	ARTICLE	IF	CITATIONS
37	Characterization of Nanocellulose Using Small-Angle Neutron, X-ray, and Dynamic Light Scattering Techniques. <i>Journal of Physical Chemistry B</i> , 2017, 121, 1340-1351.	2.6	112
38	High performance thin-film nanofibrous composite hemodialysis membranes with efficient middle-molecule uremic toxin removal. <i>Journal of Membrane Science</i> , 2017, 523, 173-184.	8.2	111
39	Nanofibrous polydopamine complex membranes for adsorption of Lanthanum (III) ions. <i>Chemical Engineering Journal</i> , 2014, 244, 307-316.	12.7	106
40	Nature of Strain-Induced Structures in Natural and Synthetic Rubbers under Stretching. <i>Macromolecules</i> , 2003, 36, 5915-5917.	4.8	104
41	In vitro non-viral gene delivery with nanofibrous scaffolds. <i>Nucleic Acids Research</i> , 2005, 33, e170-e170.	14.5	102
42	Thermal Stability of Shear-Induced Shish-Kebab Precursor Structure from High Molecular Weight Polyethylene Chains. <i>Macromolecules</i> , 2006, 39, 2209-2218.	4.8	102
43	Super-Robust Polylactide Barrier Films by Building Densely Oriented Lamellae Incorporated with Ductile in Situ Nanofibrils of Poly(butylene adipate-co-terephthalate). <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 8096-8109.	8.0	102
44	Fabrication of thin-film nanofibrous composite membranes by interfacial polymerization using ionic liquids as additives. <i>Journal of Membrane Science</i> , 2010, 365, 52-58.	8.2	98
45	Structure Development during the Melt Spinning of Polyethylene and Poly(vinylidene fluoride) Fibers by in Situ Synchrotron Small- and Wide-Angle X-ray Scattering Techniques. <i>Macromolecules</i> , 1999, 32, 8121-8132.	4.8	96
46	Efficient Removal of Arsenic Using Zinc Oxide Nanocrystal-Decorated Regenerated Microfibrillated Cellulose Scaffolds. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 6140-6151.	6.7	93
47	Understanding the Mechanistic Behavior of Highly Charged Cellulose Nanofibers in Aqueous Systems. <i>Macromolecules</i> , 2018, 51, 1498-1506.	4.8	92
48	Novel nanofibrous scaffolds for water filtration with bacteria and virus removal capability. <i>Journal of Electron Microscopy</i> , 2011, 60, 201-209.	0.9	90
49	Effect of Network-Chain Length on Strain-Induced Crystallization of NR and IR Vulcanizates. <i>Rubber Chemistry and Technology</i> , 2004, 77, 711-723.	1.2	89
50	In Situ Synchrotron X-ray Scattering Study on Isotactic Polypropylene Crystallization under the Coexistence of Shear Flow and Carbon Nanotubes. <i>Macromolecules</i> , 2011, 44, 8080-8092.	4.8	89
51	Strong Shear Flow-Driven Simultaneous Formation of Classic Shish-Kebab, Hybrid Shish-Kebab, and Transcrystallinity in Poly(lactic acid)/Natural Fiber Biocomposites. <i>ACS Sustainable Chemistry and Engineering</i> , 2013, 1, 1619-1629.	6.7	89
52	Strain-Induced Crystallization of Natural Rubber: Effect of Proteins and Phospholipids. <i>Rubber Chemistry and Technology</i> , 2008, 81, 753-766.	1.2	88
53	Highly efficient and sustainable carboxylated cellulose filters for removal of cationic dyes/heavy metals ions. <i>Chemical Engineering Journal</i> , 2020, 389, 123458.	12.7	88
54	Enhanced Mechanical Performance of Self-Assembled Bundled Electrospun Fiber Yarns via Post-Treatments. <i>Macromolecular Rapid Communications</i> , 2008, 29, 826-831.	3.9	87

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55	Design and fabrication of electrospun polyethersulfone nanofibrous scaffold for high-flux nanofiltration membranes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009, 47, 2288-2300.	2.1	84
56	Thin-film nanofibrous composite membranes containing cellulose or chitin barrier layers fabricated by ionic liquids. <i>Polymer</i> , 2011, 52, 2594-2599.	3.8	84
57	High flux ethanol dehydration using nanofibrous membranes containing graphene oxide barrier layers. <i>Journal of Materials Chemistry A</i> , 2013, 1, 12998.	10.3	84
58	Self-roughened omniphobic coatings on nanofibrous membrane for membrane distillation. <i>Separation and Purification Technology</i> , 2018, 206, 14-25.	7.9	82
59	Nanocellulose for Sustainable Water Purification. <i>Chemical Reviews</i> , 2022, 122, 8936-9031.	47.7	82
60	Study of the structure development during the melt spinning of nylon 6 fiber by on-line wide-angle synchrotron X-ray scattering techniques. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1999, 37, 1277-1287.	2.1	80
61	Nanofibrous ultrafiltration membranes containing cross-linked poly(ethylene glycol) and cellulose nanofiber composite barrier layer. <i>Polymer</i> , 2014, 55, 366-372.	3.8	80
62	Nanofiltration membranes based on thin-film nanofibrous composites. <i>Journal of Membrane Science</i> , 2014, 469, 188-197.	8.2	80
63	Efficient Removal of $UO_2^{2+}$ from Water Using Carboxycellulose Nanofibers Prepared by the Nitro-Oxidation Method. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 13885-13893.	3.7	79
64	Single Molecular Layer of Silk Nanoribbon as Potential Basic Building Block of Silk Materials. <i>ACS Nano</i> , 2018, 12, 11860-11870.	14.6	79
