

Shinsuke Ifuku

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93
papers

3,686
citations

29
h-index

59
g-index

98
ext. papers

4,140
ext. citations

6.8
avg. IF

5.56
L-index

#	Paper	IF	Citations
93	Preparation of chitin nanofibers with a uniform width as alpha-chitin from crab shells. <i>Biomacromolecules</i> , 2009 , 10, 1584-8	6.9	380
92	Surface modification of bacterial cellulose nanofibers for property enhancement of optically transparent composites: dependence on acetyl-group DS. <i>Biomacromolecules</i> , 2007 , 8, 1973-8	6.9	333
91	Chitin nanofibers: preparations, modifications, and applications. <i>Nanoscale</i> , 2012 , 4, 3308-3318	7.7	317
90	Chitin, chitosan, and its derivatives for wound healing: old and new materials. <i>Journal of Functional Biomaterials</i> , 2015 , 6, 104-42	4.8	227
89	Bioactive gyroid scaffolds formed by sacrificial templating of nanocellulose and nanochitin hydrogels as instructive platforms for biomimetic tissue engineering. <i>Advanced Materials</i> , 2015 , 27, 2989-2995	14.5	169
88	Fibrillation of dried chitin into 100nm nanofibers by a simple grinding method under acidic conditions. <i>Carbohydrate Polymers</i> , 2010 , 81, 134-139	10.3	165
87	Chitin and chitosan nanofibers: preparation and chemical modifications. <i>Molecules</i> , 2014 , 19, 18367-80	4.8	155
86	Preparation of Chitin Nanofibers from Mushrooms. <i>Materials</i> , 2011 , 4, 1417-1425	3.5	139
85	Preparation of high-strength transparent chitosan film reinforced with surface-deacetylated chitin nanofibers. <i>Carbohydrate Polymers</i> , 2013 , 98, 1198-202	10.3	107
84	Simple preparation method of chitin nanofibers with a uniform width of 100nm from prawn shell under neutral conditions. <i>Carbohydrate Polymers</i> , 2011 , 84, 762-764	10.3	103
83	Acetylation of chitin nanofibers and their transparent nanocomposite films. <i>Biomacromolecules</i> , 2010 , 11, 1326-30	6.9	100
82	Preparation and characterization of optically transparent chitin nanofiber/(meth)acrylic resin composites. <i>Green Chemistry</i> , 2011 , 13, 1708	10	86
81	Biological adhesive based on carboxymethyl chitin derivatives and chitin nanofibers. <i>Biomaterials</i> , 2015 , 42, 20-9	15.6	73
80	Fabrication of optically transparent chitin nanocomposites. <i>Applied Physics A: Materials Science and Processing</i> , 2011 , 102, 325-331	2.6	68
79	Favorable effects of superficially deacetylated chitin nanofibrils on the wound healing process. <i>Carbohydrate Polymers</i> , 2015 , 123, 461-7	10.3	50
78	Tough and catalytically active hybrid biofibers wet-spun from nanochitin hydrogels. <i>Biomacromolecules</i> , 2012 , 13, 4205-12	6.9	47
77	Beneficial and preventive effect of chitin nanofibrils in a dextran sulfate sodium-induced acute ulcerative colitis model. <i>Carbohydrate Polymers</i> , 2012 , 87, 1399-1403	10.3	47

