Pitt Supaphol

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9002143/publications.pdf

Version: 2024-02-01

237 papers	14,363 citations	14655 66 h-index	24982 109 g-index
240 all docs	240 docs citations	240 times ranked	14438 citing authors

#	Article	IF	Citations
1	A review on wound dressings with an emphasis on electrospun nanofibrous polymeric bandages. Polymers for Advanced Technologies, 2010, 21, 77-95.	3.2	637
2	Wound-dressing materials with antibacterial activity from electrospun gelatin fiber mats containing silver nanoparticles. Polymer, 2008, 49, 4723-4732.	3.8	484
3	Ultrafine Electrospun Polyamide-6 Fibers: Effect of Solution Conditions on Morphology and Average Fiber Diameter. Macromolecular Chemistry and Physics, 2004, 205, 2327-2338.	2.2	449
4	Effect of solvents on electro-spinnability of polystyrene solutions and morphological appearance of resulting electrospun polystyrene fibers. European Polymer Journal, 2005, 41, 409-421.	5.4	394
5	Effects of solvents on electrospun polymeric fibers: preliminary study on polystyrene. Polymer International, 2004, 53, 1851-1859.	3.1	364
6	Drug-loaded electrospun mats of poly(vinyl alcohol) fibres and their release characteristics of four model drugs. Nanotechnology, 2006, 17, 2317-2329.	2.6	352
7	Preparation and Adsorption Behavior of Aminated Electrospun Polyacrylonitrile Nanofiber Mats for Heavy Metal Ion Removal. ACS Applied Materials & Interfaces, 2010, 2, 3619-3627.	8.0	332
8	Vitamin-loaded electrospun cellulose acetate nanofiber mats as transdermal and dermal therapeutic agents of vitamin A acid and vitamin E. European Journal of Pharmaceutics and Biopharmaceutics, 2007, 67, 387-397.	4.3	301
9	Electrospun cellulose acetate fiber mats containing curcumin and release characteristic of the herbal substance. Polymer, 2007, 48, 7546-7557.	3.8	271
10	Preparation and Characterization of Novel Bone Scaffolds Based on Electrospun Polycaprolactone Fibers Filled with Nanoparticles. Macromolecular Bioscience, 2006, 6, 70-77.	4.1	224
11	Release characteristics of four model drugs from drug-loaded electrospunÂcellulose acetate fiber mats. Polymer, 2007, 48, 5030-5041.	3.8	219
12	Electrospun cellulose acetate fibers: effect of solvent system on morphology and fiber diameter. Cellulose, 2007, 14, 563-575.	4.9	207
13	Preparation and characterization of Î±-chitin whisker-reinforced chitosan nanocomposite films with or without heat treatment. Carbohydrate Polymers, 2005, 62, 130-136.	10.2	199
14	Stability Improvement of Electrospun Chitosan Nanofibrous Membranes in Neutral or Weak Basic Aqueous Solutions. Biomacromolecules, 2006, 7, 2710-2714.	5.4	199
15	Electrospinning of food-grade nanofibers from cellulose acetate and egg albumen blends. Journal of Food Engineering, 2010, 98, 370-376.	5.2	177
16	Bone scaffolds from electrospun fiber mats of poly(3-hydroxybutyrate), poly(3-hydroxybutyrate-co-3-hydroxyvalerate) and their blend. Polymer, 2007, 48, 1419-1427.	3.8	173
17	Preparation and characterization of jute- and flax-reinforced starch-based composite foams. Carbohydrate Polymers, 2004, 58, 53-63.	10.2	172
18	Polycaprolactone/hydroxyapatite composite scaffolds: Preparation, characterization, and in vitro and in vivo biological responses of human primary bone cells. Journal of Biomedical Materials Research - Part A, 2010, 94A, 241-251.	4.0	165

#	Article	IF	Citations
19	Extraction and electrospinning of gelatin from fish skin. International Journal of Biological Macromolecules, 2008, 42, 247-255.	7.5	161
20	Preparation and characterization of asiaticoside-loaded alginate films and their potential for use as effectual wound dressings. Carbohydrate Polymers, 2011, 83, 1457-1469.	10.2	145
21	Preparation and characterization of Î±-chitin whisker-reinforced poly(vinyl alcohol) nanocomposite films with or without heat treatment. Polymer, 2005, 46, 5637-5644.	3.8	142
22	Development of polycaprolactone porous scaffolds by combining solvent casting, particulate leaching, and polymer leaching techniques for bone tissue engineering. Journal of Biomedical Materials Research - Part A, 2014, 102, 3379-3392.	4.0	138
23	Preparation and characterization of ultrafine electrospun polyacrylonitrile fibers and their subsequent pyrolysis to carbon fibers. Polymer International, 2006, 55, 825-833.	3.1	137
24	Immobilization of Biomolecules on the Surface of Electrospun Polycaprolactone Fibrous Scaffolds for Tissue Engineering. ACS Applied Materials & Interfaces, 2009, 1, 1076-1085.	8.0	137
25	On the electrospinning of poly(vinyl alcohol) nanofiber mats: A revisit. Journal of Applied Polymer Science, 2008, 108, 969-978.	2.6	133
26	Osteoblastic Phenotype Expression of MC3T3-E1 Cultured on Electrospun Polycaprolactone Fiber Mats Filled with Hydroxyapatite Nanoparticles. Biomacromolecules, 2007, 8, 2602-2610.	5.4	131
27	Aliphatic Lipid Substitution on 2 kDa Polyethylenimine Improves Plasmid Delivery and Transgene Expression. Molecular Pharmaceutics, 2009, 6, 1798-1815.	4.6	124
28	In vitro biocompatibility of electrospun poly(3-hydroxybutyrate) and poly(3-hydroxybutyrate-co-3-hydroxyvalerate) fiber mats. International Journal of Biological Macromolecules, 2007, 40, 217-223.	7.5	122
29	Fabrication of Î±-chitin whisker-reinforced poly(vinyl alcohol) nanocomposite nanofibres by electrospinning. Nanotechnology, 2006, 17, 4519-4528.	2.6	121
30	Electrospun Gelatin Fibers: Effect of Solvent System on Morphology and Fiber Diameters. Polymer Journal, 2007, 39, 622-631.	2.7	117
31	Fabrication, structure, and properties of chitin whiskerâ€reinforced alginate nanocomposite fibers. Journal of Applied Polymer Science, 2008, 110, 890-899.	2.6	116
32	Antimicrobial efficacy of a novel silver hydrogel dressing compared to two common silver burn wound dressings: Acticoatâ„¢ and PolyMem SilverÂ®. Burns, 2014, 40, 89-96.	1.9	113
33	Multiple melting behavior in isothermally crystallized poly(trimethylene terephthalate). European Polymer Journal, 2004, 40, 599-608.	5.4	107
34	Preparation and characterization of chitosan-hydroxybenzotriazole/polyvinyl alcohol blend nanofibers by the electrospinning technique. Carbohydrate Polymers, 2010, 81, 675-680.	10.2	102
35	In Vitro Biocompatibility of Schwann Cells on Surfaces of Biocompatible Polymeric Electrospun Fibrous and Solution-Cast Film Scaffolds. Biomacromolecules, 2007, 8, 1587-1594.	5.4	98
36	Electrospinning of hexanoyl chitosan. Carbohydrate Polymers, 2006, 66, 298-305.	10.2	95