65	Interfacial Shish-Kebabs Lengthened by Coupling Effect of In Situ Flexible Nanofibrils and Intense Shear Flow: Achieving Hierarchy To Conquer the Conflicts between Strength and Toughness of Polylactide. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 10148-10159.	8.0	77
66	Eco-friendly poly(acrylic acid)-sodium alginate nanofibrous hydrogel: A multifunctional platform for superior removal of Cu(II) and sustainable catalytic applications. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 558, 228-241.	4.7	74
67	Anionic Surfactant-Triggered Steiner Geometrical Poly(vinylidene fluoride) Nanofiber/Nanonet Air Filter for Efficient Particulate Matter Removal. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 42891-42904.	8.0	73
68	Highly permeable nanofibrous composite microfiltration membranes for removal of nanoparticles and heavy metal ions. <i>Separation and Purification Technology</i> , 2020, 233, 115976.	7.9	72
69	Silver Nanoparticle-Enabled Photothermal Nanofibrous Membrane for Light-Driven Membrane Distillation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 3269-3281.	3.7	70
70	Thiol-functionalized chitin nanofibers for As (III) adsorption. <i>Polymer</i> , 2015, 60, 9-17.	3.8	69
71	Superior Impact Toughness and Excellent Storage Modulus of Poly(lactic acid) Foams Reinforced by Shish-Kebab Nanoporous Structure. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 21071-21076.	8.0	69
72	Thin-film nanofibrous composite reverse osmosis membranes for desalination. <i>Desalination</i> , 2017, 420, 91-98.	8.2	69

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73	Lead removal from water using carboxycellulose nanofibers prepared by nitro-oxidation method. <i>Cellulose</i> , 2018, 25, 1961-1973.	4.9	69
74	From Nanofibrillar to Nanolaminar Poly(butylene succinate): Paving the Way to Robust Barrier and Mechanical Properties for Full-Biodegradable Poly(lactic acid) Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 8023-8032.	8.0	67
75	Integrated polyamide thin-film nanofibrous composite membrane regulated by functionalized interlayer for efficient water/isopropanol separation. <i>Journal of Membrane Science</i> , 2018, 553, 70-81.	8.2	67
76	Structure Changes during Uniaxial Deformation of Ethylene-Based Semicrystalline Ethylene-Propylene Copolymer. 1. SAXS Study. <i>Macromolecules</i> , 2003, 36, 1920-1929.	4.8	66
77	Arsenic(III) Removal by Nanostructured Dialdehyde Cellulose-Cysteine Microscale and Nanoscale Fibers. <i>ACS Omega</i> , 2019, 4, 22008-22020.	3.5	66
78	Dislocation-Controlled Perforated Layer Phase in a PEO- b-PS Diblock Copolymer. <i>Physical Review Letters</i> , 2001, 86, 6030-6033.	7.8	63
79	Low pressure UV-cured CS-PEO-PTEGDMA/PAN thin film nanofibrous composite nanofiltration membranes for anionic dye separation. <i>Journal of Materials Chemistry A</i> , 2016, 4, 15575-15588.	10.3	62
80	Structural developments in synthetic rubbers during uniaxial deformation by in situ synchrotron X-ray diffraction. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004, 42, 956-964.	2.1	61
81	Real-Time Crystallization of Organoclay Nanoparticle Filled Natural Rubber under Stretching. <i>Macromolecules</i> , 2008, 41, 2295-2298.	4.8	61
82	Electrospun Nanofibrous Membrane for Heavy Metal Ion Adsorption. <i>Current Organic Chemistry</i> , 2013, 17, 1361-1370.	1.6	61
83	Strong and tough micro/nanostructured poly(lactic acid) by mimicking the multifunctional hierarchy of shell. <i>Materials Horizons</i> , 2014, 1, 546-552.	12.2	61
84	Molecular dynamics and microstructure development during cold crystallization in poly(ether-ether-ketone) as revealed by real time dielectric and x-ray methods. <i>Journal of Chemical Physics</i> , 2001, 115, 3804-3813.	3.0	59
85	Multi-scaled microstructures in natural rubber characterized by synchrotron X-ray scattering and optical microscopy. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008, 46, 2456-2464.	2.1	59
86	Crystal and Crystallites Structure of Natural Rubber and Synthetic <i>cis</i> -1,4-Polyisoprene by a New Two Dimensional Wide Angle X-ray Diffraction Simulation Method. I. Strain-Induced Crystallization. <i>Macromolecules</i> , 2013, 46, 4520-4528.	4.8	59
87	Structure characterization of cellulose nanofiber hydrogel as functions of concentration and ionic strength. <i>Cellulose</i> , 2017, 24, 5417-5429.	4.9	59
88	New Insights into Lamellar Structure Development and SAXS/WAXD Sequence Appearance during Uniaxial Stretching of Amorphous Poly(ethylene terephthalate) above Glass Transition Temperature. <i>Macromolecules</i> , 2008, 41, 2859-2867.	4.8	58
89	Cationic Dialdehyde Nanocellulose from Sugarcane Bagasse for Efficient Chromium(VI) Removal. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 4734-4744.	6.7	58
90	Role of Stably Entangled Chain Network Density in Shish-Kebab Formation in Polyethylene under an Intense Flow Field. <i>Macromolecules</i> , 2015, 48, 6652-6661.	4.8	57

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91	Effects of Block Architecture on Structure and Mechanical Properties of Olefin Block Copolymers under Uniaxial Deformation. <i>Macromolecules</i> , 2011, 44, 3670-3673.	4.8	55
