

Biomedical application of functional polymers

Reactive and Functional Polymers

39, 99-138

DOI: 10.1016/s1381-5148(98)00054-6

Citation Report

#	ARTICLE	IF	CITATIONS
1	Bioencapsulation within synthetic polymers (Part 2): non-solâ€“gel proteinâ€“polymer biocomposites. Trends in Biotechnology, 2000, 18, 469-479.	9.3	95
2	Teeth and bones: applications of surface science to dental materials and related biomaterials. Surface Science Reports, 2001, 42, 75-205.	7.2	350
3	Synthesis and characterization of novel biodegradable poly(carbonate-co-phosphate)s. Polymer International, 2001, 50, 1175-1179.	3.1	18
4	The use of NIR-FT-Raman spectroscopy for the characterization of polymer-supported reagents and catalysts. Tetrahedron, 2001, 57, 8675-8683.	1.9	53
6	The Interaction of DNA and Water-Soluble Polymeric Schiff-Base Nickel Complexes. Bulletin of the Chemical Society of Japan, 2002, 75, 1605-1609.	3.2	2
7	INCORPORATION OF THE SILOXANES IN HYDROLYTICALLY DEGRADABLE ORGANIC STRUCTURES. II. SEGMENTED SILOXANE-IMIDE POLY(ANHYDRIDE)S. Journal of Macromolecular Science - Pure and Applied Chemistry, 2002, 39, 1487-1499.	2.2	11
8	Pharmaceutical Polymeric Controlled Drug Delivery Systems. Advances in Polymer Science, 2002, , 45-117.	0.8	53
9	ENCAPSULATION OF INSULIN IN CHITOSAN-COATED ALGINATE BEADS: ORAL THERAPEUTIC PEPTIDE DELIVERY. Artificial Cells, Blood Substitutes, and Biotechnology, 2002, 30, 229-237.	0.9	38
10	Studies on the interaction of DNA and water-soluble polymeric Schiff base-nickel complexes. Journal of Applied Polymer Science, 2002, 84, 887-893.	2.6	42
11	Synthesis, characterization and crosslinking of functional star-shaped poly(Îµ-caprolactone). Polymer International, 2002, 51, 92-100.	3.1	58
12	Free-radical copolymerization of 3-phthalimido-2-hydroxypropyl methacrylate with styrene: The determination of monomer reactivity ratios and thermal analysis studies. Journal of Polymer Science Part A, 2002, 40, 650-658.	2.3	7
13	A novel gene carrier based on amino-modified silica nanoparticles. Science Bulletin, 2003, 48, 223-228.	1.7	16
14	Design strategies to improve soluble macromolecular delivery constructs. Advanced Drug Delivery Reviews, 2003, 55, 421-437.	13.7	99
15	Ring-opening polymerization of lactones catalyzed by decamolybdate anion. Polymer, 2003, 44, 6767-6772.	3.8	42
16	Study on the preparation of novel functional poly(dioxanone) and for the controlled release of protein. Reactive and Functional Polymers, 2003, 55, 185-195.	4.1	11
17	Development of photo-polymerisable polyvinyl alcohol for biotechnological applications. Sensors and Actuators B: Chemical, 2003, 94, 330-336.	7.8	21
18	Depth Profile of Free Volume in a Mixture and Copolymers of Poly(N-vinyl-pyrrolidone) and Poly(ethylene glycol) Studied by Positron Annihilation Spectroscopy. Biomacromolecules, 2003, 4, 1856-1864.	5.4	45
19	Immobilization of Glutathione-s-transferase Within Cross-Linked Gelatin Cylindrical Molds. Artificial Cells, Blood Substitutes, and Biotechnology, 2003, 31, 47-57.	0.9	2

#	ARTICLE	IF	CITATIONS
20	Studies on biodegradation and release of gentamicin sulphate from interpenetrating network hydrogels based on poly(acrylic acid) and gelatin: in vitro and in vivo. <i>Biomaterials</i> , 2004, 25, 139-146.	11.4	99
21	Synthesis of methacryloyloxyethyl phosphate copolymers and in vitro calcification capacity. <i>Biomaterials</i> , 2004, 25, 205-213.	11.4	54
22	Modified poly(ϵ -caprolactone)s and their use for drug-encapsulating nanoparticles. <i>Journal of Polymer Science Part A</i> , 2004, 42, 689-700.	2.3	27
23	Synthesis and characterization of oxidized cellulose. <i>Journal of Polymer Science Part A</i> , 2004, 42, 4785-4791.	2.3	49
24	Immobilized concentration gradients of nerve growth factor guide neurite outgrowth. <i>Journal of Biomedical Materials Research Part B</i> , 2004, 68A, 235-243.	3.1	189
25	Their in vivo calcification capacity of a copolymer, based on methacryloyloxyethyl phosphate, does not favor osteoconduction. <i>Journal of Biomedical Materials Research - Part A</i> , 2004, 69A, 584-589.	4.0	16
26	Synthesis of Polycaprolactone Using Free/Supported Enzymatic and Non-Enzymatic Catalysts. <i>Macromolecular Rapid Communications</i> , 2004, 25, 2025-2028.	3.9	18
27	Hyaluronan-based hydrogels particles prepared by crosslinking with trisodium trimetaphosphate. Synthesis and characterization. <i>Carbohydrate Polymers</i> , 2004, 57, 1-6.	10.2	74
28	Tailoring of Bioresorbable Polymers for Elaboration of Sugar-Functionalized Nanoparticles. <i>Biomacromolecules</i> , 2004, 5, 922-927.	5.4	32
29	Biodegradable PEGylated Microspheres and Nanospheres. <i>American Journal of Drug Delivery</i> , 2004, 2, 157-171.	0.6	16
30	The Modeling of Insulin Controlled Release Process From Fibrous Artificial Store. <i>Research Journal of Textile and Apparel</i> , 2005, 9, 16-25.	1.1	1
31	Size-controlled hydroxyapatite nanoparticles as self-organized organic/inorganic composite materials. <i>Biomaterials</i> , 2005, 26, 5414-5426.	11.4	373
32	Biotinylated GHK peptide incorporated collagenous matrix: A novel biomaterial for dermal wound healing in rats. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2005, 73B, 383-391.	3.4	46
33	Ring-opening polymerization of ϵ -caprolactone with a divalent samarium bis(phosphido) complex. <i>Journal of Applied Polymer Science</i> , 2005, 98, 1558-1564.	2.6	13
34	Allyl End-Functionalized Poly(ethylene oxide)-block-poly(methylidene malonate 2.1.2) Block Copolymers: Synthesis, Characterization, and Chemical Modification. <i>Macromolecular Chemistry and Physics</i> , 2005, 206, 2461-2469.	2.2	12
35	Preparation and characterization of a novel biodegradable poly(p-dioxanone)/montmorillonite nanocomposite. <i>Journal of Polymer Science Part A</i> , 2005, 43, 2298-2303.	2.3	29
36	Tagravita [®] , ϕ Microcapsules as Controlled Drug Delivery Devices and Their Formulations. , 2005, , 215-258.		1
37	Functional Polymers as Human Therapeutic Agents. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 8593-8604.	3.7	21