#	Article	IF	Citations
37	Non-isothermal melt-crystallization kinetics of poly(trimethylene terephthalate). Polymer Testing, 2004, 23, 817-826.	4.8	94
38	Electrospun mat of tyrosine-derived polycarbonate fibers for potential use as tissue scaffolding material. Journal of Biomaterials Science, Polymer Edition, 2006, 17, 1039-1056.	3.5	94
39	Electrospun cellulose acetate fiber mats containing asiaticoside or Centella asiatica crude extract and the release characteristics of asiaticoside. Polymer, 2008, 49, 4239-4247.	3.8	93
40	The Study of Competitive Adsorption of Heavy Metal Ions from Aqueous Solution by Aminated Polyacrylonitrile Nanofiber Mats. Energy Procedia, 2014, 56, 142-151.	1.8	93
41	Non-isothermal melt crystallization kinetics for poly(trimethylene terephthalate)/poly(butylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10	4.8	91
42	Isothermal melt-crystallization and melting behavior for three linear aromatic polyesters. Thermochimica Acta, 2004, 409, 63-77.	2.7	90
43	Nonisothermal melt-crystallization kinetics for three linear aromatic polyesters. Thermochimica Acta, 2003, 406, 207-220.	2.7	89
44	Wet-spun alginate/chitosan whiskers nanocomposite fibers: Preparation, characterization and release characteristic of the whiskers. Carbohydrate Polymers, 2010, 79, 738-746.	10.2	88
45	Crystalline memory effects in isothermal crystallization of syndiotactic polypropylene. Journal of Applied Polymer Science, 2000, 75, 337-346.	2.6	85
46	Preparation and characterization of hexanoyl chitosan/polylactide blend films. Carbohydrate Polymers, 2005, 60, 343-350.	10.2	85
47	Thermal, crystallization, and rheological characteristics of poly(trimethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 342 Td (te	4.8	83
48	Ultrafine electrospun polyamide-6 fibers: Effect of emitting electrode polarity on morphology and average fiber diameter. Journal of Polymer Science, Part B: Polymer Physics, 2005, 43, 3699-3712.	2.1	81
49	Preparation of electrospun silk fibroin fiber mats as bone scaffolds: a preliminary study. Biomedical Materials (Bristol), 2007, 2, 181-188.	3.3	81
50	Development of bacterial cellulose/alginate/chitosan composites incorporating copper (II) sulfate as an antibacterial wound dressing. Journal of Drug Delivery Science and Technology, 2019, 51, 662-671.	3.0	79
51	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.	4.1	78
52	Effects of calcium carbonate and its purity on crystallization and melting behavior, mechanical properties, and processability of syndiotactic polypropylene. Journal of Applied Polymer Science, 2004, 92, 201-212.	2.6	77
53	Electrospun fiber mats of poly(3-hydroxybutyrate), poly(3-hydroxybutyrate-co-3-hydroxyvalerate), and their blends. Journal of Polymer Science, Part B: Polymer Physics, 2006, 44, 2923-2933.	2.1	77
54	Thermal, crystallization, mechanical, and rheological characteristics of poly(trimethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 Td (te Physics, 2004, 42, 676-686.	2.1	76

