Jacobo Hernandez-Montelongo

List of Publications by Citations

29 papers	375 citations	11 h-index	18 g-index
33 ext. papers	459 ext. citations	5.4 avg, IF	3.25 L-index

#	Paper	IF	Citations
29	Porous silicon-cyclodextrin based polymer composites for drug delivery applications. *Carbohydrate Polymers*, **2014**, 110, 238-52	10.3	48
28	Hyaluronan/chitosan nanofilms assembled layer-by-layer and their antibacterial effect: A study using Staphylococcus aureus and Pseudomonas aeruginosa. *Colloids and Surfaces B: Biointerfaces*, **2016**, 141, 499-506	6	44
27	Nanofilms of hyaluronan/chitosan assembled layer-by-layer: An antibacterial surface for Xylella fastidiosa. *Carbohydrate Polymers*, **2016**, 136, 1-11	10.3	43
26	Nanostructured porous silicon: the winding road from photonics to cell scaffolds - a review. *Frontiers in Bioengineering and Biotechnology*, **2015**, 3, 60	5.8	33
25	Antibacterial properties of chitosan-based coatings are affected by spacer-length and molecular weight. *Applied Surface Science*, **2018**, 445, 478-487	6.7	32
24	Chemical stabilization of porous silicon for enhanced biofunctionalization with immunoglobulin. *Science and Technology of Advanced Materials*, **2012**, 13, 045009	7.1	23
23	Influence of pH and ionic strength on the antibacterial effect of hyaluronic acid/chitosan films assembled layer-by-layer. *European Polymer Journal*, **2018**, 109, 198-205	5.2	20
22	Nanostructured porous silicon-mediated drug delivery. *Expert Opinion on Drug Delivery*, **2014**, 11, 1273-88	8	18
21	Fabrication and characterization of a chemically oxidized-nanostructured porous silicon based biosensor implementing orienting protein A. *Colloids and Surfaces B: Biointerfaces*, **2014**, 115, 310-6	6	16
20	Recent developments in surface science and engineering, thin films, nanoscience, biomaterials, plasma science, and vacuum technology. *Thin Solid Films*, **2018**, 660, 120-160	2.2	16
19	Antibacterial and non-cytotoxic ultra-thin polyethylenimine film. *Materials Science and Engineering C*, **2017**, 71, 718-724	8.3	13
18	Calcium phosphate/porous silicon biocomposites prepared by cyclic deposition methods: spin coating vs electrochemical activation. *Materials Science and Engineering C*, **2014**, 34, 245-51	8.3	10
17	Synthesis and Properties of Silk Fibroin/Konjac Glucomannan Blend Beads. *Polymers*, **2018**, 10,	4.5	9
16	Electrostatic immobilization of antimicrobial peptides on polyethylenimine and their antibacterial effect against Staphylococcus epidermidis. *Colloids and Surfaces B: Biointerfaces*, **2018**, 164, 370-378	6	7
15	Hybrid porous silicon/green synthetized Ag microparticles as potential carries for Ag nanoparticles and drug delivery. *Materials Science and Engineering C*, **2020**, 116, 111183	8.3	6
14	Fractal analysis of the formation process and morphologies of hyaluronan/chitosan nanofilms in layer-by-layer assembly. *Polymer*, **2020**, 191, 122283	3.9	6
13	Flexible, dense and porous chitosan and alginate membranes containing the standardized extract of Arrabidaea chica Verlot for the treatment of skin lesions. *Materials Science and Engineering C*, **2020**, 112, 110869	8.3	6

List of Publications

12	c-di-GMP-related phenotypes are modulated by the interaction between a diguanylate cyclase and a polar hub protein. *Scientific Reports*, **2020**, 10, 3077	4.9	5
11	Nanoporous silicon microparticles embedded into oxidized hyaluronic acid/adipic acid dihydrazide hydrogel for enhanced controlled drug delivery. *Microporous and Mesoporous Materials*, **2021**, 310, 110634	5.3	5
10	Nanoporous Silicon Composite as Potential System for Sustained Delivery of Florfenicol Drug. *Physica Status Solidi (B): Basic Research*, **2018**, 255, 1700626	1.3	3
9	Fabrication and characterization of nanostructured porous silicon-silver composite layers by cyclic deposition: dip-coating vs spin-coating. *Nanotechnology*, **2020**, 31, 365704	3.4	2
8	Use of nPSi-CD Composite Microparticles for the Controlled Release of Caffeic Acid and Pinocembrin, Two Main Polyphenolic Compounds Found in a Chilean Propolis. *Pharmaceutics*, **2019**, 11,	6.4	2
7	Silicon-Based Nanoparticles for Biosensing and Biomedical Applications **2015**, 1-11		2
6	Cost Function Analysis Applied to Different Kinetic Release Models of Verlot Extract from Chitosan/Alginate Membranes.. *Polymers*, **2022**, 14,	4.5	2
5	Green synthesized silver nanoparticles decorated on nanostructured porous silicon as an efficient platform for the removal of organic dye methylene blue. *Green Chemistry Letters and Reviews*, **2022**, 15, 106-113	4.7	1
4	Hydrothermal control of the lithium-rich LiMnO phase in lithium manganese oxide nanocomposites and their application as precursors for lithium adsorbents. *Dalton Transactions*, **2021**, 50, 10765-10778	4.3	1
3	Antibacterial effect of hyaluronan/chitosan nanofilm in the initial adhesion of Pseudomonas aeruginosa wild type, and IV pili and LPS mutant strains. *Surfaces and Interfaces*, **2021**, 26, 101415	4.1	1
2	Antibacterial noncytotoxic chitosan coatings on polytetrafluoroethylene films by plasma grafting for medical device applications1		
1	Functionalized microchannels as xylem-mimicking environment: Quantifying X. fastidiosa cell adhesion. *Biophysical Journal*, **2021**, 120, 1443-1453	2.9	