

You-Lo Hsieh

List of Publications by Year in descending order

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125
papers

10,587
citations

28190

55
h-index

32761

100
g-index

128
all docs

128
docs citations

128
times ranked

11823
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation and properties of cellulose nanocrystals: Rods, spheres, and network. Carbohydrate Polymers, 2010, 82, 329-336.	5.1	763
2	Ultrafine fibrous cellulose membranes from electrospinning of cellulose acetate. Journal of Polymer Science, Part B: Polymer Physics, 2002, 40, 2119-2129.	2.4	567
3	Preparation and characterization of cellulose nanocrystals from rice straw. Carbohydrate Polymers, 2012, 87, 564-573.	5.1	489
4	Chemically and mechanically isolated nanocellulose and their self-assembled structures. Carbohydrate Polymers, 2013, 95, 32-40.	5.1	472
5	Amphiphilic superabsorbent cellulose nanofibril aerogels. Journal of Materials Chemistry A, 2014, 2, 6337-6342.	5.2	375
6	Chitosan bicomponent nanofibers and nanoporous fibers. Carbohydrate Research, 2006, 341, 374-381.	1.1	259
7	Cellulose nanocrystal isolation from tomato peels and assembled nanofibers. Carbohydrate Polymers, 2015, 122, 60-68.	5.1	250
8	Super water absorbing and shape memory nanocellulose aerogels from TEMPO-oxidized cellulose nanofibrils via cyclic freezing-thawing. Journal of Materials Chemistry A, 2014, 2, 350-359.	5.2	232
9	Liquid Transport in Fabric Structures. Textile Reseach Journal, 1995, 65, 299-307.	1.1	224
10	Adsorption and desorption of cationic malachite green dye on cellulose nanofibril aerogels. Carbohydrate Polymers, 2017, 173, 286-294.	5.1	217
11	High energy density supercapacitors from lignin derived submicron activated carbon fibers in aqueous electrolytes. Journal of Power Sources, 2014, 270, 106-112.	4.0	211
12	Title is missing!. Journal of Materials Science, 2003, 38, 2125-2133.	1.7	210
13	pH-responsive swelling behavior of poly(vinyl alcohol)/poly(acrylic acid) bi-component fibrous hydrogel membranes. Polymer, 2005, 46, 5149-5160.	1.8	179
14	Highly pure amorphous silica nano-disks from rice straw. Powder Technology, 2012, 225, 149-155.	2.1	166
15	Immobilization of lipase enzyme in polyvinyl alcohol (PVA) nanofibrous membranes. Journal of Membrane Science, 2008, 309, 73-81.	4.1	156
16	Ultra-fine polyelectrolyte fibers from electrospinning of poly(acrylic acid). Polymer, 2005, 46, 5133-5139.	1.8	149
17	Cellulose Nanofibril Aerogels: Synergistic Improvement of Hydrophobicity, Strength, and Thermal Stability via Cross-Linking with Diisocyanate. ACS Applied Materials & Interfaces, 2017, 9, 2825-2834.	4.0	146
18	Controlled defibrillation of rice straw cellulose and self-assembly of cellulose nanofibrils into highly crystalline fibrous materials. RSC Advances, 2013, 3, 12366.	1.7	141