#	Article	IF	Citations
55	Novel Bone Scaffolds of Electrospun Polycaprolactone Fibers Filled with Nanoparticles. Journal of Nanoscience and Nanotechnology, 2006, 6, 514-522.	0.9	76
56	Crystalline memory effect in isothermal crystallization of syndiotactic polypropylenes: effect of fusion temperature on crystallization and melting behavior. Polymer, 2001, 42, 9617-9626.	3.8	75
57	Electrospinning of hexanoyl chitosan/polylactide blends. Journal of Biomaterials Science, Polymer Edition, 2006, 17, 547-565.	3.5	75
58	Development of Gelatin Hydrogel Pads as Antibacterial Wound Dressings. Macromolecular Bioscience, 2009, 9, 1004-1015.	4.1	74
59	Nonisothermal bulk crystallization and subsequent melting behavior of syndiotactic polypropylenes: Crystallization from the melt state. Journal of Applied Polymer Science, 2000, 78, 338-354.	2.6	72
60	Effects of Poly(ethylene glycol), Inorganic Salt, Sodium Dodecyl Sulfate, and Solvent System on Electrospinning of Poly(ethylene oxide). Macromolecular Materials and Engineering, 2006, 291, 581-591.	3.6	72
61	Electrospun gelatin fiber mats containing a herbalâ€"Centella asiaticaâ€"extract and release characteristic of asiaticoside. Nanotechnology, 2008, 19, 015102.	2.6	72
62	Development of Meloxicam-Loaded Electrospun Polyvinyl Alcohol Mats as a Transdermal Therapeutic Agent. Pharmaceutical Development and Technology, 2009, 14, 73-82.	2.4	72
63	Biodegradable alginate microparticles developed by electrohydrodynamic spraying techniques for oral delivery of protein. Journal of Microencapsulation, 2009, 26, 563-570.	2.8	72
64	The efficacy of polycaprolactone/hydroxyapatite scaffold in combination with mesenchymal stem cells for bone tissue engineering. Journal of Biomedical Materials Research - Part A, 2016, 104, 264-271.	4.0	72
65	Preparation and characterization of starch/poly(l-lactic acid) hybrid foams. Carbohydrate Polymers, 2005, 59, 329-337.	10.2	71
66	Titanium (IV) oxide nanofibers by combined solâ€"gel and electrospinning techniques: preliminary report on effects of preparation conditions and secondary metal dopant. Science and Technology of Advanced Materials, 2005, 6, 240-245.	6.1	70
67	Effect of calcium stearate and pimelic acid addition on mechanical properties of heterophasic isotactic polypropylene/ethyleneâ€"propylene rubber blend. Polymer Testing, 2004, 23, 533-539.	4.8	69
68	Application of the Avrami, Tobin, Malkin, and Urbanoviciâ€"Segal macrokinetic models to isothermal crystallization of syndiotactic polypropylene. Thermochimica Acta, 2001, 370, 37-48.	2.7	68
69	Surface-modified calcium carbonate particles by admicellar polymerization to be used as filler for isotactic polypropylene. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2006, 275, 114-125.	4.7	68
70	Ultrafine Electrospun Polyamide-6 Fibers: Effects of Solvent System and Emitting Electrode Polarity on Morphology and Average Fiber Diameter. Macromolecular Materials and Engineering, 2005, 290, 933-942.	3.6	67
71	In situ microfibrillar-reinforced composites of isotactic polypropylene/recycled poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 1173-1181.	2.6	64
72	Crystallization and melting behavior in syndiotactic polypropylene: Origin of multiple melting phenomenon. Journal of Applied Polymer Science, 2001, 82, 1083-1097.	2.6	63

#	Article	IF	Citations
73	Effects of Solution Concentration, Emitting Electrode Polarity, Solvent Type, and Salt Addition on Electrospun Polyamide-6 Fibers: A Preliminary Report. Macromolecular Symposia, 2004, 216, 293-300.	0.7	63
74	Melt rheology and extrudate swell of calcium carbonate nanoparticle-filled isotactic polypropylene. Polymer Testing, 2005, 24, 2-11.	4.8	63
75	Novel Chitosan-Spotted Alginate Fibers from Wet-Spinning of Alginate Solutions Containing Emulsified Chitosanâ^'Citrate Complex and their Characterization. Biomacromolecules, 2009, 10, 320-327.	5.4	63
76	Hydrogels containing silver nanoparticles for burn wounds show antimicrobial activity without cytotoxicity. Journal of Applied Polymer Science, 2014, 131, .	2.6	63
77	The Influence of Solvent Properties and Functionality on the Electrospinnability of Polystyrene Nanofibers. Macromolecular Materials and Engineering, 2006, 291, 840-847.	3.6	62
78	Novel copper (II) alginate hydrogels and their potential for use as anti-bacterial wound dressings. Biomedical Materials (Bristol), 2014, 9, 045008.	3.3	61
79	Hard-coating materials for poly(methyl methacrylate) from glycidoxypropyltrimethoxysilane-modified silatrane via a solâ€“gel process. Surface and Coatings Technology, 2006, 200, 2784-2790.	4.8	59
80	In vitro biocompatibility of electrospun and solvent-cast chitosan substrata towards Schwann, osteoblast, keratinocyte and fibroblast cells. European Polymer Journal, 2010, 46, 428-440.	5.4	59
81	Thermal and crystallization characteristics of poly(trimethylene terephthalate)/poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10	5.4	58
82	Xâ€ray diffraction and dynamic mechanical analyses of Î±â€chitin whiskerâ€reinforced poly(vinyl alcohol) nanocomposite nanofibers. Polymer International, 2010, 59, 85-91.	3.1	57
83	Polypyrrole-coated electrospun poly(lactic acid) fibrous scaffold: effects of coating on electrical conductivity and neural cell growth. Journal of Biomaterials Science, Polymer Edition, 2014, 25, 1240-1252.	3.5	57
84	Characterisation of beta-chitin/poly(vinyl alcohol) blend films. Polymer Testing, 2003, 22, 381-387.	4.8	56
85	Preparation of Hydrolyzed Electrospun Polyacrylonitrile Fiber Mats as Chelating Substrates: A Case Study on Copper(II) Ions. Industrial & Engineering Chemistry Research, 2011, 50, 11912-11921.	3.7	56
86	In vitro biocompatibility of electrospun hexanoyl chitosan fibrous scaffolds towards human keratinocytes and fibroblasts. European Polymer Journal, 2008, 44, 2060-2067.	5.4	52
87	Electrospinning of Biocompatible Polymers and Their Potentials in Biomedical Applications. Advances in Polymer Science, 2011, , 213-239.	0.8	52
88	Thermal properties and isothermal crystallization of syndiotactic polypropylenes: Differential scanning calorimetry and overall crystallization kinetics. Journal of Applied Polymer Science, 2000, 75, 44-59.	2.6	51
89	Tuning Hydrophobicity and Water Adhesion by Electrospinning and Silanization. Langmuir, 2011, 27, 3654-3661.	3.5	51
90	Effects of processing parameters on morphology of electrospun polystyrene nanofibers. Korean Journal of Chemical Engineering, 2012, 29, 173-181.	2.7	49

