Niuris Acosta

List of Publications by Citations

37 papers	1,961 citations	21 h-index	41 g-index
41 ext. papers	2,295 ext. citations	4.9 avg, IF	4.67 L-index

#	Paper	IF	Citations
37	Functional Characterization of Chitin and Chitosan. *Current Chemical Biology*, **2009**, 3, 203-230	0.4	564
36	Chitosan: An Attractive Biocompatible Polymer for Microencapsulation. *Macromolecular Bioscience*, **2003**, 3, 511-520	5.5	199
35	Cosmetics and Cosmeceutical Applications of Chitin, Chitosan and Their Derivatives. *Polymers*, **2018** , 10,	4.5	167
34	Functional Characterization of Chitin and Chitosan. *Current Chemical Biology*, **2009**, 3, 203-230	0.4	147
33	New drug delivery systems based on chitosan. *Current Drug Discovery Technologies*, **2008**, 5, 333-41	1.5	103
32	Extraction and characterization of chitin from crustaceans. *Biomass and Bioenergy*, **1993**, 5, 145-153	5.3	73
31	The effect of preparation processes on the physicochemical characteristics and antibacterial activity of chitooligosaccharides. *Carbohydrate Polymers*, **2017**, 157, 251-257	10.3	68
30	Preparation and characterization of superparamagnetic chitosan microspheres: Application as a support for the immobilization of tyrosinase. *Journal of Applied Polymer Science*, **2005**, 98, 651-657	2.9	56
29	Chitosan: An Overview of Its Properties and Applications. *Polymers*, **2021**, 13,	4.5	55
28	Molecularly imprinted chitosan-genipin hydrogels with recognition capacity toward o-xylene. *Biomacromolecules*, **2007**, 8, 3355-64	6.9	54
27	Structural model for family 32 of glycosyl-hydrolase enzymes. *Proteins: Structure, Function and Bioinformatics*, **1998**, 33, 383-95	4.2	51
26	Enzymatic production of fully deacetylated chitooligosaccharides and their neuroprotective and anti-inflammatory properties. *Biocatalysis and Biotransformation*, **2018**, 36, 57-67	2.5	36
25	Chitosan based films as supports for dual antimicrobial release. *Carbohydrate Polymers*, **2016**, 146, 402-11	10.3	36
24	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
23	Tramadol Release from a Delivery System Based on Alginate-Chitosan Microcapsules. *Macromolecular Bioscience*, **2003**, 3, 546-551	5.5	31
22	Physical Stability Studies of Semi-Solid Formulations from Natural Compounds Loaded with Chitosan Microspheres. *Marine Drugs*, **2015**, 13, 5901-19	6	27
21	Synthesis, physicochemical characterization and biological evaluation of chitosan sulfate as heparan sulfate mimics. *Carbohydrate Polymers*, **2018**, 191, 225-233	10.3	25

20	Dextran Aldehyde in Biocatalysis: More Than a Mere Immobilization System. *Catalysts*, **2019**, 9, 622	4	22
19	Chitosan Spray-Dried Microparticles for Controlled Delivery of Venlafaxine Hydrochloride. *Molecules*, **2017**, 22,	4.8	22
18	Role of Physicochemical Properties of Chitin and Chitosan on their Functionality. *Current Chemical Biology*, **2014**, 8, 27-42	0.4	21
17	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
16	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
15	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
14	Synthesis and characterization of novel pH-sensitive chitosan-poly(acrylamide-co-itaconic acid) hydrogels. *Polymer International*, **2014**, 63, 1715-1723	3.3	15
13	Enzymatic production of low-Mw chitosan-derivatives: Characterization and biological activities evaluation. *International Journal of Biological Macromolecules*, **2020**, 144, 279-288	7.9	15
12	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
11	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
10	Characterization of Mucor pusillus rennin expressed in Pichia pastoris: enzymic, spectroscopic and calorimetric studies. *Biotechnology and Applied Biochemistry*, **2000**, 31, 77-84	2.8	10
9	Characterization of recombinant invertase expressed in methylotrophic yeasts. *Biotechnology and Applied Biochemistry*, **2000**, 32, 179-87	2.8	10
8	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
7	Optimization of d-amino acid production catalyzed by immobilized multi-enzyme system in polyelectrolyte complex gel capsules. *Journal of Molecular Catalysis B: Enzymatic*, **2015**, 121, 45-52		8
6	Enzymatic d-p-hydrophenyl glycine synthesis using chitin and chitosan as supports for biocatalyst immobilization. *Biocatalysis and Biotransformation*, **2018**, 36, 89-101	2.5	6
5	□Chymotrypsin Immobilized on Chitin. Relationships Between the Enzyme Kinetic Constant and Support Structure. *Biocatalysis*, **1994**, 11, 305-313		6
4	On the Ability of Low Molecular Weight Chitosan Enzymatically Depolymerized to Produce and Stabilize Silver Nanoparticles. *Biomimetics*, **2018**, 3,	3.7	6
3	Enzymic, spectroscopic and calorimetric studies of a recombinant dextranase expressed in Pichia pastoris. *Biotechnology and Applied Biochemistry*, **2003**, 38, 211-21	2.8	5

2	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
1	InFiQuS: Making the Best of Leftovers **2016**, 341-370		