

Ãngeles Heras Caballero

List of Publications by Year in descending order

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68
papers

4,172
citations

136740

32
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110170

64
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all docs

70
docs citations

70
times ranked

5214
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional Characterization of Chitin and Chitosan. <i>Current Chemical Biology</i> , 2009, 3, 203-230.	0.2	679
2	Chitosan: An Overview of Its Properties and Applications. <i>Polymers</i> , 2021, 13, 3256.	2.0	373
3	Cosmetics and Cosmeceutical Applications of Chitin, Chitosan and Their Derivatives. <i>Polymers</i> , 2018, 10, 213.	2.0	255
4	Chitosan Amphiphilic Derivatives. Chemistry and Applications. <i>Current Organic Chemistry</i> , 2010, 14, 308-330.	0.9	245
5	Functional Characterization of Chitin and Chitosan. <i>Current Chemical Biology</i> , 2009, 3, 203-230.	0.2	207
6	Tight junction modulation by chitosan nanoparticles: Comparison with chitosan solution. <i>International Journal of Pharmaceutics</i> , 2010, 400, 183-193.	2.6	197
7	N-methylene phosphonic chitosan: a novel soluble derivative. <i>Carbohydrate Polymers</i> , 2001, 44, 1-8.	5.1	168
8	New Drug Delivery Systems Based on Chitosan. <i>Current Drug Discovery Technologies</i> , 2008, 5, 333-341.	0.6	126
9	Chitosan nanoparticles and microspheres for the encapsulation of natural antioxidants extracted from <i>Ilex paraguariensis</i> . <i>Carbohydrate Polymers</i> , 2011, 84, 803-806.	5.1	122
10	Modified chitosan carrying phosphonic and alkyl groups. <i>Carbohydrate Polymers</i> , 2003, 51, 425-429.	5.1	100
11	Extraction and characterization of chitin from crustaceans. <i>Biomass and Bioenergy</i> , 1993, 5, 145-153.	2.9	91
12	N-methylene phosphonic chitosan. Effect of preparation methods on its properties. <i>Carbohydrate Polymers</i> , 2003, 52, 39-46.	5.1	88
13	-Deacetylation and depolymerization reactions of chitin/chitosan: Influence of the source of chitin. <i>Carbohydrate Polymers</i> , 2005, 62, 316-320.	5.1	88
14	The occurrence of a Maillard-type protein-polysaccharide reaction between β -lactoglobulin and chitosan. <i>Food Chemistry</i> , 2007, 100, 1071-1075.	4.2	67
15	Nano and microparticulate chitosan-based systems for antiviral topical delivery. <i>European Journal of Pharmaceutical Sciences</i> , 2013, 48, 216-222.	1.9	64
16	Influence of the physico-chemical characteristics of chito-oligosaccharides (COS) on antioxidant activity. <i>Carbohydrate Polymers</i> , 2013, 97, 776-782.	5.1	62
17	Chitosan-Genipin Microspheres for the Controlled Release of Drugs: Clarithromycin, Tramadol and Heparin. <i>Marine Drugs</i> , 2010, 8, 1750-1762.	2.2	60
18	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.	2.1	59

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19	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.	5.1	58
20	Effect of chito-oligosaccharides over human faecal microbiota during fermentation in batch cultures. <i>Carbohydrate Polymers</i> , 2016, 137, 617-624.	5.1	54
21	Application of MRI to monitor the process of ripening and decay in citrus treated with chitosan solutions. <i>Magnetic Resonance Imaging</i> , 2004, 22, 127-137.	1.0	51
22	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.	2.5	51
23	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.	2.2	49
24	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.	2.5	45
25	Chitosan Spray-Dried Microparticles for Controlled Delivery of Venlafaxine Hydrochloride. <i>Molecules</i> , 2017, 22, 1980.	1.7	43
26	Temperature and pH-sensitive chitosan hydrogels: DSC, rheological and swelling evidence of a volume phase transition. <i>Polymer Bulletin</i> , 2007, 58, 225-234.	1.7	41
27	Physical Stability Studies of Semi-Solid Formulations from Natural Compounds Loaded with Chitosan Microspheres. <i>Marine Drugs</i> , 2015, 13, 5901-5919.	2.2	41
28	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.	5.1	38
29	Tramadol Release from a Delivery System Based on Alginate-Chitosan Microcapsules. <i>Macromolecular Bioscience</i> , 2003, 3, 546-551.	2.1	36
30	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.	3.6	36
31	Poly(styrenesulphonic) acid: an active and reusable acid catalyst soluble in polar solvents. <i>Green Chemistry</i> , 2011, 13, 3203.	4.6	35
32	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, 955-966.	1.4	32
33	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.	3.6	30
34	Self-assembled nanoparticles of glycol chitosan α -Ergocalciferol succinate conjugate, for controlled release. <i>Carbohydrate Polymers</i> , 2012, 88, 1373-1377.	5.1	28
35	Role of Physicochemical Properties of Chitin and Chitosan on their Functionality. <i>Current Chemical Biology</i> , 2014, 8, 27-42.	0.2	28
36	pH and Temperature Sensitive Chitosan Hydrogels: Swelling and MRI Studies. <i>Macromolecular Chemistry and Physics</i> , 2011, 212, 887-895.	1.1	26

