ngeles Heras Caballero

List of Publications by Year in Descending Order

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	Chitosan derivatives-based films as pH-sensitive drug delivery systems with enhanced antioxidant and antibacterial properties. *International Journal of Biological Macromolecules*, **2021**, 182, 730-742	7.9	12
67	Chitosan: An Overview of Its Properties and Applications. *Polymers*, **2021**, 13,	4.5	55
66	Unraveling the Structural Landscape of Chitosan-Based Heparan Sulfate Mimics Binding to Growth Factors: Deciphering Structural Determinants for Optimal Activity. *ACS Applied Materials & Interfaces*, **2020**, 12, 25534-25545	9.5	4
65	Controlled size green synthesis of bioactive silver nanoparticles assisted by chitosan and its derivatives and their application in biofilm preparation. *Carbohydrate Polymers*, **2020**, 236, 116063	10.3	31
64	Enzymatic production of low-Mw chitosan-derivatives: Characterization and biological activities evaluation. *International Journal of Biological Macromolecules*, **2020**, 144, 279-288	7.9	15
63	Efficient reduction of Toluidine Blue O dye using silver nanoparticles synthesized by low molecular weight chitosans. *International Journal of Biological Macromolecules*, **2019**, 131, 682-690	7.9	15
62	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. *International Journal of Biological Macromolecules*, **2019**, 139, 558-569	7.9	13
61	Synthesis, physicochemical characterization and biological evaluation of chitosan sulfate as heparan sulfate mimics. *Carbohydrate Polymers*, **2018**, 191, 225-233	10.3	25
60	Efficient conversion of chitosan into chitooligosaccharides by a chitosanolytic activity from Bacillus thuringiensis. *Process Biochemistry*, **2018**, 73, 102-108	4.8	15
59	Cosmetics and Cosmeceutical Applications of Chitin, Chitosan and Their Derivatives. *Polymers*, **2018**, 10,	4.5	167
58	Influence of Preparation Methods of Chitooligosaccharides on Their Physicochemical Properties and Their Anti-Inflammatory Effects in Mice and in RAW264.7 Macrophages. *Marine Drugs*, **2018**, 16,	6	18
57	On the Ability of Low Molecular Weight Chitosan Enzymatically Depolymerized to Produce and Stabilize Silver Nanoparticles. *Biomimetics*, **2018**, 3,	3.7	6
56	Oil Quality Control of Culinary Oils Subjected to Deep-Fat Frying Based on NMR and EPR Spectroscopy. *Food Analytical Methods*, **2017**, 10, 2467-2480	3.4	15
55	Use of soluble chitosans in Maillard reaction products with β-lactoglobulin. Emulsifying and antioxidant properties. *LWT - Food Science and Technology*, **2017**, 75, 440-446	5.4	27
54	Chitosan Spray-Dried Microparticles for Controlled Delivery of Venlafaxine Hydrochloride. *Molecules*, **2017**, 22,	4.8	22
53	InFiQuS: Making the Best of Leftovers **2016**, 341-370		
52	Films of chitosan and chitosan-oligosaccharide neutralized and thermally treated: Effects on its antibacterial and other activities. *LWT - Food Science and Technology*, **2016**, 73, 368-374	5.4	32