92	Ultra-fine electrospun nanofibrous membranes for multicomponent wastewater treatment: Filtration and adsorption. <i>Separation and Purification Technology</i> , 2020, 242, 116794.	7.9	53
93	Super-hydrophobic modification of porous natural polymer "celuffa sponge" for oil absorption. <i>Polymer</i> , 2017, 126, 470-476.	3.8	52
94	Robust superhydrophobic dual layer nanofibrous composite membranes with a hierarchically structured amorphous polypropylene skin for membrane distillation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11282-11297.	10.3	52
95	Structure development during melt spinning and subsequent annealing of polybutene-1 fibers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2000, 38, 1872-1882.	2.1	49
96	Characterization of TEMPO-oxidized cellulose nanofibers in aqueous suspension by small-angle X-ray scattering. <i>Journal of Applied Crystallography</i> , 2014, 47, 788-798.	4.5	49
97	Exploring the Nature of Cellulose Microfibrils. <i>Biomacromolecules</i> , 2015, 16, 1201-1209.	5.4	48
98	Nature of Shear-Induced Primary Nuclei in iPP Melt. <i>Journal of Macromolecular Science - Physics</i> , 2003, 42, 515-531.	1.0	47
99	Thin-Film Nanofibrous Composite Ultrafiltration Membranes Based on Polyvinyl Alcohol Barrier Layer Containing Directional Water Channels. <i>Industrial &amp; Engineering Chemistry Research</i> , 2010, 49, 11978-11984.	3.7	47
100	Molecular dynamics of natural rubber as revealed by dielectric spectroscopy: The role of natural cross-linking. <i>Soft Matter</i> , 2010, 6, 3636.	2.7	47
101	High Aspect Ratio Carboxycellulose Nanofibers Prepared by Nitro-Oxidation Method and Their Nanopaper Properties. <i>ACS Applied Nano Materials</i> , 2018, 1, 3969-3980.	5.0	47
102	Molecular orientation and stress relaxation during strain-induced crystallization of vulcanized natural rubber. <i>Polymer Journal</i> , 2010, 42, 474-481.	2.7	46
103	Real-Time Structure Changes during Uniaxial Stretching of Poly(1%-pentadecalactone) by <i>in Situ</i> Synchrotron WAXD/SAXS Techniques. <i>Macromolecules</i> , 2011, 44, 3874-3883.	4.8	46
104	Antifouling nanocellulose membranes: How subtle adjustment of surface charge lead to self-cleaning property. <i>Journal of Membrane Science</i> , 2021, 618, 118739.	8.2	46
105	The role of polymers in breakthrough technologies for water purification. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009, 47, 2431-2435.	2.1	45
106	Crystal and Crystallites Structure of Natural Rubber and Peroxide-Vulcanized Natural Rubber by a Two-Dimensional Wide-Angle X-ray Diffraction Simulation Method. II. Strain-Induced Crystallization versus Temperature-Induced Crystallization. <i>Macromolecules</i> , 2013, 46, 9712-9721.	4.8	45
107	Cross-Sections of Nanocellulose from Wood Analyzed by Quantized Polydispersity of Elementary Microfibrils. <i>ACS Nano</i> , 2020, 14, 16743-16754.	14.6	45
108	Continuous fabrication of cellulose nanocrystal/poly(ethylene glycol) diacrylate hydrogel fiber from nanocomposite dispersion: Rheology, preparation and characterization. <i>Polymer</i> , 2017, 123, 55-64.	3.8	44

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109	In Vitro Mineralization of Collagen in Demineralized Fish Bone. <i>Macromolecular Chemistry and Physics</i> , 2005, 206, 43-51.	2.2	43
110	Shear-Induced Precursor Relaxation-Dependent Growth Dynamics and Lamellar Orientation of $\beta$ -Crystals in $\beta$ -Nucleated Isotactic Polypropylene. <i>Journal of Physical Chemistry B</i> , 2015, 119, 5716-5727.	2.6	43
111	In Situ Nanofibrillar Networks Composed of Densely Oriented Polylactide Crystals as Efficient Reinforcement and Promising Barrier Wall for Fully Biodegradable Poly(butylene succinate) Composite Films. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 2887-2897.	6.7	43
112	Novel thin-film nanofibrous composite membranes containing directional toxin transport nanochannels for efficient and safe hemodialysis application. <i>Journal of Membrane Science</i> , 2019, 582, 151-163.	8.2	43
113	Elucidating the Opportunities and Challenges for Nanocellulose Spinning. <i>Advanced Materials</i> , 2021, 33, e2001238.	21.0	43
114	Facile synthesis of TiO <sub>2</sub> /CNC nanocomposites for enhanced Cr(VI) photoreduction: Synergistic roles of cellulose nanocrystals. <i>Carbohydrate Polymers</i> , 2020, 233, 115838.	10.2	43
115	Preferred Orientation in Polymer Fiber Scattering. <i>Polymer Reviews</i> , 2010, 50, 91-111.	10.9	42
116	Strong Silk Fibers Containing Cellulose Nanofibers Generated by a Bioinspired Microfluidic Chip. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 14765-14774.	6.7	42
117	Tough and Elastic Thermoplastic Organogels and Elastomers Made of Semicrystalline Polyolefin-Based Block Copolymers. <i>Macromolecules</i> , 2012, 45, 5604-5618.	4.8	41
118	Molecular Weight and Crystallization Temperature Effects on Poly(ethylene terephthalate) (PET) Homopolymers, an Isothermal Crystallization Analysis. <i>Polymers</i> , 2014, 6, 583-600.	4.5	41
