

Benjamin S Hsiao

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

462
papers

32,656
citations

97
h-index

159
g-index

477
ext. papers

35,245
ext. citations

5.8
avg, IF

7.23
L-index

#	Paper	IF	Citations
462	Cellulose Nanofibers for Sustainable Separations 2022 , 563-589		
461	Nanocellulose for Sustainable Water Purification.. <i>Chemical Reviews</i> , 2022 ,	68.1	6
460	Nanostructured all-cellulose membranes for efficient ultrafiltration of wastewater. <i>Journal of Membrane Science</i> , 2022 , 650, 120422	9.6	1
459	Biodegradable silk fibroin-based bio-piezoelectric/triboelectric nanogenerators as self-powered electronic devices. <i>Nano Energy</i> , 2022 , 96, 107101	17.1	4
458	Nanocellulose in membrane technology for water purification. <i>Separation Science and Technology</i> , 2022 , 69-85	1.7	
457	Plant-derived carboxycellulose: Highly efficient bionanomaterials for removal of toxic lead from contaminated water. <i>Separation Science and Technology</i> , 2022 , 87-95	1.7	
456	Nitro-oxidation process for fabrication of efficient bioadsorbent from lignocellulosic biomass by combined liquid-gas phase treatment. <i>Carbohydrate Polymer Technologies and Applications</i> , 2022 , 3, 100219	1.7	
455	Functionalized bio-adsorbents for removal of perfluoroalkyl substances: A perspective. <i>AWWA Water Science</i> , 2021 , 3,	1.6	0
454	Elucidating the Opportunities and Challenges for Nanocellulose Spinning. <i>Advanced Materials</i> , 2021 , 33, e2001238	24	14
453	Integrated dynamic wet spinning of core-sheath hydrogel fibers for optical-to-brain/tissue communications. <i>National Science Review</i> , 2021 , 8, nwaa209	10.8	15
452	Sequential Oxidation on Wood and Its Application in Pb ²⁺ Removal from Contaminated Water. <i>Polysaccharides</i> , 2021 , 2, 245-256	3	1
451	Electrospun Nanofibrous Adsorption Membranes for Wastewater Treatment: Mechanical Strength Enhancement. <i>Chemical Research in Chinese Universities</i> , 2021 , 37, 355-365	2.2	2
450	The Influence of Ethyl Branch on Formation of Shish-Kebab Crystals in Bimodal Polyethylene under Shear at Low Temperature. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2021 , 39, 1050-1058	3.5	0
449	Crystal structural evolution of Polybutene-1 in solid state upon deformation and stress relaxation. <i>Polymer</i> , 2021 , 226, 123833	3.9	
448	Nitro-oxidized carboxycellulose nanofibers from moringa plant: effective bioadsorbent for mercury removal. <i>Cellulose</i> , 2021 , 28, 8611-8628	5.5	9
447	Antifouling nanocellulose membranes: How subtle adjustment of surface charge lead to self-cleaning property. <i>Journal of Membrane Science</i> , 2021 , 618, 118739	9.6	23
446	Shear-induced crystallization of unimodal/bimodal polyethylene at high temperatures affected by C4 short-branching. <i>Polymer</i> , 2021 , 233, 124203	3.9	0

