

Carlos Andrs Peniche Covas

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70
papers

2,938
citations

31
h-index

53
g-index

74
ext. papers

3,190
ext. citations

4.7
avg, IF

4.93
L-index

#	Paper	IF	Citations
70	Self-curing membranes of chitosan/PAA IPNs obtained by radical polymerization: preparation, characterization and interpolymer complexation. <i>Biomaterials</i> , 1999 , 20, 1869-78	15.6	242
69	Chitosan: An Attractive Biocompatible Polymer for Microencapsulation. <i>Macromolecular Bioscience</i> , 2003 , 3, 511-520	5.5	199
68	Preparation and Characterization of Chitosan Obtained from Shells of Shrimp (<i>Litopenaeus vannamei</i> Boone). <i>Marine Drugs</i> , 2017 , 15,	6	145
67	A kinetic study of the thermal degradation of chitosan and a mercaptan derivative of chitosan. <i>Polymer Degradation and Stability</i> , 1993 , 39, 21-28	4.7	132
66	Chitosan Based Self-Assembled Nanoparticles in Drug Delivery. <i>Polymers</i> , 2018 , 10,	4.5	129
65	The adsorption of mercuric ions by chitosan. <i>Journal of Applied Polymer Science</i> , 1992 , 46, 1147-1150	2.9	129
64	Water sorption of flexible networks based on 2-hydroxyethyl methacrylate-triethylenglycol dimethacrylate copolymers. <i>Polymer</i> , 1997 , 38, 5977-5982	3.9	104
63	Study of the thermal degradation of poly(N-vinyl-2-pyrrolidone) by thermogravimetry-FTIR. <i>Journal of Applied Polymer Science</i> , 1993 , 50, 485-493	2.9	94
62	Swelling behavior of chitosan/pectin polyelectrolyte complex membranes. Effect of thermal cross-linking. <i>Polymer Bulletin</i> , 2005 , 55, 367-375	2.4	90
61	Characterization of chitosan by pyrolysis-mass spectrometry, thermal analysis and differential scanning calorimetry. <i>Thermochimica Acta</i> , 1991 , 176, 63-68	2.9	79
60	Polymeric Hydrophilic Hydrogels with Flexible Hydrophobic Chains. Control of the Hydration and Interactions with Water Molecules. <i>Macromolecules</i> , 1997 , 30, 8440-8446	5.5	78
59	Chitosan nanoparticles: a contribution to nanomedicine. <i>Polymer International</i> , 2011 , 60, 883-889	3.3	73
58	Interpolymer complexes of chitosan and polymethacrylic derivatives of salicylic acid: preparation, characterization and modification by thermal treatment. <i>Polymer</i> , 1998 , 39, 6549-6554	3.9	72
57	Thermoresponsive behavior of chitosan-g-N-isopropylacrylamide copolymer solutions. <i>Biomacromolecules</i> , 2009 , 10, 1633-41	6.9	66
56	Preparation and characterization of a chitosan-Fe(III) complex. <i>Carbohydrate Polymers</i> , 1992 , 18, 221-224	10.3	65
55	Kinetics study of the solid-state acid hydrolysis of chitosan: evolution of the crystallinity and macromolecular structure. <i>Biomacromolecules</i> , 2010 , 11, 1376-86	6.9	64
54	Conductimetric study of the interpolyelectrolyte reaction between chitosan and polygalacturonic acid. <i>Polymer</i> , 2000 , 41, 2373-2378	3.9	61