119	Engineering construction of robust superhydrophobic two-tier composite membrane with interlocked structure for membrane distillation. <i>Journal of Membrane Science</i> , 2020, 598, 117813.	8.2	41
120	Biodegradable silk fibroin-based bio-piezoelectric/triboelectric nanogenerators as self-powered electronic devices. <i>Nano Energy</i> , 2022, 96, 107101.	16.0	41
121	In-Situ X-ray Deformation Study of Fluorinated Multiwalled Carbon Nanotube and Fluorinated Ethylene-Propylene Nanocomposite Fibers. <i>Macromolecules</i> , 2006, 39, 5427-5437.	4.8	40
122	Biofouling-resistant nanocellulose layer in hierarchical polymeric membranes: Synthesis, characterization and performance. <i>Journal of Membrane Science</i> , 2019, 579, 162-171.	8.2	40
123	A durable thin-film nanofibrous composite nanofiltration membrane prepared by interfacial polymerization on a double-layer nanofibrous scaffold. <i>RSC Advances</i> , 2017, 7, 18001-18013.	3.6	39
124	Processing-structure-mechanical property relationships of semicrystalline polyolefin-based block copolymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 1428-1437.	2.1	38
125	Plastic Deformation of Semicrystalline Polyethylene by X-ray Scattering: Comparison with Atomistic Simulations. <i>Macromolecules</i> , 2013, 46, 5279-5289.	4.8	38
126	Simultaneous improvement of strength and toughness in fiber reinforced isotactic polypropylene composites by shear flow and a $\beta$ -nucleating agent. <i>RSC Advances</i> , 2014, 4, 14766-14776.	3.6	38

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127	Step-Cycle Mechanical Processing of Gels of sPP- <i>b</i> -EPR- <i>b</i> -sPP Triblock Copolymer in Mineral Oil. <i>Macromolecules</i> , 2010, 43, 6782-6788.	4.8	37
128	Chain Dynamics and Strain-Induced Crystallization of Pre- and Postvulcanized Natural Rubber Latex Using Proton Multiple Quantum NMR and Uniaxial Deformation by <i>in Situ</i> Synchrotron X-ray Diffraction. <i>Macromolecules</i> , 2012, 45, 6491-6503.	4.8	36
129	Improvement of meltdown temperature of lithium-ion battery separator using electrospun polyethersulfone membranes. <i>Polymer</i> , 2016, 107, 163-169.	3.8	36
130	Integrated dynamic wet spinning of core-sheath hydrogel fibers for optical-to-brain/tissue communications. <i>National Science Review</i> , 2021, 8, nwaa209.	9.5	36
131	Insight into unique deformation behavior of oriented isotactic polypropylene with branched shish-kebabs. <i>Polymer</i> , 2015, 60, 274-283.	3.8	35
132	DETERMINATION OF CRYSTALLINE LAMELLAR THICKNESS IN POLY(ETHYLENE TEREPHTHALATE) USING SMALL-ANGLE X-RAY SCATTERING AND TRANSMISSION ELECTRON MICROSCOPY*. <i>Journal of Macromolecular Science - Physics</i> , 2001, 40, 625-638.	1.0	33
133	Crystallization of Polystyrene-block-[Syndiotactic Poly(propylene)] Block Copolymers from Confinement to Breakout. <i>Macromolecular Rapid Communications</i> , 2005, 26, 107-111.	3.9	33
134	Large Scale Production of Continuous Hydrogel Fibers with Anisotropic Swelling Behavior by Dynamic Crosslinking Spinning. <i>Macromolecular Rapid Communications</i> , 2016, 37, 1795-1801.	3.9	33
135	Enhanced pervaporation performance of polyamide membrane with synergistic effect of porous nanofibrous support and trace graphene oxide lamellae. <i>Chemical Engineering Science</i> , 2019, 196, 265-276.	3.8	33
136	Competition between liquid crystallinity and block copolymer self-assembly in core-shell rod-coil block copolymers. <i>Soft Matter</i> , 2008, 4, 458-461.	2.7	32
137	Phase Behavior of Neat Triblock Copolymers and Copolymer/Homopolymer Blends Near Network Phase Windows. <i>Macromolecules</i> , 2010, 43, 9039-9048.	4.8	32
138	Time-Resolved Synchrotron X-ray Scattering Study on Propylene-1-Butylene Random Copolymer Subjected to Uniaxial Stretching at High Temperatures. <i>Macromolecules</i> , 2012, 45, 951-961.	4.8	32
139	Morphology development during isothermal crystallization. I. Isotactic and atactic polypropylene blends. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2000, 38, 2580-2590.	2.1	31
140	Title is missing!. <i>Journal of Materials Science</i> , 2001, 36, 3071-3077.	3.7	31
141	Shear-Induced Orientation and Structure Development in Isotactic Polypropylene Melt Containing Modified Carbon Nanofibers. <i>Journal of Macromolecular Science - Physics</i> , 2006, 45, 247-261.	1.0	31
142	Polypentadecalactone prepared by lipase catalysis: crystallization kinetics and morphology. <i>Polymer International</i> , 2009, 58, 944-953.	3.1	31
143	Biodegradable poly(lactic acid)/hydroxyl apatite 3D porous scaffolds using high-pressure molding and salt leaching. <i>Journal of Materials Science</i> , 2014, 49, 1648-1658.	3.7	31
144	Structure and morphology development in syndiotactic polypropylene during isothermal crystallization and subsequent melting. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2001, 39, 2982-2995.	2.1	30

#	ARTICLE	IF	CITATIONS
145	Pathway-Dependent Melting in a Low-Molecular-Weight Polyethylene-block-Poly(ethylene oxide) Diblock Copolymer. <i>Macromolecular Rapid Communications</i> , 2004, 25, 853-857.	3.9	30