445	Enhanced anti-fouling performance in Membrane Bioreactors using a novel cellulose nanofiber-coated membrane. <i>Separation and Purification Technology</i> , 2021 , 275, 119145	8.3	6
444	Understanding ion-induced assembly of cellulose nanofibrillar gels through shear-free mixing and scanning-SAXS. <i>Nanoscale Advances</i> , 2021 , 3, 4940-4951	5.1	2
443	Shear-free mixing to achieve accurate temporospatial nanoscale kinetics through scanning-SAXS: ion-induced phase transition of dispersed cellulose nanocrystals. <i>Lab on A Chip</i> , 2021 , 21, 1084-1095	7.2	2
442	Electrospun Nanofibers for Environmental Protection 2020 , 773-806		2
441	High-flux anti-fouling nanofibrous composite ultrafiltration membranes containing negatively charged water channels. <i>Journal of Membrane Science</i> , 2020 , 612, 118382	9.6	9
440	Hierarchical Assembly of Nanocellulose into Filaments by Flow-Assisted Alignment and Interfacial Complexation: Conquering the Conflicts between Strength and Toughness. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 32090-32098	9.5	14
439	Cationic Dialdehyde Nanocellulose from Sugarcane Bagasse for Efficient Chromium(VI) Removal. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 4734-4744	8.3	25
438	Ultra-fine electrospun nanofibrous membranes for multicomponent wastewater treatment: Filtration and adsorption. <i>Separation and Purification Technology</i> , 2020 , 242, 116794	8.3	33
437	Membrane Bioreactors for Nitrogen Removal from Wastewater: A Review. <i>Journal of Environmental Engineering, ASCE</i> , 2020 , 146, 03120002	2	17
436	Nanocellulose-Enabled Membranes for Water Purification: Perspectives. <i>Advanced Sustainable Systems</i> , 2020 , 4, 1900114	5.9	70
435	Facile synthesis of TiO/CNC nanocomposites for enhanced Cr(VI) photoreduction: Synergistic roles of cellulose nanocrystals. <i>Carbohydrate Polymers</i> , 2020 , 233, 115838	10.3	16
434	Reinforcement of Natural Rubber Latex Using Jute Carboxycellulose Nanofibers Extracted Using Nitro-Oxidation Method. <i>Nanomaterials</i> , 2020 , 10,	5.4	9
433	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	2.4	12
432	Sustainable carboxylated cellulose filters for efficient removal and recovery of lanthanum. <i>Environmental Research</i> , 2020 , 188, 109685	7.9	7
431	Highly permeable nanofibrous composite microfiltration membranes for removal of nanoparticles and heavy metal ions. <i>Separation and Purification Technology</i> , 2020 , 233, 115976	8.3	43
430	Highly efficient and sustainable carboxylated cellulose filters for removal of cationic dyes/heavy metals ions. <i>Chemical Engineering Journal</i> , 2020 , 389, 123458	14.7	46
429	Engineering construction of robust superhydrophobic two-tier composite membrane with interlocked structure for membrane distillation. <i>Journal of Membrane Science</i> , 2020 , 598, 117813	9.6	24
428	Heparinized thin-film composite membranes with sub-micron ridge structure for efficient hemodialysis. <i>Journal of Membrane Science</i> , 2020 , 599, 117706	9.6	13

427	Cross-Sections of Nanocellulose from Wood Analyzed by Quantized Polydispersity of Elementary Microfibrils. <i>ACS Nano</i> , 2020 ,	16.7	10
426	Surface-Mediated Interconnections of Nanoparticles in Cellulosic Fibrous Materials toward 3D Sensors. <i>Advanced Materials</i> , 2020 , 32, e2002171	24	9
425	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	4.2	15
424	Remediation of UO ₂ ²⁺ from Water by Nitro-Oxidized Carboxycellulose Nanofibers: Performance and Mechanism. <i>ACS Symposium Series</i> , 2020 , 269-283	0.4	4
423	Silver Nanoparticle-Enabled Photothermal Nanofibrous Membrane for Light-Driven Membrane Distillation. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 3269-3281	3.9	38
422	Structural characterization of carboxyl cellulose nanofibers extracted from underutilized sources. <i>Science China Technological Sciences</i> , 2019 , 62, 971-981	3.5	10
421	Synthesis and Characterization of a High Flux Nanocellulose-Cellulose Acetate Nanocomposite Membrane. <i>Membranes</i> , 2019 , 9,	3.8	16
420	Interpenetrating Nanofibrous Composite Membranes for Water Purification. <i>ACS Applied Nano Materials</i> , 2019 , 2, 3606-3614	5.6	19
419	Effective chromium removal from water by polyaniline-coated electrospun adsorbent membrane. <i>Chemical Engineering Journal</i> , 2019 , 372, 341-351	14.7	89
418	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	9.6	26
417	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	3.9	10
416	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	13	30
415	Electrospun Nanofibrous Membranes for Desalination 2019 , 81-104		8
414	Efficient Removal of Arsenic Using Zinc Oxide Nanocrystal-Decorated Regenerated Microfibrillated Cellulose Scaffolds. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 6140-6151	8.3	67
413	Strong Silk Fibers Containing Cellulose Nanofibers Generated by a Bioinspired Microfluidic Chip. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 14765-14774	8.3	25
412	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	10.9	10
411	Morphology and Flow Behavior of Cellulose Nanofibers Dispersed in Glycols. <i>Macromolecules</i> , 2019 , 52, 5499-5509	5.5	8
410	Operation of proton exchange membrane (PEM) fuel cells using natural cellulose fiber membranes. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 2725-2732	5.8	11