76	Effect of a silane coupling agent on the mechanical properties of a microfibrillated cellulose composite. <i>International Journal of Biological Macromolecules</i> , 2015 , 74, 428-32	7.9	46
75	Facile preparation of silver nanoparticles immobilized on chitin nanofiber surfaces to endow antifungal activities. <i>Carbohydrate Polymers</i> , 2015 , 117, 813-817	10.3	46
74	Biom mineralization of calcium phosphate crystals on chitin nanofiber hydrogel for bone regeneration material. <i>Carbohydrate Polymers</i> , 2016 , 136, 964-9	10.3	43
73	Mineralization of hydroxyapatite upon a unique xanthan gum hydrogel by an alternate soaking process. <i>Carbohydrate Polymers</i> , 2014 , 102, 846-51	10.3	42
72	Preparation of tough hydrogels based on E-chitin nanofibers via NaOH treatment. <i>Cellulose</i> , 2014 , 21, 535-540	5.5	40
71	Preparation of zwitterionically charged nanocrystals by surface TEMPO-mediated oxidation and partial deacetylation of E-chitin. <i>Carbohydrate Polymers</i> , 2015 , 122, 1-4	10.3	36
70	E-chitin nanofibrils improve inflammatory and fibrosis responses in inflammatory bowel disease mice model. <i>Carbohydrate Polymers</i> , 2012 , 90, 197-200	10.3	35
69	Preparation of chitin nanofibers by surface esterification of chitin with maleic anhydride and mechanical treatment. <i>Carbohydrate Polymers</i> , 2016 , 153, 55-59	10.3	34
68	Chitin Nanofiber Elucidates the Elicitor Activity of Polymeric Chitin in Plants. <i>Frontiers in Plant Science</i> , 2015 , 6, 1098	6.2	34
67	Control of mechanical properties of chitin nanofiber film using glycerol without losing its characteristics. <i>Carbohydrate Polymers</i> , 2014 , 101, 714-7	10.3	32
66	Preparation and biocompatibility of a chitin nanofiber/gelatin composite film. <i>International Journal of Biological Macromolecules</i> , 2017 , 104, 1882-1889	7.9	29
65	Graft polymerization of acrylic acid onto chitin nanofiber to improve dispersibility in basic water. <i>Carbohydrate Polymers</i> , 2012 , 90, 623-7	10.3	29
64	Preparation of polysilsesquioxane-urethaneacrylate copolymer film reinforced with chitin nanofibers. <i>Carbohydrate Polymers</i> , 2012 , 89, 865-9	10.3	28
63	Enzymatic hydrolysis of chitin pretreated by rapid depressurization from supercritical 1,1,1,2-tetrafluoroethane toward highly acetylated oligosaccharides. <i>Bioresource Technology</i> , 2016 , 209, 180-6	11	26
62	An oral absorbent, surface-deacetylated chitin nano-fiber ameliorates renal injury and oxidative stress in 5/6 nephrectomized rats. <i>Carbohydrate Polymers</i> , 2017 , 161, 21-25	10.3	24
61	Preparation of highly chemoselective N-phthaloyl chitosan in aqueous media. <i>Green Chemistry</i> , 2011 , 13, 1499	10	24
60	Sustainable Chitin Nanofibrils Provide Outstanding Flame-Retardant Nanopapers. <i>Biomacromolecules</i> , 2019 , 20, 1098-1108	6.9	24
59	A short synthesis of highly soluble chemoselective chitosan derivatives via "click chemistry". <i>Carbohydrate Polymers</i> , 2012 , 90, 1182-6	10.3	23

58	Protein/CaCO ₃ /Chitin Nanofiber Complex Prepared from Crab Shells by Simple Mechanical Treatment and Its Effect on Plant Growth. <i>International Journal of Molecular Sciences</i> , 2016 , 17,	6.3	23
57	Robust Nanofibrillated Cellulose Hydro/Aerogels from Benign Solution/Solvent Exchange Treatment. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 6624-6634	8.3	22
56	Depolymerization of sulfated polysaccharides under hydrothermal conditions. <i>Carbohydrate Research</i> , 2014 , 384, 56-60	2.9	22
55	Chitin nanofibrils suppress skin inflammation in atopic dermatitis-like skin lesions in NC/Nga mice. <i>Carbohydrate Polymers</i> , 2016 , 146, 320-7	10.3	22
54	Biomaterials based on freeze dried surface-deacetylated chitin nanofibers reinforced with sulfobutyl ether β-cyclodextrin gel in wound dressing applications. <i>International Journal of Pharmaceutics</i> , 2016 , 511, 1080-7	6.5	20
53	Bio-based epoxy/chitin nanofiber composites cured with amine-type hardeners containing chitosan. <i>Carbohydrate Polymers</i> , 2016 , 144, 89-97	10.3	18
52	Optimization of nanofibrillation degree of chitin for induction of plant disease resistance: Elicitor activity and systemic resistance induced by chitin nanofiber in cabbage and strawberry. <i>International Journal of Biological Macromolecules</i> , 2018 , 118, 2185-2192	7.9	18
51	Hair growth-promoting activities of chitosan and surface-deacetylated chitin nanofibers. <i>International Journal of Biological Macromolecules</i> , 2019 , 126, 11-17	7.9	18
50	Effects of Surface-Deacetylated Chitin Nanofibers in an Experimental Model of Hypercholesterolemia. <i>International Journal of Molecular Sciences</i> , 2015 , 16, 17445-55	6.3	17
49	Characterization of Chitosan Nanofiber Sheets for Antifungal Application. <i>International Journal of Molecular Sciences</i> , 2015 , 16, 26202-10	6.3	17
48	Preparation of Chitin Nanofibers from Dry Chitin Powder by Star Burst System: Dependence on Number of Passes. <i>Journal of Chitin and Chitosan Science</i> , 2013 , 1, 59-64		17
47	Crystal defects induced by chitin and chitinolytic enzymes in the prismatic layer of <i>Pinctada fucata</i> . <i>Biochemical and Biophysical Research Communications</i> , 2017 , 489, 89-95	3.4	16
46	Oral Administration of Surface-Deacetylated Chitin Nanofibers and Chitosan Inhibit 5-Fluorouracil-Induced Intestinal Mucositis in Mice. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	16
45	Preparation of highly regioselective amphiprotic chitosan derivative via "click chemistry". <i>International Journal of Biological Macromolecules</i> , 2013 , 52, 72-6	7.9	15
44	Biobased Wrinkled Surfaces Induced by Wood Mimetic Skins upon Drying: Effect of Mechanical Properties on Wrinkle Morphology. <i>Langmuir</i> , 2016 , 32, 12799-12804	4	15
43	Bio-based Wrinkled Surfaces Harnessed from Biological Design Principles of Wood and Peroxidase Activity. <i>ChemSusChem</i> , 2015 , 8, 3892-6	8.3	14
42	Fabrication of Cellulose Nanofibers from Parenchyma Cells of Pears and Apples. <i>Journal of Fiber Science and Technology</i> , 2011 , 67, 86-90	0	14
41	Chitin biological extraction from shrimp wastes and its fibrillation for elastic nanofiber sheets preparation. <i>Carbohydrate Polymers</i> , 2019 , 213, 112-120	10.3	14