146	Nano-Structural Elucidation in Carbon Black Loaded NR Vulcanizate by 3D-TEM and In Situ WAXD Measurements. <i>Rubber Chemistry and Technology</i> , 2007, 80, 251-264.	1.2	30
147	Micro-nano structure nanofibrous p-sulfonatocalix[8]arene complex membranes for highly efficient and selective adsorption of lanthanum( $\text{La}^{3+}$ ) ions in aqueous solution. <i>RSC Advances</i> , 2015, 5, 21178-21188.	3.6	30
148	Rice husk based nanocellulose scaffolds for highly efficient removal of heavy metal ions from contaminated water. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 3080-3090.	2.4	30
149	Effect of miscible polymer diluents on the development of lamellar morphology in poly(oxymethylene) blends. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1999, 37, 3115-3122.	2.1	29
150	Probing Flow-Induced Precursor Structures in Blown Polyethylene Films by Synchrotron X-rays during Constrained Melting. <i>Macromolecules</i> , 2005, 38, 5128-5136.	4.8	29
151	Ultra-strong, tough and high wear resistance high-density polyethylene for structural engineering application: A facile strategy towards using the combination of extensional dynamic oscillatory shear flow and ultra-high-molecular-weight polyethylene. <i>Composites Science and Technology</i> , 2018, 167, 301-312.	7.8	29
152	A study of $\text{TiO}_2$ nanocrystal growth and environmental remediation capability of $\text{TiO}_2/\text{CNC}$ nanocomposites. <i>RSC Advances</i> , 2019, 9, 40565-40576.	3.6	29
153	A simple inorganic hybrids strategy for graphene fibers fabrication with excellent electrochemical performance. <i>Journal of Power Sources</i> , 2020, 450, 227637.	7.8	29
154	Hierarchical Assembly of Nanocellulose into Filaments by Flow-Assisted Alignment and Interfacial Complexation: Conquering the Conflicts between Strength and Toughness. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 32090-32098.	8.0	29
155	Nanoparticle-Modified Nanofibrous Membranes as Scaffolds for Flexible Sweat Sensors. <i>ACS Sensors</i> , 2016, 1, 1060-1069.	7.8	28
156	Operation of proton exchange membrane (PEM) fuel cells using natural cellulose fiber membranes. <i>Sustainable Energy and Fuels</i> , 2019, 3, 2725-2732.	4.9	28
157	Primary Nucleation in Polymer Crystallization. <i>Macromolecular Rapid Communications</i> , 2001, 22, 611-615.	3.9	26
158	Membrane Bioreactors for Nitrogen Removal from Wastewater: A Review. <i>Journal of Environmental Engineering, ASCE</i> , 2020, 146, .	1.4	26
159	Cellulose nanofibrils and nanocrystals in confined flow: Single-particle dynamics to collective alignment revealed through scanning small-angle x-ray scattering and numerical simulations. <i>Physical Review E</i> , 2020, 101, 032610.	2.1	26
160	Nitro-oxidized carboxycellulose nanofibers from moringa plant: effective bioadsorbent for mercury removal. <i>Cellulose</i> , 2021, 28, 8611-8628.	4.9	26
161	Aligned and molecularly oriented semihollow ultrafine polymer fiber yarns by a facile method. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 1118-1125.	2.1	25
162	High-performance nanofibrous membrane for removal of $\text{Cr(VI)}$ from contaminated water. <i>Journal of Plastic Film and Sheeting</i> , 2015, 31, 379-400.	2.2	25

#	ARTICLE	IF	CITATIONS
163	Synthesis and Characterization of a High Flux Nanocellulose-Cellulose Acetate Nanocomposite Membrane. <i>Membranes</i> , 2019, 9, 70.	3.0	25
164	Molecular Structure of Aromatic Reverse Osmosis Polyamide Barrier Layers. <i>ACS Macro Letters</i> , 2019, 8, 352-356.	4.8	25
165	Heparinized thin-film composite membranes with sub-micron ridge structure for efficient hemodialysis. <i>Journal of Membrane Science</i> , 2020, 599, 117706.	8.2	25
166	Crystallization and phase behavior in nylon 6/aromatic polyimide triblock copolymers. <i>Macromolecular Chemistry and Physics</i> , 1998, 199, 1107-1118.	2.2	24
167	Structure Development during Stretching and Heating of Isotactic Propylene-1-Butylene Random Copolymer: From Unit Cells to Lamellae. <i>Macromolecules</i> , 2012, 45, 7061-7071.	4.8	24
168	Biomimetic Nanofibrillation in Two-Component Biopolymer Blends with Structural Analogs to Spider Silk. <i>Scientific Reports</i> , 2016, 6, 34572.	3.3	24
169	Super-hydrophobic polyurethane sponges for oil absorption. <i>Separation Science and Technology</i> , 2017, 52, 221-227.	2.5	24
170	Interpenetrating Nanofibrous Composite Membranes for Water Purification. <i>ACS Applied Nano Materials</i> , 2019, 2, 3606-3614.	5.0	24
171	Reinforcement of Natural Rubber Latex Using Jute Carboxycellulose Nanofibers Extracted Using Nitro-Oxidation Method. <i>Nanomaterials</i> , 2020, 10, 706.	4.1	24
172	Morphology development during isothermal crystallization. II. Isotactic and syndiotactic polypropylene blends. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2001, 39, 1876-1888.	2.1	23
173	Time-resolved crystallization study of absorbable polymers by synchrotron small-angle X-ray scattering. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2001, 39, 153-167.	2.1	23
