Benjamin Hsiao

List of Publications by Year
in descending order

262 papers	15,336 citations	15001 68 h-index	26792 111 g-index
267 all docs	267 docs citations	267 times ranked	14549 citing authors

#	Article	IF	Citations
1	Nano-Filamented Textile Sensor Platform with High Structure Sensitivity. ACS Applied Materials & Interfaces, 2022, 14, 15391-15400.	4.0	6
2	Nanocellulose for Sustainable Water Purification. Chemical Reviews, 2022, 122, 8936-9031.	23.0	82
3	Biodegradable silk fibroin-based bio-piezoelectric/triboelectric nanogenerators as self-powered electronic devices. Nano Energy, 2022, 96, 107101.	8.2	41
4	Plant-derived carboxycellulose: Highly efficient bionanomaterials for removal of toxic lead from contaminated water. Separation Science and Technology, 2022, , 87-95.	0.0	0
5	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.	1.6	0
6	Nitro-oxidized carboxylated cellulose nanofiber based nanopapers and their PEM fuel cell performance. Sustainable Energy and Fuels, 2022, 6, 3669-3680.	2.5	11
7	Elucidating the Opportunities and Challenges for Nanocellulose Spinning. Advanced Materials, 2021, 33, e2001238.	11.1	43
8	Integrated dynamic wet spinning of core-sheath hydrogel fibers for optical-to-brain/tissue communications. National Science Review, 2021, 8, nwaa209.	4.6	36
9	Antifouling nanocellulose membranes: How subtle adjustment of surface charge lead to self-cleaning property. Journal of Membrane Science, 2021, 618, 118739.	4.1	46
10	Sequential Oxidation on Wood and Its Application in Pb2+ Removal from Contaminated Water. Polysaccharides, 2021, 2, 245-256.	2.1	5
11	Electrospun Nanofibrous Adsorption Membranes for Wastewater Treatment: Mechanical Strength Enhancement. Chemical Research in Chinese Universities, 2021, 37, 355-365.	1.3	7
12	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.	2.0	4
13	Cellulose Nanofibers: Elucidating the Opportunities and Challenges for Nanocellulose Spinning (Adv.) Tj ETQq1 1 0.784314 rgBT /Overlo	11.1	0
14	Nitro-oxidized carboxycellulose nanofibers from moringa plant: effective bioadsorbent for mercury removal. Cellulose, 2021, 28, 8611-8628.	2.4	26
15	Understanding ion-induced assembly of cellulose nanofibrillar gels through shear-free mixing and in situ scanning-SAXS. Nanoscale Advances, 2021, 3, 4940-4951.	2.2	5
16	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.	3.1	6
17	Lamellar crystal-dominated surfaces of polymer films achieved <i>via</i> melt stretching-induced free surface crystallization. Soft Matter, 2021, 17, 10829-10838.	1.2	1
18	Study the Use of Activated Carbon and Bone Char on the Performance of Gravity Sand-Bag Water Filter. Membranes, 2021, 11, 868.	1.4	5

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19	Functionalized bioâ€adsorbents for removal of perfluoroalkyl substances: A perspective. AWWA Water Science, 2021, 3, .	1.0	8
20	Highly permeable nanofibrous composite microfiltration membranes for removal of nanoparticles and heavy metal ions. Separation and Purification Technology, 2020, 233, 115976.	3.9	72
21	A simple inorganic hybrids strategy for graphene fibers fabrication with excellent electrochemical performance. Journal of Power Sources, 2020, 450, 227637.	4.0	29
22	Temperature rising elution fractionation and fraction compositional analysis of Polybutene-1/Polypropylene in-reactor alloys. Materials Today Communications, 2020, 23, 100868.	0.9	7
23	Highly efficient and sustainable carboxylated cellulose filters for removal of cationic dyes/heavy metals ions. Chemical Engineering Journal, 2020, 389, 123458.	6.6	88
24	Engineering construction of robust superhydrophobic two-tier composite membrane with interlocked structure for membrane distillation. Journal of Membrane Science, 2020, 598, 117813.	4.1	41