409	The influence of short chain branch on formation of shear-induced crystals in bimodal polyethylene at low shear temperatures. <i>Polymer</i> , 2019 , 179, 121625	3.9	5
408	Colorful nanofibrous composite membranes by two-nozzle electrospinning. <i>Materials Today Communications</i> , 2019 , 21, 100643	2.5	4
407	Biofouling-resistant nanocellulose layer in hierarchical polymeric membranes: Synthesis, characterization and performance. <i>Journal of Membrane Science</i> , 2019 , 579, 162-171	9.6	27
406	Arsenic(III) Removal by Nanostructured Dialdehyde Cellulose-Cysteine Microscale and Nanoscale Fibers. <i>ACS Omega</i> , 2019 , 4, 22008-22020	3.9	39
405	A study of TiO nanocrystal growth and environmental remediation capability of TiO/CNC nanocomposites. <i>RSC Advances</i> , 2019 , 9, 40565-40576	3.7	18
404	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	4.4	25
403	A thirst for advancement. <i>Nature Materials</i> , 2018 , 17, 213-215	27	0
402	Nanocellulose Extracted from Defoliation of Ginkgo Leaves. <i>MRS Advances</i> , 2018 , 3, 2077-2088	0.7	7
401	Sulfonylcalix[4]arene functionalized nanofiber membranes for effective removal and selective fluorescence recognition of terbium(III) ions. <i>New Journal of Chemistry</i> , 2018 , 42, 6191-6202	3.6	6
400	The influence of short chain branch on formation of shish-kebab crystals in bimodal polyethylene under shear at high temperatures. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2018 , 56, 786-794	2.6	9
399	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	9.6	45
398	Lead removal from water using carboxycellulose nanofibers prepared by nitro-oxidation method. <i>Cellulose</i> , 2018 , 25, 1961-1973	5.5	40
397	Understanding the Mechanistic Behavior of Highly Charged Cellulose Nanofibers in Aqueous Systems. <i>Macromolecules</i> , 2018 , 51, 1498-1506	5.5	60
396	Nanocellulose from Spinifex as an Effective Adsorbent to Remove Cadmium(II) from Water. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 3279-3290	8.3	103
395	An unusual promotion of β crystals in metallocene-made isotactic polypropylene from orientational relaxation and favorable temperature window induced by shear. <i>Polymer</i> , 2018 , 134, 196-203	3.9	9
394	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	5.2	12
393	High Aspect Ratio Carboxycellulose Nanofibers Prepared by Nitro-Oxidation Method and Their Nanopaper Properties. <i>ACS Applied Nano Materials</i> , 2018 , 1, 3969-3980	5.6	34
392	Shear induced crystallization of bimodal and unimodal high density polyethylene. <i>Polymer</i> , 2018 , 153, 223-231	3.9	5

391	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	8.6	26
390	Effect of Sorbitol Templates on the Preferential Crystallographic Growth of Isotactic Polypropylene Wax. <i>Crystals</i> , 2018 , 8, 59	2.3	0
389	Anionic Surfactant-Triggered Steiner Geometrical Poly(vinylidene fluoride) Nanofiber/Nanonet Air Filter for Efficient Particulate Matter Removal. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 42891-42904	8.5	55
388	Single Molecular Layer of Silk Nanoribbon as Potential Basic Building Block of Silk Materials. <i>ACS Nano</i> , 2018 , 12, 11860-11870	16.7	52
387	Nanocomposite Film Containing Fibrous Cellulose Scaffold and Ag/TiO ₂ Nanoparticles and Its Antibacterial Activity. <i>Polymers</i> , 2018 , 10,	4.5	14
386	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	5.1	42
385	Current Advances on Nanofiber Membranes for Water Purification Applications 2018 , 25-46		10
384	Self-roughened omniphobic coatings on nanofibrous membrane for membrane distillation. <i>Separation and Purification Technology</i> , 2018 , 206, 14-25	8.3	57
383	Modification of carbon nanotubes with fluorinated ionic liquid for improving processability of fluoro-ethylene-propylene. <i>European Polymer Journal</i> , 2017 , 87, 398-405	5.2	14
382	Sequence distribution and elastic properties of propylene-based elastomers. <i>Polymer</i> , 2017 , 111, 115-123	3.9	10
381	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	3.4	86
380	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 & Interfaces</i> , 2017 , 9, 10148-10159	9.5	47
379	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	3.7	26
378	Comprehensive study on temperature-induced crystallisation and strain-induced crystallisation behaviours of natural rubber/isoprene rubber blends. <i>Plastics, Rubber and Composites</i> , 2017 , 46, 290-300	1.5	2
377	Superior Impact Toughness and Excellent Storage Modulus of Poly(lactic acid) Foams Reinforced by Shish-Kebab Nanoporous Structure. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 21071-21076	9.5	53
376	Super-hydrophobic modification of porous natural polymer [Luffa sponge] for oil absorption. <i>Polymer</i> , 2017 , 126, 470-476	3.9	34
375	Ionic Cross-Linked Poly(acrylonitrile-co-acrylic acid)/Polyacrylonitrile Thin Film Nanofibrous Composite Membrane with High Ultrafiltration Performance. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 3077-3090	3.9	15
374	Rheological Properties of Jute-Based Cellulose Nanofibers under Different Ionic Conditions. <i>ACS Symposium Series</i> , 2017 , 113-132	0.4	5

