Pitt Supaphol

List of Publications by Citations

234 papers	12,306 citations	63 h-index	102 g-index
240 ext. papers	13,177 ext. citations	3.9 avg, IF	6.6 L-index

#	Paper	IF	Citations
234	A review on wound dressings with an emphasis on electrospun nanofibrous polymeric bandages. *Polymers for Advanced Technologies*, **2010**, 21, 77-95	3.2	501
233	Wound-dressing materials with antibacterial activity from electrospun gelatin fiber mats containing silver nanoparticles. *Polymer*, **2008**, 49, 4723-4732	3.9	441
232	Ultrafine Electrospun Polyamide-6 Fibers: Effect of Solution Conditions on Morphology and Average Fiber Diameter. *Macromolecular Chemistry and Physics*, **2004**, 205, 2327-2338	2.6	383
231	Effect of solvents on electro-spinnability of polystyrene solutions and morphological appearance of resulting electrospun polystyrene fibers. *European Polymer Journal*, **2005**, 41, 409-421	5.2	330
230	Effects of solvents on electrospun polymeric fibers: preliminary study on polystyrene. *Polymer International*, **2004**, 53, 1851-1859	3.3	324
229	Drug-loaded electrospun mats of poly(vinyl alcohol) fibres and their release characteristics of four model drugs. *Nanotechnology*, **2006**, 17, 2317-2329	3.4	303
228	Preparation and adsorption behavior of aminated electrospun polyacrylonitrile nanofiber mats for heavy metal ion removal. *ACS Applied Materials & Interfaces*, **2010**, 2, 3619-27	9.5	294
227	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, 387-97	5.7	250
226	Electrospun cellulose acetate fiber mats containing curcumin and release characteristic of the herbal substance. *Polymer*, **2007**, 48, 7546-7557	3.9	248
225	Preparation and characterization of novel bone scaffolds based on electrospun polycaprolactone fibers filled with nanoparticles. *Macromolecular Bioscience*, **2006**, 6, 70-7	5.5	202
224	Release characteristics of four model drugs from drug-loaded electrospun cellulose acetate fiber mats. *Polymer*, **2007**, 48, 5030-5041	3.9	197
223	Stability improvement of electrospun chitosan nanofibrous membranes in neutral or weak basic aqueous solutions. *Biomacromolecules*, **2006**, 7, 2710-4	6.9	179
222	Preparation and characterization of □-chitin whisker-reinforced chitosan nanocomposite films with or without heat treatment. *Carbohydrate Polymers*, **2005**, 62, 130-136	10.3	177
221	Electrospun cellulose acetate fibers: effect of solvent system on morphology and fiber diameter. *Cellulose*, **2007**, 14, 563-575	5.5	176
220	Bone scaffolds from electrospun fiber mats of poly(3-hydroxybutyrate), poly(3-hydroxybutyrate-co-3-hydroxyvalerate) and their blend. *Polymer*, **2007**, 48, 1419-1427	3.9	157
219	Electrospinning of food-grade nanofibers from cellulose acetate and egg albumen blends. *Journal of Food Engineering*, **2010**, 98, 370-376	6	155
218	Preparation and characterization of jute- and flax-reinforced starch-based composite foams. *Carbohydrate Polymers*, **2004**, 58, 53-63	10.3	142