25	Heparinized thin-film composite membranes with sub-micron ridge structure for efficient hemodialysis. Journal of Membrane Science, 2020, 599, 117706.	4.1	25
26	Cross-Sections of Nanocellulose from Wood Analyzed by Quantized Polydispersity of Elementary Microfibrils. ACS Nano, 2020, 14, 16743-16754.	7.3	45
27	Surfaceâ€Mediated Interconnections of Nanoparticles in Cellulosic Fibrous Materials toward 3D Sensors. Advanced Materials, 2020, 32, e2002171.	11.1	18
28	Cellulose-Supported Nanosized Zinc Oxide: Highly Efficient Bionanomaterial for Removal of Arsenic from Water. ACS Symposium Series, 2020, , 253-267.	0.5	4
29	Rice husk based nanocellulose scaffolds for highly efficient removal of heavy metal ions from contaminated water. Environmental Science: Water Research and Technology, 2020, 6, 3080-3090.	1.2	30
30	Remediation of UO₂²⁺from Water by Nitro-Oxidized Carboxycellulose Nanofibers: Performance and Mechanism. ACS Symposium Series, 2020, , 269-283.	0.5	7
31	High-flux anti-fouling nanofibrous composite ultrafiltration membranes containing negatively charged water channels. Journal of Membrane Science, 2020, 612, 118382.	4.1	17
32	Hierarchical Assembly of Nanocellulose into Filaments by Flow-Assisted Alignment and Interfacial Complexation: Conquering the Conflicts between Strength and Toughness. ACS Applied Materials & Interfaces, 2020, 12, 32090-32098.	4.0	29
33	Cationic Dialdehyde Nanocellulose from Sugarcane Bagasse for Efficient Chromium(VI) Removal. ACS Sustainable Chemistry and Engineering, 2020, 8, 4734-4744.	3.2	58
34	Ultra-fine electrospun nanofibrous membranes for multicomponent wastewater treatment: Filtration and adsorption. Separation and Purification Technology, 2020, 242, 116794.	3.9	53
35	In situ synchrotron X-ray scattering studies on the temperature dependence of oriented Î²-crystal growth in isotactic polypropylene. Polymer Testing, 2020, 90, 106660.	2.3	6
36	Membrane Bioreactors for Nitrogen Removal from Wastewater: A Review. Journal of Environmental Engineering, ASCE, 2020, 146, .	0.7	26

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37	Nanocelluloseâ€Enabled Membranes for Water Purification: Perspectives. Advanced Sustainable Systems, 2020, 4, 1900114.	2.7	118
38	Facile synthesis of TiO2/CNC nanocomposites for enhanced Cr(VI) photoreduction: Synergistic roles of cellulose nanocrystals. Carbohydrate Polymers, 2020, 233, 115838.	5.1	43
39	Reinforcement of Natural Rubber Latex Using Jute Carboxycellulose Nanofibers Extracted Using Nitro-Oxidation Method. Nanomaterials, 2020, 10, 706.	1.9	24
40	Cellulose nanofibrils and nanocrystals in confined flow: Single-particle dynamics to collective alignment revealed through scanning small-angle x-ray scattering and numerical simulations. Physical Review E, 2020, 101, 032610.	0.8	26
41	Sustainable carboxylated cellulose filters for efficient removal and recovery of lanthanum. Environmental Research, 2020, 188, 109685.	3.7	18
42	Strong Silk Fibers Containing Cellulose Nanofibers Generated by a Bioinspired Microfluidic Chip. ACS Sustainable Chemistry and Engineering, 2019, 7, 14765-14774.	3.2	42
43	Enhancing Dehydration Performance of Isopropanol by Introducing Intermediate Layer into Sodium Alginate Nanofibrous Composite Pervaporation Membrane. Advanced Fiber Materials, 2019, 1, 137-151.	7.9	15
44	Morphology and Flow Behavior of Cellulose Nanofibers Dispersed in Glycols. Macromolecules, 2019, 52, 5499-5509.	2.2	18
45	Operation of proton exchange membrane (PEM) fuel cells using natural cellulose fiber membranes. Sustainable Energy and Fuels, 2019, 3, 2725-2732.	2.5	28