#	ARTICLE	IF	CITATIONS
38	Bioactive composite materials for tissue engineering scaffolds. Expert Review of Medical Devices, 2005, 2, 303-317.	2.8	275
39	One-Step Route to α -Hydroxyl- ω -(carboxylic acid) Polylactones Using Catalysis by Decamolybdate Anion. Macromolecules, 2005, 38, 1599-1608.	4.8	46
40	Properties of a Water-Soluble Paclitaxel Conjugate in Aqueous Solution and its Interaction with Serum Albumin. Macromolecular Symposia, 2005, 231, 28-46.	0.7	7
41	Polymers as Drugs. Advances in Polymer Science, 2006, , 9-58.	0.8	33
42	Use of Reactive Diisocyanate-Terminated Polymers as Rheology Modifiers of Lubricating Greases. Industrial & Engineering Chemistry Research, 2006, 45, 4001-4010.	3.7	18
43	PEGylated Nanoparticles Based on a Polyaspartamide. Preparation, Physico-Chemical Characterization, and Intracellular Uptake. Biomacromolecules, 2006, 7, 3083-3092.	5.4	70
44	Synthesis of Poly(oxyethylene)- α -Poly(Z-l-lysine) Hybrid Graft Copolymers. Macromolecules, 2006, 39, 2423-2426.	4.8	20
45	Synthesis of Functional Poly(1,4-ketone)s Bearing Bioactive Moieties by Pd-Catalyzed Insertion Polymerization. Biomacromolecules, 2006, 7, 2931-2936.	5.4	15
46	Immobilization of drugs and biomolecules on in situ copolymerized active ester polypyrrole coatings for biomedical applications. Biomedical Materials (Bristol), 2006, 1, 235-241.	3.3	12
47	Polymers for tissue engineering, medical devices, and regenerative medicine. Concise general review of recent studies. Polymers for Advanced Technologies, 2006, 17, 395-418.	3.2	338
48	Biodegradable and bioactive porous polymer/inorganic composite scaffolds for bone tissue engineering. Biomaterials, 2006, 27, 3413-3431.	11.4	3,317
49	Carboxymethylpullulan hydrogels with a ionic and/or amphiphilic behavior: Swelling properties and entrapment of cationic and/or hydrophobic molecules. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2006, 274, 163-169.	4.7	36
50	Molecular basis of cell-biomaterial interaction: Insights gained from transcriptomic and proteomic studies. Biomaterials, 2006, 27, 5871-5882.	11.4	61
51	Plasma immersion ion implantation of Pebax polymer. Nuclear Instruments & Methods in Physics Research B, 2006, 251, 407-412.	1.4	16
52	Synthesis, characterization and DNA binding studies of a polymer-cobalt(III) complex containing the 2,2'-bipyridyl ligand. Polyhedron, 2006, 25, 3113-3117.	2.2	52
53	A Bayesian analysis of the compression set and stress-strain behavior in a thermally aged silicone foam. Polymer Degradation and Stability, 2006, 91, 1824-1836.	5.8	36
54	Study of interfacial tension in poly(ethylene oxide)/polystyrene/diblock copolymer system by electric deformation method. Polymer, 2006, 47, 6236-6242.	3.8	4
55	Thermal behavior of some new complexes bearing ligands with polymerisable groups. Journal of Thermal Analysis and Calorimetry, 2006, 85, 285-288.	3.6	15

