You-Lo Hsieh

List of Publications by Year in Descending Order

125 papers	8,613 citations	50 h-index	91 g-index
128 ext. papers	9,521 ext. citations	5.7 avg, IF	6.9 L-index

#	Paper	IF	Citations
125	One-pot synthesis of 2-bromopropionyl esterified cellulose nanofibrils as hydrophobic coating and film. *RSC Advances*, **2022**, 12, 15070-15082	3.7	1
124	Hydrophobic 2,7-Octadienyl Ether-Cellulose Nanofibrils Using Butadiene Sulfone as the Dual Reagent and Medium. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 6489-6498	8.3	2
123	Phosphorylated cellulose nanofibrils from sugarcane bagasse with pH tunable gelation. *Carbohydrate Polymer Technologies and Applications*, **2021**, 2, 100085	1.7	2
122	Tunable dialdehyde/dicarboxylate nanocelluloses by stoichiometrically optimized sequential periodate–chlorite oxidation for tough and wet shape recoverable aerogels. *Nanoscale Advances*, **2020**, 2, 5623-5634	5.1	6
121	Photonic Thin Films Assembled from Amphiphilic Cellulose Nanofibrils Displaying Iridescent Full-Colors.. *ACS Applied Bio Materials*, **2020**, 3, 4522-4530	4.1	1
120	Surface modification of flax nonwovens for the development of sustainable, high performance, and durable calcium aluminate cement composites. *Composites Part B: Engineering*, **2020**, 191, 107955	10	11
119	Amphoteric Soy Protein-Rich Fibers for Rapid and Selective Adsorption and Desorption of Ionic Dyes. *ACS Omega*, **2020**, 5, 634-642	3.9	4
118	First report of electrospun cellulose acetate nanofibers mats with chitin and chitosan nanowhiskers: Fabrication, characterization, and antibacterial activity. *Carbohydrate Polymers*, **2020**, 250, 116954	10.3	16
117	Nanocellulose aerogel-based porous coaxial fibers for thermal insulation. *Nano Energy*, **2020**, 68, 104305	17.1	47
116	Amphiphilic and amphoteric aqueous soy protein colloids and their cohesion and adhesion to cellulose. *Industrial Crops and Products*, **2020**, 144, 112041	5.9	5
115	Tunable surface wettability and pH-responsive 2D structures from amphiphilic and amphoteric protein microfibrils.. *RSC Advances*, **2020**, 10, 33033-33039	3.7	2
114	Amphiphilic Protein Microfibrils from Ice-Templated Self-Assembly and Disassembly of Pickering Emulsions.. *ACS Applied Bio Materials*, **2020**, 3, 2473-2481	4.1	2
113	Aqueous exfoliated graphene by amphiphilic nanocellulose and its application in moisture-responsive foldable actuators. *Nanoscale*, **2019**, 11, 11719-11729	7.7	17
112	Dual Wet and Dry Resilient Cellulose II Fibrous Aerogel for Hydrocarbon-Water Separation and Energy Storage Applications. *ACS Omega*, **2018**, 3, 3530-3539	3.9	20
111	Conductive Polymer Protonated Nanocellulose Aerogels for Tunable and Linearly Responsive Strain Sensors. *ACS Applied Materials & Interfaces*, **2018**, 10, 27902-27910	9.5	50
110	Cellulose Nanofibers: Electrospinning and Nanocellulose Self-Assemblies **2018**, 67-95		11
109	Aqueous Synthesis of Compressible and Thermally Stable Cellulose Nanofibril–Silica Aerogel for CO2 Adsorption. *ACS Applied Nano Materials*, **2018**, 1, 6701-6710	5.6	24