46	The influence of short chain branch on formation of shear-induced crystals in bimodal polyethylene at low shear temperatures. Polymer, 2019, 179, 121625.	1.8	9
47	Colorful nanofibrous composite membranes by two-nozzle electrospinning. Materials Today Communications, 2019, 21, 100643.	0.9	4
48	Silver Nanoparticle-Enabled Photothermal Nanofibrous Membrane for Light-Driven Membrane Distillation. Industrial & Engineering Chemistry Research, 2019, 58, 3269-3281.	1.8	70
49	Structural characterization of carboxyl cellulose nanofibers extracted from underutilized sources. Science China Technological Sciences, 2019, 62, 971-981.	2.0	18
50	Synthesis and Characterization of a High Flux Nanocelluloseâ€"Cellulose Acetate Nanocomposite Membrane. Membranes, 2019, 9, 70.	1.4	25
51	Interpenetrating Nanofibrous Composite Membranes for Water Purification. ACS Applied Nano Materials, 2019, 2, 3606-3614.	2.4	24
52	Effective chromium removal from water by polyaniline-coated electrospun adsorbent membrane. Chemical Engineering Journal, 2019, 372, 341-351.	6.6	151
53	Novel thin-film nanofibrous composite membranes containing directional toxin transport nanochannels for efficient and safe hemodialysis application. Journal of Membrane Science, 2019, 582, 151-163.	4.1	43
54	Influences of tacticity and molecular weight on crystallization kinetic and crystal morphology under isothermal crystallization: Evidence of tapering in lamellar width. Polymer, 2019, 172, 41-51.	1.8	14

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55	Molecular Structure of Aromatic Reverse Osmosis Polyamide Barrier Layers. ACS Macro Letters, 2019, 8, 352-356.	2.3	25
56	Robust superhydrophobic dual layer nanofibrous composite membranes with a hierarchically structured amorphous polypropylene skin for membrane distillation. Journal of Materials Chemistry A, 2019, 7, 11282-11297.	5.2	52
57	Electrospun Nanofibrous Membranes for Desalination. , 2019, , 81-104.		13
58	Efficient Removal of Arsenic Using Zinc Oxide Nanocrystal-Decorated Regenerated Microfibrillated Cellulose Scaffolds. ACS Sustainable Chemistry and Engineering, 2019, 7, 6140-6151.	3.2	93
59	Biofouling-resistant nanocellulose layer in hierarchical polymeric membranes: Synthesis, characterization and performance. Journal of Membrane Science, 2019, 579, 162-171.	4.1	40
60	Arsenic(III) Removal by Nanostructured Dialdehyde Celluloseâ€"Cysteine Microscale and Nanoscale Fibers. ACS Omega, 2019, 4, 22008-22020.	1.6	66
61	A study of TiO₂ nanocrystal growth and environmental remediation capability of TiO₂/CNC nanocomposites. RSC Advances, 2019, 9, 40565-40576.	1.7	29
62	Enhanced pervaporation performance of polyamide membrane with synergistic effect of porous nanofibrous support and trace graphene oxide lamellae. Chemical Engineering Science, 2019, 196, 265-276.	1.9	33
63	Static and Dynamic Light Scattering. World Scientific Series in Nanoscience and Nanotechnology, 2019, , 335-374.	0.1	0
64	A thirst for advancement. Nature Materials, 2018, 17, 213-215.	13.3	1
65	Nanocellulose Extracted from Defoliation of Ginkgo Leaves. MRS Advances, 2018, 3, 2077-2088.	0.5	11
66	Sulfonylcalix[4]arene functionalized nanofiber membranes for effective removal and selective fluorescence recognition of terbium(<scp>iii</scp>) ions. New Journal of Chemistry, 2018, 42, 6191-6202.	1.4	7
67	The influence of short chain branch on formation of shishâ€kebab crystals in bimodal polyethylene under shear at high temperatures. Journal of Polymer Science, Part B: Polymer Physics, 2018, 56, 786-794.	2.4	12
68	Integrated polyamide thin-film nanofibrous composite membrane regulated by functionalized interlayer for efficient water/isopropanol separation. Journal of Membrane Science, 2018, 553, 70-81.	4.1	67