#	ARTICLE	IF	CITATIONS
56	Determination of the diffusion coefficients in the ascorbic acid delivery from nanostructured-polyacrilamide hydrogels. Polymer Bulletin, 2006, 56, 437-446.	3.3	9
57	Investigation of morphology and bioactive properties of composite coating of HA/vinyl acetate on pure titanium. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2006, 128, 243-249.	3.5	21
58	Ceramic modification of N-acylated chitosan stabilized gold nanoparticles. Scripta Materialia, 2006, 54, 2029-2034.	5.2	13
59	Possibilities of collagen adsorption on some polymeric matrices based on styrene copolymers. Journal of Applied Polymer Science, 2006, 100, 3554-3561.	2.6	3
60	The mathematical model of insulin desorption from the bioactive, fibrous artificial store. Journal of Biomedical Materials Research - Part A, 2006, 79A, 635-642.	4.0	3
61	Processing of Three-dimensional Laser Sintered Polyetheretherketone Composites and Testing of Osteoblast Proliferation in vitro. Macromolecular Symposia, 2007, 253, 65-70.	0.7	25
62	Microbial Biosynthesis of Polyglutamic Acid Biopolymer and Applications in the Biopharmaceutical, Biomedical and Food Industries. Critical Reviews in Biotechnology, 2007, 27, 1-19.	9.0	221
63	Matrix Representation of Polymer Chain Size Distributions, 2. Macromolecular Theory and Simulations, 2007, 16, 178-193.	1.4	1
64	PLA Nano- and Microparticles for Drug Delivery: An Overview of the Methods of Preparation. Macromolecular Bioscience, 2007, 7, 767-783.	4.1	269
65	Effect of non-associated electrolyte solutions on the behaviour of poly(vinyl alcohol)-based hydrogels. European Polymer Journal, 2007, 43, 460-467.	5.4	31
66	Selective Laser Sintering of PEEK. CIRP Annals - Manufacturing Technology, 2007, 56, 205-208.	3.6	229
67	DNA binding and antimicrobial studies of some polyethyleneimine-copper(II) complex samples containing 1,10-phenanthroline and L-threonine as co-ligands. Polyhedron, 2007, 26, 3255-3262.	2.2	92
68	New kind of star-shaped polyethers prepared with cyclic oligo(potassium glycidoxide) as a macroinitiator. Reactive and Functional Polymers, 2007, 67, 669-674.	4.1	12
69	Selective polymerization of functional monomers with Novozym 435. Journal of Polymer Science Part A, 2007, 45, 5968-5978.	2.3	43
70	Synthesis and characterization of novel poly(β -benzyl-L-glutamate) derivatives tailored for the preparation of nanoparticles of pharmaceutical interest. Polymer International, 2007, 56, 317-324.	3.1	31
71	Highly Porous Open-Cellular Monoliths from 2-Hydroxyethyl Methacrylate Based High Internal Phase Emulsions (HIPEs): Preparation and Void Size Tuning. Macromolecules, 2007, 40, 8056-8060.	4.8	111
72	Determination of kinetic parameters from isothermal calorimetry for interaction processes of pyrimethamine with chitosan derivatives. Reactive and Functional Polymers, 2007, 67, 820-827.	4.1	16
73	Intracellular delivery enhancement of poly(amino acid) drug carriers by oligoarginine conjugation. Journal of Biomedical Materials Research - Part A, 2008, 86A, 137-148.	4.0	21

#	ARTICLE	IF	CITATIONS
74	Effects of bioactive glass and β -TCP containing three-dimensional laser sintered polyetheretherketone composites on osteoblasts <i>in vitro</i> . Journal of Biomedical Materials Research - Part A, 2008, 87A, 896-902.	4.0	70
75	Polycarbonate microspheres containing tumor necrosis factor- α genes and magnetic powder as potential cancer therapeutics. Journal of Applied Polymer Science, 2008, 107, 3343-3349.	2.6	10
77	Amino end-functionalized poly(ethylene oxide)-block-poly(methylidene malonate 2.1.2) block copolymers: synthesis, characterization, and chemical modification for targeting purposes. European Polymer Journal, 2008, 44, 1714-1721.	5.4	12
78	NOTE: Polymerization of Cyclic Esters Using Aminoacid Initiators. Journal of Macromolecular Science - Pure and Applied Chemistry, 2008, 45, 872-877.	2.2	26
80	Polyurethane Based Materials with Applications in Medical Devices. , 2008, , 27-48.		19
81	Polysaccharide-Based Hydrogels: Preparation, Characterization, and Drug Interaction Behaviour. Biomacromolecules, 2008, 9, 1195-1199.	5.4	117
82	Synthesis of Sugar-Based Polypeptides. Designed Monomers and Polymers, 2008, 11, 357-369.	1.6	2
83	Improved Biomaterials for Tissue Engineering Applications: Surface Modification of Polymers. Current Topics in Medicinal Chemistry, 2008, 8, 341-353.	2.1	184
84	Synthesis and Structural Analysis of Polyester Prodrugs of Norfloxacin. Molecules, 2008, 13, 96-106.	3.8	36
85	Paclitaxel-albumin interaction in view of molecular engineering of polymer-drug conjugates. Pure and Applied Chemistry, 2009, 81, 439-450.	1.9	10
86	Kinetic degradation and controlled drug delivery system studies for sensitive hydrogels prepared by gamma irradiation. Journal of Applied Polymer Science, 2009, 112, 1745-1754.	2.6	10
87	Synthesis, characterization, and properties of ϵ -caprolactone and carbonate copolymers. Journal of Applied Polymer Science, 2009, 114, 3087-3096.	2.6	15
88	Thermal behaviour of new biological active cadmium mixed ligands complexes. Journal of Thermal Analysis and Calorimetry, 2009, 97, 781-785.	3.6	16
89	Soy protein isolate α furfural cross-linked nanocomposites for controlled release of cefadroxil. International Journal of Plastics Technology, 2009, 13, 8-21.	3.1	5
90	Functional water-soluble polymers: polymer-metal ion removal and biocide properties. Polymer International, 2009, 58, 1093-1114.	3.1	41
91	Degradation properties of PLA and PHBV films treated with CO ₂ -plasma. Reactive and Functional Polymers, 2009, 69, 287-292.	4.1	43
92	Preparation and characterization of homogeneous chitosan-poly(lactic acid)/hydroxyapatite nanocomposite for bone tissue engineering and evaluation of its mechanical properties. Acta Biomaterialia, 2009, 5, 2693-2703.	8.3	225
93	Polymerization of Cyclic Esters Initiated by Carnitine and Tin (II) Octoate. Molecules, 2009, 14, 621-632.	3.8	34

