

# Inmaculada Aranzaz

## List of Publications by Citations

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44  
papers

1,872  
citations

21  
h-index

43  
g-index

50  
ext. papers

2,173  
ext. citations

4.8  
avg, IF

4.7  
L-index

#	Paper	IF	Citations
44	Functional Characterization of Chitin and Chitosan. <i>Current Chemical Biology</i> , <b>2009</b> , 3, 203-230	0.4	564
43	Chitosan Amphiphilic Derivatives. Chemistry and Applications. <i>Current Organic Chemistry</i> , <b>2010</b> , 14, 308-330		202
42	Cosmetics and Cosmeceutical Applications of Chitin, Chitosan and Their Derivatives. <i>Polymers</i> , <b>2018</b> , 10,	4.5	167
41	Functional Characterization of Chitin and Chitosan. <i>Current Chemical Biology</i> , <b>2009</b> , 3, 203-230	0.4	147
40	Chitosan gelation induced by the in situ formation of gold nanoparticles and its processing into macroporous scaffolds. <i>Biomacromolecules</i> , <b>2011</b> , 12, 179-86	6.9	56
39	Chitosan: An Overview of Its Properties and Applications. <i>Polymers</i> , <b>2021</b> , 13,	4.5	55
38	Effect of Chemical Crosslinking on the Swelling and Shrinking Properties of Thermal and pH-Responsive Chitosan Hydrogels. <i>Macromolecular Bioscience</i> , <b>2003</b> , 3, 612-619	5.5	53
37	Short-Chain Chitin Oligomers: Promoters of Plant Growth. <i>Marine Drugs</i> , <b>2017</b> , 15,	6	50
36	Improvement of porous beta-TCP scaffolds with rhBMP-2 chitosan carrier film for bone tissue application. <i>Tissue Engineering - Part A</i> , <b>2008</b> , 14, 1305-19	3.9	47
35	Preparation of chitosan nanocomposites with a macroporous structure by unidirectional freezing and subsequent freeze-drying. <i>Marine Drugs</i> , <b>2014</b> , 12, 5619-42	6	45
34	Chitosan based films as supports for dual antimicrobial release. <i>Carbohydrate Polymers</i> , <b>2016</b> , 146, 402-10.3		36
33	Urea assisted hydroxyapatite mineralization on MWCNT/CHI scaffolds. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 5933		34
32	Controlled size green synthesis of bioactive silver nanoparticles assisted by chitosan and its derivatives and their application in biofilm preparation. <i>Carbohydrate Polymers</i> , <b>2020</b> , 236, 116063	10.3	31
31	Tramadol Release from a Delivery System Based on Alginate-Chitosan Microcapsules. <i>Macromolecular Bioscience</i> , <b>2003</b> , 3, 546-551	5.5	31
30	Pseudo-double network hydrogels with unique properties as supports for cell manipulation. <i>Journal of Materials Chemistry B</i> , <b>2014</b> , 2, 3839-3848	7.3	26
29	Synthesis, physicochemical characterization and biological evaluation of chitosan sulfate as heparan sulfate mimics. <i>Carbohydrate Polymers</i> , <b>2018</b> , 191, 225-233	10.3	25
28	Dextran Aldehyde in Biocatalysis: More Than a Mere Immobilization System. <i>Catalysts</i> , <b>2019</b> , 9, 622	4	22