108	Cellulose Nanofibril Aerogels: Synergistic Improvement of Hydrophobicity, Strength, and Thermal Stability via Cross-Linking with Diisocyanate. *ACS Applied Materials & Interfaces*, **2017**, 9, 2825-2834	9.5	105
107	Adsorption and desorption of cationic malachite green dye on cellulose nanofibril aerogels. *Carbohydrate Polymers*, **2017**, 173, 286-294	10.3	162
106	Lignin derived activated carbon particulates as an electric supercapacitor: carbonization and activation on porous structures and microstructures. *RSC Advances*, **2017**, 7, 30459-30468	3.7	50
105	Alkaline Cellulose Nanofibrils from Streamlined Alkali Treated Rice Straw. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 1730-1737	8.3	16
104	Rice Straw Nanocelluloses: Process-Linked Structures, Properties, and Self-Assembling into Ultra-Fine Fibers. *ACS Symposium Series*, **2017**, 133-150	0.4	3
103	Bacteriophages immobilized on electrospun cellulose microfibers by non-specific adsorption, protein□gand binding, and electrostatic interactions. *Cellulose*, **2017**, 24, 4581-4589	5.5	12
102	Chitin and Chitosan-Based (NANO) Composites **2017**, 671-700		3
101	Silver nanoparticle synthesis using lignin as reducing and capping agents: A kinetic and mechanistic study. *International Journal of Biological Macromolecules*, **2016**, 82, 856-62	7.9	58
100	Holistic Rice Straw Nanocellulose and Hemicelluloses/Lignin Composite Films. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 728-737	8.3	32
99	Rice Straw Cellulose Nanofibrils via Aqueous Counter Collision and Differential Centrifugation and Their Self-Assembled Structures. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 1697-1706	8.3	46
98	Self-assembling of TEMPO Oxidized Cellulose Nanofibrils As Affected by Protonation of Surface Carboxyls and Drying Methods. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 1041-1049	8.3	94
97	Coaxial Electrospun Cellulose-Core Fluoropolymer-Shell Fibrous Membrane from Recycled Cigarette Filter as Separator for High Performance Lithium-Ion Battery. *ACS Sustainable Chemistry and Engineering*, **2015**, 3, 932-940	8.3	84
96	Holocellulose nanocrystals: amphiphilicity, oil/water emulsion, and self-assembly. *Biomacromolecules*, **2015**, 16, 1433-41	6.9	51
95	1D Lignin-Based Solid Acid Catalysts for Cellulose Hydrolysis to Glucose and Nanocellulose. *ACS Sustainable Chemistry and Engineering*, **2015**, 3, 2566-2574	8.3	46
94	Synthesis of surface bound silver nanoparticles on cellulose fibers using lignin as multi-functional agent. *Carbohydrate Polymers*, **2015**, 131, 134-41	10.3	50
93	Cellulose nanocrystal isolation from tomato peels and assembled nanofibers. *Carbohydrate Polymers*, **2015**, 122, 60-8	10.3	191
92	Surface and structure characteristics, self-assembling, and solvent compatibility of holocellulose nanofibrils. *ACS Applied Materials & Interfaces*, **2015**, 7, 4192-201	9.5	39
91	(1)H NMR and (1)H-(13)C HSQC surface characterization of chitosan-chitin sheath-core nanowhiskers. *Carbohydrate Polymers*, **2015**, 123, 46-52	10.3	42

90	Amphiphilic superabsorbent cellulose nanofibril aerogels. *Journal of Materials Chemistry A*, **2014**, 2, 6337-6342	19	306
89	Biocompatible sodium alginate fibers by aqueous processing and physical crosslinking. *Carbohydrate Polymers*, **2014**, 102, 893-900	10.3	54
88	Chitosan-sheath and chitin-core nanowhiskers. *Carbohydrate Polymers*, **2014**, 107, 158-66	10.3	69
87	1D and 2D NMR of nanocellulose in aqueous colloidal suspensions. *Carbohydrate Polymers*, **2014**, 110, 360-6	10.3	32
86	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	13	182
85	Assembling and redispersibility of rice straw nanocellulose: effect of tert-butanol. *ACS Applied Materials & Interfaces*, **2014**, 6, 20075-84	9.5	68
84	High energy density supercapacitors from lignin derived submicron activated carbon fibers in aqueous electrolytes. *Journal of Power Sources*, **2014**, 270, 106-112	8.9	180
83	Synthesis of cellulose nanofibril bound silver nanoprism for surface enhanced Raman scattering. *Biomacromolecules*, **2014**, 15, 3608-16	6.9	36
82	Cellulose nanofibrils improve dispersibility and stability of silver nanoparticles and induce production of bacterial extracellular polysaccharides. *Journal of Materials Chemistry B*, **2014**, 2, 6226-6235	7.3	38
81	Preparation of Activated Carbon and Silica Particles from Rice Straw. *ACS Sustainable Chemistry and Engineering*, **2014**, 2, 726-734	8.3	43
80	Cellulose nanocrystals and self-assembled nanostructures from cotton, rice straw and grape skin: a source perspective. *Journal of Materials Science*, **2013**, 48, 7837-7846	4.3	59
79	Ultrafine microporous and mesoporous activated carbon fibers from alkali lignin. *Journal of Materials Chemistry A*, **2013**, 1, 11279	13	92
78	Chemically and mechanically isolated nanocellulose and their self-assembled structures. *Carbohydrate Polymers*, **2013**, 95, 32-40	10.3	365
77	Controlled defibrillation of rice straw cellulose and self-assembly of cellulose nanofibrils into highly crystalline fibrous materials. *RSC Advances*, **2013**, 3, 12366	3.7	91
76	Preparation of Amidoxime Polyacrylonitrile Chelating Nanofibers and Their Application for Adsorption of Metal Ions. *Materials*, **2013**, 6, 969-980	3.5	103
75	Self-assembled monolayer of 3-mercaptopropionic acid on electrospun polystyrene membranes for Cu2+ detection. *Sensors and Actuators B: Chemical*, **2012**, 161, 322-328	8.5	14
74	Highly pure amorphous silica nano-disks from rice straw. *Powder Technology*, **2012**, 225, 149-155	5.2	121
73	Preparation and characterization of cellulose nanocrystals from rice straw. *Carbohydrate Polymers*, **2012**, 87, 564-573	10.3	394

