

Ratana Rujiravanit

List of Publications by Citations

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78
papers

4,309
citations

36
h-index

65
g-index

78
ext. papers

4,621
ext. citations

5.9
avg, IF

5.52
L-index

#	Paper	IF	Citations
78	Impregnation of silver nanoparticles into bacterial cellulose for antimicrobial wound dressing. <i>Carbohydrate Polymers</i> , 2008 , 72, 43-51	10.3	766
77	Structural and physicochemical characterization of crude biosurfactant produced by <i>Pseudomonas aeruginosa</i> SP4 isolated from petroleum-contaminated soil. <i>Bioresource Technology</i> , 2008 , 99, 1589-95	11	203
76	Preparation and characterization of chitin whisker-reinforced chitosan nanocomposite films with or without heat treatment. <i>Carbohydrate Polymers</i> , 2005 , 62, 130-136	10.3	177
75	Preparation and characterization of jute- and flax-reinforced starch-based composite foams. <i>Carbohydrate Polymers</i> , 2004 , 58, 53-63	10.3	142
74	Preparation and characterization of polyaniline/chitosan blend film. <i>Carbohydrate Polymers</i> , 2006 , 64, 560-568	10.3	134
73	Preparation and characterization of chitin whisker-reinforced poly(vinyl alcohol) nanocomposite films with or without heat treatment. <i>Polymer</i> , 2005 , 46, 5637-5644	3.9	127
72	Preparation of chitosan-coated polyethylene packaging films by DBD plasma treatment. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 2474-82	9.5	114
71	Isolation and comparison of biosurfactants produced by <i>Bacillus subtilis</i> PT2 and <i>Pseudomonas aeruginosa</i> SP4 for microbial surfactant-enhanced oil recovery. <i>Biochemical Engineering Journal</i> , 2008 , 42, 172-179	4.2	114
70	Fabrication of chitin whisker-reinforced poly(vinyl alcohol) nanocomposite nanofibres by electrospinning. <i>Nanotechnology</i> , 2006 , 17, 4519-4528	3.4	108
69	Fabrication, structure, and properties of chitin whisker-reinforced alginate nanocomposite fibers. <i>Journal of Applied Polymer Science</i> , 2008 , 110, 890-899	2.9	100
68	Fabrication of bacterial cellulose-ZnO composite via solution plasma process for antibacterial applications. <i>Carbohydrate Polymers</i> , 2016 , 148, 335-44	10.3	88
67	Preparation and characterization of chitin whisker-reinforced silk fibroin nanocomposite sponges. <i>European Polymer Journal</i> , 2007 , 43, 4123-4135	5.2	87
66	Purification and concentration of a rhamnolipid biosurfactant produced by <i>Pseudomonas aeruginosa</i> SP4 using foam fractionation. <i>Bioresource Technology</i> , 2010 , 101, 324-30	11	86
65	Electrospinning of hexanoyl chitosan. <i>Carbohydrate Polymers</i> , 2006 , 66, 298-305	10.3	81
64	Wet-spun alginate/chitosan whiskers nanocomposite fibers: Preparation, characterization and release characteristic of the whiskers. <i>Carbohydrate Polymers</i> , 2010 , 79, 738-746	10.3	79
63	Preparation and characterization of hexanoyl chitosan/poly(lactide) blend films. <i>Carbohydrate Polymers</i> , 2005 , 60, 343-350	10.3	79
62	Formation of nanocrystalline ZnO particles into bacterial cellulose pellicle by ultrasonic-assisted in situ synthesis. <i>Cellulose</i> , 2013 , 20, 1275-1292	5.5	78