373	Structure characterization of cellulose nanofiber hydrogel as functions of concentration and ionic strength. <i>Cellulose</i> , 2017 , 24, 5417-5429	5.5	47
372	A Criterion for Flow-Induced Oriented Crystals in Isotactic Polypropylene under Pressure. <i>Macromolecular Rapid Communications</i> , 2017 , 38, 1700407	4.8	7
371	Efficient Removal of UO ₂ ²⁺ from Water Using Carboxycellulose Nanofibers Prepared by the Nitro-Oxidation Method. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 13885-13893	3.9	58
370	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	1.7	8
369	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	4.6	12
368	Continuous Production of Hollow Hydrogel Fibers with Graphene Inner Wall. <i>Materials Science Forum</i> , 2017 , 898, 2197-2204	0.4	0
367	Nanoparticle Based Printed Sensors on Paper for Detecting Chemical Species 2017 ,		3
366	Deformation X-ray study of propylene-based elastomers with controlled sequence distributions. <i>Polymer</i> , 2017 , 122, 208-221	3.9	4
365	A Simple Approach to Prepare Carboxycellulose Nanofibers from Untreated Biomass. <i>Biomacromolecules</i> , 2017 , 18, 2333-2342	6.9	92
364	Thin-film nanofibrous composite reverse osmosis membranes for desalination. <i>Desalination</i> , 2017 , 420, 91-98	10.3	51
363	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	3.9	30
362	Fabrication of cellulose nanofiber-based ultrafiltration membranes by spray coating approach. <i>Journal of Applied Polymer Science</i> , 2017 , 134,	2.9	16
361	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	9.6	77
360	Super-hydrophobic polyurethane sponges for oil absorption. <i>Separation Science and Technology</i> , 2017 , 52, 221-227	2.5	16
359	Improvement of meltdown temperature of lithium-ion battery separator using electrospun polyethersulfone membranes. <i>Polymer</i> , 2016 , 107, 163-169	3.9	29
358	Biomimetic Nanofibrillation in Two-Component Biopolymer Blends with Structural Analogs to Spider Silk. <i>Scientific Reports</i> , 2016 , 6, 34572	4.9	18
357	Electrospun polystyrene nanofibrous membranes for direct contact membrane distillation. <i>Journal of Membrane Science</i> , 2016 , 515, 86-97	9.6	86
356	Polymeric nanostructured materials for biomedical applications. <i>Progress in Polymer Science</i> , 2016 , 60, 86-128	29.6	209