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19	Cellulose isolation and core-shell nanostructures of cellulose nanocrystals from chardonnay grape skins. <i>Carbohydrate Polymers</i> , 2012, 87, 2546-2553.	5.1	135
20	Preparation of Amidoxime Polyacrylonitrile Chelating Nanofibers and Their Application for Adsorption of Metal Ions. <i>Materials</i> , 2013, 6, 969-980.	1.3	135
21	Enzymatic Scouring to Improve Cotton Fabric Wettability. <i>Textile Reseach Journal</i> , 1998, 68, 233-241.	1.1	126
22	Self-assembling of TEMPO Oxidized Cellulose Nanofibrils As Affected by Protonation of Surface Carboxyls and Drying Methods. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 1041-1049.	3.2	123
23	Multiwalled Carbon Nanotube (MWCNT) Reinforced Cellulose Fibers by Electrospinning. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 2413-2420.	4.0	120
24	Coaxial Electrospun Cellulose-Core Fluoropolymer-Shell Fibrous Membrane from Recycled Cigarette Filter as Separator for High Performance Lithium-Ion Battery. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 932-940.	3.2	119
25	Enzyme immobilization to ultra-fine cellulose fibers via amphiphilic polyethylene glycol spacers. <i>Journal of Polymer Science Part A</i> , 2004, 42, 4289-4299.	2.5	118
26	Liquid Wetting, Transport, and Retention Properties of Fibrous Assemblies: Part I: Water Wetting Properties of Woven Fabrics and Their Constituent Single Fibers. <i>Textile Reseach Journal</i> , 1992, 62, 677-685.	1.1	116
27	Dissolution behaviour and solubility of cellulose in NaOH complex solution. <i>Carbohydrate Polymers</i> , 2010, 81, 668-674.	5.1	116
28	Ultrafine microporous and mesoporous activated carbon fibers from alkali lignin. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11279.	5.2	103
29	Ultrafine hydrogel fibers with dual temperature- and pH-responsive swelling behaviors. <i>Journal of Polymer Science Part A</i> , 2004, 42, 6331-6339.	2.5	102
30	Ultra-fine polyelectrolyte hydrogel fibres from poly(acrylic acid)/poly(vinyl alcohol). <i>Nanotechnology</i> , 2005, 16, 2852-2860.	1.3	99
31	Nanoporous ultrahigh specific surface polyacrylonitrile fibres. <i>Nanotechnology</i> , 2006, 17, 4416-4423.	1.3	99
32	Nanocellulose aerogel-based porous coaxial fibers for thermal insulation. <i>Nano Energy</i> , 2020, 68, 104305.	8.2	99
33	Surface modification of cellulose with plant triglycerides for hydrophobicity. <i>Cellulose</i> , 2007, 14, 469-480.	2.4	96
34	Cellulose nanocrystal-filled poly(acrylic acid) nanocomposite fibrous membranes. <i>Nanotechnology</i> , 2009, 20, 415604.	1.3	94
35	Enzymatic Hydrolysis to Improve Wetting and Absorbency of Polyester Fabrics. <i>Textile Reseach Journal</i> , 1998, 68, 311-319.	1.1	93
36	Chitosan-sheath and chitin-core nanowhiskers. <i>Carbohydrate Polymers</i> , 2014, 107, 158-166.	5.1	91