#	ARTICLE	IF	CITATIONS
94	Immobilization of Biomolecules on Poly(vinylidimethylazlactone)-Containing Surface Scaffolds. <i>Langmuir</i> , 2009, 25, 262-268.	3.5	32
95	Synthesis and characterization of functionalized poly(β -benzyl-L-glutamate) derivatives and corresponding nanoparticles preparation and characterization. <i>International Journal of Pharmaceutics</i> , 2010, 387, 244-252.	5.2	23
96	Synthesis of silicate glass/poly(L-lactide) composite scaffolds by freeze-extraction technique: Characterization and in vitro bioactivity evaluation. <i>Ceramics International</i> , 2010, 36, 995-1009.	4.8	42
97	Spherical N-carboxyethylchitosan/hydroxyapatite nanoparticles prepared by ionic diffusion process in a controlled manner. <i>Journal of Materials Science: Materials in Medicine</i> , 2010, 21, 3095-3101.	3.6	8
98	Synthesis and characterization of injectable bioadhesive hydrogels for nucleus pulposus replacement and repair of the damaged intervertebral disc. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2010, 93B, 309-317.	3.4	34
99	Gellan-adipic acid blends crosslinked by means of a dehydrothermal treatment. <i>Journal of Applied Polymer Science</i> , 2010, 118, 3131-3140.	2.6	7
100	Imidazole and Dimethyl Aminopropyl-Functionalized Hyperbranched Polymers for Nucleic Acid Transfection. <i>Macromolecular Bioscience</i> , 2010, 10, 1055-1062.	4.1	7
101	Polymeric materials for bone and cartilage repair. <i>Progress in Polymer Science</i> , 2010, 35, 403-440.	24.7	788
102	Polypropylene grafted with NIPAAm and APMA for creating hemocompatible surfaces that load/elute nalidixic acid. <i>Reactive and Functional Polymers</i> , 2010, 70, 836-842.	4.1	23
103	Chitosan/apatite composite beads prepared by in situ generation of apatite or Si-apatite nanocrystals. <i>Acta Biomaterialia</i> , 2010, 6, 466-476.	8.3	36
104	Interaction of poly(ethylene glycol) with fumed silica and alumina/silica/titania. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 360, 220-231.	4.7	42
105	Synthesis and characterization of polyester conjugates of ciprofloxacin. <i>European Journal of Medicinal Chemistry</i> , 2010, 45, 3844-3849.	5.5	18
106	Seeking Polymeric Prodrugs of Norfloxacin. Part 2. Synthesis and Structural Analysis of Polyurethane Conjugates. <i>Molecules</i> , 2010, 15, 842-856.	3.8	13
107	Kinetic Studies and Mechanism of Hydrogen Peroxide Catalytic Decomposition by Cu(II) Complexes with Polyelectrolytes Derived from L-Alanine and Glycylglycine. <i>Bioinorganic Chemistry and Applications</i> , 2010, 2010, 1-9.	4.1	23
108	Preliminary Studies on the Hydrolytic Degradation and Biocompatibility of Poly(3-allyloxy-1,2-propylene succinate). <i>Journal of Biomaterials Science, Polymer Edition</i> , 2010, 21, 691-700.	3.5	9
109	A treatment algorithm for patients with large skull bone defects and first results. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2011, 39, 435-440.	1.7	75
110	Polymer-Anchored Peroxo Compounds of Vanadium(V) and Molybdenum(VI): Synthesis, Stability, and Their Activities with Alkaline Phosphatase and Catalase. <i>Inorganic Chemistry</i> , 2011, 50, 8046-8062.	4.0	54
111	Facile synthesis of anisotropic porous chitosan/hydroxyapatite scaffolds for bone tissue engineering. <i>Journal of Materials Chemistry</i> , 2011, 21, 12015.	6.7	37