69	Lead removal from water using carboxycellulose nanofibers prepared by nitro-oxidation method. Cellulose, 2018, 25, 1961-1973.	2.4	69
70	Understanding the Mechanistic Behavior of Highly Charged Cellulose Nanofibers in Aqueous Systems. Macromolecules, 2018, 51, 1498-1506.	2.2	92
71	Nanocellulose from Spinifex as an Effective Adsorbent to Remove Cadmium(II) from Water. ACS Sustainable Chemistry and Engineering, 2018, 6, 3279-3290.	3.2	138
72	An unusual promotion of Î³-crystals in metallocene-made isotactic polypropylene from orientational relaxation and favorable temperature window induced by shear. Polymer, 2018, 134, 196-203.	1.8	14

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73	Synthesis and characterization of poly(ethylene oxide)/polylactide/polylysine triâ€arm star copolymers for gene delivery. Journal of Polymer Science Part A, 2018, 56, 635-644.	2.5	6
74	The influence of short chain branch on formation of shear induced crystals in bimodal polyethylene at high shear temperatures. European Polymer Journal, 2018, 105, 359-369.	2.6	13
75	Effect of Sorbitol Templates on the Preferential Crystallographic Growth of Isotactic Polypropylene Wax. Crystals, 2018, 8, 59.	1.0	1
76	Anionic Surfactant-Triggered Steiner Geometrical Poly(vinylidene fluoride) Nanofiber/Nanonet Air Filter for Efficient Particulate Matter Removal. ACS Applied Materials & Interfaces, 2018, 10, 42891-42904.	4.0	73
77	Single Molecular Layer of Silk Nanoribbon as Potential Basic Building Block of Silk Materials. ACS Nano, 2018, 12, 11860-11870.	7.3	79
78	Nanocomposite Film Containing Fibrous Cellulose Scaffold and Ag/TiO2 Nanoparticles and Its Antibacterial Activity. Polymers, 2018, 10, 1052.	2.0	22
79	Eco-friendly poly(acrylic acid)-sodium alginate nanofibrous hydrogel: A multifunctional platform for superior removal of Cu(II) and sustainable catalytic applications. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 558, 228-241.	2.3	74
80	Current Advances on Nanofiber Membranes for Water Purification Applications. , 2018, , 25-46.		10
81	Self-roughened omniphobic coatings on nanofibrous membrane for membrane distillation. Separation and Purification Technology, 2018, 206, 14-25.	3.9	82
82	High Aspect Ratio Carboxycellulose Nanofibers Prepared by Nitro-Oxidation Method and Their Nanopaper Properties. ACS Applied Nano Materials, 2018, 1, 3969-3980.	2.4	47
83	Shear induced crystallization of bimodal and unimodal high density polyethylene. Polymer, 2018, 153, 223-231.	1.8	6
84	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. Composites Science and Technology, 2018, 167, 301-312.	3.8	29
85	Modification of carbon nanotubes with fluorinated ionic liquid for improving processability of fluoro-ethylene-propylene. European Polymer Journal, 2017, 87, 398-405.	2.6	17
86	Sequence distribution and elastic properties of propylene-based elastomers. Polymer, 2017, 111, 115-122.	1.8	13
87	Characterization of Nanocellulose Using Small-Angle Neutron, X-ray, and Dynamic Light Scattering Techniques. Journal of Physical Chemistry B, 2017, 121, 1340-1351.	1.2	112
88	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. ACS Applied Materials & Interfaces, 2017, 9, 10148-10159.	4.0	77
89	A durable thin-film nanofibrous composite nanofiltration membrane prepared by interfacial polymerization on a double-layer nanofibrous scaffold. RSC Advances, 2017, 7, 18001-18013.	1.7	39
90	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.	0.9	5

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91	Superior Impact Toughness and Excellent Storage Modulus of Poly(lactic acid) Foams Reinforced by Shish-Kebab Nanoporous Structure. ACS Applied Materials & Interfaces, 2017, 9, 21071-21076.	4.0	69
