Ning Lin

List of Publications by Year in Descending Order

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59 papers	4,730 citations	25 h-index	61 g-index
61 ext. papers	5,351 ext. citations	6.9 avg, IF	6.3 L-index

#	Paper	IF	Citations
59	Chemical grafting fluoropolymer on cellulose nanocrystals and its rheological modification to perfluoropolyether oil. *Carbohydrate Polymers*, **2022**, 276, 118802	10.3	1
58	Hydrophobic and thermal-insulating aerogels based on rigid cellulose nanocrystal and elastic rubber. *Carbohydrate Polymers*, **2022**, 275, 118708	10.3	1
57	Tribological behavior of cellulose nanocrystal as an eco-friendly additive in lithium-based greases.. *Carbohydrate Polymers*, **2022**, 290, 119478	10.3	0
56	Electrostatic Adsorption and Cytotoxity of Cellulose Nanocrystals with Loading Trace Metal Elements. *Macromolecular Bioscience*, **2021**, e2100318	5.5	0
55	Quantitative Analysis of Compatibility and Dispersibility in Nanocellulose-Reinforced Composites: Hansen Solubility and Raman Mapping. *ACS Nano*, **2021**,	16.7	3
54	Surface-charged starch nanocrystals from glutinous rice: Preparation, crystalline properties and cytotoxicity. *International Journal of Biological Macromolecules*, **2021**, 192, 557-563	7.9	0
53	Water redispersion and cytotoxicity of reducing end-modified cellulose nanocrystals by grafting long-chain poly(ethylene oxide). *International Journal of Biological Macromolecules*, **2021**, 180, 143-151	7.9	2
52	Nitrogen-doped hierarchical porous carbon nanomaterial from cellulose nanocrystals for voltammetric determination of ascorbic acid. *Microchemical Journal*, **2021**, 168, 106494	4.8	2
51	Preparation and surface modification of crab nanochitin for organogels based on thiol-ene click cross-linking. *International Journal of Biological Macromolecules*, **2020**, 150, 756-764	7.9	6
50	Reducing end modification on cellulose nanocrystals: strategy, characterization, applications and challenges. *Nanoscale Horizons*, **2020**, 5, 607-627	10.8	41
49	Sustainable supercapacitors of nitrogen-doping porous carbon based on cellulose nanocrystals and urea. *International Journal of Biological Macromolecules*, **2020**, 164, 4095-4103	7.9	9
48	Regulating surface sulfonation on cellulose nanocrystals and self-assembly behaviors. *Chemical Communications*, **2020**, 56, 10958-10961	5.8	3
47	Friction reduction and viscosity modification of cellulose nanocrystals as biolubricant additives in polyalphaolefin oil. *Carbohydrate Polymers*, **2019**, 220, 228-235	10.3	26
46	Advanced Materials Based on Self-assembly of Cellulose Nanocrystals **2019**, 277-313		
45	Potential Application Based on Colloidal Properties of Cellulose Nanocrystals **2019**, 315-347		
44	Fluorescent Aerogels Based on Chemical Crosslinking between Nanocellulose and Carbon Dots for Optical Sensor. *ACS Applied Materials & Interfaces*, **2019**, 11, 16048-16058	9.5	68
43	Introduction to Nanocellulose **2019**, 1-20		3

42	Surface Chemistry of Nanocellulose **2019**, 115-153		7
41	Role of Cellulose Nanofibrils in Polymer Nanocomposites **2019**, 251-276		3
40	Exploration of Other High-Value Applications of Nanocellulose **2019**, 423-473		
39	Current Status of Nanocellulose-Based Nanocomposites **2019**, 155-200		3
38	Strategies to Explore Biomedical Application of Nanocellulose **2019**, 349-395		4
37	Application of Nanocellulose in Energy Materials and Devices **2019**, 397-421		1
36	Structure and Properties of Cellulose Nanocrystals **2019**, 21-52		0
35	Reinforcing Mechanism of Cellulose Nanocrystals in Nanocomposites **2019**, 201-249		10
34	Synthesis, Structure, and Properties of Bacterial Cellulose **2019**, 81-113		16
33	Structure and Properties of Cellulose Nanofibrils **2019**, 53-80		2
32	Dual-enhancement effect of electrostatic adsorption and chemical crosslinking for nanocellulose-based aerogels. *Industrial Crops and Products*, **2019**, 139, 111580	5.9	25
31	Double-Network Formation and Mechanical Enhancement of Reducing End-Modified Cellulose Nanocrystals to the Thermoplastic Elastomer Based on Click Reaction and Bulk Cross-Linking. *Macromolecules*, **2019**, 52, 5894-5906	5.5	29
30	Physical Modification of Cellulose Nanocrystals with a Synthesized Triblock Copolymer and Rheological Thickening in Silicone Oil/Grease. *Biomacromolecules*, **2019**, 20, 4457-4465	6.9	13
29	Nanopolysaccharides in Environmental Treatments. *Springer Series in Biomaterials Science and Engineering*, **2019**, 255-282	0.6	0
28	Nanocellulose in High-Value Applications for Reported Trial and Commercial Products. *Springer Series in Biomaterials Science and Engineering*, **2019**, 389-409	0.6	4
27	Advances in cellulose nanomaterials. *Cellulose*, **2018**, 25, 2151-2189	5.5	221
26	High-Adsorption, Self-Extinguishing, Thermal, and Acoustic-Resistance Aerogels Based on Organic and Inorganic Waste Valorization from Cellulose Nanocrystals and Red Mud. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 7168-7180	8.3	50
25	Self-bonding sandwiched membranes from PDMS and cellulose nanocrystals by engineering strategy of layer-by-layer curing. *Composites Science and Technology*, **2018**, 161, 8-15	8.6	14