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37	Wetting and absorbency of nonionic surfactant solutions on cotton fabrics. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2001, 187-188, 385-397.	2.3	89
38	Cellulose/chitosan hybrid nanofibers from electrospinning of their ester derivatives. <i>Cellulose</i> , 2009, 16, 247-260.	2.4	88
39	Conductive Polymer Protonated Nanocellulose Aerogels for Tunable and Linearly Responsive Strain Sensors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 27902-27910.	4.0	88
40	Nanofibrous membranes from aqueous electrospinning of carboxymethyl chitosan. <i>Nanotechnology</i> , 2008, 19, 125707.	1.3	85
41	Silver nanoparticle synthesis using lignin as reducing and capping agents: A kinetic and mechanistic study. <i>International Journal of Biological Macromolecules</i> , 2016, 82, 856-862.	3.6	85
42	Enzyme immobilization on ultrafine cellulose fibers via poly(acrylic acid) electrolyte grafts. <i>Biotechnology and Bioengineering</i> , 2005, 90, 405-413.	1.7	84
43	PEGylation of chitosan for improved solubility and fiber formation via electrospinning. <i>Cellulose</i> , 2007, 14, 543-552.	2.4	84
44	Assembling and Redispersibility of Rice Straw Nanocellulose: Effect of <i>tert</i> -Butanol. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 20075-20084.	4.0	82
45	Biocompatible sodium alginate fibers by aqueous processing and physical crosslinking. <i>Carbohydrate Polymers</i> , 2014, 102, 893-900.	5.1	78
46	Crystalline structure of developing cotton fibers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1996, 34, 1451-1459.	2.4	77
47	Cellulose nanocrystals and self-assembled nanostructures from cotton, rice straw and grape skin: a source perspective. <i>Journal of Materials Science</i> , 2013, 48, 7837-7846.	1.7	74
48	Lignin derived activated carbon particulates as an electric supercapacitor: carbonization and activation on porous structures and microstructures. <i>RSC Advances</i> , 2017, 7, 30459-30468.	1.7	71
49	Synthesis of surface bound silver nanoparticles on cellulose fibers using lignin as multi-functional agent. <i>Carbohydrate Polymers</i> , 2015, 131, 134-141.	5.1	65
50	Rice Straw Cellulose Nanofibrils via Aqueous Counter Collision and Differential Centrifugation and Their Self-Assembled Structures. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 1697-1706.	3.2	65
51	Thermosensitive poly(<i>n</i> -isopropylacrylamide) hydrogels bonded on cellulose supports. <i>Journal of Applied Polymer Science</i> , 2003, 89, 999-1006.	1.3	64
52	¹ H NMR and ¹ H- ¹³ C HSQC surface characterization of chitosan-chitin sheath-core nanowhiskers. <i>Carbohydrate Polymers</i> , 2015, 123, 46-52.	5.1	62
53	Carbon nanofibers with nanoporosity and hollow channels from binary polyacrylonitrile systems. <i>European Polymer Journal</i> , 2009, 45, 47-56.	2.6	60
54	Preparation of Activated Carbon and Silica Particles from Rice Straw. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 726-734.	3.2	59

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55	Holocellulose Nanocrystals: Amphiphilicity, Oil/Water Emulsion, and Self-Assembly. <i>Biomacromolecules</i> , 2015, 16, 1433-1441.	2.6	59
56	Characterizing the Noncellulosics in Developing Cotton Fibers. <i>Textile Research Journal</i> , 2000, 70, 810-819.	1.1	57
57	1D Lignin-Based Solid Acid Catalysts for Cellulose Hydrolysis to Glucose and Nanocellulose. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 2566-2574.	3.2	55
58	Effect of Fiber Swelling on the Structure of Lyocell Fabrics. <i>Textile Research Journal</i> , 2001, 71, 164-173.	1.1	54
59	Ultra-fine cellulose acetate/poly(ethylene oxide) bicomponent fibers. <i>Carbohydrate Polymers</i> , 2008, 71, 196-207.	5.1	53
60	Enzyme-catalyzed transesterification of vinyl esters on cellulose solids. <i>Journal of Polymer Science Part A</i> , 2001, 39, 1931-1939.	2.5	52
61	Macroporous Silicon Oxycarbide Fibers with Luffa-like Superhydrophobic Shells. <i>Journal of the American Chemical Society</i> , 2009, 131, 10346-10347.	6.6	52
62	Synthesis of polystyrene-supported dithiocarbamates and their complexation with metal ions. <i>Journal of Applied Polymer Science</i> , 2004, 92, 218-225.	1.3	49
63	Lipase bound cellulose nanofibrous membrane via Cibacron Blue F3GA affinity ligand. <i>Journal of Membrane Science</i> , 2009, 330, 288-296.	4.1	48
64	Holistic Rice Straw Nanocellulose and Hemicelluloses/Lignin Composite Films. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 728-737.	3.2	48
65	Effects of polymer matrices to the formation of silicon carbide (SiC) nanoporous fibers and nanowires under carbothermal reduction. <i>Journal of Materials Chemistry</i> , 2011, 21, 1005-1012.	6.7	47
66	Structural transformation of ultra-high modulus and molecular weight polyethylene fibers by high-temperature wide-angle X-ray diffraction. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1997, 35, 623-630.	2.4	46
67	Synthesis of Cellulose Nanofibril Bound Silver Nanoprism for Surface Enhanced Raman Scattering. <i>Biomacromolecules</i> , 2014, 15, 3608-3616.	2.6	46
68	Surface and Structure Characteristics, Self-Assembling, and Solvent Compatibility of Holocellulose Nanofibrils. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 4192-4201.	4.0	45
69	Cellulose nanofibrils improve dispersibility and stability of silver nanoparticles and induce production of bacterial extracellular polysaccharides. <i>Journal of Materials Chemistry B</i> , 2014, 2, 6226.	2.9	44
70	Liquid Wetting, Transport, and Retention Properties of Fibrous Assemblies: Part II: Water Wetting and Retention of 100% and Blended Woven Fabrics. <i>Textile Research Journal</i> , 1992, 62, 697-704.	1.1	43
71	Surface methacrylation and graft copolymerization of ultrafine cellulose fibers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2003, 41, 953-964.	2.4	43
72	Crosslinking of polyvinyl alcohol (PVA) fibrous membranes with glutaraldehyde and PEG diacylchloride. <i>Journal of Applied Polymer Science</i> , 2010, 116, 3249-3255.	1.3	43

