Ratana Rujiravanit

List of Publications by Year
in descending order

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78 papers	5,001 citations	87723 38 h-index	88477 70 g-index
78 all docs	78 docs citations	78 times ranked	6512 citing authors

#	Article	IF	Citations
1	Deposition of carbonâ€"tungsten carbide on coir pulp to improve its compatibility with polylactic acid. Cellulose, 2021, 28, 4119-4136.	2.4	1
2	Plasma-Assisted Synthesis of Multicomponent Nanoparticles Containing Carbon, Tungsten Carbide and Silver as Multifunctional Filler for Polylactic Acid Composite Films. Polymers, 2021, 13, 991.	2.0	3
3	Simultaneous deacetylation and degradation of chitin hydrogel by electrical discharge plasma using low sodium hydroxide concentrations. Carbohydrate Polymers, 2020, 228, 115377.	5.1	7
4	Effect of electrical discharge plasma on cytotoxicity against cancer cells of N,O-carboxymethyl chitosan-stabilized gold nanoparticles. Carbohydrate Polymers, 2020, 237, 116162.	5.1	12
5	In vitro cytotoxicity of carbon black nanoparticles synthesized from solution plasma on human lung fibroblast cells. Japanese Journal of Applied Physics, 2018, 57, 0102BG.	0.8	10
6	Degradation of chitosan hydrogel dispersed in dilute carboxylic acids by solution plasma and evaluation of anticancer activity of degraded products. Japanese Journal of Applied Physics, 2018, 57, 0102B5.	0.8	14
7	Cytotoxicity against cancer cells of chitosan oligosaccharides prepared from chitosan powder degraded by electrical discharge plasma. Carbohydrate Polymers, 2018, 201, 20-30.	5.1	58
8	Sericin-binded-deprotenized natural rubber film containing chitin whiskers as elasto-gel dressing. International Journal of Biological Macromolecules, 2017, 101, 417-426.	3.6	15
9	Enhanced degradation of chitosan by applying plasma treatment in combination with oxidizing agents for potential use as an anticancer agent. Carbohydrate Polymers, 2017, 167, 1-11.	5.1	44
10	Fabrication of bacterial cellulose-ZnO composite via solution plasma process for antibacterial applications. Carbohydrate Polymers, 2016, 148, 335-344.	5.1	108
11	Photocatalytic disinfection of water by bacterial cellulose/Nâ€"F co-doped TiO2 under fluorescent light. Cellulose, 2015, 22, 3321-3335.	2.4	33
12	Fabrication of cellulose nanofiber/chitin whisker/silk sericin bionanocomposite sponges and characterizations of their physical and biological properties. Composites Science and Technology, 2014, 96, 88-96.	3.8	48
13	Depolymerization of chitosanâ€"metal complexes via a solution plasma technique. Carbohydrate Polymers, 2014, 102, 504-512.	5.1	34
14	Formation of nanocrystalline ZnO particles into bacterial cellulose pellicle by ultrasonic-assisted in situ synthesis. Cellulose, 2013, 20, 1275-1292.	2.4	97
15	Preparation and characterization of ZnO-deposited DBD plasma-treated PP packaging film with antibacterial activities. Applied Surface Science, 2013, 273, 824-835.	3.1	74
16	Chitosan whiskers from shrimp shells incorporated into dimethacrylate-based dental resin sealant. Dental Materials Journal, 2012, 31, 273-279.	0.8	26
17	Preparation and Characterization of Chitosan-Coated DBD Plasma-Treated Natural Rubber Latex Medical Surgical Gloves with Antibacterial Activities. Plasma Chemistry and Plasma Processing, 2012, 32, 1275-1292.	1.1	14
18	Combinatorial Effects of Charge Characteristics and Hydrophobicity of Silk Fibroin on the Sorption and Release of Charged Dyes. Journal of Biomaterials Science, Polymer Edition, 2012, ahead-of-print, 1-17.	1.9	2