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37	Synthesis, physicochemical characterization and biological evaluation of chitosan sulfate as heparan sulfate mimics. <i>Carbohydrate Polymers</i> , 2018, 191, 225-233.	5.1	26
38	Influence of Preparation Methods of Chitoooligosaccharides on Their Physicochemical Properties and Their Anti-Inflammatory Effects in Mice and in RAW264.7 Macrophages. <i>Marine Drugs</i> , 2018, 16, 430.	2.2	25
39	Encapsulation of an <i>Agrobacterium radiobacter</i> 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.	1.8	24
40	Enzymatic production of low-Mw chitosan-derivatives: Characterization and biological activities evaluation. <i>International Journal of Biological Macromolecules</i> , 2020, 144, 279-288.	3.6	24
41	A contribution to the study of the electrochemical oxidation of p-aminophenol on a mercury electrode. <i>Electrochimica Acta</i> , 1984, 29, 541-545.	2.6	23
42	Self-assembled nanoparticles of modified-chitosan conjugates for the sustained release of dl- α -tocopherol. <i>Carbohydrate Polymers</i> , 2013, 92, 856-864.	5.1	23
43	Co-immobilization of d-hydantoinase and d-carbamoylase on Chitin: Application to the Synthesis of p-hydroxyphenylglycine. <i>Biocatalysis and Biotransformation</i> , 2003, 21, 349-356.	1.1	22
44	N,O6-partially acetylated chitosan nanoparticles hydrophobically-modified for controlled release of steroids and vitamin E. <i>Carbohydrate Polymers</i> , 2013, 91, 143-151.	5.1	22
45	Efficient conversion of chitosan into chitoooligosaccharides by a chitosanolytic activity from <i>Bacillus thuringiensis</i> . <i>Process Biochemistry</i> , 2018, 73, 102-108.	1.8	22
46	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.	3.6	17
47	An electrochemical study of the dimerization of mesityl oxide. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1985, 195, 321-334.	0.3	16
48	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.	1.3	16
49	Fluorescent imino and secondary amino chitosans as potential sensing biomaterials. <i>Carbohydrate Polymers</i> , 2015, 123, 288-296.	5.1	15
50	Competitive homogeneous chemical reactions occurring between two electron transfers. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1988, 243, 293-307.	0.3	12
51	Use of α -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.	0.3	11
52	Synthesis of p-hydroxyphenylglycine by cell extract from <i>Agrobacterium radiobacter</i> encapsulated in alginate capsules. <i>Enzyme and Microbial Technology</i> , 2006, 39, 215-221.	1.6	10
53	Influence of N-Deacetylation Conditions on Chitosan Production from β -Chitin. <i>Natural Product Communications</i> , 2008, 3, 1934578X0800300.	0.2	10
54	Suitability of a colorimetric method for the selective determination of chitosan in dietary supplements. <i>Food Chemistry</i> , 2011, 126, 1836-1839.	4.2	10

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55	On the Ability of Low Molecular Weight Chitosan Enzymatically Depolymerized to Produce and Stabilize Silver Nanoparticles. <i>Biomimetics</i> , 2018, 3, 21.	1.5	9
56	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.	0.3	8
57	Determination of the rate constants for a CECE reduction mechanism. <i>Electrochimica Acta</i> , 1987, 32, 1495-1497.	2.6	8
58	Influence of organic-aqueous media in the DNSAE activity of micrococcal endonuclease. <i>Journal of Molecular Catalysis</i> , 1989, 52, 323-336.	1.2	7
59	Î±-Chymotrypsin Immobilized on Chitin. Relationships Between the Enzyme Kinetic Constant and Support Structure. <i>Biocatalysis</i> , 1994, 11, 305-313.	0.9	7
60	Influence of the modification procedure of support materials on the microenvironment of immobilized Î±-chymotrypsin. <i>Journal of Molecular Catalysis</i> , 1993, 80, 127-136.	1.2	6
61	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.	0.3	5
62	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.	4.0	5
63	Effect of lyophilization and subsequent rehydration of immobilized Î±-chymotrypsin derivatives. <i>Journal of Molecular Catalysis</i> , 1994, 89, 397-405.	1.2	4
64	Diffusion intensity in normal pulse polarography. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1985, 182, 169-172.	0.3	3
65	Coimmobilization of enzymes and cells on chitosan and derivatives. <i>Progress in Biotechnology</i> , 1998, 15, 679-684.	0.2	3
66	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.	0.0	3
67	Physicochemical and biological properties of chitosan derivatives with varying molecular weight produced by chemical depolymerization. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 4111-4121.	2.9	2
68	Chitosan and inhalers: a bioadhesive polymer for pulmonary drug delivery. , 2013, , 77-93.		1