#	Article	IF	Citations
91	Non-isothermal melt- and cold-crystallization kinetics of poly(3-hydroxybutyrate). Polymer Testing, 2006, 25, 807-818.	4.8	48
92	Silver nanoparticles-based hydrogel: Characterization of material parameters for pressure ulcer dressing applications. Journal of Drug Delivery Science and Technology, 2018, 44, 91-100.	3.0	48
93	Mechanical and electro-rheological properties of electrospun poly(vinyl alcohol) nanofibre mats filled with carbon black nanoparticles. Nanotechnology, 2007, 18, 145705.	2.6	47
94	The use of electrospun curcumin-loaded poly(L-lactic acid) fiber mats as wound dressing materials. Journal of Drug Delivery Science and Technology, 2019, 53, 101121.	3.0	47
95	Nonisothermal bulk crystallization studies of high density polyethylene using light depolarizing microscopy. Journal of Polymer Science, Part B: Polymer Physics, 1998, 36, 681-692.	2.1	46
96	Gallic Acidâ€Loaded Electrospun Poly(<scp>L</scp>â€Lactic Acid) Fiber Mats and their Release Characteristic. Macromolecular Chemistry and Physics, 2009, 210, 814-822.	2.2	46
97	In vitro efficacy and toxicology evaluation of silver nanoparticleâ€loaded gelatin hydrogel pads as antibacterial wound dressings. Journal of Applied Polymer Science, 2012, 124, 1668-1682.	2.6	46
98	Process optimization of electrospun silk fibroin fiber mat for accelerated wound healing. Journal of Applied Polymer Science, 2013, 130, 3634-3644.	2.6	46
99	Development and Characterization of a Novel, Antimicrobial, Sterile Hydrogel Dressing for Burn Wounds: Singleâ€Step Production with Gamma Irradiation Creates Silver Nanoparticles and Radical Polymerization. Journal of Pharmaceutical Sciences, 2014, 103, 3244-3253.	3.3	45
100	Fabrication of Aligned Poly(vinyl alcohol) Nanofibers by Electrospinning. Journal of Nanoscience and Nanotechnology, 2006, 6, 125-129.	0.9	45
101	Characterization of starch/poly(Îµ-caprolactone) hybrid foams. Polymer Testing, 2004, 23, 651-657.	4.8	43
102	Non-isothermal melt-crystallization and mechanical properties of titanium(IV) oxide nanoparticle-filled isotactic polypropylene. Polymer Testing, 2007, 26, 20-37.	4.8	43
103	Effect of cross-linking on properties and release characteristics of sodium salicylate-loaded electrospun poly(vinyl alcohol) fibre mats. Nanotechnology, 2007, 18, 175102.	2.6	42
104	Silk sericin loaded alginate nanoparticles: Preparation and anti-inflammatory efficacy. International Journal of Biological Macromolecules, 2015, 80, 636-643.	7.5	41
105	In vitro biocompatibility evaluations of hexanoyl chitosan film. Carbohydrate Polymers, 2007, 68, 166-172.	10.2	40
106	Electrospun DOXY-h loaded-poly(acrylic acid) nanofiber mats:in vitrodrug release and antibacterial properties investigation. Journal of Biomaterials Science, Polymer Edition, 2014, 25, 1292-1305.	3.5	40
107	Color Change of Electrospun Polystyrene/MEH-PPV Fibers from Orange to Yellow through Partial Decomposition of MEH Side Groups. Macromolecular Rapid Communications, 2007, 28, 651-659.	3.9	37
108	Electrospun 1,6-diisocyanatohexane-extended poly(1,4-butylene succinate) fiberÂmats and their potential for use as bone scaffolds. Polymer, 2009, 50, 1548-1558.	3.8	37

#	Article	IF	Citations
109	Electrospinning of polystyrene/poly(2-methoxy-5-(2â€²-ethylhexyloxy)-1,4-phenylene vinylene) blends. Journal of Polymer Science, Part B: Polymer Physics, 2005, 43, 1881-1891.	2.1	36
110	Fibrous zinc oxide prepared by combined electrospinning and solvothermal techniques. Ceramics International, 2010, 36, 357-363.	4.8	36
111	Preparation, characterization, and antibacterial properties of electrospun polyacrylonitrile fibrous membranes containing silver nanoparticles. Journal of Applied Polymer Science, 2010, 116, 1967-1976.	2.6	36
112	Protein adsorption and cell behaviors on polycaprolactone film: The effect of surface topography. Advances in Polymer Technology, 2018, 37, 2030-2042.	1.7	36
113	Preparation and Characterization of Polycaprolactone/Diclofenac Sodium and Poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 Journal, 2007, 39, 369-378.	2.7	35
114	Electrospun dextran fibrous membranes. Cellulose, 2008, 15, 435-444.	4.9	35
115	DEVELOPMENT OF POLYCAPROLACTONE POROUS SCAFFOLDS BY COMBINING SOLVENT CASTING, PARTICULATE LEACHING, AND POLYMER LEACHING TECHNIQUES FOR BONE TISSUE ENGINEERING. Journal of Biomedical Materials Research - Part A, 2013, 102, n/a-n/a.	4.0	35
116	Mechanical properties of injection-molded isotactic polypropylene/roselle fiber composites. Journal of Applied Polymer Science, 2006, 101, 3291-3300.	2.6	34
117	Preparation and Characterization of Caffeic Acid-Grafted Electrospun Poly(<scp>l</scp>-Lactic Acid) Fiber Mats for Biomedical Applications. ACS Applied Materials & Interfaces, 2012, 4, 3031-3040.	8.0	34
118	Semi-solid poly(vinyl alcohol) hydrogels containing ginger essential oil encapsulated in chitosan nanoparticles for use in wound management. Journal of Polymer Research, 2019, 26, 1.	2.4	34
119	Non-isothermal melt crystallization kinetics for ethyleneâ€“acrylic acid copolymers and ethyleneâ€“methyl acrylateâ€“acrylic acid terpolymers. European Polymer Journal, 2004, 40, 829-838.	5.4	33
120	Porous polyethylene membranes by template-leaching technique: preparation and characterization. Polymer Testing, 2004, 23, 91-99.	4.8	32
121	Development of silver nanoparticles-loaded calcium alginate beads embedded in gelatin scaffolds for use as wound dressings. Polymer International, 2015, 64, 275-283.	3.1	32
122	Preparation, characterization and biocompatibility of poly(vinyl alcohol) films containing tetracycline hydrochloride-loaded quaternized chitosan nanoparticles. Journal of Drug Delivery Science and Technology, 2017, 38, 36-44.	3.0	32
123	Nonisothermal cold-crystallization kinetics of poly(trimethylene terephthalate). Journal of Polymer Science, Part B: Polymer Physics, 2004, 42, 4151-4163.	2.1	31
124	Influence of molecular characteristics on non-isothermal melt-crystallization kinetics of syndiotactic polypropylene. Polymer Testing, 2004, 23, 881-895.	4.8	31
125	Development of polyelectrolyte multilayer-coated electrospun cellulose acetate fiber mat as composite membranes. European Polymer Journal, 2008, 44, 3963-3968.	5.4	31
126	In vitro biological evaluation of electrospun cellulose acetate fiber mats containing asiaticoside or curcumin. Journal of Biomedical Materials Research - Part A, 2010, 94A, 1216-1225.	4.0	31