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19	Preparation of Chitosan-Coated Polyethylene Packaging Films by DBD Plasma Treatment. ACS Applied Materials & Interfaces, 2012, 4, 2474-2482.	4.0	139
20	Release characteristic and stability of curcumin incorporated in Î²-chitin non-woven fibrous sheet using Tween 20 as an emulsifier. European Polymer Journal, 2012, 48, 512-523.	2.6	27
21	Synthesis of polyaniline nanofibers and nanotubes via rhamnolipid biosurfactant templating. Synthetic Metals, 2011, 161, 298-306.	2.1	24
22	Characterization and encapsulation efficiency of rhamnolipid vesicles with cholesterol addition. Journal of Bioscience and Bioengineering, 2011, 112, 102-106.	1.1	29
23	Removal of trace Cd2+ using continuous multistage ion foam fractionation. Part IIIâ€"Effect of salt addition. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 385, 171-180.	2.3	8
24	Surface Characterization and Antimicrobial Activity of Chitosan-Deposited DBD Plasma-Modified Woven PET Surface. Plasma Chemistry and Plasma Processing, 2011, 31, 233-249.	1.1	35
25	Anomalous rheology of polypyrrole nanoparticle/alginate suspensions: effect of solids volume fraction, particle size, and electronic state. Rheologica Acta, 2011, 50, 809-823.	1.1	3
26	Synthesis of magnetic nanoparticle into bacterial cellulose matrix by ammonia gas-enhancing in situ co-precipitation method. Carbohydrate Polymers, 2011, 86, 162-170.	5.1	64
27	Removal of Trace Cd2+Using Continuous Multistage Ion Foam Fractionation: Part IIâ€"The Effects of Operational Parameters. Separation Science and Technology, 2011, 46, 1673-1683.	1.3	9
28	Biosurfactant production by Pseudomonas aeruginosa SP4 using sequencing batch reactors: Effect of oil-to-glucose ratio. Biochemical Engineering Journal, 2010, 49, 185-191.	1.8	61
29	Effect of gamma radiation on dilute aqueous solutions and thin films of N-succinyl chitosan. Polymer Degradation and Stability, 2010, 95, 234-244.	2.7	30
30	Silver Loading on DBD Plasma-Modified Woven PET Surface for Antimicrobial Property Improvement. Plasma Chemistry and Plasma Processing, 2010, 30, 191-206.	1.1	28
31	Fabrication and properties of solutionâ€cast polyaniline/carboxymethylchitin blend films. Journal of Applied Polymer Science, 2010, 116, 1626-1634.	1.3	3
32	Photooxidative mineralization of microorganisms-produced glycolipid biosurfactants by a titania-mediated advanced oxidation process. Journal of Photochemistry and Photobiology A: Chemistry, 2010, 209, 147-152.	2.0	3
33	Purification and concentration of a rhamnolipid biosurfactant produced by Pseudomonas aeruginosa SP4 using foam fractionation. Bioresource Technology, 2010, 101, 324-330.	4.8	98
34	Wet-spun alginate/chitosan whiskers nanocomposite fibers: Preparation, characterization and release characteristic of the whiskers. Carbohydrate Polymers, 2010, 79, 738-746.	5.1	88
35	Xâ€ray diffraction and dynamic mechanical analyses of Î±â€chitin whiskerâ€reinforced poly(vinyl alcohol) nanocomposite nanofibers. Polymer International, 2010, 59, 85-91.	1.6	57
36	Rhamnolipid Biosurfactants: Production and their Potential in Environmental Biotechnology. Advances in Experimental Medicine and Biology, 2010, 672, 211-221.	0.8	25

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37	In Vitro and In Vivo Release of Basic Fibroblast Growth Factor Using a Silk Fibroin Scaffold as Delivery Carrier. Journal of Biomaterials Science, Polymer Edition, 2010, 21, 1403-1419.	1.9	36
38	Removal of trace Cd2+ using continuous multistage ion foam fractionation: Part Iâ€"The effect of feed SDS/Cd molar ratio. Journal of Hazardous Materials, 2010, 182, 812-819.	6.5	44
39	Novel Chitosan-Spotted Alginate Fibers from Wet-Spinning of Alginate Solutions Containing Emulsified Chitosanâˆ'Citrate Complex and their Characterization. Biomacromolecules, 2009, 10, 320-327.	2.6	63
40	Polyaniline nanoparticles with controlled sizes using a cross-linked carboxymethyl chitin template. Journal of Nanoparticle Research, 2009, 11, 1167-1177.	0.8	16
41	Phase behavior of ternary mannosylerythritol lipid/water/oil systems. Colloids and Surfaces B: Biointerfaces, 2009, 68, 207-212.	2.5	37
42	Solution properties and vesicle formation of rhamnolipid biosurfactants produced by Pseudomonas aeruginosa SP4. Colloids and Surfaces B: Biointerfaces, 2009, 72, 6-15.	2.5	84
43	Biosurfactant production by Pseudomonas aeruginosa SP4 using sequencing batch reactors: Effects of oil loading rate and cycle time. Bioresource Technology, 2009, 100, 812-818.	4.8	35
44	Fabrication, structure, and properties of chitin whiskerâ€reinforced alginate nanocomposite fibers. Journal of Applied Polymer Science, 2008, 110, 890-899.	1.3	116
45	Isolation and comparison of biosurfactants produced by Bacillus subtilis PT2 and Pseudomonas aeruginosa SP4 for microbial surfactant-enhanced oil recovery. Biochemical Engineering Journal, 2008, 42, 172-179.	1.8	134
46	Aqueous-phase behavior and vesicle formation of natural glycolipid biosurfactant, mannosylerythritol lipid-B. Colloids and Surfaces B: Biointerfaces, 2008, 65, 106-112.	2.5	60
47	Structural and physicochemical characterization of crude biosurfactant produced by Pseudomonas aeruginosa SP4 isolated from petroleum-contaminated soil. Bioresource Technology, 2008, 99, 1589-1595.	4.8	238
48	In vitro biocompatibility of electrospun hexanoyl chitosan fibrous scaffolds towards human keratinocytes and fibroblasts. European Polymer Journal, 2008, 44, 2060-2067.	2.6	52
49	Dendritic polyaniline nanoparticles synthesized by carboxymethyl chitin templating. European Polymer Journal, 2008, 44, 3423-3429.	2.6	15
50	Impregnation of silver nanoparticles into bacterial cellulose for antimicrobial wound dressing. Carbohydrate Polymers, 2008, 72, 43-51.	5.1	866
51	Electrically controlled release of sulfosalicylic acid from crosslinked poly(vinyl alcohol) hydrogel. International Journal of Pharmaceutics, 2008, 356, 1-11.	2.6	83
52	Synthesis of polyaniline nanofibrils using an in situ seeding technique. Synthetic Metals, 2008, 158, 695-703.	2.1	33
53	Physical and Electrical Properties of Chlorophyllin/Carboxymethyl Chitin and Chlorophyllin/Carboxymethyl Chitosan Blend Films. Macromolecular Symposia, 2008, 264, 168-175.	0.4	5
54	Formation of W/O Microemulsion Based on Natural Glycolipid Biosurfactant, Mannosylerythritol Lipid-A. Journal of Oleo Science, 2008, 57, 55-59.	0.6	24

