

Ratana Rujiravanit

List of Publications by Year in descending order

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78
papers

5,001
citations

87723

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88477

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78
docs citations

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times ranked

6512
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Impregnation of silver nanoparticles into bacterial cellulose for antimicrobial wound dressing. <i>Carbohydrate Polymers</i> , 2008, 72, 43-51. | 5.1 | 866 |
| 2 | 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, 1589-1595. | 4.8 | 238 |
| 3 | Preparation and characterization of β -chitin whisker-reinforced chitosan nanocomposite films with or without heat treatment. <i>Carbohydrate Polymers</i> , 2005, 62, 130-136. | 5.1 | 199 |
| 4 | Preparation and characterization of jute- and flax-reinforced starch-based composite foams. <i>Carbohydrate Polymers</i> , 2004, 58, 53-63. | 5.1 | 172 |
| 5 | Preparation and characterization of polyaniline/chitosan blend film. <i>Carbohydrate Polymers</i> , 2006, 64, 560-568. | 5.1 | 144 |
| 6 | Preparation and characterization of β -chitin whisker-reinforced poly(vinyl alcohol) nanocomposite films with or without heat treatment. <i>Polymer</i> , 2005, 46, 5637-5644. | 1.8 | 142 |
| 7 | Preparation of Chitosan-Coated Polyethylene Packaging Films by DBD Plasma Treatment. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 2474-2482. | 4.0 | 139 |
| 8 | 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. | 1.8 | 134 |
| 9 | Fabrication of β -chitin whisker-reinforced poly(vinyl alcohol) nanocomposite nanofibres by electrospinning. <i>Nanotechnology</i> , 2006, 17, 4519-4528. | 1.3 | 121 |
| 10 | Fabrication, structure, and properties of chitin whisker-reinforced alginate nanocomposite fibers. <i>Journal of Applied Polymer Science</i> , 2008, 110, 890-899. | 1.3 | 116 |
| 11 | Fabrication of bacterial cellulose-ZnO composite via solution plasma process for antibacterial applications. <i>Carbohydrate Polymers</i> , 2016, 148, 335-344. | 5.1 | 108 |
| 12 | Preparation and characterization of chitin whisker-reinforced silk fibroin nanocomposite sponges. <i>European Polymer Journal</i> , 2007, 43, 4123-4135. | 2.6 | 101 |
| 13 | Purification and concentration of a rhamnolipid biosurfactant produced by <i>Pseudomonas aeruginosa</i> SP4 using foam fractionation. <i>Bioresource Technology</i> , 2010, 101, 324-330. | 4.8 | 98 |
| 14 | Formation of nanocrystalline ZnO particles into bacterial cellulose pellicle by ultrasonic-assisted in situ synthesis. <i>Cellulose</i> , 2013, 20, 1275-1292. | 2.4 | 97 |
| 15 | Electrospinning of hexanoyl chitosan. <i>Carbohydrate Polymers</i> , 2006, 66, 298-305. | 5.1 | 95 |
| 16 | Wet-spun alginate/chitosan whiskers nanocomposite fibers: Preparation, characterization and release characteristic of the whiskers. <i>Carbohydrate Polymers</i> , 2010, 79, 738-746. | 5.1 | 88 |
| 17 | Preparation of Crosslinked Chitosan/Silk Fibroin Blend Films for Drug Delivery System. <i>Macromolecular Bioscience</i> , 2003, 3, 604-611. | 2.1 | 87 |
| 18 | Preparation and characterization of hexanoyl chitosan/poly lactide blend films. <i>Carbohydrate Polymers</i> , 2005, 60, 343-350. | 5.1 | 85 |