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73	1D and 2D NMR of nanocellulose in aqueous colloidal suspensions. Carbohydrate Polymers, 2014, 110, 360-366.	5.1	41
74	Aqueous Synthesis of Compressible and Thermally Stable Cellulose Nanofibril-Silica Aerogel for CO ₂ Adsorption. ACS Applied Nano Materials, 2018, 1, 6701-6710.	2.4	40
75	Residual reactivity for surface grafting of acrylic acid on argon glow-discharged poly(ethylene) Tj ETQq1 1 0.784314 ggBT /Overlock 10	1.5	39
76	Direct Scouring of Greige Cotton Fabrics with Proteases. Textile Reseach Journal, 2001, 71, 425-434.	1.1	39
77	First report of electrospun cellulose acetate nanofibers mats with chitin and chitosan nanowhiskers: Fabrication, characterization, and antibacterial activity. Carbohydrate Polymers, 2020, 250, 116954.	5.1	39
78	Synthesis and Properties of a Novel Water-Soluble Lactose-Containing Polymer and Its Cross-Linked Hydrogel. Macromolecules, 1997, 30, 7063-7068.	2.2	38
79	Synthesis and thermal properties of a novel lactose-containing poly(N-isopropylacrylamide-co-acrylamidolactamine) hydrogel. Journal of Polymer Science Part A, 1999, 37, 1393-1402.	2.5	36
80	Synthesis and Characterization of New Styrene Main-Chain Polymer with Pendant Lactose Moiety through Urea Linkage. Macromolecules, 1999, 32, 5507-5513.	2.2	36
81	Acrylonitrile graft copolymerization of casein proteins for enhanced solubility and thermal properties. Journal of Applied Polymer Science, 2000, 77, 2543-2551.	1.3	36
82	The adherence of <i>Staphylococcus aureus</i> , <i>Staphylococcus epidermidis</i> and <i>Escherichia coli</i> on cotton, polyester and their blends. Journal of Applied Bacteriology, 1986, 60, 535-544.	1.1	35
83	Absorption and transport properties of ultra-fine cellulose webs. Journal of Colloid and Interface Science, 2011, 353, 290-293.	5.0	35
84	Aqueous exfoliated graphene by amphiphilic nanocellulose and its application in moisture-responsive foldable actuators. Nanoscale, 2019, 11, 11719-11729.	2.8	35
85	Wetting characteristics of poly(p-phenylene terephthalamide) single fibers and their adhesion to epoxy. Journal of Colloid and Interface Science, 1991, 144, 127-144.	5.0	34
86	Dual temperature- and pH-sensitive hydrogels from interpenetrating networks and copolymerization of N-isopropylacrylamide and sodium acrylate. Journal of Polymer Science Part A, 2004, 42, 3293-3301.	2.5	34
87	Preparation of Water-Absorbing Polyacrylonitrile Nanofibrous Membrane. Macromolecular Rapid Communications, 2006, 27, 142-145.	2.0	34
88	Study on molecular interaction behavior, and thermal and mechanical properties of polyacrylic acid and lactose blends. Journal of Applied Polymer Science, 2001, 82, 1921-1927.	1.3	31
89	Organic compatible polyacrylamide hydrogel fibers. Polymer, 2009, 50, 3670-3679.	1.8	31
90	Solvent- and glow-discharge-induced surface wetting and morphological changes of poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.3	30