92	Super-hydrophobic modification of porous natural polymer â€œluffa spongeâ€•for oil absorption. Polymer, 2017, 126, 470-476.	1.8	52
93	Ionic Cross-Linked Poly(acrylonitrile-<i>co</i>-acrylic acid)/Polyacrylonitrile Thin Film Nanofibrous Composite Membrane with High Ultrafiltration Performance. Industrial & Engineering Chemistry Research, 2017, 56, 3077-3090.	1.8	17
94	Structure characterization of cellulose nanofiber hydrogel as functions of concentration and ionic strength. Cellulose, 2017, 24, 5417-5429.	2.4	59
95	A Criterion for Flowâ€Induced Oriented Crystals in Isotactic Polypropylene under Pressure. Macromolecular Rapid Communications, 2017, 38, 1700407.	2.0	12
96	Efficient Removal of UO₂²⁺ from Water Using Carboxycellulose Nanofibers Prepared by the Nitro-Oxidation Method. Industrial & Engineering Chemistry Research, 2017, 56, 13885-13893.	1.8	79
97	Decoration of Nanofibrous Paper Chemiresistors with Dendronized Nanoparticles toward Structurally Tunable Negativeâ€Going Response Characteristics to Human Breathing and Sweating. Advanced Materials Interfaces, 2017, 4, 1700380.	1.9	15
98	Nanoparticle Based Printed Sensors on Paper for Detecting Chemical Species. , 2017, , .		6
99	Deformation X-ray study of propylene-based elastomers with controlled sequence distributions. Polymer, 2017, 122, 208-221.	1.8	4
100	A Simple Approach to Prepare Carboxycellulose Nanofibers from Untreated Biomass. Biomacromolecules, 2017, 18, 2333-2342.	2.6	124
101	Thin-film nanofibrous composite reverse osmosis membranes for desalination. Desalination, 2017, 420, 91-98.	4.0	69
102	Continuous fabrication of cellulose nanocrystal/poly(ethylene glycol) diacrylate hydrogel fiber from nanocomposite dispersion: Rheology, preparation and characterization. Polymer, 2017, 123, 55-64.	1.8	44
103	Fabrication of cellulose nanofiberâ€based ultrafiltration membranes by spray coating approach. Journal of Applied Polymer Science, 2017, 134, .	1.3	20
104	High performance thin-film nanofibrous composite hemodialysis membranes with efficient middle-molecule uremic toxin removal. Journal of Membrane Science, 2017, 523, 173-184.	4.1	111
105	Super-hydrophobic polyurethane sponges for oil absorption. Separation Science and Technology, 2017, 52, 221-227.	1.3	24
106	DEPENDENCE OF THE ONSET OF STRAIN-INDUCED CRYSTALLIZATION OF NATURAL RUBBER AND ITS SYNTHETIC ANALOGUE ON CROSSLINK AND ENTANGLEMENT BY USING SYNCHROTRON X-RAY. Rubber Chemistry and Technology, 2017, 90, 728-742.	0.6	14
107	The supramolecular structure of bone: X-ray scattering analysis and lateral structure modeling. Acta Crystallographica Section D: Structural Biology, 2016, 72, 986-996.	1.1	5
108	Super-Robust Polylactide Barrier Films by Building Densely Oriented Lamellae Incorporated with Ductile in Situ Nanofibrils of Poly(butylene adipate-<i>co</i>-terephthalate). ACS Applied Materials & Interfaces, 2016, 8, 8096-8109.	4.0	102

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109	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. ACS Sustainable Chemistry and Engineering, 2016, 4, 2887-2897.	3.2	43
110	Low pressure UV-cured CSâ€“PEOâ€“PTEGDMA/PAN thin film nanofibrous composite nanofiltration membranes for anionic dye separation. Journal of Materials Chemistry A, 2016, 4, 15575-15588.	5.2	62
111	Large Scale Production of Continuous Hydrogel Fibers with Anisotropic Swelling Behavior by Dynamicâ€Crosslinkingâ€Spinning. Macromolecular Rapid Communications, 2016, 37, 1795-1801.	2.0	33
112	Nanoparticleâ€“Nanofibrous Membranes as Scaffolds for Flexible Sweat Sensors. ACS Sensors, 2016, 1, 1060-1069.	4.0	28
113	Improvement of meltdown temperature of lithium-ion battery separator using electrospun polyethersulfone membranes. Polymer, 2016, 107, 163-169.	1.8	36