#	Article	IF	Citations
127	Electrospun nanofiber layers with incorporated photoluminescence indicator for chromatography and detection of ultraviolet-active compounds. Journal of Chromatography A, 2013, 1299, 110-117.	3.7	31
128	Effect of gamma radiation on dilute aqueous solutions and thin films of N-succinyl chitosan. Polymer Degradation and Stability, 2010, 95, 234-244.	5.8	30
129	Biologically Inspired Hierarchical Design of Nanocomposites Based on Poly(ethylene oxide) and Cellulose Nanofibers. Macromolecular Rapid Communications, 2011, 32, 1367-1372.	3.9	29
130	Antimicrobial mangosteen extract infused alginate-coated gauze wound dressing. Journal of Drug Delivery Science and Technology, 2017, 41, 182-190.	3.0	29
131	Electrospinning of methacrylate-based copolymers: Effects of solution concentration and applied electrical potential on morphological appearance of as-spun fibers. Polymer Engineering and Science, 2005, 45, 1073-1080.	3.1	28
132	Development of gelatin hydrogel pads incorporated with Eupatorium adenophorum essential oil as antibacterial wound dressing. Polymer Bulletin, 2019, 76, 701-724.	3.3	28
133	Effectual drug-releasing porous scaffolds from 1,6-diisocyanatohexane-extended poly(1,4-butylene) Tj ETQq1 1 0.784314 rgBT /Overlo	3.8	27
134	Morphology, Release Characteristics, and Antimicrobial Effect of Nisin-Loaded Electrospun Gelatin Fiber Mat. Journal of Food Protection, 2009, 72, 2293-2300.	1.7	27
135	Preparation and properties of Î±â€chitinâ€whiskerâ€reinforced hyaluronanâ€“gelatin nanocomposite scaffolds. Journal of Applied Polymer Science, 2010, 117, 3406-3418.	2.6	27
136	Improvement of dual-leached polycaprolactone porous scaffolds by incorporating with hydroxyapatite for bone tissue regeneration. Journal of Biomaterials Science, Polymer Edition, 2014, 25, 1986-2008.	3.5	27
137	Silver nanoparticle-embedded poly(vinyl pyrrolidone) hydrogel dressing: gamma-ray synthesis and biological evaluation. Journal of Biomaterials Science, Polymer Edition, 2014, 25, 826-842.	3.5	26
138	Gamma irradiation synthesis and characterization of AgNP/gelatin/PVA hydrogels for antibacterial wound dressings. Journal of Applied Polymer Science, 2014, 131, .	2.6	26
139	Rotating-disk electrospinning: needleless electrospinning of poly(caprolactone), poly(lactic acid) and poly(vinyl alcohol) nanofiber mats with controlled morphology. Journal of Polymer Research, 2018, 25, 1.	2.4	26
140	Melt rheology and extrudate swell of titanium (IV) oxide nanoparticle-filled isotactic polypropylene: Effects of content and surface characteristics. Polymer Testing, 2008, 27, 951-956.	4.8	25
141	Preparation and Characterization of Silver Nanoparticles-Loaded Calcium Alginate Beads Embedded in Gelatin Scaffolds. AAPS PharmSciTech, 2014, 15, 1105-1115.	3.3	25
142	Electrospun crosslinked poly(acrylic acid) fiber constructs: towards a synthetic model of the cortical layer of nerve. Polymer International, 2015, 64, 42-48.	3.1	25
143	The responses of human adipose-derived mesenchymal stem cells on polycaprolactone-based scaffolds: an in vitro study. Tissue Engineering and Regenerative Medicine, 2014, 11, 239-246.	3.7	24
144	Electrospinnability of poly(butylene succinate): Effects of solvents and organic salt on the fiber size and morphology. Journal of Applied Polymer Science, 2015, 132, .	2.6	24