24	Simultaneous enhancement of elasticity and strength of AlO-based ceramics body from cellulose nanocrystals via gel-casting process. *Carbohydrate Polymers*, **2018**, 181, 111-118	10.3	13
23	Electrochemical chiral sensor based on cellulose nanocrystals and multiwall carbon nanotubes for discrimination of tryptophan enantiomers. *Cellulose*, **2018**, 25, 3861-3871	5.5	14
22	Triazole End-Grafting on Cellulose Nanocrystals for Water-Redispersion Improvement and Reactive Enhancement to Nanocomposites. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 14888-14900	8.3	26
21	Preparation of fungus-derived chitin nanocrystals and their dispersion stability evaluation in aqueous media. *Carbohydrate Polymers*, **2017**, 173, 610-618	10.3	21
20	Recent developments on nanocellulose reinforced polymer nanocomposites: A review. *Polymer*, **2017**, 132, 368-393	3.9	346
19	Focus on Gradientwise Control of the Surface Acetylation of Cellulose Nanocrystals to Optimize Mechanical Reinforcement for Hydrophobic Polyester-Based Nanocomposites. *ACS Omega*, **2017**, 2, 4725-4736	3.9	35
18	Humidity-Sensitive and Conductive Nanopapers from Plant-Derived Proteins with a Synergistic Effect of Platelet-Like Starch Nanocrystals and Sheet-Like Graphene. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 9431-9440	8.3	15
17	Biocompatible Double-Membrane Hydrogels from Cationic Cellulose Nanocrystals and Anionic Alginate as Complexing Drugs Codelivery. *ACS Applied Materials & Interfaces*, **2016**, 8, 6880-9	9.5	138
16	Reinforcement and nucleation of acetylated cellulose nanocrystals in foamed polyester composites. *Carbohydrate Polymers*, **2015**, 129, 208-15	10.3	69
15	Highly alkynyl-functionalization of cellulose nanocrystals and advanced nanocomposites thereof via click chemistry. *Polymer Chemistry*, **2015**, 6, 4385-4395	4.9	56
14	Mechanical reinforcement of cellulose nanocrystals on biodegradable microcellular foams with melt-compounding process. *Cellulose*, **2015**, 22, 2629-2639	5.5	29
13	Green bionanocomposites from high-elasticity soft polyurethane and high-crystallinity rigid chitin nanocrystals with controlled surface acetylation. *RSC Advances*, **2014**, 4, 49098-49107	3.7	18
12	Nanocellulose in biomedicine: Current status and future prospect. *European Polymer Journal*, **2014**, 59, 302-325	5.2	1013
11	Surface chemistry, morphological analysis and properties of cellulose nanocrystals with gradiented sulfation degrees. *Nanoscale*, **2014**, 6, 5384-93	7.7	332
10	Physical and/or Chemical Compatibilization of Extruded Cellulose Nanocrystal Reinforced Polystyrene Nanocomposites. *Macromolecules*, **2013**, 46, 5570-5583	5.5	168
9	Supramolecular hydrogels from in situ host-guest inclusion between chemically modified cellulose nanocrystals and cyclodextrin. *Biomacromolecules*, **2013**, 14, 871-80	6.9	173
8	TEMPO-oxidized nanocellulose participating as crosslinking aid for alginate-based sponges. *ACS Applied Materials & Interfaces*, **2012**, 4, 4948-59	9.5	225
7	Preparation, properties and applications of polysaccharide nanocrystals in advanced functional nanomaterials: a review. *Nanoscale*, **2012**, 4, 3274-94	7.7	667

6	Preparation, Modification, and Application of Starch Nanocrystals in Nanomaterials: A Review. *Journal of Nanomaterials*, **2011**, 2011, 1-13	3.2	68
5	Effect of polysaccharide nanocrystals on structure, properties, and drug release kinetics of alginate-based microspheres. *Colloids and Surfaces B: Biointerfaces*, **2011**, 85, 270-9	6	155
4	Poly(butylene succinate)-based biocomposites filled with polysaccharide nanocrystals: Structure and properties. *Polymer Composites*, **2011**, 32, 472-482	3	77
3	Structure and properties of poly(butylene succinate) filled with lignin: A case of lignosulfonate. *Journal of Applied Polymer Science*, **2011**, 121, 1717-1724	2.9	30
2	Surface acetylation of cellulose nanocrystal and its reinforcing function in poly(lactic acid). *Carbohydrate Polymers*, **2011**, 83, 1834-1842	10.3	294
1	Effects of polymer-grafted natural nanocrystals on the structure and mechanical properties of poly(lactic acid): A case of cellulose whisker-graft-polycaprolactone. *Journal of Applied Polymer Science*, **2009**, 113, 3417-3425	2.9	181