217	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**, 94, 241-51	5.4	132
216	Immobilization of biomolecules on the surface of electrospun polycaprolactone fibrous scaffolds for tissue engineering. *ACS Applied Materials & Interfaces*, **2009**, 1, 1076-85	9.5	130
215	Preparation and characterization of chitin whisker-reinforced poly(vinyl alcohol) nanocomposite films with or without heat treatment. *Polymer*, **2005**, 46, 5637-5644	3.9	127
214	Preparation and characterization of ultrafine electrospun polyacrylonitrile fibers and their subsequent pyrolysis to carbon fibers. *Polymer International*, **2006**, 55, 825-833	3.3	124
213	Extraction and electrospinning of gelatin from fish skin. *International Journal of Biological Macromolecules*, **2008**, 42, 247-55	7.9	122
212	Osteoblastic phenotype expression of MC3T3-E1 cultured on electrospun polycaprolactone fiber mats filled with hydroxyapatite nanoparticles. *Biomacromolecules*, **2007**, 8, 2602-10	6.9	119
211	Aliphatic lipid substitution on 2 kDa polyethylenimine improves plasmid delivery and transgene expression. *Molecular Pharmaceutics*, **2009**, 6, 1798-815	5.6	117
210	Preparation and characterization of asiaticoside-loaded alginate films and their potential for use as effectual wound dressings. *Carbohydrate Polymers*, **2011**, 83, 1457-1469	10.3	117
209	On the electrospinning of poly(vinyl alcohol) nanofiber mats: A revisit. *Journal of Applied Polymer Science*, **2008**, 108, 969-978	2.9	114
208	In vitro biocompatibility of electrospun poly(3-hydroxybutyrate) and poly(3-hydroxybutyrate-co-3-hydroxyvalerate) fiber mats. *International Journal of Biological Macromolecules*, **2007**, 40, 217-23	7.9	110
207	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	5.4	108
206	Fabrication of chitin whisker-reinforced poly(vinyl alcohol) nanocomposite nanofibres by electrospinning. *Nanotechnology*, **2006**, 17, 4519-4528	3.4	108
205	Fabrication, structure, and properties of chitin whisker-reinforced alginate nanocomposite fibers. *Journal of Applied Polymer Science*, **2008**, 110, 890-899	2.9	100
204	Multiple melting behavior in isothermally crystallized poly(trimethylene terephthalate). *European Polymer Journal*, **2004**, 40, 599-608	5.2	97
203	Electrospun Gelatin Fibers: Effect of Solvent System on Morphology and Fiber Diameters. *Polymer Journal*, **2007**, 39, 622-631	2.7	93
202	Antimicrobial efficacy of a novel silver hydrogel dressing compared to two common silver burn wound dressings: Acticoat and PolyMem Silver( ). *Burns*, **2014**, 40, 89-96	2.3	91
201	In vitro biocompatibility of schwann cells on surfaces of biocompatible polymeric electrospun fibrous and solution-cast film scaffolds. *Biomacromolecules*, **2007**, 8, 1587-94	6.9	91
200	Non-isothermal melt crystallization kinetics for poly(trimethylene terephthalate)/poly(butylene terephthalate) blends. *Polymer Testing*, **2004**, 23, 175-185	4.5	88

199	Non-isothermal melt-crystallization kinetics of poly(trimethylene terephthalate). *Polymer Testing*, **2004**, 23, 817-826	4.5	88
198	Preparation and characterization of chitosan-hydroxybenzotriazole/polyvinyl alcohol blend nanofibers by the electrospinning technique. *Carbohydrate Polymers*, **2010**, 81, 675-680	10.3	85
197	Isothermal melt-crystallization and melting behavior for three linear aromatic polyesters. *Thermochimica Acta*, **2004**, 409, 63-77	2.9	84
196	The Study of Competitive Adsorption of Heavy Metal Ions from Aqueous Solution by Aminated Polyacrylonitrile Nanofiber Mats. *Energy Procedia*, **2014**, 56, 142-151	2.3	83
195	Nonisothermal melt-crystallization kinetics for three linear aromatic polyesters. *Thermochimica Acta*, **2003**, 406, 207-220	2.9	82
194	Crystalline memory effects in isothermal crystallization of syndiotactic polypropylene. *Journal of Applied Polymer Science*, **2000**, 75, 337-346	2.9	82
193	Electrospun cellulose acetate fiber mats containing asiaticoside or Centella asiatica crude extract and the release characteristics of asiaticoside. *Polymer*, **2008**, 49, 4239-4247	3.9	81
192	Electrospun mat of tyrosine-derived polycarbonate fibers for potential use as tissue scaffolding material. *Journal of Biomaterials Science, Polymer Edition*, **2006**, 17, 1039-56	3.5	81
191	Electrospinning of hexanoyl chitosan. *Carbohydrate Polymers*, **2006**, 66, 298-305	10.3	81
190	Wet-spun alginate/chitosan whiskers nanocomposite fibers: Preparation, characterization and release characteristic of the whiskers. *Carbohydrate Polymers*, **2010**, 79, 738-746	10.3	79
189	Thermal, crystallization, and rheological characteristics of poly(trimethylene terephthalate)/poly(butylene terephthalate) blends. *Polymer Testing*, **2004**, 23, 187-194	4.5	79
188	Preparation and characterization of hexanoyl chitosan/polylactide blend films. *Carbohydrate Polymers*, **2005**, 60, 343-350	10.3	79
187	Preparation of electrospun silk fibroin fiber mats as bone scaffolds: a preliminary study. *Biomedical Materials (Bristol)*, **2007**, 2, 181-8	3.5	75
186	Novel bone scaffolds of electrospun polycaprolactone fibers filled with nanoparticles. *Journal of Nanoscience and Nanotechnology*, **2006**, 6, 514-22	1.3	72
185	Preparation and characterization of microwave-treated carboxymethyl chitin and carboxymethyl chitosan films for potential use in wound care application. *Macromolecular Bioscience*, **2005**, 5, 1001-12	5.5	71
184	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	2.9	70
183	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	2.6	70
182	Crystalline memory effect in isothermal crystallization of syndiotactic polypropylenes: effect of fusion temperature on crystallization and melting behavior. *Polymer*, **2001**, 42, 9617-9626	3.9	70