61	Preparation of Crosslinked Chitosan/Silk Fibroin Blend Films for Drug Delivery System. <i>Macromolecular Bioscience</i> , 2003 , 3, 604-611	5.5	76
60	Electrically controlled release of sulfosalicylic acid from crosslinked poly(vinyl alcohol) hydrogel. <i>International Journal of Pharmaceutics</i> , 2008 , 356, 1-11	6.5	75
59	Preparation and characterization of microwave-treated carboxymethyl chitin and carboxymethyl chitosan films for potential use in wound care application. <i>Macromolecular Bioscience</i> , 2005 , 5, 1001-12	5.5	71
58	Solution properties and vesicle formation of rhamnolipid biosurfactants produced by <i>Pseudomonas aeruginosa</i> SP4. <i>Colloids and Surfaces B: Biointerfaces</i> , 2009 , 72, 6-15	6	68
57	Electrospinning of hexanoyl chitosan/poly(lactide) blends. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2006 , 17, 547-65	3.5	64
56	Preparation and characterization of starch/poly(l-lactic acid) hybrid foams. <i>Carbohydrate Polymers</i> , 2005 , 59, 329-337	10.3	62
55	Preparation and characterization of ZnO-deposited DBD plasma-treated PP packaging film with antibacterial activities. <i>Applied Surface Science</i> , 2013 , 273, 824-835	6.7	60
54	Novel chitosan-spotted alginate fibers from wet-spinning of alginate solutions containing emulsified chitosan-citrate complex and their characterization. <i>Biomacromolecules</i> , 2009 , 10, 320-7	6.9	59
53	Synthesis of magnetic nanoparticle into bacterial cellulose matrix by ammonia gas-enhancing in situ co-precipitation method. <i>Carbohydrate Polymers</i> , 2011 , 86, 162-170	10.3	54
52	Biosurfactant production by <i>Pseudomonas aeruginosa</i> SP4 using sequencing batch reactors: Effect of oil-to-glucose ratio. <i>Biochemical Engineering Journal</i> , 2010 , 49, 185-191	4.2	52
51	Aqueous-phase behavior and vesicle formation of natural glycolipid biosurfactant, mannosylerythritol lipid-B. <i>Colloids and Surfaces B: Biointerfaces</i> , 2008 , 65, 106-12	6	51
50	Characterisation of beta-chitin/poly(vinyl alcohol) blend films. <i>Polymer Testing</i> , 2003 , 22, 381-387	4.5	51
49	X-ray diffraction and dynamic mechanical analyses of chitin whisker-reinforced poly(vinyl alcohol) nanocomposite nanofibers. <i>Polymer International</i> , 2010 , 59, 85-91	3.3	50
48	In vitro biocompatibility of electrospun hexanoyl chitosan fibrous scaffolds towards human keratinocytes and fibroblasts. <i>European Polymer Journal</i> , 2008 , 44, 2060-2067	5.2	47
47	Fabrication of cellulose nanofiber/chitin whisker/silk sericin bionanocomposite sponges and characterizations of their physical and biological properties. <i>Composites Science and Technology</i> , 2014 , 96, 88-96	8.6	44
46	In vitro biocompatibility evaluations of hexanoyl chitosan film. <i>Carbohydrate Polymers</i> , 2007 , 68, 166-172	10.3	39
45	Characterization of starch/poly(ε-caprolactone) hybrid foams. <i>Polymer Testing</i> , 2004 , 23, 651-657	4.5	37
44	Removal of trace Cd ²⁺ using continuous multistage ion foam fractionation: part I--The effect of feed SDS/Cd molar ratio. <i>Journal of Hazardous Materials</i> , 2010 , 182, 812-9	12.8	36

