

Benjamin S Hsiao

List of Publications by Year in descending order

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468
papers

37,958
citations

1612

105
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477
all docs

477
docs citations

477
times ranked

24382
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure and process relationship of electrospun bioabsorbable nanofiber membranes. <i>Polymer</i> , 2002, 43, 4403-4412.	1.8	1,671
2	Functional electrospun nanofibrous scaffolds for biomedical applications. <i>Advanced Drug Delivery Reviews</i> , 2007, 59, 1392-1412.	6.6	861
3	Incorporation and controlled release of a hydrophilic antibiotic using poly(lactide-co-glycolide)-based electrospun nanofibrous scaffolds. <i>Journal of Controlled Release</i> , 2004, 98, 47-56.	4.8	707
4	Electrospun fine-textured scaffolds for heart tissue constructs. <i>Biomaterials</i> , 2005, 26, 5330-5338.	5.7	597
5	NANOFIBROUS MATERIALS AND THEIR APPLICATIONS. <i>Annual Review of Materials Research</i> , 2006, 36, 333-368.	4.3	573
6	Control of degradation rate and hydrophilicity in electrospun non-woven poly(D,L-lactide) nanofiber scaffolds for biomedical applications. <i>Biomaterials</i> , 2003, 24, 4977-4985.	5.7	524
7	High flux ultrafiltration membranes based on electrospun nanofibrous PAN scaffolds and chitosan coating. <i>Polymer</i> , 2006, 47, 2434-2441.	1.8	503
8	Structure Development during Shear Flow-Induced Crystallization of i-PP: In-Situ Small-Angle X-ray Scattering Study. <i>Macromolecules</i> , 2000, 33, 9385-9394.	2.2	465
9	Flow-induced shish-kebab precursor structures in entangled polymer melts. <i>Polymer</i> , 2005, 46, 8587-8623.	1.8	427
10	Functional nanofibers for environmental applications. <i>Journal of Materials Chemistry</i> , 2008, 18, 5326.	6.7	388
11	Crystallization Temperature-Dependent Crystal Orientations within Nanoscale Confined Lamellae of a Self-Assembled Crystalline/Amorphous Diblock Copolymer. <i>Journal of the American Chemical Society</i> , 2000, 122, 5957-5967.	6.6	387
12	Structure Development during Shear Flow Induced Crystallization of i-PP: In Situ Wide-Angle X-ray Diffraction Study. <i>Macromolecules</i> , 2001, 34, 5902-5909.	2.2	385
13	Antithrombogenic property of bone marrow mesenchymal stem cells in nanofibrous vascular grafts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 11915-11920.	3.3	360
14	Small-Angle X-ray Scattering of Polymers. <i>Chemical Reviews</i> , 2001, 101, 1727-1762.	23.0	348
15	High Flux Filtration Medium Based on Nanofibrous Substrate with Hydrophilic Nanocomposite Coating. <i>Environmental Science & Technology</i> , 2005, 39, 7684-7691.	4.6	348
16	Bioactive Nanofibers: Synergistic Effects of Nanotopography and Chemical Signaling on Cell Guidance. <i>Nano Letters</i> , 2007, 7, 2122-2128.	4.5	339
17	Isothermal Crystallization of Poly(L-lactide) Induced by Graphene Nanosheets and Carbon Nanotubes: A Comparative Study. <i>Macromolecules</i> , 2010, 43, 5000-5008.	2.2	308
18	Electro-Spinning and Electro-Blowing of Hyaluronic Acid. <i>Biomacromolecules</i> , 2004, 5, 1428-1436.	2.6	300