181	Nonisothermal bulk crystallization and subsequent melting behavior of syndiotactic polypropylenes: Crystallization from the melt state. *Journal of Applied Polymer Science*, **2000**, 78, 338-354	2.9	70
180	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	2.6	68
179	Thermal, crystallization, mechanical, and rheological characteristics of poly(trimethylene terephthalate)/poly(ethylene terephthalate) blends. *Journal of Polymer Science, Part B: Polymer Physics*, **2004**, 42, 676-686	2.6	67
178	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	5.1	66
177	Effect of calcium stearate and pimelic acid addition on mechanical properties of heterophasic isotactic polypropylene/ethylene–propylene rubber blend. *Polymer Testing*, **2004**, 23, 533-539	4.5	65
176	Application of the Avrami, Tobin, Malkin, and Urbanovici–Segal macrokinetic models to isothermal crystallization of syndiotactic polypropylene. *Thermochimica Acta*, **2001**, 370, 37-48	2.9	65
175	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	3.9	64
174	Electrospinning of hexanoyl chitosan/polylactide blends. *Journal of Biomaterials Science, Polymer Edition*, **2006**, 17, 547-65	3.5	64
173	Development of gelatin hydrogel pads as antibacterial wound dressings. *Macromolecular Bioscience* , **2009**, 9, 1004-15	5.5	63
172	Electrospun gelatin fiber mats containing a herbal-Centella asiatica-extract and release characteristic of asiaticoside. *Nanotechnology*, **2008**, 19, 015102	3.4	63
171	Biodegradable alginate microparticles developed by electrohydrodynamic spraying techniques for oral delivery of protein. *Journal of Microencapsulation*, **2009**, 26, 563-70	3.4	62
170	Preparation and characterization of starch/poly(l-lactic acid) hybrid foams. *Carbohydrate Polymers*, **2005**, 59, 329-337	10.3	62
169	Titanium (IV) oxide nanofibers by combined sol–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	7.1	62
168	Melt rheology and extrudate swell of calcium carbonate nanoparticle-filled isotactic polypropylene. *Polymer Testing*, **2005**, 24, 2-11	4.5	61
167	Novel chitosan-spotted alginate fibers from wet-spinning of alginate solutions containing emulsified chitosan-citrate complex and their characterization. *Biomacromolecules*, **2009**, 10, 320-7	6.9	59
166	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	3.9	59
165	Development of meloxicam-loaded electrospun polyvinyl alcohol mats as a transdermal therapeutic agent. *Pharmaceutical Development and Technology*, **2009**, 14, 70-9	3.4	58
164	Crystallization and melting behavior in syndiotactic polypropylene: Origin of multiple melting phenomenon. *Journal of Applied Polymer Science*, **2001**, 82, 1083-1097	2.9	58