114	Biomimetic Nanofibrillation in Two-Component Biopolymer Blends with Structural Analogs to Spider Silk. Scientific Reports, 2016, 6, 34572.	1.6	24
115	Insight into unique deformation behavior of oriented isotactic polypropylene with branched shish-kebabs. Polymer, 2015, 60, 274-283.	1.8	35
116	Thiol-functionalized chitin nanofibers for As (III) adsorption. Polymer, 2015, 60, 9-17.	1.8	69
117	Morphological and property investigations of carboxylated cellulose nanofibers extracted from different biological species. Cellulose, 2015, 22, 3127-3135.	2.4	20
118	Shear-Induced Precursor Relaxation-Dependent Growth Dynamics and Lamellar Orientation of Î²-Crystals in Î²-Nucleated Isotactic Polypropylene. Journal of Physical Chemistry B, 2015, 119, 5716-5727.	1.2	43
119	Micro-nano structure nanofibrous p-sulfonatocalix[8]arene complex membranes for highly efficient and selective adsorption of lanthanum(<scp>iii</scp>) ions in aqueous solution. RSC Advances, 2015, 5, 21178-21188.	1.7	30
120	Exploring the Nature of Cellulose Microfibrils. Biomacromolecules, 2015, 16, 1201-1209.	2.6	48
121	From Nanofibrillar to Nanolaminar Poly(butylene succinate): Paving the Way to Robust Barrier and Mechanical Properties for Full-Biodegradable Poly(lactic acid) Films. ACS Applied Materials & Interfaces, 2015, 7, 8023-8032.	4.0	67
122	High-performance nanofibrous membrane for removal of Cr(VI) from contaminated water. Journal of Plastic Film and Sheeting, 2015, 31, 379-400.	1.3	25
123	Role of Stably Entangled Chain Network Density in Shish-Kebab Formation in Polyethylene under an Intense Flow Field. Macromolecules, 2015, 48, 6652-6661.	2.2	57
124	Complexation of DNA with cationic surfactants as studied by small-angle X-ray scattering. Science China Chemistry, 2014, 57, 1738-1745.	4.2	12
125	Molecular Weight and Crystallization Temperature Effects on Poly(ethylene terephthalate) (PET) Homopolymers, an Isothermal Crystallization Analysis. Polymers, 2014, 6, 583-600.	2.0	41
126	Characterization of TEMPO-oxidized cellulose nanofibers in aqueous suspension by small-angle X-ray scattering. Journal of Applied Crystallography, 2014, 47, 788-798.	1.9	49

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127	Functionalized electrospun nanofibrous microfiltration membranes for removal of bacteria and viruses. Journal of Membrane Science, 2014, 452, 446-452.	4.1	142
128	Low-dimensional carbonaceous nanofiller induced polymer crystallization. Progress in Polymer Science, 2014, 39, 555-593.	11.8	140
129	A novel way to monitor the sequential destruction of parent-daughter crystals in isotactic polypropylene under uniaxial tension. Journal of Materials Science, 2014, 49, 3016-3024.	1.7	15
130	Nanofibrous polydopamine complex membranes for adsorption of Lanthanum (III) ions. Chemical Engineering Journal, 2014, 244, 307-316.	6.6	106
131	Biodegradable poly(lactic acid)/hydroxyl apatite 3D porous scaffolds using high-pressure molding and salt leaching. Journal of Materials Science, 2014, 49, 1648-1658.	1.7	31
132	Nanofibrous ultrafiltration membranes containing cross-linked poly(ethylene glycol) and cellulose nanofiber composite barrier layer. Polymer, 2014, 55, 366-372.	1.8	80
133	Thiol-modified cellulose nanofibrous composite membranes for chromium (VI) and lead (II) adsorption. Polymer, 2014, 55, 1167-1176.	1.8	211
134	Simultaneous improvement of strength and toughness in fiber reinforced isotactic polypropylene composites by shear flow and a Î²-nucleating agent. RSC Advances, 2014, 4, 14766-14776.	1.7	38
135	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.	2.6	149