#	ARTICLE	IF	CITATIONS
112	Medical Applications of Adaptive Polymers. , 2011, , 284-318.		0
113	Folate-decorated maleilated pullulanâ€doxorubicin conjugate for active tumor-targeted drug delivery. European Journal of Pharmaceutical Sciences, 2011, 42, 517-526.	4.0	106
114	New approach on the development of plasticized polylactide (PLA): Grafting of poly(ethylene glycol) (PEG) via reactive extrusion. European Polymer Journal, 2011, 47, 2134-2144.	5.4	209
115	Electrosynthesis of pyrrole 3-carboxylic acid copolymer films and nanotubes with tunable degree of functionalization for biomedical applications. Electrochimica Acta, 2011, 56, 3641-3648.	5.2	11
116	Significance of novel bioinorganic anodic aluminum oxide nanoscaffolds for promoting cellular response. Nanotechnology, Science and Applications, 2011, 4, 11.	4.6	28
117	Synthesis and Characterization of Soy Protein Isolate/MMT Nanocomposite Film for the Control Release of the Drug Ofloxacin. World Journal of Nano Science and Engineering, 2011, 01, 27-36.	0.3	21
118	Biological evaluation of degradable, stimuli-sensitive multiblock copolymers having polydepsipeptide- and poly(l-lactide) segments in vitro. Clinical Hemorheology and Microcirculation, 2011, 48, 161-172.	1.7	14
119	Preparation and Characterization of Fibrous Hydroxyapatite/Chitosan Nanocomposites with High Hydroxyapatite Dosage. Advanced Materials Research, 2012, 457-458, 365-371.	0.3	1
120	Synthesis and characterization of peroxotungsten(vi) complexes bound to water soluble macromolecules and their interaction with acid and alkaline phosphatases. RSC Advances, 2012, 2, 7248.	3.6	18
121	Synthesis and properties of waterâ€soluble azlactone copolymers. Journal of Polymer Science Part A, 2012, 50, 4674-4685.	2.3	14
122	Effect of the molecular weight on the crystallinity of PCL-b-PLLA di-block copolymers. Polymer, 2012, 53, 4561-4568.	3.8	95
123	A review on comb-shaped amphiphilic polymers for hydrophobic drug solubilization. Therapeutic Delivery, 2012, 3, 59-79.	2.2	27
124	Progress and challenges in biomaterials used for bone tissue engineering: bioactive glasses and elastomeric composites. Progress in Biomaterials, 2012, 1, 2.	4.5	175
125	Stimuli responsive polymeric nanoparticles in regulated drug delivery for cancer. Polish Journal of Chemical Technology, 2012, 14, 57-64.	0.5	10
126	Cranioplasty with Customized Titanium and PEEK Implants in a Mechanical Stress Model. Journal of Neurotrauma, 2012, 29, 1077-1083.	3.4	119
127	Adsorption properties of thermally stable and biologically active polyurea: its synthesis and spectral aspects. Polymers for Advanced Technologies, 2012, 23, 1002-1010.	3.2	17
128	Evaluation of a bioâ€based hydrophobic cellulose laurate film as biomaterialâ€Study on biodegradation and cytocompatibility. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2012, 100B, 1000-1008.	3.4	12
129	Enzymeâ€catalyzed ringâ€opening polymerization of cyclic esters in the presence of poly(ethylene glycol). Journal of Applied Polymer Science, 2012, 125, 3602-3609.	2.6	25

#	ARTICLE	IF	CITATIONS
130	Shellac-polyamidoamine: Design of a new polymeric carrier material for controlled release application. Journal of Applied Polymer Science, 2012, 125, 2626-2635.	2.6	5
131	Multilayer approach for tuning the drug delivery from poly(3-hydroxyalkanoate)s coatings. Reactive and Functional Polymers, 2012, 72, 260-267.	4.1	16
132	Preparation, characterization and in vitro activities evaluation of curcumin based microspheres for azathioprine oral delivery. Reactive and Functional Polymers, 2012, 72, 446-450.	4.1	19
133	Fabrication of core-shell microspheres using alginate and chitosan-polycaprolactone for controlled release of vascular endothelial growth factor. Reactive and Functional Polymers, 2012, 72, 427-437.	4.1	26
134	Studies on synthesis and physicochemical properties of new bis[4-(2-hydroxy-3-methacryloyloxypropoxy)phenyl]sulfide terpolymers. Journal of Applied Polymer Science, 2012, 123, 59-65.	2.6	7
135	In situ hybridization and characterization of fibrous hydroxyapatite/chitosan nanocomposite. Journal of Applied Polymer Science, 2012, 124, 397-402.	2.6	14
136	Preparation and characterization of poly(vinyl alcohol)-poly(vinyl pyrrolidone) blend: A biomaterial with latent medical applications. Journal of Applied Polymer Science, 2013, 127, 3560-3568.	2.6	22
137	Preparation and characterization of keratin-based biocomposite hydrogels prepared by electron beam irradiation. Materials Science and Engineering C, 2013, 33, 5051-5057.	7.3	56
138	Preparation, characterization, and in vitro evaluation of nanostructured chitosan/apatite and chitosan/Si-doped apatite composites. Journal of Materials Science, 2013, 48, 841-849.	3.7	6
139	Effect of deposition conditions on thickness and permeability of the multilayer films formed from natural polyelectrolytes. Electrochimica Acta, 2013, 104, 348-357.	5.2	9
140	Synthesis and characterization of novel elastomeric poly(D,L-lactide urethane) maleate composites for bone tissue engineering. European Polymer Journal, 2013, 49, 3337-3349.	5.4	20
141	Multi-channel chitosan-polycaprolactone conduits embedded with microspheres for controlled release of nerve growth factor. Reactive and Functional Polymers, 2013, 73, 149-159.	4.1	13
142	The optical band gap and surface free energy of polyethylene modified by electron beam irradiations. Journal of Nuclear Materials, 2013, 435, 231-235.	2.7	50
143	Synthesis and photoproperties of Eu(III)-bearing star polymers as luminescent materials. Journal of Polymer Science Part A, 2013, 51, 2527-2535.	2.3	2
144	Synthetic biopolymer nanocomposites for tissue engineering scaffolds. Progress in Polymer Science, 2013, 38, 1487-1503.	24.7	411
145	Synthetic biopolymer/layered silicate nanocomposites for tissue engineering scaffolds. , 2013, , 548-581.		3
147	Development and In Vitro Characterization of Hyaluronic Acid-Based Coatings for Implant-Associated Local Drug Delivery Systems. Journal of Chemistry, 2013, 2013, 1-11.	1.9	13
148	Engineering a Biocompatible Scaffold with Either Micrometre or Nanometre Scale Surface Topography for Promoting Protein Adsorption and Cellular Response. International Journal of Biomaterials, 2013, 2013, 1-16.	2.4	68

