Waldo Argelles-Monal

List of Publications by Citations

57 papers	3,333 citations	30 h-index	57 g-index
62 ext. papers	3,612 ext. citations	5 avg, IF	4.8 L-index

#	Paper	IF	Citations
57	An infrared investigation in relation with chitin and chitosan characterization. *Polymer*, **2001**, 42, 3569-3580	3.9	950
56	Self-curing membranes of chitosan/PAA IPNs obtained by radical polymerization: preparation, characterization and interpolymer complexation. *Biomaterials*, **1999**, 20, 1869-78	15.6	242
55	Chitosan: An Attractive Biocompatible Polymer for Microencapsulation. *Macromolecular Bioscience*, **2003**, 3, 511-520	5.5	199
54	A kinetic study of the thermal degradation of chitosan and a mercaptan derivative of chitosan. *Polymer Degradation and Stability*, **1993**, 39, 21-28	4.7	132
53	The adsorption of mercuric ions by chitosan. *Journal of Applied Polymer Science*, **1992**, 46, 1147-1150	2.9	129
52	Microencapsulation of astaxanthin in a chitosan matrix. *Carbohydrate Polymers*, **2004**, 56, 41-45	10.3	122
51	Swelling behavior of chitosan/pectin polyelectrolyte complex membranes. Effect of thermal cross-linking. *Polymer Bulletin*, **2005**, 55, 367-375	2.4	90
50	Rheological study of the chitosan/glutaraldehyde chemical gel system. *Polymer Gels and Networks*, **1998**, 6, 429-440		77
49	Thermoresponsive behavior of chitosan-g-N-isopropylacrylamide copolymer solutions. *Biomacromolecules*, **2009**, 10, 1633-41	6.9	66
48	Chitin and Chitosan: Major Sources, Properties and Applications **2008**, 517-542		62
47	Conductimetric study of the interpolyelectrolyte reaction between chitosan and polygalacturonic acid. *Polymer*, **2000**, 41, 2373-2378	3.9	61
46	Chitosan Derivatives: Introducing New Functionalities with a Controlled Molecular Architecture for Innovative Materials. *Polymers*, **2018**, 10,	4.5	60
45	Formation and stability of shark liver oil loaded chitosan/calcium alginate capsules. *Food Hydrocolloids*, **2004**, 18, 865-871	10.6	58
44	Study of the interpolyelectrolyte reaction between chitosan and alginate: influence of alginate composition and chitosan molecular weight. *International Journal of Biological Macromolecules*, **2004**, 34, 127-33	7.9	56
43	Study of the interpolyelectrolyte reaction between chitosan and carboxymethyl cellulose. *Die Makromolekulare Chemie Rapid Communications*, **1988**, 9, 693-697		55
42	N-(furfural) chitosan hydrogels based on Diels-Alder cycloadditions and application as microspheres for controlled drug release. *Carbohydrate Polymers*, **2015**, 128, 220-7	10.3	54
41	Molecularly imprinted chitosan-genipin hydrogels with recognition capacity toward o-xylene. *Biomacromolecules*, **2007**, 8, 3355-64	6.9	54

40	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
39	Chitosan based polyelectrolyte complexes. *Macromolecular Symposia*, **2001**, 168, 103-116	0.8	46
38	Preparation of chitosan nanoparticles by nanoprecipitation and their ability as a drug nanocarrier. *RSC Advances*, **2016**, 6, 59250-59256	3.7	45
37	SUPERCRITICAL CO2/ETHANOL EXTRACTION OF ASTAXANTHIN FROM BLUE CRAB (CALLINECTES SAPIDUS) SHELL WASTE. *Journal of Food Process Engineering*, **2001**, 24, 101-112	2.4	40
36	Determination of chitin and protein contents during the isolation of chitin from shrimp waste. *Macromolecular Bioscience*, **2006**, 6, 340-7	5.5	39
35	Enhanced Antifungal Effect of Chitosan/Pepper Tree (Schinus molle) Essential Oil Bionanocomposites on the Viability of Aspergillus parasiticus Spores. *Journal of Nanomaterials*, **2016**, 2016, 1-10	3.2	38
34	A modified Boltzmann sigmoidal model for the phase transition of smart gels. *Soft Matter*, **2011**, 7, 5847	3.6	35
33	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
32	Study of the stoichiometric polyelectrolyte complex between chitosan and carboxymethyl cellulose. *Polymer Bulletin*, **1990**, 23, 307-313	2.4	35
31	Effect of the molecular architecture on the thermosensitive properties of chitosan-g-poly(N-vinylcaprolactam). *Carbohydrate Polymers*, **2015**, 134, 92-101	10.3	34
30	Linseed pectin: gelling properties and performance as an encapsulation matrix for shark liver oil. *Food Hydrocolloids*, **2004**, 18, 293-304	10.6	34
29	Characterization and Antiproliferative Activity of Nobiletin-Loaded Chitosan Nanoparticles. *Journal of Nanomaterials*, **2012**, 2012, 1-7	3.2	32
28	Diffusion Through Membranes of the Polyelectrolyte Complex of Chitosan and Alginate. *Macromolecular Bioscience*, **2003**, 3, 535-539	5.5	30
27	Kinetics of gelation and thermal sensitivity of N-isobutyryl chitosan hydrogels. *Biomacromolecules*, **2005**, 6, 2408-15	6.9	28
26	Physical properties and antibacterial activity of chitosan/acemannan mixed systems. *Carbohydrate Polymers*, **2015**, 115, 707-14	10.3	26
25	Chemical Characteristics and Functional Properties of Chitosan **2016**, 3-31		22
24	Sorption and desorption of water vapour by membranes of the polyelectrolyte complex of chitosan and carboxymethyl cellulose. *Polymer International*, **1995**, 38, 45-52	3.3	22
23	Thermodynamics of complex formation of polyacrylic acid with poly(N-vinyl-2-pyrrolidone) and chitosan. *Polymer Bulletin*, **1996**, 37, 127-134	2.4	22