72	Cellulose isolation and core-shell nanostructures of cellulose nanocrystals from chardonnay grape skins. *Carbohydrate Polymers*, **2012**, 87, 2546-2553	10.3	113
71	Effects of polymer matrices to the formation of silicon carbide (SiC) nanoporous fibers and nanowires under carbothermal reduction. *Journal of Materials Chemistry*, **2011**, 21, 1005-1012		41
70	Tubular multi-bilayer polysaccharide biofilms on ultra-thin cellulose fibers. *Journal of Applied Polymer Science*, **2011**, 121, 2526-2534	2.9	8
69	Absorption and transport properties of ultra-fine cellulose webs. *Journal of Colloid and Interface Science*, **2011**, 353, 290-3	9.3	34
68	Multiwalled carbon nanotube (MWCNT) reinforced cellulose fibers by electrospinning. *ACS Applied Materials & Interfaces*, **2010**, 2, 2413-20	9.5	109
67	Dissolution behaviour and solubility of cellulose in NaOH complex solution. *Carbohydrate Polymers*, **2010**, 81, 668-674	10.3	88
66	Layer-by-layer self-assembly of Cibacron Blue F3GA and lipase on ultra-fine cellulose fibrous membrane. *Journal of Membrane Science*, **2010**, 348, 21-27	9.6	23
65	Hydrophilic polystyrene/maleic anhydride ultrafine fibrous membranes. *Journal of Applied Polymer Science*, **2010**, 115, 723-730	2.9	6
64	Aldehyde functionalized cellulose support for hydrogels. *Journal of Applied Polymer Science*, **2010**, 118, 2489-2495	2.9	10
63	Crosslinking of polyvinyl alcohol (PVA) fibrous membranes with glutaraldehyde and PEG diacylchloride. *Journal of Applied Polymer Science*, **2010**, 116, NA-NA	2.9	16
62	Preparation and properties of cellulose nanocrystals: Rods, spheres, and network. *Carbohydrate Polymers*, **2010**, 82, 329-336	10.3	602
61	Synthesis of ultrafine poly(styrene-maleic anhydride) and polystyrene fibers by electrospinning. *Journal of Applied Polymer Science*, **2009**, 113, 2709-2718	2.9	6
60	Organic and aqueous compatible polystyrene-maleic anhydride copolymer ultra-fine fibrous membranes. *Journal of Applied Polymer Science*, **2009**, 114, 784-793	2.9	1
59	Cellulose/chitosan hybrid nanofibers from electrospinning of their ester derivatives. *Cellulose*, **2009** , 16, 247-260	5.5	77
58	Lipase bound cellulose nanofibrous membrane via Cibacron Blue F3GA affinity ligand. *Journal of Membrane Science*, **2009**, 330, 288-296	9.6	46
57	Carbon nanofibers with nanoporosity and hollow channels from binary polyacrylonitrile systems. *European Polymer Journal*, **2009**, 45, 47-56	5.2	54
56	Organic compatible polyacrylamide hydrogel fibers. *Polymer*, **2009**, 50, 3670-3679	3.9	25
55	Macroporous silicon oxycarbide fibers with luffa-like superhydrophobic shells. *Journal of the American Chemical Society*, **2009**, 131, 10346-7	16.4	49