355	Probing structure and orientation in polymers using synchrotron small- and wide-angle X-ray scattering techniques. <i>European Polymer Journal</i> , 2016 , 81, 433-446	5.2	9
354	Deformation behavior of oriented β crystals in injection-molded isotactic polypropylene by in situ X-ray scattering. <i>Polymer</i> , 2016 , 84, 254-266	3.9	20
353	High filtration performance thin film nanofibrous composite membrane prepared by electrospaying technique and hot-pressing treatment. <i>Journal of Membrane Science</i> , 2016 , 499, 470-479 ^{9.6}	9.6	35
352	The supramolecular structure of bone: X-ray scattering analysis and lateral structure modeling. <i>Acta Crystallographica Section D: Structural Biology</i> , 2016 , 72, 986-96	5.5	3
351	Electrospun nanofiber membranes. <i>Current Opinion in Chemical Engineering</i> , 2016 , 12, 62-81	5.4	152
350	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 & Interfaces</i> , 2016 , 8, 8096-109	9.5	68
349	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	8.3	30
348	Low pressure UV-cured CSBEOBTEGDMA/PAN thin film nanofibrous composite nanofiltration membranes for anionic dye separation. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 15575-15588	13	49
347	Large Scale Production of Continuous Hydrogel Fibers with Anisotropic Swelling Behavior by Dynamic-Crosslinking-Spinning. <i>Macromolecular Rapid Communications</i> , 2016 , 37, 1795-1801	4.8	22
346	Nanoparticle Nanofibrous Membranes as Scaffolds for Flexible Sweat Sensors. <i>ACS Sensors</i> , 2016 , 1, 1060-1069	9.2	17
345	Morphological and property investigations of carboxylated cellulose nanofibers extracted from different biological species. <i>Cellulose</i> , 2015 , 22, 3127-3135	5.5	15
344	Shear-Induced Precursor Relaxation-Dependent Growth Dynamics and Lamellar Orientation of β Crystals in β Nucleated Isotactic Polypropylene. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 5716-27	3.4	39
343	Micro-nano structure nanofibrous p-sulfonatocalix[8]arene complex membranes for highly efficient and selective adsorption of lanthanum(III) ions in aqueous solution. <i>RSC Advances</i> , 2015 , 5, 21178-21188 ^{3.7}	3.7	25
342	Structure and permeability relationships in polymer nanocomposites containing carbon black and organoclay. <i>Polymer</i> , 2015 , 64, 19-28	3.9	14
341	Exploring the nature of cellulose microfibrils. <i>Biomacromolecules</i> , 2015 , 16, 1201-9	6.9	41
340	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 & Interfaces</i> , 2015 , 7, 8023-32	9.5	48
339	High-performance nanofibrous membrane for removal of Cr(VI) from contaminated water. <i>Journal of Plastic Film and Sheeting</i> , 2015 , 31, 379-400	2.4	21
338	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	5.5	42

337	Insight into unique deformation behavior of oriented isotactic polypropylene with branched shish-kebabs. <i>Polymer</i> , 2015 , 60, 274-283	3.9	29
336	Thiol-functionalized chitin nanofibers for As (III) adsorption. <i>Polymer</i> , 2015 , 60, 9-17	3.9	55
335	Modified Cellulose 2015 , 1-2		0
334	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	4.3	14
333	Nanofibrous polydopamine complex membranes for adsorption of Lanthanum (III) ions. <i>Chemical Engineering Journal</i> , 2014 , 244, 307-316	14.7	86
332	Nanofiltration membranes prepared by interfacial polymerization on thin-film nanofibrous composite scaffold. <i>Polymer</i> , 2014 , 55, 1358-1366	3.9	91
331	Nanofibrous ultrafiltration membranes containing cross-linked poly(ethylene glycol) and cellulose nanofiber composite barrier layer. <i>Polymer</i> , 2014 , 55, 366-372	3.9	68
330	Thiol-modified cellulose nanofibrous composite membranes for chromium (VI) and lead (II) adsorption. <i>Polymer</i> , 2014 , 55, 1167-1176	3.9	175
329	Simultaneous improvement of strength and toughness in fiber reinforced isotactic polypropylene composites by shear flow and a nucleating agent. <i>RSC Advances</i> , 2014 , 4, 14766-14776	3.7	37
328	Effects of molecular geometry on the self-assembly of giant polymer-dendron conjugates in condensed state. <i>Soft Matter</i> , 2014 , 10, 3200-8	3.6	11
327	Self-reinforced polyethylene blend for artificial joint application. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 971-980	7.3	30
326	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, 4054-64	6.9	116
325	Strong and tough micro/nanostructured poly(lactic acid) by mimicking the multifunctional hierarchy of shell. <i>Materials Horizons</i> , 2014 , 1, 546-552	14.4	51
324	Dual-biomimetic superhydrophobic electrospun polystyrene nanofibrous membranes for membrane distillation. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 2423-30	9.5	121
323	Nanofiltration membranes based on thin-film nanofibrous composites. <i>Journal of Membrane Science</i> , 2014 , 469, 188-197	9.6	60
322	Fabrication and characterization of cellulose nanofiber based thin-film nanofibrous composite membranes. <i>Journal of Membrane Science</i> , 2014 , 454, 272-282	9.6	132
321	Improved barrier properties of poly(lactic acid) with randomly dispersed graphene oxide nanosheets. <i>Journal of Membrane Science</i> , 2014 , 464, 110-118	9.6	141
320	Electrospun Nanofibrous Membranes for Liquid Filtration. <i>Nanostructure Science and Technology</i> , 2014 , 325-354	0.9	1