27	Chitosan Spray-Dried Microparticles for Controlled Delivery of Venlafaxine Hydrochloride. <i>Molecules</i> , <b>2017</b> , 22,	4.8	22
26	Role of Physicochemical Properties of Chitin and Chitosan on their Functionality. <i>Current Chemical Biology</i> , <b>2014</b> , 8, 27-42	0.4	21
25	pH- and Temperature-Sensitive Chitosan Hydrogels: Swelling and MRI Studies. <i>Macromolecular Chemistry and Physics</i> , <b>2011</b> , 212, 887-895	2.6	21
24	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> , <b>2009</b> , 58, 54-64		21
23	Co-immobilization of d-hydantoinase and d-carboamylase on Chitin: Application to the Synthesis of p-hydroxyphenylglycine. <i>Biocatalysis and Biotransformation</i> , <b>2003</b> , 21, 349-356	2.5	19
22	Efficient reduction of Toluidine Blue O dye using silver nanoparticles synthesized by low molecular weight chitosans. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 131, 682-690	7.9	15
21	Surface hierarchical porosity in poly (ε-caprolactone) membranes with potential applications in tissue engineering prepared by foaming in supercritical carbon dioxide. <i>Journal of Supercritical Fluids</i> , <b>2014</b> , 95, 273-284	4.2	15
20	Enzymatic production of low-Mw chitosan-derivatives: Characterization and biological activities evaluation. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 144, 279-288	7.9	15
19	Controlled formation of the anhydrous polymorph of ciprofloxacin crystals embedded within chitosan scaffolds: study of the kinetic release dependence on crystal size. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 1576		14
18	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> , <b>2019</b> , 139, 558-569	7.9	13
17	Singular thermosensitivity of polymethyl methacrylate/poly-N-isopropylacrylamide conetworks prepared by a facile synthetic route. <i>Polymer Chemistry</i> , <b>2011</b> , 2, 709-713	4.9	13
16	Chitosan derivatives-based films as pH-sensitive drug delivery systems with enhanced antioxidant and antibacterial properties. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 182, 730-742	7.9	12
15	Synthesis of p-hydroxyphenylglycine by cell extract from Agrobacterium radiobacter encapsulated in alginate capsules. <i>Enzyme and Microbial Technology</i> , <b>2006</b> , 39, 215-221	3.8	9
14	Optimization of d-amino acid production catalyzed by immobilized multi-enzyme system in polyelectrolyte complex gel capsules. <i>Journal of Molecular Catalysis B: Enzymatic</i> , <b>2015</b> , 121, 45-52		8
13	Ionic Conductivity, Diffusion Coefficients, and Degree of Dissociation in Lithium Electrolytes, Ionic Liquids, and Hydrogel Polyelectrolytes. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 8301-8308	3.4	8
12	Macroporous Calcium Phosphate/Chitosan Composites Prepared via Unidirectional Ice Segregation and Subsequent Freeze-Drying. <i>Materials</i> , <b>2017</b> , 10,	3.5	8
11	Cell Adhesion and Proliferation on Sulfonated and Non-Modified Chitosan Films. <i>AAPS PharmSciTech</i> , <b>2017</b> , 18, 974-982	3.9	7
10	Green Synthesis of Hierarchically Structured Silver-Polymer Nanocomposites with Antibacterial Activity. <i>Nanomaterials</i> , <b>2016</b> , 6,	5.4	7

9	Enzymatic d-p-hydrophenyl glycine synthesis using chitin and chitosan as supports for biocatalyst immobilization. <i>Biocatalysis and Biotransformation</i> , <b>2018</b> , 36, 89-101	2.5	6
8	Compositionally-tunable surface nanostructuring of microspheres obtained from a self-stabilizing copolymerization of methylmethacrylate and vinylpyrrolidone. <i>Polymer</i> , <b>2011</b> , 52, 2991-2997	3.9	6
7	On the Ability of Low Molecular Weight Chitosan Enzymatically Depolymerized to Produce and Stabilize Silver Nanoparticles. <i>Biomimetics</i> , <b>2018</b> , 3,	3.7	6
6	Unraveling the Structural Landscape of Chitosan-Based Heparan Sulfate Mimics Binding to Growth Factors: Deciphering Structural Determinants for Optimal Activity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 25534-25545	9.5	4
5	Self-Structuring in Amphiphilic Networks Prepared by Single Conventional Radical Copolymerization of n-Butyl Methacrylate and Vinylpyrrolidone. <i>Macromolecules</i> , <b>2013</b> , 46, 5018-5025	5.5	4
4	Polymeric and Non-Polymeric Platforms for Cell Sheet Detachment <b>2016</b> , 463-495		3
3	Reply to "Comment on Ubonic Conductivity, Diffusion Coefficients and Degree of Dissociation in Lithium Electrolytes, Ionic Liquids and Hydrogel Polyelectrolytes". <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 10968-10969	3.4	1
2	InFiQuS: Making the Best of Leftovers <b>2016</b> , 341-370		
1	Chemical guiding of magnetic nanoparticles in dispersed media containing poly-(methylmethacrylate-co-vinylpyrrolidone). <i>Langmuir</i> , <b>2012</b> , 28, 5555-61		4