#	ARTICLE	IF	CITATIONS
149	Polymers from Renewable Resources. Journal of Renewable Materials, 2013, 1, 83-112.	2.2	22
150	Synthesis and Characterization of Polyphosphazenes Modified with Hydroxyethyl Methacrylate and Lactic Acid. International Journal of Polymer Science, 2013, 2013, 1-7.	2.7	3
151	An Overview of Poly(lactic-co-glycolic) Acid (PLGA)-Based Biomaterials for Bone Tissue Engineering. International Journal of Molecular Sciences, 2014, 15, 3640-3659.	4.1	1,158
152	Synthesis of ciprofloxacin-conjugated poly (L-lactic acid) polymer for nanofiber fabrication and antibacterial evaluation. International Journal of Nanomedicine, 2014, 9, 1463.	6.7	43
153	Swelling characterization of photo-cross-linked gelatin methacrylate spherical microgels for bioencapsulation. E-Polymers, 2014, 14, 161-168.	3.0	9
155	Surface modification of polymers for biocompatibility via exposure to extreme ultraviolet radiation. Journal of Biomedical Materials Research - Part A, 2014, 102, 3298-3310.	4.0	71
156	Interval cranioplasty with patient-specific implants and autogenous bone grafts “ Success and cost analysis. Journal of Cranio-Maxillo-Facial Surgery, 2014, 42, 1948-1951.	1.7	66
157	Properties of biomedical foams for tissue engineering applications. , 2014, , 40-70.		5
158	Novel self-assembly graft copolymers as carriers for anti-inflammatory drug delivery. International Journal of Pharmaceutics, 2014, 460, 150-157.	5.2	29
159	Psyllium: a promising polymer for sustained release formulations in combination with HPMC polymers. Pharmaceutical Development and Technology, 2014, 19, 269-277.	2.4	28
160	Cellulose film regenerated from Styela clava tunics have biodegradability, toxicity and biocompatibility in the skin of SD rats. Journal of Materials Science: Materials in Medicine, 2014, 25, 1519-1530.	3.6	22
161	Synthesis and characterization of conducting polymers containing polypeptide and ferrocene side chains as ethanol biosensors. Polymer Chemistry, 2014, 5, 6295-6306.	3.9	52
162	Polymer Synthesis and Processing. , 2014, , 1-31.		38
163	Patient-Specific Implants Compared With Stored Bone Grafts for Patients With Interval Cranioplasty. Journal of Craniofacial Surgery, 2014, 25, 206-209.	0.7	37
164	Biodegradable Materials for Bone Repair and Tissue Engineering Applications. Materials, 2015, 8, 5744-5794.	2.9	544
165	Gelsolin Amyloidogenesis Is Effectively Modulated by Curcumin and Emetine Conjugated PLGA Nanoparticles. PLoS ONE, 2015, 10, e0127011.	2.5	24
166	Chitosan and Its Potential Use as a Scaffold for Tissue Engineering in Regenerative Medicine. BioMed Research International, 2015, 2015, 1-15.	1.9	416
167	Chemical modification of poly(vinyl chloride) for blood and cellular biocompatibility. RSC Advances, 2015, 5, 45231-45238.	3.6	25

#	ARTICLE	IF	CITATIONS
168	Poly(dopamine)-assisted preparation of star poly(ethylene glycol)-based coatings: A detailed study of their protein resistance and application in CE. Reactive and Functional Polymers, 2015, 93, 190-201.	4.1	19
169	Extreme ultraviolet (EUV) surface modification of polytetrafluoroethylene (PTFE) for control of biocompatibility. Nuclear Instruments & Methods in Physics Research B, 2015, 364, 98-107.	1.4	32
170	A review: Fabrication of porous polyurethane scaffolds. Materials Science and Engineering C, 2015, 48, 586-591.	7.3	294
171	Modifications induced by gamma irradiation to Makrofol polymer nuclear track detector. Journal of Advanced Research, 2015, 6, 219-224.	9.5	45
172	Highly Active Copolymerization of Ethylene and N-Acetyl-O-(α -Alkenyl)-L-Tyrosine Ethyl Esters Catalyzed by Titanium Complex. Polymers, 2016, 8, 64.	4.5	2
173	Current Polyesteric Systems for Advanced Drug Delivery. , 2016, , 143-168.		1
174	A New Approach for the Synthesis of pH-Responsive Cross-Linked Micelles from a Poly(glycidyl) Tj ETQqO O O rgBT /Overlock 10 Tf 50 2744-2754.	2.2	3
175	Biodegradable Polymers: Drug Delivery Applications. , 0, , 646-670.		0
177	Development of aqueous ternary nanomatrix films: A novel "green" strategy for the delivery of poorly soluble drugs. International Journal of Pharmaceutics, 2016, 515, 616-631.	5.2	7
178	Enhanced antibacterial activity, antioxidant, and <i>in vitro</i> biocompatibility of modified polycaprolactone-based membranes. International Journal of Polymeric Materials and Polymeric Biomaterials, 2016, 65, 872-880.	3.4	11
179	A mechanical evaluation of micro-HA/CS composite scaffolds with interconnected spherical macropores. BioMedical Engineering OnLine, 2016, 15, 12.	2.7	9
180	Copolymers of Ethylene and Vinyl Amino Acidic Ester with High Molecular Weight Prepared by Non-metallocene Catalysts. Catalysis Letters, 2016, 146, 609-619.	2.6	6
181	Functional micelles formed by branched polymeric surfactants: Synthesis, characteristics, and application as nanoreactors and carriers. European Polymer Journal, 2016, 75, 406-422.	5.4	18
182	Structural alterations of polycarbonate/PBT by gamma irradiation for high technology applications. Journal of Adhesion Science and Technology, 2016, 30, 443-457.	2.6	10
183	Preparation, Characterization, and Surface Functionality of Polyester Bioplastic-based Green Composites Containing Powdered Curcumin Products. Polymer-Plastics Technology and Engineering, 2017, 56, 1177-1187.	1.9	0
184	Cyto- and genotoxicity evaluation of the biomedical polyesters obtained in the presence of new zinc catalytic systems. International Journal of Polymeric Materials and Polymeric Biomaterials, 2017, 66, 768-772.	3.4	2
185	Advanced Application of Polymer based Biomaterials. Materials Today: Proceedings, 2017, 4, 3534-3541.	1.8	49
186	Study of the optical properties and the carbonaceous clusters in DAM-ADC solid state nuclear track detectors. Radiation Physics and Chemistry, 2017, 141, 125-130.	2.8	16

