

# Carlos Andrs Peniche Covas

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Synthesis of regioselective chitosan copolymers with Cyclodextrin and poly(N-isopropyl acrylamide). <i>Journal of Polymer Research</i> , <b>2020</b> , 27, 1	2.7	2
69	Dexamethasone-Loaded Chitosan Beads Coated with a pH-Dependent Interpolymer Complex for Colon-Specific Drug Delivery. <i>International Journal of Polymer Science</i> , <b>2019</b> , 2019, 1-9	2.4	6
68	Cellulose Nanofiber-Reinforced Chitosan Hydrogel Composites for Intervertebral Disc Tissue Repair. <i>Biomimetics</i> , <b>2019</b> , 4,	3.7	41
67	Steroid-grafted silk fibroin conjugates for drug and agrochemical delivery. <i>European Polymer Journal</i> , <b>2019</b> , 119, 169-175	5.2	5
66	Biocompatibility of composites based on chitosan, apatite, and graphene oxide for tissue applications. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2018</b> , 106, 1585-1594	5.4	8
65	Self-assembled hyaluronic acid-testosterone nanocarriers for delivery of anticancer drugs. <i>European Polymer Journal</i> , <b>2018</b> , 99, 384-393	5.2	19
64	Chitosan Based Self-Assembled Nanoparticles in Drug Delivery. <i>Polymers</i> , <b>2018</b> , 10,	4.5	129
63	Thermal properties, nanoscopic structure and swelling behavior of chitosan/(ureasil/polyethylene oxide hybrid) blends. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2017</b> , 130, 791-798	4.1	4
62	Chitin Preparation by Demineralizing Deproteinized Lobster Shells with CO <sub>2</sub> and a Cationite. <i>Journal of Renewable Materials</i> , <b>2017</b> , 5, 30-37	2.4	1
61	Preparation and Characterization of Chitosan Obtained from Shells of Shrimp ( <i>Litopenaeus vannamei</i> Boone). <i>Marine Drugs</i> , <b>2017</b> , 15,	6	145
60	Chitosan Spray-Dried Microparticles for Controlled Delivery of Venlafaxine Hydrochloride. <i>Molecules</i> , <b>2017</b> , 22,	4.8	22
59	Synthesis and characterization of pH and temperature responsive poly(2-hydroxyethyl methacrylate-co-acrylamide) hydrogels. <i>Polimeros</i> , <b>2015</b> , 25, 547-555	1.6	24
58	Fine microstructure of processed chitosan nanofibril networks preserving directional packing and high molecular weight. <i>Carbohydrate Polymers</i> , <b>2015</b> , 131, 1-8	10.3	14
57	Chitosan/(ureasil/PEO hybrid) blend for drug delivery. <i>Journal of Sol-Gel Science and Technology</i> , <b>2014</b> , 72, 233-238	2.3	15
56	Synthesis and characterization of novel pH-sensitive chitosan-poly(acrylamide-co-itaconic acid) hydrogels. <i>Polymer International</i> , <b>2014</b> , 63, 1715-1723	3.3	15
55	Thermosensitive macroporous cryogels functionalized with bioactive chitosan/bemiparin nanoparticles. <i>Macromolecular Bioscience</i> , <b>2013</b> , 13, 1556-67	5.5	16
54	Preparation, characterization, and in vitro evaluation of nanostructured chitosan/apatite and chitosan/Si-doped apatite composites. <i>Journal of Materials Science</i> , <b>2013</b> , 48, 841-849	4.3	6