22	Aerogels from Chitosan Solutions in Ionic Liquids. *Polymers*, **2017**, 9,	4.5	21
21	Swelling of membranes from the polyelectrolyte complex between chitosan and carboxymethyl cellulose. *Polymer Bulletin*, **1993**, 31, 471-478	2.4	20
20	Thermo- and pH-responsive polyelectrolyte complex membranes from chitosan-g-N-isopropylacrylamide and pectin. *Carbohydrate Polymers*, **2011**, 86, 1336-1343	10.3	19
19	Preparation and characterization of a mercaptan derivative of chitosan for the removal of mercury from brines. *Angewandte Makromolekulare Chemie*, **1993**, 207, 1-8		19
18	Supercritical CO2 dried chitosan nanoparticles: production and characterization. *RSC Advances*, **2017**, 7, 30879-30885	3.7	18
17	Chitin and chitosan. *Developments in Food Science*, **2000**, 41, 265-308		16
16	Interpenetrated Chitosan-Poly(Acrylic Acid-Co-Acrylamide) Hydrogels. Synthesis, Characterization and Sustained Protein Release Studies. *Materials Sciences and Applications*, **2011**, 02, 509-520	0.3	15
15	Furan□chitosan hydrogels based on click chemistry. *Iranian Polymer Journal (English Edition)*, **2015**, 24, 349-357	2.3	14
14	Development and characterization of nanocapsules comprising dodecyltrimethylammonium chloride and □carrageenan. *Colloids and Surfaces B: Biointerfaces*, **2011**, 86, 242-6	6	14
13	Temperature stimuli-responsive nanoparticles from chitosan-graft-poly(N-vinylcaprolactam) as a drug delivery system. *Journal of Applied Polymer Science*, **2019**, 136, 47831	2.9	13
12	Preparation of a novel polyampholyte from chitosan and citric acid. *Die Makromolekulare Chemie Rapid Communications*, **1993**, 14, 735-740		11
11	Production and characterization of supercritical CO dried chitosan nanoparticles as novel carrier device. *Carbohydrate Polymers*, **2018**, 198, 556-562	10.3	10
10	Gelation processes in the non-stoichiometric polylectrolyte□surfactant complex between □carrageenan and dodecyltrimethylammonium chloride in KCl. *Soft Matter*, **2011**, 7, 2103	3.6	10
9	Conformational study on the thermal transition of chitosan-g-poly(N-vinylcaprolactam) in aqueous solution. *Colloid and Polymer Science*, **2016**, 294, 555-563	2.4	9
8	Mesoscopic Modeling of the Encapsulation of Capsaicin by Lecithin/Chitosan Liposomal Nanoparticles. *Nanomaterials*, **2018**, 8,	5.4	9
7	Chitin and Chitosan in Gel Network Systems. *ACS Symposium Series*, **2002**, 102-121	0.4	7
6	Synthesis of chitosan biocomposites loaded with pyrrole-2-carboxylic acid and assessment of their antifungal activity against Aspergillus niger. *Applied Microbiology and Biotechnology*, **2019**, 103, 2985-3000	3.7	5
5	Chitosan-Based Thermosensitive Materials **2017**,		4

4	Acemannan Gels and Aerogels. *Polymers*, **2019**, 11,	4.5	2
3	Synthesis of regioselective chitosan copolymers with β-cyclodextrin and poly(N-isopropyl acrylamide). *Journal of Polymer Research*, **2020**, 27, 1	2.7	2
2	Effect of chitosan on the gelation of β-carrageenan under various salt conditions **2000**, 211-216		2
1	Phytotoxicity, cytotoxicity, and in vivo antifungal efficacy of chitosan nanobiocomposites on prokaryotic and eukaryotic cells. *Environmental Science and Pollution Research*, **2021**, 28, 3051-3065	5.1	1