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91	Proteases as Scouring Agents for Cotton. <i>Textile Research Journal</i> , 1999, 69, 590-597.	1.1	30
92	Ionic absorption of polypropylene functionalized by surface grafting and reactions. <i>Journal of Polymer Science Part A</i> , 1997, 35, 631-642.	2.5	28
93	Chlorine degradation of polyether-based polyurethane. <i>Journal of Polymer Science Part A</i> , 1997, 35, 3263-3273.	2.5	28
94	Melting behavior of ultra-high modulus and molecular weight polyethylene (UHMWPE) fibers. <i>Journal of Applied Polymer Science</i> , 1994, 53, 347-354.	1.3	27
95	Relationship of substratum wettability measurements and initial <i>Staphylococcus aureus</i> adhesion to films and fabrics. <i>Journal of Colloid and Interface Science</i> , 1988, 123, 275-286.	5.0	26
96	Alkaline Cellulose Nanofibrils from Streamlined Alkali Treated Rice Straw. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 1730-1737.	3.2	26
97	Single Fiber Strength Variations of Developing Cotton Fibers—Strength and Structure of <i>G. hirsutum</i> and <i>G. barbedense</i> . <i>Textile Research Journal</i> , 2000, 70, 682-690.	1.1	25
98	Lactitol-Based Poly(ether polyol) Hydrogels for Controlled Release Chemical and Drug Delivery Systems. <i>Journal of Agricultural and Food Chemistry</i> , 2000, 48, 5278-5282.	2.4	25
99	Dual Wet and Dry Resilient Cellulose II Fibrous Aerogel for Hydrocarbon—Water Separation and Energy Storage Applications. <i>ACS Omega</i> , 2018, 3, 3530-3539.	1.6	25
100	Layer-by-layer self-assembly of Cibacron Blue F3GA and lipase on ultra-fine cellulose fibrous membrane. <i>Journal of Membrane Science</i> , 2010, 348, 21-27.	4.1	24
101	Sulfated Cellulose Nanofibrils from Chlorosulfonic Acid Treatment and Their Wet Spinning into High-Strength Fibers. <i>Biomacromolecules</i> , 2022, 23, 1269-1277.	2.6	24
102	Bacteriophages immobilized on electrospun cellulose microfibers by non-specific adsorption, protein—ligand binding, and electrostatic interactions. <i>Cellulose</i> , 2017, 24, 4581-4589.	2.4	20
103	Surface modification of flax nonwovens for the development of sustainable, high performance, and durable calcium aluminate cement composites. <i>Composites Part B: Engineering</i> , 2020, 191, 107955.	5.9	20
104	Kinetics of Metal Ion Absorption on Ion-Exchange and Chelating Fibers. <i>Industrial & Engineering Chemistry Research</i> , 1996, 35, 3817-3821.	1.8	18
105	Anisotropic Dimensional Swelling of Membranes of Ultrafine Hydrogel Fibers. <i>Macromolecular Chemistry and Physics</i> , 2005, 206, 1745-1751.	1.1	18
106	Tunable dialdehyde/dicarboxylate nanocelluloses by stoichiometrically optimized sequential periodate—chlorite oxidation for tough and wet shape recoverable aerogels. <i>Nanoscale Advances</i> , 2020, 2, 5623-5634.	2.2	16
107	Ultrafine Cellulose Acetate Fibers with Nanoscale Structural Features. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 4461-4469.	0.9	15
108	Self-assembled monolayer of 3-mercaptopropionic acid on electrospun polystyrene membranes for Cu ²⁺ detection. <i>Sensors and Actuators B: Chemical</i> , 2012, 161, 322-328.	4.0	15