53	Extraction of PLGA-microencapsulated proteins using a two-immiscible liquid phases system containing surfactants. <i>Pharmaceutical Research</i> , <b>2013</b> , 30, 606-15	4.5	7
52	Novel Self-Assembled Nanoparticles of Testosterone-Modified Glycol Chitosan and Fructose Chitosan for Controlled Release. <i>Journal of Biomaterials and Tissue Engineering</i> , <b>2013</b> , 3, 164-172	0.3	3
51	Microencapsulation of alpha interferons in biodegradable microspheres. <i>Journal of Interferon and Cytokine Research</i> , <b>2012</b> , 32, 299-311	3.5	9
50	Thermo- and pH-responsive polyelectrolyte complex membranes from chitosan-g-N-isopropylacrylamide and pectin. <i>Carbohydrate Polymers</i> , <b>2011</b> , 86, 1336-1343	10.3	19
49	Chitosan nanoparticles: a contribution to nanomedicine. <i>Polymer International</i> , <b>2011</b> , 60, 883-889	3.3	73
48	Highly crystalline chitosan produced by multi-steps acid hydrolysis in the solid-state. <i>Carbohydrate Polymers</i> , <b>2011</b> , 83, 1730-1739	10.3	30
47	Novel drug delivery systems: Chitosan conjugates covalently attached to steroids with potential anticancer and agrochemical activity. <i>Carbohydrate Polymers</i> , <b>2011</b> , 84, 858-864	10.3	21
46	Kinetics study of the solid-state acid hydrolysis of chitosan: evolution of the crystallinity and macromolecular structure. <i>Biomacromolecules</i> , <b>2010</b> , 11, 1376-86	6.9	64
45	Chitosan/apatite composite beads prepared by in situ generation of apatite or Si-apatite nanocrystals. <i>Acta Biomaterialia</i> , <b>2010</b> , 6, 466-76	10.8	35
44	Un mÉodo reproducible para obtener peg biramificado monofuncional de alta pureza. <i>Quimica Nova</i> , <b>2009</b> , 32, 1426-1431	1.6	2
43	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> , <b>2009</b> , 111, 2362-2371	2.9	16
42	Thermoresponsive behavior of chitosan-g-N-isopropylacrylamide copolymer solutions. <i>Biomacromolecules</i> , <b>2009</b> , 10, 1633-41	6.9	66
41	Ferrocene branched chitosan for the construction of a reagentless amperometric hydrogen peroxide biosensor. <i>Macromolecular Bioscience</i> , <b>2007</b> , 7, 435-9	5.5	46
40	Temperature and pH-sensitive chitosan hydrogels: DSC, rheological and swelling evidence of a volume phase transition. <i>Polymer Bulletin</i> , <b>2007</b> , 58, 225-234	2.4	35
39	Cell supports of chitosan/hyaluronic acid and chondroitin sulphate systems. Morphology and biological behaviour. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2007</b> , 18, 1719-26	4.5	35
38	Passive adsorption of human antirrabic immunoglobulin onto a polystyrene surface. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2005</b> , 16, 435-48	3.5	3
37	Preparation and characterization of superparamagnetic chitosan microspheres: Application as a support for the immobilization of tyrosinase. <i>Journal of Applied Polymer Science</i> , <b>2005</b> , 98, 651-657	2.9	56
36	Swelling behavior of chitosan/pectin polyelectrolyte complex membranes. Effect of thermal cross-linking. <i>Polymer Bulletin</i> , <b>2005</b> , 55, 367-375	2.4	90

35	Formation and stability of shark liver oil loaded chitosan/calcium alginate capsules. <i>Food Hydrocolloids</i> , <b>2004</b> , 18, 865-871	10.6	58
34	Study of the interpolyelectrolyte reaction between chitosan and alginate: influence of alginate composition and chitosan molecular weight. <i>International Journal of Biological Macromolecules</i> , <b>2004</b> , 34, 127-33	7.9	56
33	Tramadol Release from a Delivery System Based on Alginate-Chitosan Microcapsules. <i>Macromolecular Bioscience</i> , <b>2003</b> , 3, 546-551	5.5	31
32	Chitosan: An Attractive Biocompatible Polymer for Microencapsulation. <i>Macromolecular Bioscience</i> , <b>2003</b> , 3, 511-520	5.5	199
31	Diffusion Through Membranes of the Polyelectrolyte Complex of Chitosan and Alginate. <i>Macromolecular Bioscience</i> , <b>2003</b> , 3, 535-539	5.5	30
30	Drug Delivery Systems Based on Porous Chitosan/Polyacrylic acid Microspheres. <i>Macromolecular Bioscience</i> , <b>2003</b> , 3, 540-545	5.5	42
29	Chitosan-based hydrogels: synthesis and characterization. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2001</b> , 12, 861-4	4.5	53
28	Chitosan based polyelectrolyte complexes. <i>Macromolecular Symposia</i> , <b>2001</b> , 168, 103-116	0.8	46
27	Conductimetric study of the interpolyelectrolyte reaction between chitosan and polygalacturonic acid. <i>Polymer</i> , <b>2000</b> , 41, 2373-2378	3.9	61
26	Chitin and chitosan. <i>Developments in Food Science</i> , <b>2000</b> , 41, 265-308		16
25	Self-curing membranes of chitosan/PAA IPNs obtained by radical polymerization: preparation, characterization and interpolymer complexation. <i>Biomaterials</i> , <b>1999</b> , 20, 1869-78	15.6	242
24	Photoinitiated copolymerisation of furfuryl methacrylate and N,N-dimethyl acrylamide. <i>Polymer</i> , <b>1998</b> , 39, 917-921	3.9	4
23	Interpolymer complexes of chitosan and polymethacrylic derivatives of salicylic acid: preparation, characterization and modification by thermal treatment. <i>Polymer</i> , <b>1998</b> , 39, 6549-6554	3.9	72
22	Polymeric Hydrophilic Hydrogels with Flexible Hydrophobic Chains. Control of the Hydration and Interactions with Water Molecules. <i>Macromolecules</i> , <b>1997</b> , 30, 8440-8446	5.5	78
21	Water sorption of flexible networks based on 2-hydroxyethyl methacrylate-triethylenglycol dimethacrylate copolymers. <i>Polymer</i> , <b>1997</b> , 38, 5977-5982	3.9	104
20	Photoinitiated homopolymerization and copolymerization of furfuryl methacrylate and N-vinylpyrrolidone. <i>Journal of Polymer Science Part A</i> , <b>1996</b> , 34, 1753-1761	2.5	14
19	Activity of the furfuryl ring in the free radical polymerization of acrylic monomers. <i>Journal of Polymer Science Part A</i> , <b>1996</b> , 34, 2759-2766	2.5	20
18	Sorption and desorption of water vapour by membranes of the polyelectrolyte complex of chitosan and carboxymethyl cellulose. <i>Polymer International</i> , <b>1995</b> , 38, 45-52	3.3	22