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|----|--|-----|-----------|
| 19 | 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. | 2.5 | 84 |
| 20 | Electrically controlled release of sulfosalicylic acid from crosslinked poly(vinyl alcohol) hydrogel. <i>International Journal of Pharmaceutics</i> , 2008, 356, 1-11. | 2.6 | 83 |
| 21 | 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, 1001-1012. | 2.1 | 78 |
| 22 | Electrospinning of hexanoyl chitosan/poly(lactide) blends. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2006, 17, 547-565. | 1.9 | 75 |
| 23 | Preparation and characterization of ZnO-deposited DBD plasma-treated PP packaging film with antibacterial activities. <i>Applied Surface Science</i> , 2013, 273, 824-835. | 3.1 | 74 |
| 24 | Preparation and characterization of starch/poly(l-lactic acid) hybrid foams. <i>Carbohydrate Polymers</i> , 2005, 59, 329-337. | 5.1 | 71 |
| 25 | 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. | 5.1 | 64 |
| 26 | Novel Chitosan-Spotted Alginate Fibers from Wet-Spinning of Alginate Solutions Containing Emulsified Chitosan-Citrate Complex and their Characterization. <i>Biomacromolecules</i> , 2009, 10, 320-327. | 2.6 | 63 |
| 27 | 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. | 1.8 | 61 |
| 28 | Aqueous-phase behavior and vesicle formation of natural glycolipid biosurfactant, mannosylerythritol lipid-B. <i>Colloids and Surfaces B: Biointerfaces</i> , 2008, 65, 106-112. | 2.5 | 60 |
| 29 | Cytotoxicity against cancer cells of chitosan oligosaccharides prepared from chitosan powder degraded by electrical discharge plasma. <i>Carbohydrate Polymers</i> , 2018, 201, 20-30. | 5.1 | 58 |
| 30 | X-ray diffraction and dynamic mechanical analyses of chitin whisker-reinforced poly(vinyl alcohol) nanocomposite nanofibers. <i>Polymer International</i> , 2010, 59, 85-91. | 1.6 | 57 |
| 31 | Characterisation of beta-chitin/poly(vinyl alcohol) blend films. <i>Polymer Testing</i> , 2003, 22, 381-387. | 2.3 | 56 |
| 32 | In vitro biocompatibility of electrospun hexanoyl chitosan fibrous scaffolds towards human keratinocytes and fibroblasts. <i>European Polymer Journal</i> , 2008, 44, 2060-2067. | 2.6 | 52 |
| 33 | 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. | 3.8 | 48 |
| 34 | 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, 812-819. | 6.5 | 44 |
| 35 | 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. | 5.1 | 44 |
| 36 | Characterization of starch/poly(ϵ -caprolactone) hybrid foams. <i>Polymer Testing</i> , 2004, 23, 651-657. | 2.3 | 43 |

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|----|--|-----|-----------|
| 37 | Electrical conductivity and mechanical properties of polyaniline/natural rubber composite fibers. <i>Journal of Applied Polymer Science</i> , 2007, 106, 4038-4046. | 1.3 | 42 |
| 38 | Preparation of chitosan filament applying new coagulation system. <i>Carbohydrate Polymers</i> , 2004, 56, 205-211. | 5.1 | 40 |
| 39 | In vitro biocompatibility evaluations of hexanoyl chitosan film. <i>Carbohydrate Polymers</i> , 2007, 68, 166-172. | 5.1 | 40 |
| 40 | Phase behavior of ternary mannosylerythritol lipid/water/oil systems. <i>Colloids and Surfaces B: Biointerfaces</i> , 2009, 68, 207-212. | 2.5 | 37 |
| 41 | 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, 1403-1419. | 1.9 | 36 |
| 42 | 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, 812-818. | 4.8 | 35 |
| 43 | 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. | 1.1 | 35 |
| 44 | Depolymerization of chitosan-metal complexes via a solution plasma technique. <i>Carbohydrate Polymers</i> , 2014, 102, 504-512. | 5.1 | 34 |
| 45 | Synthesis of polyaniline nanofibrils using an in situ seeding technique. <i>Synthetic Metals</i> , 2008, 158, 695-703. | 2.1 | 33 |
| 46 | Photocatalytic disinfection of water by bacterial cellulose/NF co-doped TiO ₂ under fluorescent light. <i>Cellulose</i> , 2015, 22, 3321-3335. | 2.4 | 33 |
| 47 | Porous polyethylene membranes by template-leaching technique: preparation and characterization. <i>Polymer Testing</i> , 2004, 23, 91-99. | 2.3 | 32 |
| 48 | 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. | 2.7 | 30 |
| 49 | Miscibility and Biodegradability of Silk Fibroin/Carboxymethyl Chitin Blend Films. <i>Macromolecular Bioscience</i> , 2007, 7, 1258-1271. | 2.1 | 29 |
| 50 | Characterization and encapsulation efficiency of rhamnolipid vesicles with cholesterol addition. <i>Journal of Bioscience and Bioengineering</i> , 2011, 112, 102-106. | 1.1 | 29 |
| 51 | Silver Loading on DBD Plasma-Modified Woven PET Surface for Antimicrobial Property Improvement. <i>Plasma Chemistry and Plasma Processing</i> , 2010, 30, 191-206. | 1.1 | 28 |
| 52 | Release characteristic and stability of curcumin incorporated in β -chitin non-woven fibrous sheet using Tween 20 as an emulsifier. <i>European Polymer Journal</i> , 2012, 48, 512-523. | 2.6 | 27 |
| 53 | Chitosan whiskers from shrimp shells incorporated into dimethacrylate-based dental resin sealant. <i>Dental Materials Journal</i> , 2012, 31, 273-279. | 0.8 | 26 |
| 54 | Rhamnolipid Biosurfactants: Production and their Potential in Environmental Biotechnology. <i>Advances in Experimental Medicine and Biology</i> , 2010, 672, 211-221. | 0.8 | 25 |