43	Electrical conductivity and mechanical properties of polyaniline/natural rubber composite fibers. <i>Journal of Applied Polymer Science</i> , 2007 , 106, 4038-4046	2.9	36
42	Cytotoxicity against cancer cells of chitosan oligosaccharides prepared from chitosan powder degraded by electrical discharge plasma. <i>Carbohydrate Polymers</i> , 2018 , 201, 20-30	10.3	34
41	Enhanced degradation of chitosan by applying plasma treatment in combination with oxidizing agents for potential use as an anticancer agent. <i>Carbohydrate Polymers</i> , 2017 , 167, 1-11	10.3	33
40	In vitro and in vivo release of basic fibroblast growth factor using a silk fibroin scaffold as delivery carrier. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2010 , 21, 1403-19	3.5	33
39	Preparation of chitosan filament applying new coagulation system. <i>Carbohydrate Polymers</i> , 2004 , 56, 205-211	10.3	33
38	Photocatalytic disinfection of water by bacterial cellulose/NE co-doped TiO ₂ under fluorescent light. <i>Cellulose</i> , 2015 , 22, 3321-3335	5.5	31
37	Depolymerization of chitosan-metal complexes via a solution plasma technique. <i>Carbohydrate Polymers</i> , 2014 , 102, 504-12	10.3	31
36	Biosurfactant production by <i>Pseudomonas aeruginosa</i> SP4 using sequencing batch reactors: effects of oil loading rate and cycle time. <i>Bioresource Technology</i> , 2009 , 100, 812-8	11	30
35	Surface Characterization and Antimicrobial Activity of Chitosan-Deposited DBD Plasma-Modified Woven PET Surface. <i>Plasma Chemistry and Plasma Processing</i> , 2011 , 31, 233-249	3.6	29
34	Porous polyethylene membranes by template-leaching technique: preparation and characterization. <i>Polymer Testing</i> , 2004 , 23, 91-99	4.5	29
33	Effect of gamma radiation on dilute aqueous solutions and thin films of N-succinyl chitosan. <i>Polymer Degradation and Stability</i> , 2010 , 95, 234-244	4.7	28
32	Synthesis of polyaniline nanofibrils using an in situ seeding technique. <i>Synthetic Metals</i> , 2008 , 158, 695-703	7.3	28
31	Release characteristic and stability of curcumin incorporated in chitin non-woven fibrous sheet using Tween 20 as an emulsifier. <i>European Polymer Journal</i> , 2012 , 48, 512-523	5.2	26
30	Phase behavior of ternary mannosylerythritol lipid/water/oil systems. <i>Colloids and Surfaces B: Biointerfaces</i> , 2009 , 68, 207-12	6	26
29	Silver Loading on DBD Plasma-Modified Woven PET Surface for Antimicrobial Property Improvement. <i>Plasma Chemistry and Plasma Processing</i> , 2010 , 30, 191-206	3.6	26
28	Miscibility and biodegradability of silk fibroin/carboxymethyl chitin blend films. <i>Macromolecular Bioscience</i> , 2007 , 7, 1258-71	5.5	26
27	Characterization and encapsulation efficiency of rhamnolipid vesicles with cholesterol addition. <i>Journal of Bioscience and Bioengineering</i> , 2011 , 112, 102-6	3.3	21
26	Chitosan whiskers from shrimp shells incorporated into dimethacrylate-based dental resin sealant. <i>Dental Materials Journal</i> , 2012 , 31, 273-9	2.5	20