54	Cellulose nanocrystal-filled poly(acrylic acid) nanocomposite fibrous membranes. *Nanotechnology*, **2009**, 20, 415604	3.4	87
53	Lipase Immobilization on Ultrafine Poly(acrylic acid)-Poly(vinyl alcohol) Hydrogel Fibers. *ACS Symposium Series*, **2008**, 129-143	0.4	2
52	Ultrafine cellulose acetate fibers with nanoscale structural features. *Journal of Nanoscience and Nanotechnology*, **2008**, 8, 4461-9	1.3	15
51	Immobilization of lipase enzyme in polyvinyl alcohol (PVA) nanofibrous membranes. *Journal of Membrane Science*, **2008**, 309, 73-81	9.6	142
50	Ultra-fine cellulose acetate/poly(ethylene oxide) bicomponent fibers. *Carbohydrate Polymers*, **2008**, 71, 196-207	10.3	48
49	Nanofibrous membranes from aqueous electrospinning of carboxymethyl chitosan. *Nanotechnology* , **2008**, 19, 125707	3.4	73
48	PEGylation of chitosan for improved solubility and fiber formation via electrospinning. *Cellulose*, **2007**, 14, 543-552	5.5	73
47	Surface modification of cellulose with plant triglycerides for hydrophobicity. *Cellulose*, **2007**, 14, 469-480	5.5	81
46	Chitosan bicomponent nanofibers and nanoporous fibers. *Carbohydrate Research*, **2006**, 341, 374-81	2.9	233
45	Preparation of Water-Absorbing Polyacrylonitrile Nanofibrous Membrane. *Macromolecular Rapid Communications*, **2006**, 27, 142-145	4.8	30
44	Nanoporous ultrahigh specific surface polyacrylonitrile fibres. *Nanotechnology*, **2006**, 17, 4416-4423	3.4	92
43	Ultra-fine polyelectrolyte hydrogel fibres from poly(acrylic acid)/poly(vinyl alcohol). *Nanotechnology*, **2005**, 16, 2852-2860	3.4	87
42	pH-responsive swelling behavior of poly(vinyl alcohol)/poly(acrylic acid) bi-component fibrous hydrogel membranes. *Polymer*, **2005**, 46, 5149-5160	3.9	165
41	Enzyme immobilization on ultrafine cellulose fibers via poly(acrylic acid) electrolyte grafts. *Biotechnology and Bioengineering*, **2005**, 90, 405-13	4.9	74
40	Anisotropic Dimensional Swelling of Membranes of Ultrafine Hydrogel Fibers. *Macromolecular Chemistry and Physics*, **2005**, 206, 1745-1751	2.6	16
39	Ultra-fine polyelectrolyte fibers from electrospinning of poly(acrylic acid). *Polymer*, **2005**, 46, 5133-5139	3.9	134
38	Enzyme immobilization to ultra-fine cellulose fibers via amphiphilic polyethylene glycol spacers. *Journal of Polymer Science Part A*, **2004**, 42, 4289-4299	2.5	101
37	Synthesis and metal complexation of dihydroxyphosphino-functionalized crosslinked styrene/maleic anhydride copolymers. *Journal of Polymer Science Part A*, **2004**, 42, 92-101	2.5	3

36	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	30
35	Ultrafine hydrogel fibers with dual temperature- and pH-responsive swelling behaviors. *Journal of Polymer Science Part A*, **2004**, 42, 6331-6339	2.5	96
34	Synthesis of polystyrene-supported dithiocarbamates and their complexation with metal ions. *Journal of Applied Polymer Science*, **2004**, 92, 218-225	2.9	40
33	Ultra-high surface fibrous membranes from electrospinning of natural proteins: casein and lipase enzyme. *Journal of Materials Science*, **2003**, 38, 2125-2133	4.3	185
32	Thermosensitive poly(n-isopropylacrylamide) hydrogels bonded on cellulose supports. *Journal of Applied Polymer Science*, **2003**, 89, 999-1006	2.9	59
31	Surface methacrylation and graft copolymerization of ultrafine cellulose fibers. *Journal of Polymer Science, Part B: Polymer Physics*, **2003**, 41, 953-964	2.6	33
30	Ultrafine fibrous cellulose membranes from electrospinning of cellulose acetate. *Journal of Polymer Science, Part B: Polymer Physics*, **2002**, 40, 2119-2129	2.6	483
29	Wetting and absorbency of nonionic surfactant solutions on cotton fabrics. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2001**, 187-188, 385-397	5.1	82
28	Enzyme-catalyzed transesterification of vinyl esters on cellulose solids. *Journal of Polymer Science Part A*, **2001**, 39, 1931-1939	2.5	51
27	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	2.9	29
26	Effect of Fiber Swelling on the Structure of Lyocell Fabrics. *Textile Reseach Journal*, **2001**, 71, 164-173	1.7	49
25	Direct Scouring of Greige Cotton Fabrics with Proteases. *Textile Reseach Journal*, **2001**, 71, 425-434	1.7	35
24	Acrylonitrile graft copolymerization of casein proteins for enhanced solubility and thermal properties. *Journal of Applied Polymer Science*, **2000**, 77, 2543-2551	2.9	35
23	Single Fiber Strength Variations of Developing Cotton Fibers: Strength and Structure of G. hirsutum and G. barbedense. *Textile Reseach Journal*, **2000**, 70, 682-690	1.7	15
22	Characterizing the Noncellulosics in Developing Cotton Fibers. *Textile Reseach Journal*, **2000**, 70, 810-819	1.7	51
21	Lactitol-based poly(ether polyol) hydrogels for controlled release chemical and drug delivery systems. *Journal of Agricultural and Food Chemistry*, **2000**, 48, 5278-82	5.7	21
20	Proteases as Scouring Agents for Cotton. *Textile Reseach Journal*, **1999**, 69, 590-597	1.7	28
19	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	35