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19	Myotube Assembly on Nanofibrous and Micropatterned Polymers. <i>Nano Letters</i> , 2006, 6, 537-542.	4.5	293
20	Orientation and Crystallization of Natural Rubber Network As Revealed by WAXD Using Synchrotron Radiation. <i>Macromolecules</i> , 2004, 37, 3299-3309.	2.2	273
21	Polymeric nanostructured materials for biomedical applications. <i>Progress in Polymer Science</i> , 2016, 60, 86-128.	11.8	257
22	Unexpected Shish-Kebab Structure in a Sheared Polyethylene Melt. <i>Physical Review Letters</i> , 2005, 94, 117802.	2.9	254
23	Optimization and Characterization of Dextran Membranes Prepared by Electrospinning. <i>Biomacromolecules</i> , 2004, 5, 326-333.	2.6	253
24	Electrospun nanofibrous membranes for high flux microfiltration. <i>Journal of Membrane Science</i> , 2012, 392-393, 167-174.	4.1	253
25	Effects of organoclays on morphology and thermal and rheological properties of polystyrene and poly(methyl methacrylate) blends. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2003, 41, 44-54.	2.4	250
26	Ultra-fine cellulose nanofibers: new nano-scale materials for water purification. <i>Journal of Materials Chemistry</i> , 2011, 21, 7507.	6.7	250
27	Micro-nano structure poly(ether sulfones)/poly(ethyleneimine) nanofibrous affinity membranes for adsorption of anionic dyes and heavy metal ions in aqueous solution. <i>Chemical Engineering Journal</i> , 2012, 197, 88-100.	6.6	250
28	Structure and Morphology Changes during in Vitro Degradation of Electrospun Poly(glycolide-co-lactide) Nanofiber Membrane. <i>Biomacromolecules</i> , 2003, 4, 416-423.	2.6	248
29	New Insights into Structural Development in Natural Rubber during Uniaxial Deformation by In Situ Synchrotron X-ray Diffraction. <i>Macromolecules</i> , 2002, 35, 6578-6584.	2.2	242
30	High flux nanofiltration membranes based on interfacially polymerized polyamide barrier layer on polyacrylonitrile nanofibrous scaffolds. <i>Journal of Membrane Science</i> , 2009, 326, 484-492.	4.1	237
31	In-Situ Studies of Structure Development during Deformation of a Segmented Poly(urethane-urea) Elastomer. <i>Macromolecules</i> , 2003, 36, 1940-1954.	2.2	236
32	Temperature dependence of polymer crystalline morphology in nylon 6/montmorillonite nanocomposites. <i>Polymer</i> , 2001, 42, 09975-09985.	1.8	234
33	High performance ultrafiltration composite membranes based on poly(vinyl alcohol) hydrogel coating on crosslinked nanofibrous poly(vinyl alcohol) scaffold. <i>Journal of Membrane Science</i> , 2006, 278, 261-268.	4.1	225
34	Mineralization of hydroxyapatite in electrospun nanofibrous poly(L-lactic acid) scaffolds. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 79A, 307-317.	2.1	220
35	Shear-Induced Precursor Structures in Isotactic Polypropylene Melt by in-Situ Rheo-SAXS and Rheo-WAXD Studies. <i>Macromolecules</i> , 2002, 35, 9096-9104.	2.2	219
36	Shear-Enhanced Crystallization in Isotactic Polypropylene. 3. Evidence for a Kinetic Pathway to Nucleation. <i>Macromolecules</i> , 2002, 35, 1762-1769.	2.2	217

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37	Nanofibrous microfiltration membranes capable of removing bacteria, viruses and heavy metal ions. <i>Journal of Membrane Science</i> , 2013, 446, 376-382.	4.1	215
38	Ultrafine Polysaccharide Nanofibrous Membranes for Water Purification. <i>Biomacromolecules</i> , 2011, 12, 970-976.	2.6	212
39	Thiol-modified cellulose nanofibrous composite membranes for chromium (VI) and lead (II) adsorption. <i>Polymer</i> , 2014, 55, 1167-1176.	1.8	211
40	Control of structure, morphology and property in electrospun poly(glycolide-co-lactide) non-woven membranes via post-draw treatments. <i>Polymer</i> , 2003, 44, 4959-4967.	1.8	207
41	Nanofibrous Microfiltration Membrane Based on Cellulose Nanowhiskers. <i>Biomacromolecules</i> , 2012, 13, 180-186.	2.6	201
42	Electrospun nanofiber membranes. <i>Current Opinion in Chemical Engineering</i> , 2016, 12, 62-81.	3.8	200
43	Shear-Induced Crystallization Precursor Studies in Model Polyethylene Blends by in-Situ Rheo-SAXS and Rheo-WAXD. <i>Macromolecules</i> , 2004, 37, 4845-4859.	2.2	197
44	Ultrafine Cellulose Nanofibers as Efficient Adsorbents for Removal of UO ₂ ²⁺ in Water. <i>ACS Macro Letters</i> , 2012, 1, 213-216.	2.3	187
45	Nanoscale reinforcement of polyhedral oligomeric silsesquioxane (POSS) in polyurethane elastomer. <i>Polymer International</i> , 2000, 49, 437-440.	1.6	182
46	Hard and soft confinement effects on polymer crystallization in microphase separated cylinder-forming PEO-b-PS/PS blends. <i>Polymer</i> , 2001, 42, 9121-9131.	1.8	179
47	Shear-Induced Molecular Orientation and Crystallization in Isotactic Polypropylene: Effects of the Deformation Rate and Strain. <i>Macromolecules</i> , 2005, 38, 1244-1255.	2.2	179
48	Prevention of Postsurgery-Induced Abdominal Adhesions by Electrospun Bioabsorbable Nanofibrous Poly(lactide-co-glycolide)-Based Membranes. <i>Annals of Surgery</i> , 2004, 240, 910-915.	2.1	178
49	The role of interlamellar chain entanglement in deformation-induced structure changes during uniaxial stretching of isotactic polypropylene. <i>Polymer</i> , 2007, 48, 6867-6880.	1.8	173
50	Structure, crystallization and morphology of poly (aryl ether ketone ketone). <i>Polymer</i> , 1992, 33, 2483-2495.	1.8	172
51	Structural and Morphological Studies of Isotactic Polypropylene Fibers during Heat/Draw Deformation by in-Situ Synchrotron SAXS/WAXD. <i>Macromolecules</i> , 2001, 34, 2569-2578.	2.2	172
52	Improved barrier properties of poly(lactic acid) with randomly dispersed graphene oxide nanosheets. <i>Journal of Membrane Science</i> , 2014, 464, 110-118.	4.1	170
53	Formation and Stability of Shear-Induced Shish-Kebab Structure in Highly Entangled Melts of UHMWPE/HDPE Blends. <i>Macromolecules</i> , 2008, 41, 4766-4776.	2.2	162
54	Crystal Orientation Changes in Two-Dimensionally Confined Nanocylinders in a Poly(ethylene) Tj ETQq0 0 0 rgBT /Oygrlock 10 Tf 50 62 T	2.2	160