163	The Influence of Solvent Properties and Functionality on the Electrospinnability of Polystyrene Nanofibers. *Macromolecular Materials and Engineering*, **2006**, 291, 840-847	3.9	57
162	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	0.8	57
161	In situ microfibrillar-reinforced composites of isotactic polypropylene/recycled poly(ethylene terephthalate) system and effect of compatibilizer. *Journal of Applied Polymer Science*, **2006**, 102, 1173-1181	2.9	54
160	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, 264-71	5.4	52
159	Hydrogels containing silver nanoparticles for burn wounds show antimicrobial activity without cytotoxicity. *Journal of Applied Polymer Science*, **2014**, 131, n/a-n/a	2.9	52
158	In vitro biocompatibility of electrospun and solvent-cast chitosan substrata towards Schwann, osteoblast, keratinocyte and fibroblast cells. *European Polymer Journal*, **2010**, 46, 428-440	5.2	52
157	Thermal and crystallization characteristics of poly(trimethylene terephthalate)/poly(ethylene naphthalate) blends. *European Polymer Journal*, **2005**, 41, 1561-1568	5.2	52
156	Characterisation of beta-chitin/poly(vinyl alcohol) blend films. *Polymer Testing*, **2003**, 22, 381-387	4.5	51
155	X-ray diffraction and dynamic mechanical analyses of □-chitin whisker-reinforced poly(vinyl alcohol) nanocomposite nanofibers. *Polymer International*, **2010**, 59, 85-91	3.3	50
154	Hard-coating materials for poly(methyl methacrylate) from glycidoxypropyltrimethoxysilane-modified silatrane via a sol□gel process. *Surface and Coatings Technology*, **2006**, 200, 2784-2790	4.4	50
153	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	3.9	49
152	Tuning hydrophobicity and water adhesion by electrospinning and silanization. *Langmuir*, **2011**, 27, 3654-61	4	47
151	Electrospinning of Biocompatible Polymers and Their Potentials in Biomedical Applications. *Advances in Polymer Science*, **2011**, 213-239	1.3	47
150	In vitro biocompatibility of electrospun hexanoyl chitosan fibrous scaffolds towards human keratinocytes and fibroblasts. *European Polymer Journal*, **2008**, 44, 2060-2067	5.2	47
149	Mechanical and electro-rheological properties of electrospun poly(vinyl alcohol) nanofibre mats filled with carbon black nanoparticles. *Nanotechnology*, **2007**, 18, 145705	3.4	47
148	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	4.5	46
147	Novel copper (II) alginate hydrogels and their potential for use as anti-bacterial wound dressings. *Biomedical Materials (Bristol)*, **2014**, 9, 045008	3.5	46
146	Thermal properties and isothermal crystallization of syndiotactic polypropylenes: Differential scanning calorimetry and overall crystallization kinetics. *Journal of Applied Polymer Science*, **2000**, 75, 44-59	2.9	46