319	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	3.8	40
318	Functionalized electrospun nanofibrous microfiltration membranes for removal of bacteria and viruses. <i>Journal of Membrane Science</i> , 2014 , 452, 446-452	9.6	112
317	Improving toughness of ultra-high molecular weight polyethylene with ionic liquid modified carbon nanofiber. <i>Polymer</i> , 2014 , 55, 160-165	3.9	14
316	Carbon nanotube surface-induced crystallization of polyethylene terephthalate (PET). <i>Polymer</i> , 2014 , 55, 642-650	3.9	32
315	Low-dimensional carbonaceous nanofiller induced polymer crystallization. <i>Progress in Polymer Science</i> , 2014 , 39, 555-593	29.6	124
314	Nanofibrous microfiltration membranes capable of removing bacteria, viruses and heavy metal ions. <i>Journal of Membrane Science</i> , 2013 , 446, 376-382	9.6	180
313	High-pressure crystallization of poly(lactic acid) with and without N ₂ atmosphere protection. <i>Journal of Materials Science</i> , 2013 , 48, 7374-7383	4.3	4
312	High flux ethanol dehydration using nanofibrous membranes containing graphene oxide barrier layers. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 12998	13	72
311	Control of structure and morphology of highly aligned PLLA ultrafine fibers via linear-jet electrospinning. <i>Polymer</i> , 2013 , 54, 6045-6051	3.9	26
310	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	8.3	73
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17	Crystalline Homopolyimides and Copolyimides Derived from 3,3',4,4'-Biphenyltetracarboxylic Dianhydride/1,3-Bis(4-aminophenoxy)benzene/1,12-Dodecanediamine. 1. Materials, Preparation, and Characterization. <i>Macromolecules</i> , 1995 , 28, 6926-6930	5.5	35
16	A laser-aided prealigned pinhole collimator for synchrotron x rays. <i>Review of Scientific Instruments</i> , 1994 , 65, 597-602	1.7	50
15	Crystallization study of a thermoplastic polyimide (new-TPI). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1994 , 32, 737-747	2.6	29
14	Crystallization of poly(aryl ether ketone) copolymers containing terephthalate/isophthalate moieties. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1994 , 32, 2585-2594	2.6	24

13	Polymorphism in poly(aryl ether ketone)s. <i>Polymer</i> , 1994 , 35, 2290-2295	3.9	48
12	Crystal Structure, Morphology, and Phase Transitions in Aromatic Polyimide Oligomers. 1. Poly(4,4'-oxydiphenylene pyromellitimide). <i>Macromolecules</i> , 1994 , 27, 989-996	5.5	29
11	Crystal Morphology and Phase Identifications in Poly(aryl ether ketone)s and Their Copolymers. 1. Polymorphism in PEKK. <i>Macromolecules</i> , 1994 , 27, 2136-2140	5.5	51
10	Crystal Morphology and Phase Identifications in Poly(aryl ether ketone)s and Their Copolymers. 2. Poly(oxy-1,4-phenylenecarbonyl-1,3-phenylenecarbonyl-1,4-phenylene). <i>Macromolecules</i> , 1994 , 27, 5787-5793	5.5	21
9	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	5.5	78
8	Miscibility of three different poly(aryl ether ketones) with a high melting thermoplastic polyimide. <i>Polymer</i> , 1993 , 34, 3315-3318	3.9	13
7	Time-resolved X-ray study of poly(aryl ether ether ketone) crystallization and melting behaviour: 1. Crystallization. <i>Polymer</i> , 1993 , 34, 3986-3995	3.9	140
6	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	2.6	92
5	Time-resolved X-ray study of poly(aryl ether ether ketone) crystallization and melting behaviour: 2. Melting. <i>Polymer</i> , 1993 , 34, 3996-4003	3.9	101
4	Structure, crystallization and morphology of poly (aryl ether ketone ketone). <i>Polymer</i> , 1992 , 33, 2483-2495	3.9	136
3	Isothermal crystallization kinetics of poly(ether ketone ketone) and its carbon-fibre-reinforced composites. <i>Polymer</i> , 1991 , 32, 2799-2805	3.9	36
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1	The Effects of Temperature and Pressure on the Dynamic Longitudinal Volume Viscosity of Two Model Polymers. <i>Journal of Rheology</i> , 1988 , 32, 533-553	4.1	1