18	Synthesis and Characterization of New Styrene Main-Chain Polymer with Pendant Lactose Moiety through Urea Linkage. *Macromolecules*, **1999**, 32, 5507-5513	5.5	34
17	Enzymatic Scouring to Improve Cotton Fabric Wettability. *Textile Reseach Journal*, **1998**, 68, 233-241	1.7	109
16	Enzymatic Hydrolysis to Improve Wetting and Absorbency of Polyester Fabrics. *Textile Reseach Journal*, **1998**, 68, 311-319	1.7	79
15	Synthesis and Properties of a Novel Water-Soluble Lactose-Containing Polymer and Its Cross-Linked Hydrogel. *Macromolecules*, **1997**, 30, 7063-7068	5.5	37
14	Structural transformation of ultra-high modulus and molecular weight polyethylene fibers by high-temperature wide-angle X-ray diffraction. *Journal of Polymer Science, Part B: Polymer Physics*, **1997**, 35, 623-630	2.6	45
13	Ionic absorption of polypropylene functionalized by surface grafting and reactions. *Journal of Polymer Science Part A*, **1997**, 35, 631-642	2.5	26
12	Chlorine degradation of polyether-based polyurethane. *Journal of Polymer Science Part A*, **1997**, 35, 3263-3273	2.5	26
11	Kinetics of Metal Ion Absorption on Ion-Exchange and Chelating Fibers. *Industrial & Engineering Chemistry Research*, **1996**, 35, 3817-3821	3.9	18
10	Crystalline structure of developing cotton fibers. *Journal of Polymer Science, Part B: Polymer Physics* , **1996**, 34, 1451-1459	2.6	63
9	Liquid Transport in Fabric Structures. *Textile Reseach Journal*, **1995**, 65, 299-307	1.7	186
8	Melting behavior of ultra-high modulus and molecular weight polyethylene (UHMWPE) fibers. *Journal of Applied Polymer Science*, **1994**, 53, 347-354	2.9	26
7	Liquid Wetting, Transport, and Retention Properties of Fibrous Assemblies: Part I: Water Wetting Properties of Woven Fabrics and Their Constituent Single Fibers. *Textile Reseach Journal*, **1992**, 62, 677-685	1.7	107
6	Liquid Wetting, Transport, and Retention Properties of Fibrous Assemblies: Part II: Water Wetting and Retention of 100% and Blended Woven Fabrics. *Textile Reseach Journal*, **1992**, 62, 697-704	1.7	40
5	Wetting characteristics of poly(p-phenylene terephthalamide) single fibers and their adhesion to epoxy. *Journal of Colloid and Interface Science*, **1991**, 144, 127-144	9.3	28
4	Residual reactivity for surface grafting of acrylic acid on argon glow-discharged poly(ethylene terephthalate) (PET) films. *Journal of Applied Polymer Science*, **1991**, 43, 2067-2082	2.9	32
3	Solvent- and glow-discharge-induced surface wetting and morphological changes of poly(ethylene terephthalate) (PET). *Journal of Applied Polymer Science*, **1989**, 38, 1719-1737	2.9	29
2	Relationship of substratum wettability measurements and initial Staphylococcus aureau adhesion to films and fabrics. *Journal of Colloid and Interface Science*, **1988**, 123, 275-286	9.3	24
1	The adherence of Staphylococcus aureus, Staphylococcus epidermidis and Escherichia coli on cotton, polyester and their blends. *Journal of Applied Bacteriology*, **1986**, 60, 535-44		28