#	ARTICLE	IF	CITATIONS
187	Design and characterization of a magnetite/PEI multifunctional nanohybrid as non-viral vector and cell isolation system. <i>International Journal of Pharmaceutics</i> , 2017, 518, 270-280.	5.2	9
188	Polyhydroxybutyrate/Hydroxyapatite Highly Porous Scaffold for Small Bone Defects Replacement in the Nonload-bearing Parts. <i>Journal of Bionic Engineering</i> , 2017, 14, 648-658.	5.0	33
190	Development of biodegradable polyesters with various microstructures for highly controlled release of epirubicin and cyclophosphamide. <i>European Journal of Pharmaceutical Sciences</i> , 2017, 96, 440-448.	4.0	13
191	Novel Polyurethane Matrix Systems Reveal a Particular Sustained Release Behavior Studied by Imaging and Computational Modeling. <i>AAPS PharmSciTech</i> , 2017, 18, 1544-1553.	3.3	2
192	Surface roughness control by extreme ultraviolet (EUV) radiation. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	4
193	Hyperspectral chemical imaging reveals spatially varied degradation of polycarbonate urethane (PCU) biomaterials. <i>Acta Biomaterialia</i> , 2018, 73, 81-89.	8.3	5
194	Fabrication and Characterization of Electrospun 75:25 PLGA Nanofibers for Skin Tissue Engineering. , 2018, , .		0
195	In vitro biocompatibility analysis of functionalized poly(vinyl chloride)/layered double hydroxide nanocomposites. <i>RSC Advances</i> , 2018, 8, 40611-40620.	3.6	32
196	Synthesis and Characterization of a Bioartificial Polymeric System with Potential Antibacterial Activity: Chitosan-Polyvinyl Alcohol-Ampicillin. <i>Molecules</i> , 2018, 23, 3109.	3.8	15
197	Polyethylene-like macrolactone-based polyesters: Rheological, thermal and barrier properties. <i>Materials Today Communications</i> , 2018, 17, 380-390.	1.9	11
198	ZnO nanoparticles dispersed PVA-PVP blend matrix based high performance flexible nanodielectrics for multifunctional microelectronic devices. <i>Current Applied Physics</i> , 2018, 18, 1041-1058.	2.4	137
199	Synthesis, Structural Characterization, Antimicrobial Activity, and In Vitro Biocompatibility of New Unsaturated Carboxylate Complexes with 2,2'-Bipyridine. <i>Molecules</i> , 2018, 23, 157.	3.8	32
200	A density functional study on synthetic polymer-amino acid interaction. <i>Journal of Chemical Sciences</i> , 2018, 130, 1.	1.5	0
201	Insight into functionalized DMN-co-GMA copolymers. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 138, 4485-4495.	3.6	3
202	Biological and Bio-inspired Nanomaterials. <i>Advances in Experimental Medicine and Biology</i> , 2019, , .	1.6	8
203	Experimental investigation of phase relationship in Ti-Fe-Hf ternary system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2019, 67, 101669.	1.6	1
204	Nano-Based Systems and Biomacromolecules as Carriers for Metallodrugs in Anticancer Therapy. <i>Inorganics</i> , 2019, 7, 2.	2.7	28
205	Renewable Resource-Based Polymers. , 2019, , 1-28.		5

#	ARTICLE	IF	CITATIONS
206	The role of scaffolds in tissue engineering. , 2019, , 23-49.		10
207	Silver-Based Polymeric Nanocomposites as Antimicrobial Coatings for Biomedical Applications. , 2019, , 115-171.		4
209	Synthesis and characterization of cobalt acrylateâ€“melamine co-crystals. Journal of Thermal Analysis and Calorimetry, 2019, 135, 2257-2264.	3.6	6
210	Introducing biomaterials for tissue repair and regeneration. , 2020, , 1-27.		4
211	TG/DSC/FTIR study of porous copolymeric beads based on the dimethacrylate derivative of m-xylene. Journal of Thermal Analysis and Calorimetry, 2020, 141, 1351-1360.	3.6	4
212	A Comprehensive Review on Optical Properties of Polymer Electrolytes and Composites. Materials, 2020, 13, 3675.	2.9	85
213	A review: silicate ceramic-polymer composite scaffold for bone tissue engineering. International Journal of Polymeric Materials and Polymeric Biomaterials, 2022, 71, 180-195.	3.4	29
214	Antibiotic Polymer for Biomedical Applications. , 2020, , 33-49.		1
215	Synthesis, spectroscopic characterization, and in vitro antioxidant activity of polyglycidylmethacrylate/polyindole conducting polymer composites. Microscopy Research and Technique, 2021, 84, 326-336.	2.2	0
216	Tantalum(<sc>v</sc>) peroxido complexes as phosphatase inhibitors: a comparative study <i>vis-a-vis</i> peroxido vanadates. New Journal of Chemistry, 2021, 45, 12848-12862.	2.8	3
217	Synthesis, Characterization, and Electrospinning of a Functionalizable, Polycaprolactone-Based Polyurethane for Soft Tissue Engineering. Polymers, 2021, 13, 1527.	4.5	8
218	An Overview of the Application of Poly(lactic-co-glycolic) Acid (PLGA)-Based Scaffold for Drug Delivery in Cartilage Tissue Engineering. International Journal of Medical Laboratory, 0, , .	0.0	0
220	Peroxo Compounds of Vanadium(V) and Niobium(V) as Potent Inhibitors of Calcineurin Activity towards RIIâ€“Phosphopeptide. ChemistrySelect, 2017, 2, 5838-5848.	1.5	12
221	Degradable and Bioactive Synthetic Composite Scaffolds for Bone Tissue Engineering. , 2012, , 111-137.		3
222	Nanowear of Polymers. Nanoscience and Technology, 2015, , 545-587.	1.5	3
223	Fabrication of PLA-HAp-CS Based Biocompatible and Biodegradable Feedstock Filament Using Twin Screw Extrusion. , 2019, , 325-345.		18
224	Bio Mimicking of Extracellular Matrix. Advances in Experimental Medicine and Biology, 2019, 1174, 371-399.	1.6	10
225	Bone Substitutes: Artificial Biomimetic. , 0, , 1124-1136.		1

