

ngeles Heras Caballero

List of Publications by Citations

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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.

68

papers

3,082

citations

28

h-index

55

g-index

70

ext. papers

3,479

ext. citations

6

avg, IF

5.13

L-index

#	Paper	IF	Citations
68	Functional Characterization of Chitin and Chitosan. <i>Current Chemical Biology</i> , 2009 , 3, 203-230	0.4	564
67	Chitosan Amphiphilic Derivatives. Chemistry and Applications. <i>Current Organic Chemistry</i> , 2010 , 14, 308-330		202
66	Tight junction modulation by chitosan nanoparticles: comparison with chitosan solution. <i>International Journal of Pharmaceutics</i> , 2010 , 400, 183-93	6.5	173
65	Cosmetics and Cosmeceutical Applications of Chitin, Chitosan and Their Derivatives. <i>Polymers</i> , 2018 , 10,	4.5	167
64	N-methylene phosphonic chitosan: a novel soluble derivative. <i>Carbohydrate Polymers</i> , 2001 , 44, 1-8	10.3	154
63	Functional Characterization of Chitin and Chitosan. <i>Current Chemical Biology</i> , 2009 , 3, 203-230	0.4	147
62	Chitosan nanoparticles and microspheres for the encapsulation of natural antioxidants extracted from <i>Ilex paraguariensis</i> . <i>Carbohydrate Polymers</i> , 2011 , 84, 803-806	10.3	104
61	New drug delivery systems based on chitosan. <i>Current Drug Discovery Technologies</i> , 2008 , 5, 333-41	1.5	103
60	Modified chitosan carrying phosphonic and alkyl groups. <i>Carbohydrate Polymers</i> , 2003 , 51, 425-429	10.3	88
59	N-methylene phosphonic chitosan. Effect of preparation methods on its properties. <i>Carbohydrate Polymers</i> , 2003 , 52, 39-46	10.3	77
58	Extraction and characterization of chitin from crustaceans. <i>Biomass and Bioenergy</i> , 1993 , 5, 145-153	5.3	73
57	-Deacetylation and depolymerization reactions of chitin/chitosan: Influence of the source of chitin. <i>Carbohydrate Polymers</i> , 2005 , 62, 316-320	10.3	71
56	The occurrence of a Maillard-type protein-polysaccharide reaction between β -lactoglobulin and chitosan. <i>Food Chemistry</i> , 2007 , 100, 1071-1075	8.5	58
55	Chitosan-genipin microspheres for the controlled release of drugs: clarithromycin, tramadol and heparin. <i>Marine Drugs</i> , 2010 , 8, 1750-62	6	56
54	Chitosan: An Overview of Its Properties and Applications. <i>Polymers</i> , 2021 , 13,	4.5	55
53	Nano and microparticulate chitosan-based systems for antiviral topical delivery. <i>European Journal of Pharmaceutical Sciences</i> , 2013 , 48, 216-22	5.1	53
52	Effect of Chemical Crosslinking on the Swelling and Shrinking Properties of Thermal and pH-Responsive Chitosan Hydrogels. <i>Macromolecular Bioscience</i> , 2003 , 3, 612-619	5.5	53