145	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, 1240-52	3.5	43
144	Non-isothermal melt- and cold-crystallization kinetics of poly(3-hydroxybutyrate). *Polymer Testing*, **2006**, 25, 807-818	4.5	43
143	Gallic Acid-Loaded Electrospun Poly(L-Lactic Acid) Fiber Mats and their Release Characteristic. *Macromolecular Chemistry and Physics*, **2009**, 210, 814-822	2.6	42
142	Non-isothermal melt-crystallization and mechanical properties of titanium(IV) oxide nanoparticle-filled isotactic polypropylene. *Polymer Testing*, **2007**, 26, 20-37	4.5	42
141	Fabrication of Aligned Poly(vinyl alcohol) Nanofibers by Electrospinning. *Journal of Nanoscience and Nanotechnology*, **2006**, 6, 125-129	1.3	41
140	Development and characterization of a novel, antimicrobial, sterile hydrogel dressing for burn wounds: single-step production with gamma irradiation creates silver nanoparticles and radical polymerization. *Journal of Pharmaceutical Sciences*, **2014**, 103, 3244-53	3.9	40
139	In vitro efficacy and toxicology evaluation of silver nanoparticle-loaded gelatin hydrogel pads as antibacterial wound dressings. *Journal of Applied Polymer Science*, **2012**, 124, 1668-1682	2.9	40
138	Effects of processing parameters on morphology of electrospun polystyrene nanofibers. *Korean Journal of Chemical Engineering*, **2012**, 29, 173-181	2.8	40
137	Effect of cross-linking on properties and release characteristics of sodium salicylate-loaded electrospun poly(vinyl alcohol) fibre mats. *Nanotechnology*, **2007**, 18, 175102	3.4	40
136	Nonisothermal bulk crystallization studies of high density polyethylene using light depolarizing microscopy. *Journal of Polymer Science, Part B: Polymer Physics*, **1998**, 36, 681-692	2.6	39
135	In vitro biocompatibility evaluations of hexanoyl chitosan film. *Carbohydrate Polymers*, **2007**, 68, 166-172	10.3	39
134	Characterization of starch/poly(ε-caprolactone) hybrid foams. *Polymer Testing*, **2004**, 23, 651-657	4.5	37
133	Process optimization of electrospun silk fibroin fiber mat for accelerated wound healing. *Journal of Applied Polymer Science*, **2013**, 130, 3634-3644	2.9	36
132	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	4.8	36
131	Electrospinning of polystyrene/poly(2-methoxy-5-(2?-ethylhexyloxy)-1,4-phenylene vinylene) blends. *Journal of Polymer Science, Part B: Polymer Physics*, **2005**, 43, 1881-1891	2.6	34
130	Silver nanoparticles-based hydrogel: Characterization of material parameters for pressure ulcer dressing applications. *Journal of Drug Delivery Science and Technology*, **2018**, 44, 91-100	4.5	34
129	Preparation and Characterization of Polycaprolactone/Diclofenac Sodium and Poly(vinyl alcohol)/Tetracycline Hydrochloride Fiber Mats and Their Release of the Model Drugs. *Polymer Journal*, **2007**, 39, 369-378	2.7	32
128	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	4.5	31

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126	Fibrous zinc oxide prepared by combined electrospinning and solvothermal techniques. *Ceramics International*, **2010**, 36, 357-363	5.1	31
125	Electrospun dextran fibrous membranes. *Cellulose*, **2008**, 15, 435-444	5.5	31
124	Electrospun DOXY-h loaded-poly(acrylic acid) nanofiber mats: in vitro drug release and antibacterial properties investigation. *Journal of Biomaterials Science, Polymer Edition*, **2014**, 25, 1292-305	3.5	30
123	Non-isothermal melt crystallization kinetics for ethylene acrylic acid copolymers and ethylene methyl acrylate acrylic acid terpolymers. *European Polymer Journal*, **2004**, 40, 829-838	5.2	30
122	Mechanical properties of injection-molded isotactic polypropylene/roselle fiber composites. *Journal of Applied Polymer Science*, **2006**, 101, 3291-3300	2.9	29
121	Porous polyethylene membranes by template-leaching technique: preparation and characterization. *Polymer Testing*, **2004**, 23, 91-99	4.5	29
120	Influence of molecular characteristics on non-isothermal melt-crystallization kinetics of syndiotactic polypropylene. *Polymer Testing*, **2004**, 23, 881-895	4.5	29
119	Silk sericin loaded alginate nanoparticles: Preparation and anti-inflammatory efficacy. *International Journal of Biological Macromolecules*, **2015**, 80, 636-43	7.9	28
118	Preparation and characterization of caffeic acid-grafted electrospun poly(L-lactic acid) fiber mats for biomedical applications. *ACS Applied Materials & Interfaces*, **2012**, 4, 3031-40	9.5	28
117	Effect of gamma radiation on dilute aqueous solutions and thin films of N-succinyl chitosan. *Polymer Degradation and Stability*, **2010**, 95, 234-244	4.7	28
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115	Nonisothermal cold-crystallization kinetics of poly(trimethylene terephthalate). *Journal of Polymer Science, Part B: Polymer Physics*, **2004**, 42, 4151-4163	2.6	27
114	Development of silver nanoparticles-loaded calcium alginate beads embedded in gelatin scaffolds for use as wound dressings. *Polymer International*, **2015**, 64, 275-283	3.3	26
113	Electrospun nanofiber layers with incorporated photoluminescence indicator for chromatography and detection of ultraviolet-active compounds. *Journal of Chromatography A*, **2013**, 1299, 110-7	4.5	26
112	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, 3379-92	5.4	26
111	Protein adsorption and cell behaviors on polycaprolactone film: The effect of surface topography. *Advances in Polymer Technology*, **2018**, 37, 2030-2042	1.9	25
110	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	4.5	25