40	Effects of Oral Administration of Chitin Nanofiber on Plasma Metabolites and Gut Microorganisms. <i>International Journal of Molecular Sciences</i> , 2015 , 16, 21931-49	6.3	13
39	Improving nitrogen uptake efficiency by chitin nanofiber promotes growth in tomato. <i>International Journal of Biological Macromolecules</i> , 2020 , 151, 1322-1331	7.9	13
38	Preparation of a protein-chitin nanofiber complex from crab shells and its application as a reinforcement filler or substrate for biomineralization. <i>RSC Advances</i> , 2015 , 5, 64196-64201	3.7	12
37	Application of Bio-Based Wrinkled Surfaces as Cell Culture Scaffolds. <i>Colloids and Interfaces</i> , 2018 , 2, 15	3	11
36	Surface-Deacetylated Chitin Nano-Fiber/Hyaluronic Acid Composites as Potential Antioxidative Compounds for Use in Extended-Release Matrix Tablets. <i>International Journal of Molecular Sciences</i> , 2015 , 16, 24707-17	6.3	11
35	Protective Effect of Chitin Urocanate Nanofibers against Ultraviolet Radiation. <i>Marine Drugs</i> , 2015 , 13, 7463-75	6	11
34	Effect of Grinder Pretreatment for Easy Disintegration of Chitin into Nanofiber. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 5037-5041	1.3	10
33	Surface-deacetylated chitin nanofibers reinforced with a sulfobutyl ether β -cyclodextrin gel loaded with prednisolone as potential therapy for inflammatory bowel disease. <i>Carbohydrate Polymers</i> , 2017 , 174, 1087-1094	10.3	10
32	Formation of Elastic Gels from Deacetylated Chitin Nanofibers Reinforced with Sulfobutyl Ether β -Cyclodextrin. <i>Chemistry Letters</i> , 2015 , 44, 285-287	1.7	10
31	Highly Mineralized Biomimetic Polysaccharide Nanofiber Materials Using Enzymatic Mineralization. <i>Biomacromolecules</i> , 2020 , 21, 2176-2186	6.9	10
30	Facile preparation of cyclodextrin-grafted chitosans and their conversion into nanoparticles for an anticancer drug delivery system. <i>Polymer Journal</i> , 2016 , 48, 203-207	2.7	8
29	Nanofibrillation enhances the protective effect of crab shells against Fusarium wilt disease in tomato. <i>International Journal of Biological Macromolecules</i> , 2019 , 128, 22-27	7.9	8
28	Nanofibers based on chitin: a new functional food. <i>Pure and Applied Chemistry</i> , 2016 , 88, 605-619	2.1	7
27	Fully Biobased Oligophenolic Nanoparticle Prepared by Horseradish Peroxidase-catalyzed Polymerization. <i>Chemistry Letters</i> , 2016 , 45, 631-633	1.7	7
26	Salinity-dependent toxicity of water-dispersible, single-walled carbon nanotubes to Japanese medaka embryos. <i>Journal of Applied Toxicology</i> , 2017 , 37, 408-416	4.1	7
25	Effects of surface-deacetylated chitin nanofibers on non-alcoholic steatohepatitis model rats and their gut microbiota. <i>International Journal of Biological Macromolecules</i> , 2020 , 164, 659-666	7.9	7
24	Discrimination of Anionic Polysaccharides via Monomer-Excimer Switching and Photo-Induced Colorimetric Reaction of 1-Methyl-3-(N-(1,8-naphthalimidyl)ethyl)imidazolium. <i>Bulletin of the Chemical Society of Japan</i> , 2018 , 91, 1220-1225	5.1	7
23	Wood-mimetic skins prepared using horseradish peroxidase catalysis to induce surface wrinkling of chitosan film upon drying. <i>Carbohydrate Polymers</i> , 2017 , 173, 519-525	10.3	6