#	ARTICLE	IF	CITATIONS
226	Polycarbonate Polymer Surface Modification by Extreme Ultraviolet (EUV) Radiation. Acta Physica Polonica A, 2014, 125, 924-928.	0.5	17
227	Review: Chitosan based hydrogel polymeric beads - As drug delivery system. BioResources, 2010, 5, 2765-2807.	1.0	44
228	Critical evaluation of biodegradable polymers used in nanodrugs. International Journal of Nanomedicine, 2013, 8, 3071.	6.7	127
229	Characterization and Biodegradation Studies for Interpenetrating Polymeric Network (IPN) of Chitosan-Amino Acid Beads. Journal of Biomaterials and Nanobiotechnology, 2011, 02, 71-84.	0.5	27
230	Biomedical Magnesium Alloys: A Review of Material Properties, Surface Modifications and Potential as a Biodegradable Orthopaedic Implant. American Journal of Biomedical Engineering, 2013, 2, 218-240.	0.9	256
231	Exploration of Physicochemical Parameters of Natural Origin Polymers. Current Applied Polymer Science, 2021, 4, 210-216.	0.2	0
232	Bioapplication Oriented Polymers. Micro- and Nanoparticles for Drug Delivery Systems. Advances in Experimental Medicine and Biology, 2004, 553, 69-82.	1.6	0
233	A Treatment Algorithm in Craniofacial Reconstruction: Future Developments. , 2010, , 261-271.		0
234	Non-isothermal Crystallization Behavior of Poly(glycolide-co- μ -caprolactone-co-L-lactide) Block Copolymer. Elastomers and Composites, 2014, 49, 13-23.	0.1	0
235	Functional Polymers, Active: Synthetic Strategy of Contact. , 0, , 3494-3508.		0
236	Nanocomposites: Polymerâ€™Silicate. , 0, , 5136-5146.		0
237	Inhaler Systems: Dry Powder. , 0, , 4063-4074.		0
238	Evaluation of Antioxidant and Antibacterial Effects of PLGA Nanoparticles Loaded with Rapeseed Pollen Extract. , 2021, 32, 468-476.		0
239	Incorporation of Glutamic Acid or Amino-Protected Glutamic Acid into Poly(Glycerol Sebacate): Synthesis and Characterization. Polymers, 2022, 14, 2206.	4.5	3
241	Application of Fourierâ€™s law in thermally induced phase separation (TIPS) process for porous poly(L-lactide) films. Polymer Bulletin, 0, , .	3.3	1
242	Advances in selective laser sintering of polymers. International Journal of Extreme Manufacturing, 2022, 4, 042002.	12.7	37
243	Engineering and Validation of a Peptide-Stabilized Poly(lactic-co-glycolic) Acid Nanoparticle for Targeted Delivery of a Vascular Disruptive Agent in Cancer Therapy. Bioconjugate Chemistry, 2022, 33, 2348-2360.	3.6	0
244	Radiation synthesis and modification of biopolymers and polymeric composites for biomedical applications. Polymers and Polymer Composites, 2023, 31, 096739112311666.	1.9	3

#	ARTICLE	IF	CITATIONS
245	Pt(II)-PLGA Hybrid in a pH-Responsive Nanoparticle System Targeting Ovarian Cancer. <i>Pharmaceutics</i> , 2023, 15, 607.	4.5	3
246	Effects of Gamma Irradiation on Optical Properties of Poly(ethylene oxide) Thin Films Doped with Potassium Iodide. <i>Journal of Composites Science</i> , 2023, 7, 194.	3.0	3
247	Reactive blending of polylactic acid/polyethylene glycol toward biodegradable film. <i>Macromolecular Research</i> , 0, , .	2.4	0
248	Synthesis, structural characterization, fluorescence properties and antimicrobial activities of dinuclear zinc(II) methacrylate complexes with N-donor ligands. <i>Journal of Molecular Structure</i> , 2023, 1293, 136283.	3.6	0
249	Development of BDNF/NGF/IKVAV Peptide Modified and Gold Nanoparticle Conductive PCL/PLGA Nerve Guidance Conduit for Regeneration of the Rat Spinal Cord Injury. <i>Macromolecular Bioscience</i> , 0, , .	4.1	1
250	Naturally-Derived Biomaterials for Oral and Dental Tissue Engineering. , 2024, , 91-118.		0