#	Article	IF	Citations
145	Development of antituberculosis melt-blown polypropylene filters coated with mangosteen extracts for medical face mask applications. Polymer Bulletin, 2019, 76, 1985-2004.	3.3	24
146	Preparation and Properties of Starch/Poly(vinyl alcohol) Composite Foams. Macromolecular Symposia, 2004, 216, 217-228.	0.7	23
147	Preparation of Ultraâ€Fine Silica Fibers Using Electrospun Poly(Vinyl Alcohol)/Silatrane Composite Fibers as Precursor. Journal of the American Ceramic Society, 2008, 91, 2830-2835.	3.8	23
148	Electrospun poly(l-lactic acid) fiber mats containing crude Garcinia mangostana extracts for use as wound dressings. Polymer Bulletin, 2014, 71, 925-949.	3.3	23
149	Surface modification of electrospun chitosan nanofibrous mats for antibacterial activity. Journal of Applied Polymer Science, 2014, 131, .	2.6	23
150	Fabrication and Evaluation of Polycaprolactoneâ€“Poly(hydroxybutyrate) or Poly(3â€Hydroxybutyrateâ€coâ€3â€Hydroxyvalerate) Dualâ€Leached Porous Scaffolds for Bone Tissue Engineering Applications. Macromolecular Materials and Engineering, 2017, 302, 1600289.	3.6	23
151	Electrospun poly(vinyl alcohol) fiber mats as carriers for extracts from the fruit hull of mangosteen. Journal of Cosmetic Science, 2008, 59, 233-42.	0.1	23
152	Effects of crystalline and orientational memory phenomena on the isothermal bulk crystallization and subsequent melting behavior of poly(trimethylene terephthalate). Polymer International, 2004, 53, 1118-1126.	3.1	22
153	Effect of Nucleating Agents on Crystallization and Melting Behavior and Mechanical Properties of Nucleated Syndiotactic Poly(propylene). Macromolecular Materials and Engineering, 2004, 289, 818-827.	3.6	22
154	Thermal stability of isotactic polypropylene modified with calcium carbonate nanoparticles. Polymer Bulletin, 2010, 64, 783-790.	3.3	22
155	Electrospun Methacrylate-Based Copolymer/Indomethacin Fibers and Their Release Characteristics of Indomethacin. Journal of Polymer Research, 2007, 14, 53-59.	2.4	21
156	Preparation of mangosteen extract-loaded poly(vinyl acetate) for use as an antibacterial spray-on dressing. Journal of Drug Delivery Science and Technology, 2018, 46, 322-329.	3.0	21
157	Cyclic tensile force stimulates BMP9 synthesis and in vitro mineralization by human periodontal ligament cells. Journal of Cellular Physiology, 2019, 234, 4528-4539.	4.1	21
158	Nonisothermal bulk crystallization of high-density polyethylene via a modified depolarized light microscopy technique: Further analysis. Journal of Applied Polymer Science, 2002, 86, 1009-1022.	2.6	20
159	Influences of thermal aging on properties and pyrolysis products of tire tread compound. Journal of Analytical and Applied Pyrolysis, 2007, 80, 269-276.	5.5	19
160	Effect of the Surface Topography of Electrospun Poly(Îµ-caprolactone)/Poly(3-hydroxybuterate-co-3-hydroxyvalerate) Fibrous Substrates on Cultured Bone Cell Behavior. Langmuir, 2011, 27, 10938-10946.	3.5	19
161	Unbiased evaluation of literature data on equilibrium melting temperature and enthalpy of fusion of perfectly syndiotactic polypropylene. Journal of Applied Polymer Science, 2001, 79, 1603-1609.	2.6	18
162	Hydrogel wound dressings loaded with PLGA/ciprofloxacin hydrochloride nanoparticles for use on pressure ulcers. Journal of Drug Delivery Science and Technology, 2018, 47, 106-114.	3.0	18

#	Article	IF	Citations
163	Surface immobilization of PCL electrospun nanofibers with pexiganan for wound dressing. Journal of Polymer Research, 2021, 28, 1.	2.4	18
164	Isothermal melt crystallization and melting behaviour of syndiotactic polypropylene. Polymer International, 2000, 49, 1473-1482.	3.1	17
165	Nonisothermal melt-crystallization kinetics of syndiotactic polypropylene compounded with various nucleating agents. Journal of Applied Polymer Science, 2005, 95, 245-253.	2.6	17
166	Photocatalytic Activity of Neat and Silicon-Doped Titanium(IV)Oxide Nanofibers Prepared by Combined Solâ€“Gel and Electrospinning Techniques. Journal of Nanoscience and Nanotechnology, 2007, 7, 2443-2450.	0.9	17
167	Effect of casting solvent on characteristics of hexanoyl chitosan/polylactide blend films. Journal of Applied Polymer Science, 2007, 105, 1844-1852.	2.6	17
168	Hybrid biomimetic electrospun fibrous mats derived from poly(Îµâ€•caprolactone) and silk fibroin protein for wound dressing application. Journal of Applied Polymer Science, 2015, 132, .	2.6	17
169	Development of an electrospinning-based rapid prototyping for scaffold fabrication. Rapid Prototyping Journal, 2015, 21, 329-339.	3.2	17
170	Effect of the surface topography and chemistry of poly(3-hydroxybutyrate) substrates on cellular behavior of the murine neuroblastoma Neuro2a cell line. Polymer Bulletin, 2017, 74, 4101-4118.	3.3	17
171	Electrospinning: a carbonized gold/graphene/PAN nanofiber for high performance biosensing. Analytical Methods, 2018, 10, 874-883.	2.7	17
172	The potential use of cross-linked alginate/gelatin hydrogels containing silver nanoparticles for wound dressing applications. Polymer Bulletin, 2020, 77, 2679-2695.	3.3	17
173	Rheological and isothermal crystallization characteristics of neat and calcium carbonate-filled syndiotactic polypropylene. Journal of Applied Polymer Science, 2006, 100, 4515-4525.	2.6	16
174	Enhancement of biocompatibility on aligned electrospun poly(3â€•hydroxybutyrate) scaffold immobilized with laminin towards murine neuroblastoma Neuro2a cell line and rat brainâ€•derived neural stem cells (mNSCs). Polymers for Advanced Technologies, 2018, 29, 2050-2063.	3.2	16
175	Cyclic tensile force-upregulated IL6 increases MMP3 expression by human periodontal ligament cells. Archives of Oral Biology, 2019, 107, 104495.	1.8	16
176	Effect of small amount of poly(ethylene naphthalate) on isothermal crystallization and spherulitic morphology of poly(trimethylene terephthalate). Polymer Testing, 2007, 26, 985-1000.	4.8	15
177	Electrospun poly(<scp>L</scp>â€•lactic acid)/hydroxyapatite composite fibrous scaffolds for bone tissue engineering. Polymer International, 2010, 59, 227-235.	3.1	15
178	Melt rheology and extrudate swell of low-density polyethylene/ethyleneâ€“octene copolymer blends. Polymer Testing, 2006, 25, 888-895.	4.8	14
179	The Control of Thermal and Radiation Stability of Polypropylene Containing Calcium Carbonate Nanoparticles. Macromolecular Symposia, 2006, 242, 319-324.	0.7	14
180	Removal of solvent-based ink from printed surface of high-density polyethylene bottles by alkyltrimethylammonium bromides: Effects of pH, temperature, and salinity. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 297, 163-171.	4.7	14