174	Combined techniques of Raman spectroscopy and synchrotron two-dimensional x-ray diffraction for in situ study of anisotropic system: Example of polymer fibers under deformation. <i>Review of Scientific Instruments</i> , 2003, 74, 3087-3092.	1.3	22
175	Nanocomposite Film Containing Fibrous Cellulose Scaffold and Ag/TiO <sub>2</sub> Nanoparticles and Its Antibacterial Activity. <i>Polymers</i> , 2018, 10, 1052.	4.5	22
176	The role of multi-walled carbon nanotubes in shear enhanced crystallization of isotactic poly(1-butene). <i>Journal of Thermal Analysis and Calorimetry</i> , 2009, 98, 611-622.	3.6	21
177	Orientated crystallization in discontinuous aramid fiber/isotactic polypropylene composites under shear flow conditions. <i>Journal of Applied Polymer Science</i> , 2005, 98, 1113-1118.	2.6	20
178	Lamellar nanostructure in 'Somasisif'-based organoclays. <i>Clays and Clay Minerals</i> , 2007, 55, 140-150.	1.3	20
179	Morphological and property investigations of carboxylated cellulose nanofibers extracted from different biological species. <i>Cellulose</i> , 2015, 22, 3127-3135.	4.9	20
180	Fabrication of cellulose nanofiber-based ultrafiltration membranes by spray coating approach. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	2.6	20

#	ARTICLE	IF	CITATIONS
181	In situ synchrotron SAXS/WAXD studies during melt spinning of modified carbon nanofiber and isotactic polypropylene nanocomposite. <i>Colloid and Polymer Science</i> , 2004, 282, 802-809.	2.1	19
182	Morphology and Flow Behavior of Cellulose Nanofibers Dispersed in Glycols. <i>Macromolecules</i> , 2019, 52, 5499-5509.	4.8	18
183	Structural characterization of carboxyl cellulose nanofibers extracted from underutilized sources. <i>Science China Technological Sciences</i> , 2019, 62, 971-981.	4.0	18
184	Surface-Mediated Interconnections of Nanoparticles in Cellulosic Fibrous Materials toward 3D Sensors. <i>Advanced Materials</i> , 2020, 32, e2002171.	21.0	18
185	Sustainable carboxylated cellulose filters for efficient removal and recovery of lanthanum. <i>Environmental Research</i> , 2020, 188, 109685.	7.5	18
186	Modification of carbon nanotubes with fluorinated ionic liquid for improving processability of fluoro-ethylene-propylene. <i>European Polymer Journal</i> , 2017, 87, 398-405.	5.4	17
187	Ionic Cross-Linked Poly(acrylonitrile-co-acrylic acid)/Polyacrylonitrile Thin Film Nanofibrous Composite Membrane with High Ultrafiltration Performance. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 3077-3090.	3.7	17
188	High-flux anti-fouling nanofibrous composite ultrafiltration membranes containing negatively charged water channels. <i>Journal of Membrane Science</i> , 2020, 612, 118382.	8.2	17
189	Time-resolved simultaneous SAXS/WAXS studies of peek during isothermal crystallization, melting, and subsequent cooling. <i>Journal of Macromolecular Science - Physics</i> , 1998, 37, 667-682.	1.0	16
190	Phase Transitions and Honeycomb Morphology in an Incompatible Blend of Enantiomeric Polylactide Block Copolymers. <i>Macromolecules</i> , 2006, 39, 8203-8206.	4.8	16
191	Inducing Order from Disordered Copolymers: On Demand Generation of Triblock Morphologies Including Networks. <i>Macromolecules</i> , 2012, 45, 4599-4605.	4.8	16
192	A novel way to monitor the sequential destruction of parent-daughter crystals in isotactic polypropylene under uniaxial tension. <i>Journal of Materials Science</i> , 2014, 49, 3016-3024.	3.7	15
193	Decoration of Nanofibrous Paper Chemiresistors with Dendronized Nanoparticles toward Structurally Tunable Negative-Going Response Characteristics to Human Breathing and Sweating. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700380.	3.7	15
194	Enhancing Dehydration Performance of Isopropanol by Introducing Intermediate Layer into Sodium Alginate Nanofibrous Composite Pervaporation Membrane. <i>Advanced Fiber Materials</i> , 2019, 1, 137-151.	16.1	15
195	DEPENDENCE OF THE ONSET OF STRAIN-INDUCED CRYSTALLIZATION OF NATURAL RUBBER AND ITS SYNTHETIC ANALOGUE ON CROSSLINK AND ENTANGLEMENT BY USING SYNCHROTRON X-RAY. <i>Rubber Chemistry and Technology</i> , 2017, 90, 728-742.	1.2	14
196	An unusual promotion of $\beta^3$ -crystals in metallocene-made isotactic polypropylene from orientational relaxation and favorable temperature window induced by shear. <i>Polymer</i> , 2018, 134, 196-203.	3.8	14
197	Influences of tacticity and molecular weight on crystallization kinetic and crystal morphology under isothermal crystallization: Evidence of tapering in lamellar width. <i>Polymer</i> , 2019, 172, 41-51.	3.8	14
198	Crystal structure changes during isothermal crystallization, cooling and heating of linear polyethylene. <i>Journal of Polymer Research</i> , 1999, 6, 167-173.	2.4	13

#	ARTICLE	IF	CITATIONS
199	Sequence distribution and elastic properties of propylene-based elastomers. <i>Polymer</i> , 2017, 111, 115-122.	3.8	13
200	The influence of short chain branch on formation of shear induced crystals in bimodal polyethylene at high shear temperatures. <i>European Polymer Journal</i> , 2018, 105, 359-369.	5.4	13