53	Formation and stability of shark liver oil loaded chitosan/calcium alginate capsules. <i>Food Hydrocolloids</i> , 2004 , 18, 865-871	10.6	58
52	Study of the interpolyelectrolyte reaction between chitosan and alginate: influence of alginate composition and chitosan molecular weight. <i>International Journal of Biological Macromolecules</i> , 2004 , 34, 127-33	7.9	56
51	Preparation and characterization of superparamagnetic chitosan microspheres: Application as a support for the immobilization of tyrosinase. <i>Journal of Applied Polymer Science</i> , 2005 , 98, 651-657	2.9	56
50	Chitosan-based hydrogels: synthesis and characterization. <i>Journal of Materials Science: Materials in Medicine</i> , 2001 , 12, 861-4	4.5	53
49	Ferrocene branched chitosan for the construction of a reagentless amperometric hydrogen peroxide biosensor. <i>Macromolecular Bioscience</i> , 2007 , 7, 435-9	5.5	46
48	Chitosan based polyelectrolyte complexes. <i>Macromolecular Symposia</i> , 2001 , 168, 103-116	0.8	46
47	Drug Delivery Systems Based on Porous Chitosan/Polyacrylic acid Microspheres. <i>Macromolecular Bioscience</i> , 2003 , 3, 540-545	5.5	42
46	Cellulose Nanofiber-Reinforced Chitosan Hydrogel Composites for Intervertebral Disc Tissue Repair. <i>Biomimetics</i> , 2019 , 4,	3.7	41
45	Chitosan/apatite composite beads prepared by in situ generation of apatite or Si-apatite nanocrystals. <i>Acta Biomaterialia</i> , 2010 , 6, 466-76	10.8	35
44	Temperature and pH-sensitive chitosan hydrogels: DSC, rheological and swelling evidence of a volume phase transition. <i>Polymer Bulletin</i> , 2007 , 58, 225-234	2.4	35
43	Cell supports of chitosan/hyaluronic acid and chondroitin sulphate systems. Morphology and biological behaviour. <i>Journal of Materials Science: Materials in Medicine</i> , 2007 , 18, 1719-26	4.5	35
42	Study of the thermal degradation of poly(furfuryl methacrylate) by thermogravimetry. <i>Polymer Degradation and Stability</i> , 1993 , 40, 287-295	4.7	35
41	Study of the stoichiometric polyelectrolyte complex between chitosan and carboxymethyl cellulose. <i>Polymer Bulletin</i> , 1990 , 23, 307-313	2.4	35
40	Tramadol Release from a Delivery System Based on Alginate-Chitosan Microcapsules. <i>Macromolecular Bioscience</i> , 2003 , 3, 546-551	5.5	31
39	Highly crystalline chitosan produced by multi-steps acid hydrolysis in the solid-state. <i>Carbohydrate Polymers</i> , 2011 , 83, 1730-1739	10.3	30
38	Diffusion Through Membranes of the Polyelectrolyte Complex of Chitosan and Alginate. <i>Macromolecular Bioscience</i> , 2003 , 3, 535-539	5.5	30
37	Synthesis and characterization of pH and temperature responsive poly(2-hydroxyethyl methacrylate-co-acrylamide) hydrogels. <i>Polimeros</i> , 2015 , 25, 547-555	1.6	24
36	Chitosan Spray-Dried Microparticles for Controlled Delivery of Venlafaxine Hydrochloride. <i>Molecules</i> , 2017 , 22,	4.8	22

35	Sorption and desorption of water vapour by membranes of the polyelectrolyte complex of chitosan and carboxymethyl cellulose. <i>Polymer International</i> , 1995 , 38, 45-52	3.3	22
34	Novel drug delivery systems: Chitosan conjugates covalently attached to steroids with potential anticancer and agrochemical activity. <i>Carbohydrate Polymers</i> , 2011 , 84, 858-864	10.3	21
33	Activity of the furfuryl ring in the free radical polymerization of acrylic monomers. <i>Journal of Polymer Science Part A</i> , 1996 , 34, 2759-2766	2.5	20
32	Free radical copolymerization of furfuryl methacrylate and N-vinylpyrrolidone. <i>Polymer</i> , 1992 , 33, 4625-4629	5.7	20
31	Swelling of membranes from the polyelectrolyte complex between chitosan and carboxymethyl cellulose. <i>Polymer Bulletin</i> , 1993 , 31, 471-478	2.4	20
30	Self-assembled hyaluronic acid-testosterone nanocarriers for delivery of anticancer drugs. <i>European Polymer Journal</i> , 2018 , 99, 384-393	5.2	19
29	Thermo- and pH-responsive polyelectrolyte complex membranes from chitosan-g-N-isopropylacrylamide and pectin. <i>Carbohydrate Polymers</i> , 2011 , 86, 1336-1343	10.3	19
28	Biocompatible hydrogels of controlled hydrophobicity from copolymers of N-vinyl-2-pyrrolidone and furfuryl methacrylate. <i>Biomaterials</i> , 1993 , 14, 1073-9	15.6	17
27	Thermosensitive macroporous cryogels functionalized with bioactive chitosan/bemiparin nanoparticles. <i>Macromolecular Bioscience</i> , 2013 , 13, 1556-67	5.5	16
26	Effects of different parameters on the characteristics of chitosan/poly(acrylic acid) nanoparticles obtained by the method of coacervation. <i>Journal of Applied Polymer Science</i> , 2009 , 111, 2362-2371	2.9	16
25	Chitin and chitosan. <i>Developments in Food Science</i> , 2000 , 41, 265-308		16
24	Chitosan/(ureasil/PEO hybrid) blend for drug delivery. <i>Journal of Sol-Gel Science and Technology</i> , 2014 , 72, 233-238	2.3	15
23	Synthesis and characterization of novel pH-sensitive chitosan-poly(acrylamide-co-itaconic acid) hydrogels. <i>Polymer International</i> , 2014 , 63, 1715-1723	3.3	15
22	Fine microstructure of processed chitosan nanofibril networks preserving directional packing and high molecular weight. <i>Carbohydrate Polymers</i> , 2015 , 131, 1-8	10.3	14
21	Photoinitiated homopolymerization and copolymerization of furfuryl methacrylate and N-vinylpyrrolidone. <i>Journal of Polymer Science Part A</i> , 1996 , 34, 1753-1761	2.5	14
20	Swelling behavior of hydroxyethylmethacrylate hydrogels modified by copolymerization with furfuryl acrylate. <i>Journal of Applied Polymer Science</i> , 1994 , 54, 959-968	2.9	14
19	Characterization of silver-binding chitosan by thermal analysis and electron impact mass spectrometry. <i>Carbohydrate Polymers</i> , 1988 , 9, 249-256	10.3	14
18	Free radical copolymerization of furfuryl acrylate and 2-hydroxyethyl-methacrylate. <i>Journal of Polymer Science Part A</i> , 1993 , 31, 625-631	2.5	13