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55	Physical gelation in ethylene- α -propylene copolymer melts induced by polyhedral oligomeric silsesquioxane (POSS) molecules. <i>Polymer</i> , 2003, 44, 1499-1506.	1.8	160
56	Graphene Nanosheets and Shear Flow Induced Crystallization in Isotactic Polypropylene Nanocomposites. <i>Macromolecules</i> , 2011, 44, 2808-2818.	2.2	160
57	Time-resolved X-ray study of poly(aryl ether ether ketone) crystallization and melting behaviour: 1. Crystallization. <i>Polymer</i> , 1993, 34, 3986-3995.	1.8	157
58	Formation of functional polyethersulfone electrospun membrane for water purification by mixed solvent and oxidation processes. <i>Polymer</i> , 2009, 50, 2893-2899.	1.8	156
59	Probing the Early Stages of Melt Crystallization in Polypropylene by Simultaneous Small- and Wide-Angle X-ray Scattering and Laser Light Scattering. <i>Macromolecules</i> , 2000, 33, 978-989.	2.2	154
60	Highly Permeable Polymer Membranes Containing Directed Channels for Water Purification. <i>ACS Macro Letters</i> , 2012, 1, 723-726.	2.3	154
61	Initial-Stage Growth Controlled Crystal Orientations in Nanoconfined Lamellae of a Self-Assembled Crystalline- α -Amorphous Diblock Copolymer. <i>Macromolecules</i> , 2001, 34, 1244-1251.	2.2	152
62	Effective chromium removal from water by polyaniline-coated electrospun adsorbent membrane. <i>Chemical Engineering Journal</i> , 2019, 372, 341-351.	6.6	151
63	Continuous polymer nanofiber yarns prepared by self-bundling electrospinning method. <i>Polymer</i> , 2008, 49, 2755-2761.	1.8	150
64	Fabrication and characterization of cellulose nanofiber based thin-film nanofibrous composite membranes. <i>Journal of Membrane Science</i> , 2014, 454, 272-282.	4.1	150
65	Unprecedented Access to Strong and Ductile Poly(lactic acid) by Introducing In Situ Nanofibrillar Poly(butylene succinate) for Green Packaging. <i>Biomacromolecules</i> , 2014, 15, 4054-4064.	2.6	149
66	Effect of Nanoclay on Natural Rubber Microstructure. <i>Macromolecules</i> , 2008, 41, 6763-6772.	2.2	144
67	Functionalized electrospun nanofibrous microfiltration membranes for removal of bacteria and viruses. <i>Journal of Membrane Science</i> , 2014, 452, 446-452.	4.1	142
68	Shear-Induced Crystallization in Novel Long Chain Branched Polypropylenes by in Situ Rheo-SAXS and -WAXD. <i>Macromolecules</i> , 2003, 36, 5226-5235.	2.2	141
69	Dual-Biomimetic Superhydrophobic Electrospun Polystyrene Nanofibrous Membranes for Membrane Distillation. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 2423-2430.	4.0	141
70	Mechanism of strain-induced crystallization in filled and unfilled natural rubber vulcanizates. <i>Journal of Applied Physics</i> , 2005, 97, 103529.	1.1	140
71	Low-dimensional carbonaceous nanofiller induced polymer crystallization. <i>Progress in Polymer Science</i> , 2014, 39, 555-593.	11.8	140
72	Phase transformation in quenched mesomorphic isotactic polypropylene. <i>Polymer</i> , 2001, 42, 7561-7566.	1.8	138