17	Swelling behavior of hydroxyethylemethacrylate hydrogels modified by copolymerization with furfuryl acrylate. <i>Journal of Applied Polymer Science</i> , <b>1994</b> , 54, 959-968	2.9	14
16	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> , <b>1994</b> , 35, 2390-2396	3.9	7
15	Soda Pulping of Bagasse: Delignification Phases and Kinetics. <i>Holzforschung</i> , <b>1993</b> , 47, 313-317	2	10
14	Study of the thermal degradation of poly(N-vinyl-2-pyrrolidone) by thermogravimetry-FTIR. <i>Journal of Applied Polymer Science</i> , <b>1993</b> , 50, 485-493	2.9	94
13	Influence of chain microstructure on thermodegradative behavior of furfuryl methacrylate-N-vinylpyrrolidone random copolymers by thermogravimetry. <i>Journal of Applied Polymer Science</i> , <b>1993</b> , 50, 2121-2127	2.9	11
12	Preparation of a novel polyampholyte from chitosan and citric acid. <i>Die Makromolekulare Chemie Rapid Communications</i> , <b>1993</b> , 14, 735-740		11
11	Biocompatible hydrogels of controlled hydrophobicity from copolymers of N-vinyl-2-pyrrolidone and furfuryl methacrylate. <i>Biomaterials</i> , <b>1993</b> , 14, 1073-9	15.6	17
10	A kinetic study of the thermal degradation of chitosan and a mercaptan derivative of chitosan. <i>Polymer Degradation and Stability</i> , <b>1993</b> , 39, 21-28	4.7	132
9	Study of the thermal degradation of poly(furfuryl methacrylate) by thermogravimetry. <i>Polymer Degradation and Stability</i> , <b>1993</b> , 40, 287-295	4.7	35
8	Swelling of membranes from the polyelectrolyte complex between chitosan and carboxymethyl cellulose. <i>Polymer Bulletin</i> , <b>1993</b> , 31, 471-478	2.4	20
7	Free radical copolymerization of furfuryl acrylate and 2-hydroxyethyl-methacrylate. <i>Journal of Polymer Science Part A</i> , <b>1993</b> , 31, 625-631	2.5	13
6	Preparation and characterization of a chitosan-Fe(III) complex. <i>Carbohydrate Polymers</i> , <b>1992</b> , 18, 221-224	10.3	65
5	Free radical copolymerization of furfuryl methacrylate and N-vinylpyrrolidone. <i>Polymer</i> , <b>1992</b> , 33, 4625-4629	5.9	20
4	The adsorption of mercuric ions by chitosan. <i>Journal of Applied Polymer Science</i> , <b>1992</b> , 46, 1147-1150	2.9	129
3	Characterization of chitosan by pyrolysis-mass spectrometry, thermal analysis and differential scanning calorimetry. <i>Thermochimica Acta</i> , <b>1991</b> , 176, 63-68	2.9	79
2	Study of the stoichiometric polyelectrolyte complex between chitosan and carboxymethyl cellulose. <i>Polymer Bulletin</i> , <b>1990</b> , 23, 307-313	2.4	35
1	Characterization of silver-binding chitosan by thermal analysis and electron impact mass spectrometry. <i>Carbohydrate Polymers</i> , <b>1988</b> , 9, 249-256	10.3	14