51	Effect of chito-oligosaccharides over human faecal microbiota during fermentation in batch cultures. *Carbohydrate Polymers*, **2016**, 137, 617-624	10.3	37
50	Physical Stability Studies of Semi-Solid Formulations from Natural Compounds Loaded with Chitosan Microspheres. *Marine Drugs*, **2015**, 13, 5901-19	6	27
49	Fluorescent imino and secondary amino chitosans as potential sensing biomaterials. *Carbohydrate Polymers*, **2015**, 123, 288-96	10.3	13
48	Poly-(styrene sulphonic acid): An acid catalyst from polystyrene waste for reactions of interest in biomass valorization. *Catalysis Today*, **2014**, 234, 285-294	5.3	41
47	Role of Physicochemical Properties of Chitin and Chitosan on their Functionality. *Current Chemical Biology*, **2014**, 8, 27-42	0.4	21
46	Magnetic chitosan beads for covalent immobilization of nucleoside 2-deoxyribosyltransferase: application in nucleoside analogues synthesis. *Journal of Industrial Microbiology and Biotechnology*, **2013**, 40, 955-66	4.2	28
45	Self-assembled nanoparticles of modified-chitosan conjugates for the sustained release of DL-α-tocopherol. *Carbohydrate Polymers*, **2013**, 92, 856-64	10.3	20
44	N,O6-partially acetylated chitosan nanoparticles hydrophobically-modified for controlled release of steroids and vitamin E. *Carbohydrate Polymers*, **2013**, 91, 143-51	10.3	19
43	Influence of the physico-chemical characteristics of chito-oligosaccharides (COS) on antioxidant activity. *Carbohydrate Polymers*, **2013**, 97, 776-82	10.3	45
42	Nano and microparticulate chitosan-based systems for antiviral topical delivery. *European Journal of Pharmaceutical Sciences*, **2013**, 48, 216-22	5.1	53
41	Chitosan and inhalers: a bioadhesive polymer for pulmonary drug delivery **2013**, 77-93		1
40	Novel Self-Assembled Nanoparticles of Testosterone-Modified Glycol Chitosan and Fructose Chitosan for Controlled Release. *Journal of Biomaterials and Tissue Engineering*, **2013**, 3, 164-172	0.3	3
39	Self-assembled nanoparticles of glycol chitosan □Ergocalciferol succinate conjugate, for controlled release. *Carbohydrate Polymers*, **2012**, 88, 1373-1377	10.3	26
38	Antibacterial activity of products of depolymerization of chitosans with lysozyme and chitosanase against Campylobacter jejuni. *Carbohydrate Polymers*, **2011**, 84, 844-848	10.3	34
37	pH- and Temperature-Sensitive Chitosan Hydrogels: Swelling and MRI Studies. *Macromolecular Chemistry and Physics*, **2011**, 212, 887-895	2.6	21
36	Suitability of a colorimetric method for the selective determination of chitosan in dietary supplements. *Food Chemistry*, **2011**, 126, 1836-9	8.5	10
35	Poly(styrenesulphonic) acid: an active and reusable acid catalyst soluble in polar solvents. *Green Chemistry*, **2011**, 13, 3203	10	30
34	Chitosan nanoparticles and microspheres for the encapsulation of natural antioxidants extracted from Ilex paraguariensis. *Carbohydrate Polymers*, **2011**, 84, 803-806	10.3	104

33	Chitosan-genipin microspheres for the controlled release of drugs: clarithromycin, tramadol and heparin. *Marine Drugs*, **2010**, 8, 1750-62	6	56
32	Chitosan Amphiphilic Derivatives. Chemistry and Applications. *Current Organic Chemistry*, **2010**, 14, 308-330	1.7	202
31	Tight junction modulation by chitosan nanoparticles: comparison with chitosan solution. *International Journal of Pharmaceutics*, **2010**, 400, 183-93	6.5	173
30	Functional Characterization of Chitin and Chitosan. *Current Chemical Biology*, **2009**, 3, 203-230	0.4	147
29	Encapsulation of an Agrobacterium radiobacter extract containing d-hydantoinase and d-carbamoylase activities into alginate–chitosan polyelectrolyte complexes. *Journal of Molecular Catalysis B: Enzymatic*, **2009**, 58, 54-64		21
28	Functional Characterization of Chitin and Chitosan. *Current Chemical Biology*, **2009**, 3, 203-230	0.4	564
27	New drug delivery systems based on chitosan. *Current Drug Discovery Technologies*, **2008**, 5, 333-41	1.5	103
26	Influence of N-Deacetylation Conditions on Chitosan Production from Chitin. *Natural Product Communications*, **2008**, 3, 1934578X0800300	0.9	7
25	The occurrence of a Maillard-type protein-polysaccharide reaction between lactoglobulin and chitosan. *Food Chemistry*, **2007**, 100, 1071-1075	8.5	58
24	Temperature and pH-sensitive chitosan hydrogels: DSC, rheological and swelling evidence of a volume phase transition. *Polymer Bulletin*, **2007**, 58, 225-234	2.4	35
23	Synthesis of p-hydroxyphenylglicine by cell extract from Agrobaterium radiobacter encapsulated in alginate capsules. *Enzyme and Microbial Technology*, **2006**, 39, 215-221	3.8	9
22	-Deacetylation and depolymerization reactions of chitin/chitosan: Influence of the source of chitin. *Carbohydrate Polymers*, **2005**, 62, 316-320	10.3	71
21	Application of MRI to monitor the process of ripening and decay in citrus treated with chitosan solutions. *Magnetic Resonance Imaging*, **2004**, 22, 127-37	3.3	40
20	Tramadol Release from a Delivery System Based on Alginate-Chitosan Microcapsules. *Macromolecular Bioscience*, **2003**, 3, 546-551	5.5	31
19	Effect of Chemical Crosslinking on the Swelling and Shrinking Properties of Thermal and pH-Responsive Chitosan Hydrogels. *Macromolecular Bioscience*, **2003**, 3, 612-619	5.5	53
18	Modified chitosan carrying phosphonic and alkyl groups. *Carbohydrate Polymers*, **2003**, 51, 425-429	10.3	88
17	N-methylene phosphonic chitosan. Effect of preparation methods on its properties. *Carbohydrate Polymers*, **2003**, 52, 39-46	10.3	77
16	Co-immobilization of d-hydantoinase and d-carboamylase on Chitin: Application to the Synthesis of p-hydroxyphenylglycine. *Biocatalysis and Biotransformation*, **2003**, 21, 349-356	2.5	19