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73	High flux ultrafiltration nanofibrous membranes based on polyacrylonitrile electrospun scaffolds and crosslinked polyvinyl alcohol coating. <i>Journal of Membrane Science</i> , 2009, 338, 145-152.	4.1	138
74	Nanocellulose from Spinifex as an Effective Adsorbent to Remove Cadmium(II) from Water. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 3279-3290.	3.2	138
75	Formation of water-resistant hyaluronic acid nanofibers by blowing-assisted electro-spinning and non-toxic post treatments. <i>Polymer</i> , 2005, 46, 4853-4867.	1.8	136
76	Crystallization studies of isotactic polypropylene containing nanostructured polyhedral oligomeric silsesquioxane molecules under quiescent and shear conditions. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2001, 39, 2727-2739.	2.4	135
77	Electrospinning of Hyaluronic Acid (HA) and HA/Gelatin Blends. <i>Macromolecular Rapid Communications</i> , 2006, 27, 114-120.	2.0	134
78	Shear-Enhanced Crystallization in Isotactic Polypropylene. In-Situ Synchrotron SAXS and WAXD. <i>Macromolecules</i> , 2004, 37, 9005-9017.	2.2	132
79	Entanglements and Networks to Strain-Induced Crystallization and Stress-Strain Relations in Natural Rubber and Synthetic Polyisoprene at Various Temperatures. <i>Macromolecules</i> , 2013, 46, 5238-5248.	2.2	132
80	Mesophase as the Precursor for Strain-Induced Crystallization in Amorphous Poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 To	2.2	131
81	Confinement Size Effect on Crystal Orientation Changes of Poly(ethylene oxide) Blocks in Poly(ethylene oxide)-b-polystyrene Diblock Copolymers. <i>Macromolecules</i> , 2004, 37, 3689-3698.	2.2	130
82	Structure and Morphology Changes in Absorbable Poly(glycolide) and Poly(glycolide-co-lactide) during in Vitro Degradation. <i>Macromolecules</i> , 1999, 32, 8107-8114.	2.2	128
83	Competitive Growth of $\hat{1}\pm$ - and $\hat{1}^2$ -Crystals in $\hat{1}^2$ -Nucleated Isotactic Polypropylene under Shear Flow. <i>Macromolecules</i> , 2010, 43, 6760-6771.	2.2	128
84	Formation of Shish-Kebabs in Injection-Molded Poly($\langle\text{sc}\rangle\langle\text{sc}\rangle$ -lactic acid) by Application of an Intense Flow Field. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 6774-6784.	4.0	128
85	High-flux microfiltration filters based on electrospun polyvinylalcohol nanofibrous membranes. <i>Polymer</i> , 2013, 54, 548-556.	1.8	128
86	Self-assembly and crystallization behavior of a double-crystalline polyethylene-block-poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 127 To	1.8	127
87	Patterning Polyethylene Oligomers on Carbon Nanotubes Using Physical Vapor Deposition. <i>Nano Letters</i> , 2006, 6, 1007-1012.	4.5	126
88	Block Copolymers with a Twist. <i>Journal of the American Chemical Society</i> , 2009, 131, 18533-18542.	6.6	126
89	Phase structures and morphologies determined by competitions among self-organization, crystallization, and vitrification in a disordered poly(ethylene oxide)-b-polystyrene diblock copolymer. <i>Physical Review B</i> , 1999, 60, 10022-10031.	1.1	125
90	High-flux thin-film nanofibrous composite ultrafiltration membranes containing cellulose barrier layer. <i>Journal of Materials Chemistry</i> , 2010, 20, 4692.	6.7	125