201	Electrospun Nanofibrous Membranes for Desalination. , 2019, , 81-104.		13
202	Morphological Changes During Crystallization and Melting of Polyoxymethylene Studied by Synchrotron X-Ray Scattering and Modulated Differential Scanning Calorimetry. <i>Journal of Macromolecular Science - Physics</i> , 2000, 39, 519-543.	1.0	12
203	A Synchrotron WAXD Study on the Early Stages of Coagulation during PBO Fiber Spinning. <i>Macromolecules</i> , 2002, 35, 9851-9853.	4.8	12
204	Uniaxial Deformation of Nylon 6â€“Clay Nanocomposites by In-Situ Synchrotron X-Ray Measurements. <i>Journal of Macromolecular Science - Physics</i> , 2003, 42, 201-214.	1.0	12
205	Development of Multiple-Jet Electrospinning Technology. <i>ACS Symposium Series</i> , 2006, , 91-105.	0.5	12
206	Structure Evolution upon Uniaxial Drawing Skinâ€“and Coreâ€“Layers of Injectionâ€“Molded Isotactic Polypropylene by <i>In Situ</i> Synchrotron Xâ€“ray Scattering. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013, 51, 1618-1631.	2.1	12
207	Complexation of DNA with cationic surfactants as studied by small-angle X-ray scattering. <i>Science China Chemistry</i> , 2014, 57, 1738-1745.	8.2	12
208	A Criterion for Flowâ€“Induced Oriented Crystals in Isotactic Polypropylene under Pressure. <i>Macromolecular Rapid Communications</i> , 2017, 38, 1700407.	3.9	12
209	The influence of short chain branch on formation of shishâ€“kebab crystals in bimodal polyethylene under shear at high temperatures. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2018, 56, 786-794.	2.1	12
210	Hair test results at the advanced polymers beamline (X27C) at the NSLS. <i>Synchrotron Radiation News</i> , 1999, 12, 36-36.	0.8	11
211	Crystallization behavior of isotactic propyleneâ€“1-hexene random copolymer revealed by timeâ€“resolved SAXS/WAXD techniques. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 26-32.	2.1	11
212	Nanocellulose Extracted from Defoliation of Ginkgo Leaves. <i>MRS Advances</i> , 2018, 3, 2077-2088.	0.9	11
213	Nitro-oxidized carboxylated cellulose nanofiber based nanopapers and their PEM fuel cell performance. <i>Sustainable Energy and Fuels</i> , 2022, 6, 3669-3680.	4.9	11
214	Structural and Morphological Inhomogeneity of Short-Chain Branched Polyethylenes in Multiple-Step Crystallization. <i>Journal of Macromolecular Science - Physics</i> , 2000, 39, 317-331.	1.0	10
215	Polymeric nanofibrous composite membranes for energy efficient ethanol dehydration. <i>Journal of Renewable and Sustainable Energy</i> , 2012, 4, .	2.0	10
216	Microstructure and mechanical properties of isotactic polypropylene composite with twoâ€“scale reinforcement. <i>Polymers for Advanced Technologies</i> , 2012, 23, 1580-1589.	3.2	10

#	ARTICLE	IF	CITATIONS
217	Current Advances on Nanofiber Membranes for Water Purification Applications. , 2018, , 25-46.		10
218	Ultraporous poly(lactic acid) scaffolds with improved mechanical performance using high-pressure molding and salt leaching. Journal of Applied Polymer Science, 2013, 130, 3509-3520.	2.6	9
219	The influence of short chain branch on formation of shear-induced crystals in bimodal polyethylene at low shear temperatures. Polymer, 2019, 179, 121625.	3.8	9
220	Ordering kinetics of body-centered-cubic morphology in diblock copolymer solutions at low temperatures. Journal of Rheology, 2004, 48, 1389-1405.	2.6	8
221	Functionalized bioadsorbents for removal of perfluoroalkyl substances: A perspective. AWWA Water Science, 2021, 3, .	2.1	8
222	Crystallization study of poly(ether ether ketone)/poly(ether imide) blends by real-time small-angle x-ray scattering. Journal of Macromolecular Science - Physics, 1998, 37, 365-374.	1.0	7
223	Determination of Poly(4,4'-diphenylsulfonyl terephthalamide) Crystalline Structure Via WAXD and Molecular Simulations. Macromolecular Chemistry and Physics, 2013, 214, 2432-2438.	2.2	7
224	Sulfonylcalix[4]arene functionalized nanofiber membranes for effective removal and selective fluorescence recognition of terbium(III) ions. New Journal of Chemistry, 2018, 42, 6191-6202.	2.8	7
225	Temperature rising elution fractionation and fraction compositional analysis of Polybutene-1/Polypropylene in-reactor alloys. Materials Today Communications, 2020, 23, 100868.	1.9	7
226	Remediation of UO <sub>2</sub> from Water by Nitro-Oxidized Carboxycellulose Nanofibers: Performance and Mechanism. ACS Symposium Series, 2020, , 269-283.	0.5	7
227	Electrospun Nanofibrous Adsorption Membranes for Wastewater Treatment: Mechanical Strength Enhancement. Chemical Research in Chinese Universities, 2021, 37, 355-365.	2.6	7
228	Morphology and mechanical properties of heterophasic PP/EP/EVA/organoclay nanocomposites. Journal of Applied Polymer Science, 2013, 128, 3473-3479.	2.6	6
229	Nanoparticle Based Printed Sensors on Paper for Detecting Chemical Species. , 2017, , .		6
230	Synthesis and characterization of poly(ethylene oxide)/polylactide/polylysine triarm star copolymers for gene delivery. Journal of Polymer Science Part A, 2018, 56, 635-644.	2.3	6