#	Article	IF	Citations
181	Melt rheology and extrudate swell of sodium chloride-filled low-density polyethylene: Effects of content and size of salt particles. Polymer Testing, 2010, 29, 188-195.	4.8	14
182	Gelatin scaffolds functionalized by silver nanoparticle-containing calcium alginate beads for wound care applications. Polymers for Advanced Technologies, 2017, 28, 849-858.	3.2	14
183	Electrospinning of Styrene-Isoprene Copolymeric Thermoplastic Elastomers. Polymer Journal, 2006, 38, 961-969.	2.7	13
184	Hydroxyapatite/ovalbumin composite particles as model protein carriers for bone tissue engineering: I. Synthesis and characterization. Materials Science and Engineering C, 2012, 32, 758-762.	7.3	13
185	Electrospinning and solid state polymerization: A simple and versatile route to conducting PEDOT composite films. European Polymer Journal, 2017, 96, 452-462.	5.4	13
186	Effects of Magnesium and Zirconium Dopants on Characteristics of Titanium(IV) Oxide Fibers Prepared by Combined Solâ€“Gel and Electrospinning Techniques. Industrial & Engineering Chemistry Research, 2011, 50, 8042-8049.	3.7	12
187	Use of 2-hydroxypropyl-Î²-cyclodextrin as adjuvant for enhancing encapsulation and release characteristics of asiaticoside within and from cellulose acetate films. Carbohydrate Polymers, 2011, 85, 251-260.	10.2	12
188	Electrospun poly(L-lactic acid) fiber mats containing a crude Garcinia cowa extract for wound dressing applications. Journal of Polymer Research, 2012, 19, 1.	2.4	12
189	Preparation and characterization of electrospun polyacrylonitrile fiber mats containing Garcinia mangostana. Polymer Bulletin, 2018, 75, 1311-1327.	3.3	12
190	Carbonized electrospun polyvinylpyrrolidone/metal hybrid nanofiber composites for electrochemical applications. Journal of Applied Polymer Science, 2018, 135, 45639.	2.6	12
191	Polydiphenylamineâ€“polyethylene oxide blends as methanol sensing materials. Advances in Polymer Technology, 2012, 31, 401-413.	1.7	11
192	Preparation and characterization of electrospun poly(vinyl alcohol) nanofibers containing platinum or platinum-ruthenium nanoparticles. Journal of Polymer Research, 2013, 20, 1.	2.4	11
193	Effects of copolymer microstructure on the properties of electrospun poly(l-lactide-co-Îµ-caprolactone) absorbable nerve guide tubes. Journal of Applied Polymer Science, 2013, 130, n/a-n/a.	2.6	11
194	Influence of molecular characteristics on overall isothermal melt-crystallization behavior and equilibrium melting temperature of syndiotactic polypropylene. European Polymer Journal, 2004, 40, 1671-1682.	5.4	10
195	Ultrafine electrospun poly(ethylene glycol)â€“polydimethylsiloxaneâ€“poly(ethylene glycol) triblock copolymer/poly(ethylene oxide) blend fibers. Materials Letters, 2006, 60, 2920-2924.	2.6	10
196	Fabrication and characterization of neat and aluminium-doped titanium (IV) oxide fibers prepared by combined solâ€“gel and electrospinning techniques. Ceramics International, 2010, 36, 2055-2061.	4.8	10
197	Modification of disposable screenâ€printed carbon electrode surfaces with conductive electrospun nanofibers for biosensor applications. Journal of Applied Polymer Science, 2013, 130, 3885-3893.	2.6	10
198	Environmental effects in fibre fabrication using electrospinning-based rapid prototyping. Virtual and Physical Prototyping, 2015, 10, 227-237.	10.4	10

#	Article	IF	Citations
199	Green synthesis of photomediated silver nanoprisms via a light-induced transformation reaction and silver nanoprism-impregnated bacteria cellulose films for use as antibacterial wound dressings. Journal of Drug Delivery Science and Technology, 2019, 54, 101305.	3.0	10
200	Preparation of bioactive glycosylated glial cellâ€line derived neurotrophic factorâ€loaded microspheres for medical applications. Journal of Applied Polymer Science, 2014, 131, .	2.6	9
201	Development and characterization of antibacterial hydroxyapatite coated with mangosteen extract for bone tissue engineering. Polymer Bulletin, 2021, 78, 3543-3559.	3.3	9
202	Development of thermoresponsive poloxamer in situ gel loaded with gentamicin sulfate for cavity wounds. Journal of Polymer Research, 2021, 28, 1.	2.4	9
203	Wound-aided semi-solid poly(vinyl alcohol) hydrogels incorporating essential oil-loaded chitosan nanoparticles. International Journal of Biological Macromolecules, 2021, 189, 135-141.	7.5	9
204	Dilute solution properties of hexanoyl chitosan in chloroform, dichloromethane, and tetrahydrofuran. Carbohydrate Polymers, 2006, 64, 175-183.	10.2	8
205	Isotactic Poly(propylene)/Wood Sawdust Composite: Effects of Natural Weathering, Water Immersion, and Gammaâ€Ray Irradiation on Mechanical Properties. Macromolecular Symposia, 2008, 264, 59-66.	0.7	8
206	Carbendazimâ€loaded electrospun poly(vinyl alcohol) fiber mats and release characteristics of carbendazim therefrom. Polymers for Advanced Technologies, 2011, 22, 1366-1374.	3.2	8
207	Development of a disposable electrode modified with carbonized, grapheneâ€loaded nanofiber for the detection of dopamine in human serum. Journal of Applied Polymer Science, 2014, 131, .	2.6	8
208	Experimental investigation on process parameters of near-field deposition of electrospinning-based rapid prototyping. Virtual and Physical Prototyping, 2016, 11, 193-207.	10.4	8
209	Proton Exchange Membrane Based on Sulfonated Poly (Aromatic Imide-Co-Aliphatic Imide) for Direct Methanol Fuel Cell. Materials Research, 2018, 21, .	1.3	8
210	Non-isothermal melt-crystallization and subsequent melting behavior of pigmented medium-density polyethylene. Polymer Testing, 2005, 24, 873-885.	4.8	7
211	Removal of solvent-based ink from printed surface of HDPE bottles by alkyltrimethylammonium bromides: effects of surfactant concentration and alkyl chain length. Colloid and Polymer Science, 2006, 284, 980-989.	2.1	7
212	Characterization and cytological effects of a novel glycated gelatine substrate. Biomedical Materials (Bristol), 2014, 9, 025001.	3.3	7
213	Gelatin scaffolds loaded with asiaticoside/<scp>2â€hydroxypropylâ€Î²</scp>â€cyclodextrin complex for use as wound dressings. Polymers for Advanced Technologies, 2021, 32, 1187-1193.	3.2	7
214	Morphology and Photophysical Properties of Electrospun Lightâ€Emitting Polystyrene/Poly(pâ€phenylene ethynylene) Fibers. Macromolecular Materials and Engineering, 2008, 293, 952-963.	3.6	6
215	Preparation and Physico-Chemical Characteristics of N-Maleoyl Chitosan Films. Macromolecular Symposia, 2008, 264, 121-126.	0.7	6
216	Stochastic simulation for morphological development during the isothermal crystallization of semicrystalline polymers: A case study of syndiotactic polypropylene. Journal of Applied Polymer Science, 2009, 111, 2260-2268.	2.6	6