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91	In-Situ Simultaneous Synchrotron Small- and Wide-Angle X-ray Scattering Measurement of Poly(vinylidene fluoride) Fibers under Deformation. <i>Macromolecules</i> , 2000, 33, 1765-1777.	2.2	124
92	Perforated Layer Structures in Liquid Crystalline Rod-Coil Block Copolymers. <i>Journal of the American Chemical Society</i> , 2005, 127, 15481-15490.	6.6	124
93	A Simple Approach to Prepare Carboxycellulose Nanofibers from Untreated Biomass. <i>Biomacromolecules</i> , 2017, 18, 2333-2342.	2.6	124
94	Structure Study of Cellulose Fibers Wet-Spun from Environmentally Friendly NaOH/Urea Aqueous Solutions. <i>Biomacromolecules</i> , 2007, 8, 1918-1926.	2.6	121
95	Molecular orientation and structural development in vulcanized polyisoprene rubbers during uniaxial deformation by in situ synchrotron X-ray diffraction. <i>Polymer</i> , 2003, 44, 6003-6011.	1.8	120
96	Nanocellulose-Enabled Membranes for Water Purification: Perspectives. <i>Advanced Sustainable Systems</i> , 2020, 4, 1900114.	2.7	118
97	Electrospun polystyrene nanofibrous membranes for direct contact membrane distillation. <i>Journal of Membrane Science</i> , 2016, 515, 86-97.	4.1	114
98	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.	1.2	112
99	Deformation-Induced Phase Transition and Superstructure Formation in Poly(ethylene terephthalate). <i>Macromolecules</i> , 2005, 38, 91-103.	2.2	111
100	Development of hydrophilic barrier layer on nanofibrous substrate as composite membrane via a facile route. <i>Journal of Membrane Science</i> , 2010, 356, 110-116.	4.1	111
101	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.	4.1	111
102	Glass transition, crystallization, and morphology relationships in miscible poly(aryl ether ketones) and poly(ether imide) blends. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1993, 31, 901-915.	2.4	110
103	Time-resolved X-ray study of poly(aryl ether ether ketone) crystallization and melting behaviour: 2. Melting. <i>Polymer</i> , 1993, 34, 3996-4003.	1.8	110
104	Nanofiltration membranes prepared by interfacial polymerization on thin-film nanofibrous composite scaffold. <i>Polymer</i> , 2014, 55, 1358-1366.	1.8	109
105	Precursors of primary nucleation induced by flow in isotactic polypropylene. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002, 304, 145-157.	1.2	107
106	X-ray studies of regenerated cellulose fibers wet spun from cotton linter pulp in NaOH/thiourea aqueous solutions. <i>Polymer</i> , 2006, 47, 2839-2848.	1.8	107
107	New insights into the relationship between network structure and strain-induced crystallization in un-vulcanized and vulcanized natural rubber by synchrotron X-ray diffraction. <i>Polymer</i> , 2009, 50, 2142-2148.	1.8	107
108	Nanofibrous polydopamine complex membranes for adsorption of Lanthanum (III) ions. <i>Chemical Engineering Journal</i> , 2014, 244, 307-316.	6.6	106