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55	Preparation and Physico-Chemical Characteristics of N-Maleoyl Chitosan Films. Macromolecular Symposia, 2008, 264, 121-126.	0.4	6
56	Effect of casting solvent on characteristics of hexanoyl chitosan/polylactide blend films. Journal of Applied Polymer Science, 2007, 105, 1844-1852.	1.3	17
57	Electrical conductivity and mechanical properties of polyaniline/natural rubber composite fibers. Journal of Applied Polymer Science, 2007, 106, 4038-4046.	1.3	42
58	Miscibility and Biodegradability of Silk Fibroin/Carboxymethyl Chitin Blend Films. Macromolecular Bioscience, 2007, 7, 1258-1271.	2.1	29
59	In vitro biocompatibility evaluations of hexanoyl chitosan film. Carbohydrate Polymers, 2007, 68, 166-172.	5.1	40
60	Preparation and characterization of chitin whisker-reinforced silk fibroin nanocomposite sponges. European Polymer Journal, 2007, 43, 4123-4135.	2.6	101
61	Electrical conductivity responses and interactions of poly(3-thiopheneacetic acid)/zeolites L, mordenite, beta and H2. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2007, 140, 23-30.	1.7	23
62	Fabrication of Î±-chitin whisker-reinforced poly(vinyl alcohol) nanocomposite nanofibres by electrospinning. Nanotechnology, 2006, 17, 4519-4528.	1.3	121
63	Dilute solution properties of hexanoyl chitosan in chloroform, dichloromethane, and tetrahydrofuran. Carbohydrate Polymers, 2006, 64, 175-183.	5.1	8
64	Preparation and characterization of polyaniline/chitosan blend film. Carbohydrate Polymers, 2006, 64, 560-568.	5.1	144
65	Electrospinning of hexanoyl chitosan. Carbohydrate Polymers, 2006, 66, 298-305.	5.1	95
66	Electrospinning of hexanoyl chitosan/polylactide blends. Journal of Biomaterials Science, Polymer Edition, 2006, 17, 547-565.	1.9	75
67	Preparation and characterization of Î±-chitin whisker-reinforced poly(vinyl alcohol) nanocomposite films with or without heat treatment. Polymer, 2005, 46, 5637-5644.	1.8	142
68	Preparation and characterization of starch/poly(l-lactic acid) hybrid foams. Carbohydrate Polymers, 2005, 59, 329-337.	5.1	71
69	Preparation and characterization of hexanoyl chitosan/polylactide blend films. Carbohydrate Polymers, 2005, 60, 343-350.	5.1	85
70	Preparation and characterization of Î±-chitin whisker-reinforced chitosan nanocomposite films with or without heat treatment. Carbohydrate Polymers, 2005, 62, 130-136.	5.1	199
71	Preparation and Characterization of Microwave-treated Carboxymethyl Chitin and Carboxymethyl Chitosan Films for Potential Use in Wound Care Application. Macromolecular Bioscience, 2005, 5, 1001-1012.	2.1	78
72	Preparation and Properties of Starch/Poly(vinyl alcohol) Composite Foams. Macromolecular Symposia, 2004, 216, 217-228.	0.4	23

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73	Porous polyethylene membranes by template-leaching technique: preparation and characterization. Polymer Testing, 2004, 23, 91-99.	2.3	32
74	Characterization of starch/poly(Îµ-caprolactone) hybrid foams. Polymer Testing, 2004, 23, 651-657.	2.3	43
75	Preparation of chitosan filament applying new coagulation system. Carbohydrate Polymers, 2004, 56, 205-211.	5.1	40
76	Preparation and characterization of jute- and flax-reinforced starch-based composite foams. Carbohydrate Polymers, 2004, 58, 53-63.	5.1	172
77	Preparation of Crosslinked Chitosan/Silk Fibroin Blend Films for Drug Delivery System. Macromolecular Bioscience, 2003, 3, 604-611.	2.1	87
78	Characterisation of beta-chitin/poly(vinyl alcohol) blend films. Polymer Testing, 2003, 22, 381-387.	2.3	56