25	Formation of W/O microemulsion based on natural glycolipid biosurfactant, mannosylerythritol lipid-a. <i>Journal of Oleo Science</i> , 2008 , 57, 55-9	1.6	20
24	Preparation and Properties of Starch/Poly(vinyl alcohol) Composite Foams. <i>Macromolecular Symposia</i> , 2004 , 216, 217-228	0.8	20
23	Electrical conductivity responses and interactions of poly(3-thiopheneacetic acid)/zeolites L, mordenite, beta and H2. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2007 , 140, 23-30	3.1	19
22	Synthesis of polyaniline nanofibers and nanotubes via rhamnolipid biosurfactant templating. <i>Synthetic Metals</i> , 2011 , 161, 298-306	3.6	18
21	Rhamnolipid biosurfactants: production and their potential in environmental biotechnology. <i>Advances in Experimental Medicine and Biology</i> , 2010 , 672, 211-21	3.6	18
20	Polyaniline nanoparticles with controlled sizes using a cross-linked carboxymethyl chitin template. <i>Journal of Nanoparticle Research</i> , 2009 , 11, 1167-1177	2.3	14
19	Effect of casting solvent on characteristics of hexanoyl chitosan/polylactide blend films. <i>Journal of Applied Polymer Science</i> , 2007 , 105, 1844-1852	2.9	14
18	Preparation and Characterization of Chitosan-Coated DBD Plasma-Treated Natural Rubber Latex Medical Surgical Gloves with Antibacterial Activities. <i>Plasma Chemistry and Plasma Processing</i> , 2012 , 32, 1275-1292	3.6	11
17	Dendritic polyaniline nanoparticles synthesized by carboxymethyl chitin templating. <i>European Polymer Journal</i> , 2008 , 44, 3423-3429	5.2	11
16	Sericin-binded-deprotenized natural rubber film containing chitin whiskers as elasto-gel dressing. <i>International Journal of Biological Macromolecules</i> , 2017 , 101, 417-426	7.9	10
15	Removal of Trace Cd ²⁺ Using Continuous Multistage Ion Foam Fractionation: Part III The Effects of Operational Parameters. <i>Separation Science and Technology</i> , 2011 , 46, 1673-1683	2.5	9
14	Degradation of chitosan hydrogel dispersed in dilute carboxylic acids by solution plasma and evaluation of anticancer activity of degraded products. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 0102B5	1.4	8
13	Removal of trace Cd ²⁺ using continuous multistage ion foam fractionation. Part III Effect of salt addition. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011 , 385, 171-180	5.1	8
12	Dilute solution properties of hexanoyl chitosan in chloroform, dichloromethane, and tetrahydrofuran. <i>Carbohydrate Polymers</i> , 2006 , 64, 175-183	10.3	8
11	Effect of electrical discharge plasma on cytotoxicity against cancer cells of N,O-carboxymethyl chitosan-stabilized gold nanoparticles. <i>Carbohydrate Polymers</i> , 2020 , 237, 116162	10.3	7
10	In vitro cytotoxicity of carbon black nanoparticles synthesized from solution plasma on human lung fibroblast cells. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 0102BG	1.4	7
9	Physical and Electrical Properties of Chlorophyllin/Carboxymethyl Chitin and Chlorophyllin/Carboxymethyl Chitosan Blend Films. <i>Macromolecular Symposia</i> , 2008 , 264, 168-175	0.8	5
8	Preparation and Physico-Chemical Characteristics of N-Maleoyl Chitosan Films. <i>Macromolecular Symposia</i> , 2008 , 264, 121-126	0.8	5

7	Simultaneous deacetylation and degradation of chitin hydrogel by electrical discharge plasma using low sodium hydroxide concentrations. <i>Carbohydrate Polymers</i> , 2020 , 228, 115377	10.3	5
6	Anomalous rheology of polypyrrole nanoparticle/alginate suspensions: effect of solids volume fraction, particle size, and electronic state. <i>Rheologica Acta</i> , 2011 , 50, 809-823	2.3	3
5	Photooxidative mineralization of microorganisms-produced glycolipid biosurfactants by a titania-mediated advanced oxidation process. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010 , 209, 147-152	4.7	3
4	Combinatorial effects of charge characteristics and hydrophobicity of silk fibroin on the sorption and release of charged dyes. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2012 , 23, 1199-215	3.5	2
3	Fabrication and properties of solution-cast polyaniline/carboxymethylchitin blend films. <i>Journal of Applied Polymer Science</i> , 2010 , 116, NA-NA	2.9	2
2	Plasma-Assisted Synthesis of Multicomponent Nanoparticles Containing Carbon, Tungsten Carbide and Silver as Multifunctional Filler for Polylactic Acid Composite Films. <i>Polymers</i> , 2021 , 13,	4.5	2
1	Deposition of carbon/tungsten carbide on coir pulp to improve its compatibility with polylactic acid. <i>Cellulose</i> , 2021 , 28, 4119-4136	5.5	1