51	Influence of the physico-chemical characteristics of chito-oligosaccharides (COS) on antioxidant activity. <i>Carbohydrate Polymers</i> , 2013 , 97, 776-82	10.3	45
50	Poly-(styrene sulphonic acid): An acid catalyst from polystyrene waste for reactions of interest in biomass valorization. <i>Catalysis Today</i> , 2014 , 234, 285-294	5.3	41
49	Application of MRI to monitor the process of ripening and decay in citrus treated with chitosan solutions. <i>Magnetic Resonance Imaging</i> , 2004 , 22, 127-37	3.3	40
48	Effect of chito-oligosaccharides over human faecal microbiota during fermentation in batch cultures. <i>Carbohydrate Polymers</i> , 2016 , 137, 617-624	10.3	37
47	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
46	Antibacterial activity of products of depolymerization of chitosans with lysozyme and chitosanase against <i>Campylobacter jejuni</i> . <i>Carbohydrate Polymers</i> , 2011 , 84, 844-848	10.3	34
45	Films of chitosan and chitosan-oligosaccharide neutralized and thermally treated: Effects on its antibacterial and other activities. <i>LWT - Food Science and Technology</i> , 2016 , 73, 368-374	5.4	32
44	Controlled size green synthesis of bioactive silver nanoparticles assisted by chitosan and its derivatives and their application in biofilm preparation. <i>Carbohydrate Polymers</i> , 2020 , 236, 116063	10.3	31
43	Tramadol Release from a Delivery System Based on Alginate-Chitosan Microcapsules. <i>Macromolecular Bioscience</i> , 2003 , 3, 546-551	5.5	31
42	Poly(styrenesulphonic) acid: an active and reusable acid catalyst soluble in polar solvents. <i>Green Chemistry</i> , 2011 , 13, 3203	10	30
41	Magnetic chitosan beads for covalent immobilization of nucleoside 2'Deoxyribosyltransferase: application in nucleoside analogues synthesis. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2013 , 40, 955-66	4.2	28
40	Use of soluble chitosans in Maillard reaction products with β Lactoglobulin. Emulsifying and antioxidant properties. <i>LWT - Food Science and Technology</i> , 2017 , 75, 440-446	5.4	27
39	Physical Stability Studies of Semi-Solid Formulations from Natural Compounds Loaded with Chitosan Microspheres. <i>Marine Drugs</i> , 2015 , 13, 5901-19	6	27
38	Self-assembled nanoparticles of glycol chitosan β Ergocalciferol succinate conjugate, for controlled release. <i>Carbohydrate Polymers</i> , 2012 , 88, 1373-1377	10.3	26
37	Synthesis, physicochemical characterization and biological evaluation of chitosan sulfate as heparan sulfate mimics. <i>Carbohydrate Polymers</i> , 2018 , 191, 225-233	10.3	25
36	Chitosan Spray-Dried Microparticles for Controlled Delivery of Venlafaxine Hydrochloride. <i>Molecules</i> , 2017 , 22,	4.8	22
35	Role of Physicochemical Properties of Chitin and Chitosan on their Functionality. <i>Current Chemical Biology</i> , 2014 , 8, 27-42	0.4	21
34	pH- and Temperature-Sensitive Chitosan Hydrogels: Swelling and MRI Studies. <i>Macromolecular Chemistry and Physics</i> , 2011 , 212, 887-895	2.6	21