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109	Time-resolved shear behavior of end-tethered Nylon 6â€‘clay nanocomposites followed by non-isothermal crystallization. <i>Polymer</i> , 2001, 42, 9015-9023.	1.8	105
110	Nature of Strain-Induced Structures in Natural and Synthetic Rubbers under Stretching. <i>Macromolecules</i> , 2003, 36, 5915-5917.	2.2	104
111	In vitro non-viral gene delivery with nanofibrous scaffolds. <i>Nucleic Acids Research</i> , 2005, 33, e170-e170.	6.5	102
112	Thermal Stability of Shear-Induced Shish-Kebab Precursor Structure from High Molecular Weight Polyethylene Chains. <i>Macromolecules</i> , 2006, 39, 2209-2218.	2.2	102
113	Super-Robust Polylactide Barrier Films by Building Densely Oriented Lamellae Incorporated with Ductile in Situ Nanofibrils of Poly(butylene adipate- <i>co</i> -terephthalate). <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 8096-8109.	4.0	102
114	Crystallization-Induced Undulated Morphology in Polystyrene- <i>b</i> -Poly(L-lactide) Block Copolymer. <i>Macromolecules</i> , 2004, 37, 5985-5994.	2.2	99
115	Debranching and crystallization of waxy maize starch in relation to enzyme digestibility. <i>Carbohydrate Polymers</i> , 2010, 81, 385-393.	5.1	99
116	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.	4.1	98
117	Hierarchical Assembly of a Series of Rod-Coil Block Copolymers: A Supramolecular LC Phase in Nanoenvironment. <i>Macromolecules</i> , 2004, 37, 2854-2860.	2.2	97
118	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.	2.2	96
119	Crystallization and Stress Relaxation in Highly Stretched Samples of Natural Rubber and Its Synthetic Analogue. <i>Macromolecules</i> , 2006, 39, 5100-5105.	2.2	95
120	Shear Flow and Carbon Nanotubes Synergistically Induced Nonisothermal Crystallization of Poly(lactic acid) and Its Application in Injection Molding. <i>Biomacromolecules</i> , 2012, 13, 3858-3867.	2.6	95
121	Strain-induced crystallization and mechanical properties of functionalized graphene sheet-filled natural rubber. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012, 50, 718-723.	2.4	94
122	Poly(ethyleneimine) nanofibrous affinity membrane fabricated via one step wet-electrospinning from poly(vinyl alcohol)-doped poly(ethyleneimine) solution system and its application. <i>Journal of Membrane Science</i> , 2011, 379, 191-199.	4.1	93
123	Efficient Removal of Arsenic Using Zinc Oxide Nanocrystal-Decorated Regenerated Microfibrillated Cellulose Scaffolds. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 6140-6151.	3.2	93
124	Understanding the Mechanistic Behavior of Highly Charged Cellulose Nanofibers in Aqueous Systems. <i>Macromolecules</i> , 2018, 51, 1498-1506.	2.2	92
125	UV-cured poly(vinyl alcohol) ultrafiltration nanofibrous membrane based on electrospun nanofiber scaffolds. <i>Journal of Membrane Science</i> , 2009, 328, 1-5.	4.1	91
126	Nanotailored Crystalline Morphology in Hexagonally Perforated Layers of a Self-Assembled PS- <i>b</i> -PEO Diblock Copolymer. <i>Macromolecules</i> , 2002, 35, 3553-3562.	2.2	90

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127	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
128	Effect of Network-Chain Length on Strain-Induced Crystallization of NR and IR Vulcanizates. <i>Rubber Chemistry and Technology</i> , 2004, 77, 711-723.	0.6	89
129	Effects of high molecular weight species on shear-induced orientation and crystallization of isotactic polypropylene. <i>Polymer</i> , 2006, 47, 5657-5668.	1.8	89
130	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.	2.2	89
131	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.	3.2	89
132	Strain-Induced Crystallization of Natural Rubber: Effect of Proteins and Phospholipids. <i>Rubber Chemistry and Technology</i> , 2008, 81, 753-766.	0.6	88
133	Highly efficient and sustainable carboxylated cellulose filters for removal of cationic dyes/heavy metals ions. <i>Chemical Engineering Journal</i> , 2020, 389, 123458.	6.6	88
134	Comparison of poly(ethylene oxide) crystal orientations and crystallization behaviors in nano-confined cylinders constructed by a poly(ethylene oxide)-b-polystyrene diblock copolymer and a blend of poly(ethylene oxide)-b-polystyrene and polystyrene. <i>Polymer</i> , 2006, 47, 5457-5466.	1.8	87
135	Enhanced Mechanical Performance of Self-Bundled Electrospun Fiber Yarns via Post-Treatments. <i>Macromolecular Rapid Communications</i> , 2008, 29, 826-831.	2.0	87
136	Isothermal thickening and thinning processes in low-molecular-weight poly(ethylene oxide) fractions crystallized from the melt. 4. End-group dependence. <i>Macromolecules</i> , 1993, 26, 5105-5117.	2.2	85
137	Probing the Nature of Strain-Induced Crystallization in Polyisoprene Rubber by Combined Thermomechanical and In Situ X-ray Diffraction Techniques. <i>Macromolecules</i> , 2005, 38, 7064-7073.	2.2	85
138	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.	2.4	84
139	Thin-film nanofibrous composite membranes containing cellulose or chitin barrier layers fabricated by ionic liquids. <i>Polymer</i> , 2011, 52, 2594-2599.	1.8	84
140	High flux ethanol dehydration using nanofibrous membranes containing graphene oxide barrier layers. <i>Journal of Materials Chemistry A</i> , 2013, 1, 12998.	5.2	84
141	Self-roughened omniphobic coatings on nanofibrous membrane for membrane distillation. <i>Separation and Purification Technology</i> , 2018, 206, 14-25.	3.9	82
142	Nanocellulose for Sustainable Water Purification. <i>Chemical Reviews</i> , 2022, 122, 8936-9031.	23.0	82
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