231	Shear induced crystallization of bimodal and unimodal high density polyethylene. Polymer, 2018, 153, 223-231.	3.8	6
232	In situ synchrotron X-ray scattering studies on the temperature dependence of oriented $\beta^2$ -crystal growth in isotactic polypropylene. Polymer Testing, 2020, 90, 106660.	4.8	6
233	Shear-free mixing to achieve accurate temporospatial nanoscale kinetics through scanning-SAXS: ion-induced phase transition of dispersed cellulose nanocrystals. Lab on A Chip, 2021, 21, 1084-1095.	6.0	6
234	Nano-Filamented Textile Sensor Platform with High Structure Sensitivity. ACS Applied Materials & Interfaces, 2022, 14, 15391-15400.	8.0	6

#	ARTICLE	IF	CITATIONS
235	Real-Time Crystallization and Melting Study of Ethylene-Based Copolymers by SAXS, WAXD, and DSC Techniques. ACS Symposium Series, 1999, , 187-200.	0.5	5
236	Isothermal Thickening and Thinning Processes in Low Molecular Weight Poly(ethylene oxide) Fractions Crystallized from the Melt. ACS Symposium Series, 1999, , 118-139.	0.5	5
237	Shear Enhanced Crystallization and Tensile Behaviors of Oscillation Shear Injection Molded Poly(ethylene terephthalate). Journal of Macromolecular Science - Physics, 2010, 50, 383-397.	1.0	5
238	Development of internal fine structure in stretched rubber vulcanizates. Journal of Polymer Science, Part B: Polymer Physics, 2011, 49, 1157-1162.	2.1	5
239	High-pressure crystallization of poly(lactic acid) with and without N2 atmosphere protection. Journal of Materials Science, 2013, 48, 7374-7383.	3.7	5
240	The supramolecular structure of bone: X-ray scattering analysis and lateral structure modeling. Acta Crystallographica Section D: Structural Biology, 2016, 72, 986-996.	2.3	5
241	Comprehensive study on temperature-induced crystallisation and strain-induced crystallisation behaviours of natural rubber/isoprene rubber blends. Plastics, Rubber and Composites, 2017, 46, 290-300.	2.0	5
242	Sequential Oxidation on Wood and Its Application in Pb <sup>2+</sup> Removal from Contaminated Water. Polysaccharides, 2021, 2, 245-256.	4.8	5
243	Understanding ion-induced assembly of cellulose nanofibrillar gels through shear-free mixing and in situ scanning-SAXS. Nanoscale Advances, 2021, 3, 4940-4951.	4.6	5
244	Study the Use of Activated Carbon and Bone Char on the Performance of Gravity Sand-Bag Water Filter. Membranes, 2021, 11, 868.	3.0	5
245	Anomalous rheology in a nanostructured diblock copolymer/hydrocarbon system and its kinetic origin. Journal of Polymer Science, Part B: Polymer Physics, 2004, 42, 1496-1505.	2.1	4
246	Deformation X-ray study of propylene-based elastomers with controlled sequence distributions. Polymer, 2017, 122, 208-221.	3.8	4
247	Colorful nanofibrous composite membranes by two-nozzle electrospinning. Materials Today Communications, 2019, 21, 100643.	1.9	4
248	Cellulose-Supported Nanosized Zinc Oxide: Highly Efficient Bionanomaterial for Removal of Arsenic from Water. ACS Symposium Series, 2020, , 253-267.	0.5	4
249	The Influence of Ethyl Branch on Formation of Shish-Kebab Crystals in Bimodal Polyethylene under Shear at Low Temperature. Chinese Journal of Polymer Science (English Edition), 2021, 39, 1050-1058.	3.8	4
250	Time-resolved structural studies in fiber processing. Macromolecular Symposia, 2003, 195, 297-302.	0.7	3
251	Epitaxial Phase Transformation between Cylindrical and Double Gyroid Mesophases. Materials Research Society Symposia Proceedings, 2004, 856, BB2.3.1.	0.1	1
252	Continuous Production of Hollow Hydrogel Fibers with Graphene Inner Wall. Materials Science Forum, 0, 898, 2197-2204.	0.3	1

#	ARTICLE	IF	CITATIONS
253	A thirst for advancement. Nature Materials, 2018, 17, 213-215.	27.5	1
254	Effect of Sorbitol Templates on the Preferential Crystallographic Growth of Isotactic Polypropylene Wax. Crystals, 2018, 8, 59.	2.2	1
255	Effect of miscible polymer diluents on the development of lamellar morphology in poly(oxymethylene) blends. Journal of Polymer Science, Part B: Polymer Physics, 1999, 37, 3115-3122.	2.1	1
256	Lamellar crystal-dominated surfaces of polymer films achieved <i>via</i> melt stretching-induced free surface crystallization. Soft Matter, 2021, 17, 10829-10838.	2.7	1
257	Meeting Report: Soft Matter and Biomolecular Materials: X-ray Scattering Enabled by High Brightness Beamlines. Synchrotron Radiation News, 2006, 19, 43-44.	0.8	0
258	Structure, Morphology, and Mechanical Properties of Polyolefin-Based Elastomers. , 0, , 198-223.		0
259	Cellulose Nanofibers: Elucidating the Opportunities and Challenges for Nanocellulose Spinning (Adv.) Tj ETQq1 1 0.784314 rgBT /Ove 21.0 0	0.1	0
260	Static and Dynamic Light Scattering. World Scientific Series in Nanoscience and Nanotechnology, 2019, , 335-374.	0.1	0
261	Plant-derived carboxycellulose: Highly efficient bionanomaterials for removal of toxic lead from contaminated water. Separation Science and Technology, 2022, , 87-95.	0.2	0
262	Nitro-oxidation process for fabrication of efficient bioadsorbent from lignocellulosic biomass by combined liquid-gas phase treatment. Carbohydrate Polymer Technologies and Applications, 2022, 3, 100219.	2.6	0