33	Encapsulation of an Agrobacterium radiobacter extract containing d-hydantoinase and d-carbamoylase activities into alginate-chitosan polyelectrolyte complexes. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009 , 58, 54-64		21
32	A contribution to the study of the electrochemical oxidation of p-aminophenol on a mercury electrode. <i>Electrochimica Acta</i> , 1984 , 29, 541-545	6.7	21
31	Self-assembled nanoparticles of modified-chitosan conjugates for the sustained release of DL- α -tocopherol. <i>Carbohydrate Polymers</i> , 2013 , 92, 856-64	10.3	20
30	N,O6-partially acetylated chitosan nanoparticles hydrophobically-modified for controlled release of steroids and vitamin E. <i>Carbohydrate Polymers</i> , 2013 , 91, 143-51	10.3	19
29	Co-immobilization of d-hydantoinase and d-carboamylase on Chitin: Application to the Synthesis of p-hydroxyphenylglycine. <i>Biocatalysis and Biotransformation</i> , 2003 , 21, 349-356	2.5	19
28	Influence of Preparation Methods of Chitooligosaccharides on Their Physicochemical Properties and Their Anti-Inflammatory Effects in Mice and in RAW264.7 Macrophages. <i>Marine Drugs</i> , 2018 , 16,	6	18
27	Oil Quality Control of Culinary Oils Subjected to Deep-Fat Frying Based on NMR and EPR Spectroscopy. <i>Food Analytical Methods</i> , 2017 , 10, 2467-2480	3.4	15
26	Efficient reduction of Toluidine Blue O dye using silver nanoparticles synthesized by low molecular weight chitosans. <i>International Journal of Biological Macromolecules</i> , 2019 , 131, 682-690	7.9	15
25	Efficient conversion of chitosan into chitooligosaccharides by a chitosanolytic activity from <i>Bacillus thuringiensis</i> . <i>Process Biochemistry</i> , 2018 , 73, 102-108	4.8	15
24	Enzymatic production of low-Mw chitosan-derivatives: Characterization and biological activities evaluation. <i>International Journal of Biological Macromolecules</i> , 2020 , 144, 279-288	7.9	15
23	An electrochemical study of the dimerization of mesityl oxide. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1985 , 195, 321-334		14
22	Preparation of a crude chitosanase from blue crab viscera as well as its application in the production of biologically active chito-oligosaccharides from shrimp shells chitosan. <i>International Journal of Biological Macromolecules</i> , 2019 , 139, 558-569	7.9	13
21	Fluorescent imino and secondary amino chitosans as potential sensing biomaterials. <i>Carbohydrate Polymers</i> , 2015 , 123, 288-96	10.3	13
20	Chitosan derivatives-based films as pH-sensitive drug delivery systems with enhanced antioxidant and antibacterial properties. <i>International Journal of Biological Macromolecules</i> , 2021 , 182, 730-742	7.9	12
19	Suitability of a colorimetric method for the selective determination of chitosan in dietary supplements. <i>Food Chemistry</i> , 2011 , 126, 1836-9	8.5	10
18	Competitive homogeneous chemical reactions occurring between two electron transfers. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1988 , 243, 293-307		10
17	Synthesis of p-hydroxyphenylglycine by cell extract from Agrobacterium radiobacter encapsulated in alginate capsules. <i>Enzyme and Microbial Technology</i> , 2006 , 39, 215-221	3.8	9
16	Use of μ polarographic curves for the calculation of the rate constant of the intermediate chemical reaction of an ECE mechanism. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1984 , 172, 167-172		9

15	Influence of N-Deacetylation Conditions on Chitosan Production from β -Chitin. <i>Natural Product Communications</i> , 2008 , 3, 1934578X0800300	0.9	7
14	Influence of organic-aqueous media in the DNSAE activity of micrococcal endonuclease. <i>Journal of Molecular Catalysis</i> , 1989 , 52, 323-336		7
13	Determination of the rate constants for a CECE reduction mechanism. <i>Electrochimica Acta</i> , 1987 , 32, 1495-1497	6.7	7
12	β -Chymotrypsin Immobilized on Chitin. Relationships Between the Enzyme Kinetic Constant and Support Structure. <i>Biocatalysis</i> , 1994 , 11, 305-313		6
11	Influence of the modification procedure of support materials on the microenvironment of immobilized β -chymotrypsin. <i>Journal of Molecular Catalysis</i> , 1993 , 80, 127-136		6
10	On the Ability of Low Molecular Weight Chitosan Enzymatically Depolymerized to Produce and Stabilize Silver Nanoparticles. <i>Biomimetics</i> , 2018 , 3,	3.7	6
9	Unraveling the Structural Landscape of Chitosan-Based Heparan Sulfate Mimics Binding to Growth Factors: Deciphering Structural Determinants for Optimal Activity. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 25534-25545	9.5	4
8	Effect of lyophilization and subsequent rehydration of immobilized β -chymotrypsin derivatives. <i>Journal of Molecular Catalysis</i> , 1994 , 89, 397-405		4
7	A contribution to the study of the electrochemical reduction of o-nitrophenol on a mercury electrode. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1984 , 170, 353-356		4
6	Normal pulse polarography: analytical expressions for the kinetic current and irreversible electrode reactions. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1985 , 182, 173-178		4
5	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
4	Coimmobilization of enzymes and cells on chitosan and derivatives. <i>Progress in Biotechnology</i> , 1998 , 15, 679-684		2
3	Diffusion intensity in normal pulse polarography. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1985 , 182, 169-172		2
2	Chitosan and inhalers: a bioadhesive polymer for pulmonary drug delivery 2013 , 77-93		1
1	InFiQuS: Making the Best of Leftovers 2016 , 341-370		