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|----|--|-----|-----------|
| 55 | Formation of W/O Microemulsion Based on Natural Glycolipid Biosurfactant, Mannosylerythritol Lipid-A. <i>Journal of Oleo Science</i> , 2008, 57, 55-59. | 0.6 | 24 |
| 56 | Synthesis of polyaniline nanofibers and nanotubes via rhamnolipid biosurfactant templating. <i>Synthetic Metals</i> , 2011, 161, 298-306. | 2.1 | 24 |
| 57 | Preparation and Properties of Starch/Poly(vinyl alcohol) Composite Foams. <i>Macromolecular Symposia</i> , 2004, 216, 217-228. | 0.4 | 23 |
| 58 | 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. | 1.7 | 23 |
| 59 | Effect of casting solvent on characteristics of hexanoyl chitosan/poly(lactide) blend films. <i>Journal of Applied Polymer Science</i> , 2007, 105, 1844-1852. | 1.3 | 17 |
| 60 | Polyaniline nanoparticles with controlled sizes using a cross-linked carboxymethyl chitin template. <i>Journal of Nanoparticle Research</i> , 2009, 11, 1167-1177. | 0.8 | 16 |
| 61 | Dendritic polyaniline nanoparticles synthesized by carboxymethyl chitin templating. <i>European Polymer Journal</i> , 2008, 44, 3423-3429. | 2.6 | 15 |
| 62 | Sericin-binded-deprotenized natural rubber film containing chitin whiskers as elasto-gel dressing. <i>International Journal of Biological Macromolecules</i> , 2017, 101, 417-426. | 3.6 | 15 |
| 63 | 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. | 1.1 | 14 |
| 64 | 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. | 0.8 | 14 |
| 65 | 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. | 5.1 | 12 |
| 66 | 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. | 0.8 | 10 |
| 67 | Removal of Trace Cd ²⁺ Using Continuous Multistage Ion Foam Fractionation: Part II – The Effects of Operational Parameters. <i>Separation Science and Technology</i> , 2011, 46, 1673-1683. | 1.3 | 9 |
| 68 | Dilute solution properties of hexanoyl chitosan in chloroform, dichloromethane, and tetrahydrofuran. <i>Carbohydrate Polymers</i> , 2006, 64, 175-183. | 5.1 | 8 |
| 69 | 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. | 2.3 | 8 |
| 70 | Simultaneous deacetylation and degradation of chitin hydrogel by electrical discharge plasma using low sodium hydroxide concentrations. <i>Carbohydrate Polymers</i> , 2020, 228, 115377. | 5.1 | 7 |
| 71 | Preparation and Physico-Chemical Characteristics of N-Maleoyl Chitosan Films. <i>Macromolecular Symposia</i> , 2008, 264, 121-126. | 0.4 | 6 |
| 72 | Physical and Electrical Properties of Chlorophyllin/Carboxymethyl Chitin and Chlorophyllin/Carboxymethyl Chitosan Blend Films. <i>Macromolecular Symposia</i> , 2008, 264, 168-175. | 0.4 | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Fabrication and properties of solution-cast polyaniline/carboxymethylchitin blend films. <i>Journal of Applied Polymer Science</i> , 2010, 116, 1626-1634. | 1.3 | 3 |
| 74 | 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. | 2.0 | 3 |
| 75 | 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. | 1.1 | 3 |
| 76 | 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, 991. | 2.0 | 3 |
| 77 | 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, ahead-of-print, 1-17. | 1.9 | 2 |
| 78 | Deposition of carbon-tungsten carbide on coir pulp to improve its compatibility with polylactic acid. <i>Cellulose</i> , 2021, 28, 4119-4136. | 2.4 | 1 |