17	Influence of chain microstructure on thermodegradative behavior of furfuryl methacrylate-N-vinylpyrrolidone random copolymers by thermogravimetry. <i>Journal of Applied Polymer Science</i> , 1993 , 50, 2121-2127	2.9	11
16	Preparation of a novel polyampholyte from chitosan and citric acid. <i>Die Makromolekulare Chemie Rapid Communications</i> , 1993 , 14, 735-740		11
15	Soda Pulping of Bagasse: Delignification Phases and Kinetics. <i>Holzforschung</i> , 1993 , 47, 313-317	2	10
14	Microencapsulation of alpha interferons in biodegradable microspheres. <i>Journal of Interferon and Cytokine Research</i> , 2012 , 32, 299-311	3.5	9
13	Biocompatibility of composites based on chitosan, apatite, and graphene oxide for tissue applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2018 , 106, 1585-1594	5.4	8
12	Extraction of PLGA-microencapsulated proteins using a two-immiscible liquid phases system containing surfactants. <i>Pharmaceutical Research</i> , 2013 , 30, 606-15	4.5	7
11	High conversion copolymerization of furfuryl methacrylate and N-vinyl-pyrrolidone. A kinetic approach to Skeist's treatment for free radical copolymerization in different reaction media. <i>Polymer</i> , 1994 , 35, 2390-2396	3.9	7
10	Dexamethasone-Loaded Chitosan Beads Coated with a pH-Dependent Interpolymer Complex for Colon-Specific Drug Delivery. <i>International Journal of Polymer Science</i> , 2019 , 2019, 1-9	2.4	6
9	Preparation, characterization, and in vitro evaluation of nanostructured chitosan/apatite and chitosan/Si-doped apatite composites. <i>Journal of Materials Science</i> , 2013 , 48, 841-849	4.3	6
8	Steroid-grafted silk fibroin conjugates for drug and agrochemical delivery. <i>European Polymer Journal</i> , 2019 , 119, 169-175	5.2	5
7	Thermal properties, nanoscopic structure and swelling behavior of chitosan/(ureasil/polyethylene oxide hybrid) blends. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017 , 130, 791-798	4.1	4
6	Photoinitiated copolymerisation of furfuryl methacrylate and N,N-dimethyl acrylamide. <i>Polymer</i> , 1998 , 39, 917-921	3.9	4
5	Passive adsorption of human antirrabic immunoglobulin onto a polystyrene surface. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2005 , 16, 435-48	3.5	3
4	Novel Self-Assembled Nanoparticles of Testosterone-Modified Glycol Chitosan and Fructose Chitosan for Controlled Release. <i>Journal of Biomaterials and Tissue Engineering</i> , 2013 , 3, 164-172	0.3	3
3	Synthesis of regioselective chitosan copolymers with Cyclodextrin and poly(N-isopropyl acrylamide). <i>Journal of Polymer Research</i> , 2020 , 27, 1	2.7	2
2	Un método reproducible para obtener peg biramificado monofuncional de alta pureza. <i>Quimica Nova</i> , 2009 , 32, 1426-1431	1.6	2
1	Chitin Preparation by Demineralizing Deproteinized Lobster Shells with CO ₂ and a Cationite. <i>Journal of Renewable Materials</i> , 2017 , 5, 30-37	2.4	1