22	Polysaccharide-based wrinkled surfaces induced by polyion complex skin layers upon drying. <i>Polymer Journal</i> , 2019 , 51, 675-683	2.7	6
21	Preparation and evaluation of freeze dried surface-deacetylated chitin nanofiber/sacran pellets for use as an extended-release excipient. <i>International Journal of Biological Macromolecules</i> , 2019 , 124, 888-894	7.9	6
20	Retraction: Azuma, K. et al. Chitin, Chitosan, and Its Derivatives for Wound Healing: Old and New Materials. <i>J. Funct. Biomater.</i> 2015, 6, 104-142. <i>Journal of Functional Biomaterials</i> , 2018 , 9,	4.8	5
19	Preparation of chitosan nanofibers from completely deacetylated chitosan powder by a downsizing process. <i>International Journal of Biological Macromolecules</i> , 2015 , 72, 1191-5	7.9	5
18	Disease resistance and growth promotion activities of chitin/cellulose nanofiber from spent mushroom substrate to plant.. <i>Carbohydrate Polymers</i> , 2022 , 284, 119233	10.3	3
17	Guanidynylated chitosan inspired by arginine-rich cell-penetrating peptides. <i>International Journal of Biological Macromolecules</i> , 2019 , 125, 901-905	7.9	3
16	Thermo-mechanically improved polyvinyl alcohol composite films using maleated chitin nanofibers as nano-reinforcement. <i>Cellulose</i> , 2021 , 28, 2965-2980	5.5	3
15	Preparation and recycling property of nanofiber-reinforced polystyrene molded product using the emulsion-forming ability of chitin nanofibers. <i>Polymer Journal</i> ,	2.7	2
14	Guanidinylation of Chitooligosaccharides Involving Internal Cyclization of the Guanidino Group on the Reducing End and Effect of Guanidinylation on Protein Binding Ability. <i>Biomolecules</i> , 2019 , 9,	5.9	1
13	Hierarchical surface wrinkles and bumps generated on chitosan films having double-skin layers comprising topmost carrageenan layers and polyion complex layers.. <i>Carbohydrate Polymers</i> , 2022 , 284, 119224	10.3	1
12	Unique Photophysical Properties of 1,8-Naphthalimide Derivatives: Generation of Semi-stable Radical Anion Species by Photo-Induced Electron Transfer from a Carboxy Group. <i>ACS Omega</i> , 2021 , 6, 13456-13465	3.9	1
11	Dyeing of chitin nanofibers with reactive dyes and preparation of their sheets and nanofiber/resin composites. <i>Cellulose</i> , 1	5.5	1
10	Surface Wrinkles Induced on Oriented Chitosan Films via Horseradish Peroxidase-catalyzed Reaction and Drying. <i>Chemistry Letters</i> , 2021 , 50, 252-255	1.7	1
9	Optimum Preparation Conditions for Highly Individualized Chitin Nanofibers Using Ultrasonic Generator. <i>Polymers</i> , 2021 , 13,	4.5	1
8	Biological Properties of the Aggregated Form of Chitosan Magnetic Nanoparticle. <i>In Vivo</i> , 2020 , 34, 1729-1738	2.1	0
7	Optically transparent silk fibroin nanofiber paper maintaining native sheet secondary structure obtained by cyclic mechanical nanofibrillation process. <i>Materials Today Communications</i> , 2021 , 29, 102895	2.5	0
6	Production of chitin nanoparticles by bottom-up approach from alkaline chitin solution.. <i>International Journal of Biological Macromolecules</i> , 2022 , 210, 123-127	7.9	0
5	Biological Properties and Commercial Applications of Chitin Nanofibers from Crab Shell. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2020 , 71, 405-407	0.1	0

- 4 Synthesis of Metal Nanoparticles Templated by Bio-nanofibers. *Hosokawa Powder Technology Foundation ANNUAL REPORT*, **2010**, 18, 108-113 0
- 3 Biomedical Applications of Chitin Nanofibers **2020**, 841-854
- 2 Improvement of Bread-Making Quality by Chitin-Nanofibers Added to Wheat Flour. *Journal of the Japanese Society for Food Science and Technology*, **2016**, 63, 18-24 0.2
- 1 Preparation of Chitin Nanofiber and Its Derivatives from Crab Shell and Their Efficient Biological Properties. *Advances in Polymer Science*, **2021**, 301-318 1.3