#	Article	IF	Citations
217	Performance of Electropun Polyacrylonitrile Nanofibrous Phases, Shown for the Separation of Water-Soluble Food Dyes via UTLC-Vis-ESI-MS. Nanomaterials, 2017, 7, 218.	4.1	6
218	The potential use of gentamicin sulfate-loaded poly(l-lactic acid)-sericin hybrid scaffolds for bone tissue engineering. Polymer Bulletin, 2019, 76, 2867-2885.	3.3	6
219	Polycarbonate microfilters by nuclear tracking and chemical etching (track-etching) technique: Preparation and characterization. Journal of Applied Polymer Science, 2006, 101, 982-990.	2.6	5
220	Preparation of Ultrafine TiO₂ Nanofibers and their Application in Removal of NO_x in Air. Materials Science Forum, 2008, 569, 25-28.	0.3	5
221	Preparation of poly(vinyl alcohol)/tin glycolate composite fibers by combined solâ€“gel/electrospinning techniques and their conversion to ultrafine tin oxide fibers. Materials Chemistry and Physics, 2010, 119, 175-181.	4.0	5
222	Applications of Cellulose Acetate Nanofiber Mats. , 2015, , 355-368.		5
223	Synthesis of Cationic Waterborne Polyurethanes from Waste Frying Oil as Antibacterial Film Coatings. International Journal of Polymer Science, 2019, 2019, 1-11.	2.7	5
224	Electrospinning of Asiaticoside/2-Hydroxypropyl-Î²-cyclodextrin Inclusion Complex-loaded Cellulose Acetate Fiber Mats: Release Characteristics and Potential for Use as Wound Dressing. Porrime, 2014, 38, 338-350.	0.2	5
225	Preparation of Ultrafine Poly(ethylene oxide)/Poly(ethylene glycol) Fibers Containing Silver Nanoparticles as Antibacterial Coating. , 2007, , .		4
226	Miscibility, Isothermal Crystallization/Melting Behavior and Morphology of Poly(Trimethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 243-248.	0.2	4
227	Blends of ethylene-methyl acrylate-acrylic acid terpolymers with ethylene-acrylic acid copolymers: Mechanical and thermomechanical properties. Journal of Applied Polymer Science, 2004, 91, 2216-2222.	2.6	3
228	Versatile route for tuning optical properties of poly(2â€•methoxyâ€•5â€(2â€²â€•ethylhexyloxy)â€•1,4â€•phenylenevinylene). Journal of Polymer Science, Part B: Polymer Physics, 2009, 47, 696-705.	2.1	3
229	Electrically Conductive Ultrafine Fibers of PVA-PEDOT/PSS and PVA-AgNPs by Means of Electrospinning. Advanced Materials Research, 2014, 1033-1034, 1024-1035.	0.3	3
230	Immobilization of osteopontin on poly(Îµ-caprolactone) scaffolds by polyelectrolyte multilayer deposition to improve the osteogenic differentiation of MC3T3-E1 cells. Polymer Bulletin, 2022, 79, 4667-4684.	3.3	3
231	Conductive Nanocomposite Aligned Fibers of PVA-AgNPs-PEDOT/PSS. Advanced Materials Research, 0, 1033-1034, 1009-1019.	0.3	1
232	Aliphatic Lipid Substitution on 2 kDa Polyethylenimine Improves Plasmid Delivery and Transgene Expression. Molecular Pharmaceutics, 2010, 7, 618-618.	4.6	0
233	Improvement of Hydrophilic Properties on Electrospun Polyacrylonitrile Fabrics Surface by Plasma Treatment. Advanced Materials Research, 2011, 213, 103-106.	0.3	0
234	Biological responses of MC3T3-E1 cultured on poly(□-caprolactone) sponge scaffolds filled with crude bone protein-loaded hydroxyapatite nanoparticles. , 2012, , .		0

#	Article	IF	Citations
235	Adsorption study of bovine serum albumin onto multiwalled carbon nanotubes. Materials Today: Proceedings, 2020, 33, 1814-1818.	1.8	0
236	Environmental Effects in Fiber Fabrication Using Electrospinning-Based Rapid Prototyping. , 2014, , .		0
237	Fabrication of aligned poly (vinyl alcohol) nanofibers by electrospinning. Journal of Nanoscience and Nanotechnology, 2006, 6, 125-9.	0.9	0