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109	Aldehyde functionalized cellulose support for hydrogels. <i>Journal of Applied Polymer Science</i> , 2010, 118, 2489-2495.	1.3	10
110	Tubular multi-layer polysaccharide biofilms on ultra-thin cellulose fibers. <i>Journal of Applied Polymer Science</i> , 2011, 121, 2526-2534.	1.3	8
111	Amphoteric Soy Protein-Rich Fibers for Rapid and Selective Adsorption and Desorption of Ionic Dyes. <i>ACS Omega</i> , 2020, 5, 634-642.	1.6	8
112	Hydrophilic polystyrene/maleic anhydride ultrafine fibrous membranes. <i>Journal of Applied Polymer Science</i> , 2010, 115, 723-730.	1.3	7
113	Synthesis of ultrafine poly(styrene-maleic anhydride) and polystyrene fibers by electrospinning. <i>Journal of Applied Polymer Science</i> , 2009, 113, 2709-2718.	1.3	6
114	Amphiphilic and amphoteric aqueous soy protein colloids and their cohesion and adhesion to cellulose. <i>Industrial Crops and Products</i> , 2020, 144, 112041.	2.5	6
115	Phosphorylated cellulose nanofibrils from sugarcane bagasse with pH tunable gelation. <i>Carbohydrate Polymer Technologies and Applications</i> , 2021, 2, 100085.	1.6	6
116	Almond shell nanocellulose: Characterization and self-assembling into fibers, films, and aerogels. <i>Industrial Crops and Products</i> , 2022, 186, 115188.	2.5	6
117	Amphiphilic Protein Microfibrils from Ice-Templated Self-Assembly and Disassembly of Pickering Emulsions. <i>ACS Applied Bio Materials</i> , 2020, 3, 2473-2481.	2.3	5
118	Rice Straw Nanocelluloses: Process-Linked Structures, Properties, and Self-Assembling into Ultra-Fine Fibers. <i>ACS Symposium Series</i> , 2017, , 133-150.	0.5	4
119	Synthesis and metal complexation of dihydroxyphosphino-functionalized crosslinked styrene/maleic anhydride copolymers. <i>Journal of Polymer Science Part A</i> , 2004, 42, 92-101.	2.5	3
120	Hydrophobic 2,7-Octadienyl Ether-Cellulose Nanofibrils Using Butadiene Sulfone as the Dual Reagent and Medium. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 6489-6498.	3.2	3
121	One-pot synthesis of 2-bromopropionyl esterified cellulose nanofibrils as hydrophobic coating and film. <i>RSC Advances</i> , 2022, 12, 15070-15082.	1.7	3
122	Lipase Immobilization on Ultrafine Poly(acrylic acid)-Poly(vinyl alcohol) Hydrogel Fibers. <i>ACS Symposium Series</i> , 2008, , 129-143.	0.5	2
123	Tunable surface wettability and pH-responsive 2D structures from amphiphilic and amphoteric protein microfibrils. <i>RSC Advances</i> , 2020, 10, 33033-33039.	1.7	2
124	Photonic Thin Films Assembled from Amphiphilic Cellulose Nanofibrils Displaying Iridescent Full-Colors. <i>ACS Applied Bio Materials</i> , 2020, 3, 4522-4530.	2.3	2
125	Organic and aqueous compatible polystyrene-maleic anhydride copolymer ultra-fine fibrous membranes. <i>Journal of Applied Polymer Science</i> , 2009, 114, 784-793.	1.3	1