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107	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	23
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105	Effectual drug-releasing porous scaffolds from 1,6-diisocyanatohexane-extended poly(1,4-butylene succinate) for bone tissue regeneration. *Polymer*, **2008**, 49, 2678-2685	3.9	23
104	Electrospun poly(vinyl alcohol) fiber mats as carriers for extracts from the fruit hull of mangosteen. *Journal of Cosmetic Science*, **2008**, 59, 233-42	0.7	23
103	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	4.5	22
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100	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	3.9	22
99	Preparation and characterization of silver nanoparticles-loaded calcium alginate beads embedded in gelatin scaffolds. *AAPS PharmSciTech*, **2014**, 15, 1105-15	3.9	21
98	Electrospun poly(l-lactic acid) fiber mats containing crude Garcinia mangostana extracts for use as wound dressings. *Polymer Bulletin*, **2014**, 71, 925-949	2.4	20
97	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	4.5	20
96	Electrospun Methacrylate-Based Copolymer/Indomethacin Fibers and Their Release Characteristics of Indomethacin. *Journal of Polymer Research*, **2007**, 14, 53-59	2.7	20
95	Preparation of Ultra-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	20
94	Preparation and Properties of Starch/Poly(vinyl alcohol) Composite Foams. *Macromolecular Symposia*, **2004**, 216, 217-228	0.8	20
93	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	2.9	20
92	Fabrication and Evaluation of Polycaprolactone–Poly(hydroxybutyrate) or Poly(3-Hydroxybutyrate-co-3-Hydroxyvalerate) Dual-Leached Porous Scaffolds for Bone Tissue Engineering Applications. *Macromolecular Materials and Engineering*, **2017**, 302, 1600289	3.9	19

91	Effect of the surface topography of electrospun poly(ε-caprolactone)/poly(3-hydroxybuterate-co-3-hydroxyvalerate) fibrous substrates on cultured bone cell behavior. *Langmuir*, **2011**, 27, 10938-46	4	19
90	Surface modification of electrospun chitosan nanofibrous mats for antibacterial activity. *Journal of Applied Polymer Science*, **2014**, 131,	2.9	18
89	Antimicrobial mangosteen extract infused alginate-coated gauze wound dressing. *Journal of Drug Delivery Science and Technology*, **2017**, 41, 182-190	4.5	18
88	Electrospinnability of poly(butylene succinate): Effects of solvents and organic salt on the fiber size and morphology. *Journal of Applied Polymer Science*, **2015**, 132, n/a-n/a	2.9	18
87	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	3.3	18
86	Development of gelatin hydrogel pads incorporated with Eupatorium adenophorum essential oil as antibacterial wound dressing. *Polymer Bulletin*, **2019**, 76, 701-724	2.4	17
85	Silver nanoparticle-embedded poly(vinyl pyrrolidone) hydrogel dressing: gamma-ray synthesis and biological evaluation. *Journal of Biomaterials Science, Polymer Edition*, **2014**, 25, 826-42	3.5	17
84	In vitro biological evaluation of electrospun cellulose acetate fiber mats containing asiaticoside or curcumin. *Journal of Biomedical Materials Research - Part A*, **2010**, 94, 1216-25	5.4	17
83	Influences of thermal aging on properties and pyrolysis products of tire tread compound. *Journal of Analytical and Applied Pyrolysis*, **2007**, 80, 269-276	6	17
82	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	2.7	17
81	Development of antituberculosis melt-blown polypropylene filters coated with mangosteen extracts for medical face mask applications. *Polymer Bulletin*, **2019**, 76, 1985-2004	2.4	16
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78	Nonisothermal melt-crystallization kinetics of syndiotactic polypropylene compounded with various nucleating agents. *Journal of Applied Polymer Science*, **2005**, 95, 245-253	2.9	16
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