15	N-methylene phosphonic chitosan: a novel soluble derivative. *Carbohydrate Polymers*, **2001**, 44, 1-8	10.3	154
14	Coimmobilization of enzymes and cells on chitosan and dervatives. *Progress in Biotechnology*, **1998**, 15, 679-684		2
13	□Chymotrypsin Immobilized on Chitin. Relationships Between the Enzyme Kinetic Constant and Support Structure. *Biocatalysis*, **1994**, 11, 305-313		6
12	Effect of lyophilization and subsequent rehydration of immobilized □chymotrypsin derivatives. *Journal of Molecular Catalysis*, **1994**, 89, 397-405		4
11	Influence of the modification procedure of support materials on the microenvironment of immobilized □chymotrypsin. *Journal of Molecular Catalysis*, **1993**, 80, 127-136		6
10	Extraction and characterization of chitin from crustaceans. *Biomass and Bioenergy*, **1993**, 5, 145-153	5.3	73
9	Influence of organic-aqueous media in the DNSAE activity of micrococcal endonuclease. *Journal of Molecular Catalysis*, **1989**, 52, 323-336		7
8	Competitive homogeneous chemical reactions occurring between two electron transfers. *Journal of Electroanalytical Chemistry and Interfacial Electrochemistry*, **1988**, 243, 293-307		10
7	Determination of the rate constants for a CECE reduction mechanism. *Electrochimica Acta*, **1987**, 32, 1495-1497	6.7	7
6	Diffusion intensity in normal pulse polarography. *Journal of Electroanalytical Chemistry and Interfacial Electrochemistry*, **1985**, 182, 169-172		2
5	Normal pulse polarography: analytical expressions for the kinetic current and ireversible electrode reactions. *Journal of Electroanalytical Chemistry and Interfacial Electrochemistry*, **1985**, 182, 173-178		4
4	An electrochemical study of the dimerization of mesityl oxide. *Journal of Electroanalytical Chemistry and Interfacial Electrochemistry*, **1985**, 195, 321-334		14
3	A contribution to the study of the electrochemical reduction of o-nitrophenol on a mercury electrode. *Journal of Electroanalytical Chemistry and Interfacial Electrochemistry*, **1984**, 170, 353-356		4
2	Use of i□ polarographic curves for the calculation of the rate constant of the intermediate chemical reaction of an ECE mechanism. *Journal of Electroanalytical Chemistry and Interfacial Electrochemistry*, **1984**, 172, 167-172		9
1	A contribution to the study of the electrochemical oxidation of p-aminophenol on a mercury electrode. *Electrochimica Acta*, **1984**, 29, 541-545	6.7	21