136	Strong and tough micro/nanostructured poly(lactic acid) by mimicking the multifunctional hierarchy of shell. Materials Horizons, 2014, 1, 546-552.	6.4	61
137	Dual-Biomimetic Superhydrophobic Electrospun Polystyrene Nanofibrous Membranes for Membrane Distillation. ACS Applied Materials & Interfaces, 2014, 6, 2423-2430.	4.0	141
138	Nanofiltration membranes based on thin-film nanofibrous composites. Journal of Membrane Science, 2014, 469, 188-197.	4.1	80
139	Fabrication and characterization of cellulose nanofiber based thin-film nanofibrous composite membranes. Journal of Membrane Science, 2014, 454, 272-282.	4.1	150
140	Nanofibrous microfiltration membranes capable of removing bacteria, viruses and heavy metal ions. Journal of Membrane Science, 2013, 446, 376-382.	4.1	215
141	High-pressure crystallization of poly(lactic acid) with and without N2 atmosphere protection. Journal of Materials Science, 2013, 48, 7374-7383.	1.7	5
142	High flux ethanol dehydration using nanofibrous membranes containing graphene oxide barrier layers. Journal of Materials Chemistry A, 2013, 1, 12998.	5.2	84
143	Strong Shear Flow-Driven Simultaneous Formation of Classic Shish-Kebab, Hybrid Shish-Kebab, and Transcrystallinity in Poly(lactic acid)/Natural Fiber Biocomposites. ACS Sustainable Chemistry and Engineering, 2013, 1, 1619-1629.	3.2	89
144	Determination of Poly(4,4â€²â€diphenylsulfonyl terephthalamide) Crystalline Structure Via WAXD and Molecular Simulations. Macromolecular Chemistry and Physics, 2013, 214, 2432-2438.	1.1	7

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145	Structure Evolution upon Uniaxial Drawing Skinâ€•and Coreâ€•Layers of Injectionâ€•Molded Isotactic Polypropylene by <i>In Situ</i> Synchrotron Xâ€•ray Scattering. Journal of Polymer Science, Part B: Polymer Physics, 2013, 51, 1618-1631.	2.4	12
146	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. Macromolecules, 2013, 46, 4520-4528.	2.2	59
147	Plastic Deformation of Semicrystalline Polyethylene by X-ray Scattering: Comparison with Atomistic Simulations. Macromolecules, 2013, 46, 5279-5289.	2.2	38
148	Entanglements and Networks to Strain-Induced Crystallization and Stressâ€“Strain Relations in Natural Rubber and Synthetic Polyisoprene at Various Temperatures. Macromolecules, 2013, 46, 5238-5248.	2.2	132
149	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. Macromolecules, 2013, 46, 9712-9721.	2.2	45
150	Morphology and mechanical properties of heterophasic PPâ€“EP/EVA/organoclay nanocomposites. Journal of Applied Polymer Science, 2013, 128, 3473-3479.	1.3	6
151	Ultraporous poly(lactic acid) scaffolds with improved mechanical performance using highâ€•pressure molding and salt leaching. Journal of Applied Polymer Science, 2013, 130, 3509-3520.	1.3	9
152	Electrospun Nanofibrous Membrane for Heavy Metal Ion Adsorption. Current Organic Chemistry, 2013, 17, 1361-1370.	0.9	61
153	Polymeric nanofibrous composite membranes for energy efficient ethanol dehydration. Journal of Renewable and Sustainable Energy, 2012, 4, .	0.8	10
154	Structure Development during Stretching and Heating of Isotactic Propyleneâ€“1-Butylene Random Copolymer: From Unit Cells to Lamellae. Macromolecules, 2012, 45, 7061-7071.	2.2	24
155	Formation of Shish-Kebabs in Injection-Molded Poly(<scp>l</scp>-lactic acid) by Application of an Intense Flow Field. ACS Applied Materials & Interfaces, 2012, 4, 6774-6784.	4.0	128
156	Nanofibrous Microfiltration Membrane Based on Cellulose Nanowhiskers. Biomacromolecules, 2012, 13, 180-186.	2.6	201
157	Tough and Elastic Thermoplastic Organogels and Elastomers Made of Semicrystalline Polyolefin-Based Block Copolymers. Macromolecules, 2012, 45, 5604-5618.	2.2	41
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