

# Mar Fernandez Gutierrez

## List of Publications by Citations

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77  
papers

1,574  
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24  
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35  
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77  
ext. papers

1,733  
ext. citations

5.9  
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4.38  
L-index

#	Paper	IF	Citations
77	Chitosan nanoparticles for combined drug delivery and magnetic hyperthermia: From preparation to in vitro studies. <i>Carbohydrate Polymers</i> , <b>2017</b> , 157, 361-370	10.3	91
76	Evaluation of drug delivery characteristics of microspheres of PMMA-PCL-cholesterol obtained by supercritical-CO <sub>2</sub> impregnation and by dissolution-evaporation techniques. <i>Journal of Controlled Release</i> , <b>2004</b> , 99, 231-40	11.7	81
75	In Situ Quantitative <sup>1</sup> H NMR Monitoring of Monomer Consumption: A Simple and Fast Way of Estimating Reactivity Ratios. <i>Macromolecules</i> , <b>2002</b> , 35, 2036-2041	5.5	59
74	Oxidized dextrans as alternative crosslinking agents for polysaccharides: application to hydrogels of agarose-chitosan. <i>Acta Biomaterialia</i> , <b>2014</b> , 10, 798-811	10.8	52
73	Cytotoxicity of Cyanoacrylate-Based Tissue Adhesives and Short-Term Preclinical In Vivo Biocompatibility in Abdominal Hernia Repair. <i>PLoS ONE</i> , <b>2016</b> , 11, e0157920	3.7	51
72	PHACOS, a functionalized bacterial polyester with bactericidal activity against methicillin-resistant <i>Staphylococcus aureus</i> . <i>Biomaterials</i> , <b>2014</b> , 35, 14-24	15.6	50
71	Magnetic core-shell chitosan nanoparticles: rheological characterization and hyperthermia application. <i>Carbohydrate Polymers</i> , <b>2014</b> , 102, 691-8	10.3	49
70	Bio-safe fabrication of PLA scaffolds for bone tissue engineering by combining phase separation, porogen leaching and scCO <sub>2</sub> drying. <i>Journal of Supercritical Fluids</i> , <b>2015</b> , 97, 238-246	4.2	49
69	Injectable self-curing bioactive acrylic-glass composites charged with specific anti-inflammatory/analgesic agent. <i>Biomaterials</i> , <b>2004</b> , 25, 2381-92	15.6	43
68	Drug Delivery Systems Based on Porous Chitosan/Polyacrylic acid Microspheres. <i>Macromolecular Bioscience</i> , <b>2003</b> , 3, 540-545	5.5	42
67	Preparation in supercritical CO <sub>2</sub> of porous poly(methyl methacrylate)/poly(L-lactic acid) (PMMA/PLLA) scaffolds incorporating ibuprofen. <i>Journal of Supercritical Fluids</i> , <b>2010</b> , 54, 335-341	4.2	40
66	Synthesis and characterization of silica-chitosan hybrid materials as antibacterial coatings for titanium implants. <i>Carbohydrate Polymers</i> , <b>2019</b> , 203, 331-341	10.3	39
65	Macroporous Scaffolds Based on Chitosan and Bioactive Molecules. <i>Journal of Bioactive and Compatible Polymers</i> , <b>2007</b> , 22, 621-636	2	38
64	Cellular interactions of biodegradable nanorod arrays prepared by nondestructive extraction from nanoporous alumina. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 3171		37
63	Preparation of acrylic bone cements for vertebroplasty with bismuth salicylate as radiopaque agent. <i>Biomaterials</i> , <b>2006</b> , 27, 100-7	15.6	37
62	Development of new hydroactive dressings based on chitosan membranes: characterization and in vivo behavior. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2003</b> , 64, 147-54	5.4	37
61	Cell supports of chitosan/hyaluronic acid and chondroitin sulphate systems. Morphology and biological behaviour. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2007</b> , 18, 1719-26	4.5	35

60	Local and controlled release of tamoxifen from multi (layer-by-layer) alginate/chitosan complex systems. <i>Carbohydrate Polymers</i> , <b>2019</b> , 206, 428-434	10.3	32
59	Antimicrobial hydrogels based on autoclaved poly(vinyl alcohol) and poly(methyl vinyl ether-alt-maleic anhydride) mixtures for wound care applications. <i>RSC Advances</i> , <b>2016</b> , 6, 55211-55219	3.7	29
58	Physicochemical and antimicrobial properties of boron-complexed polyglycerol-chitosan dendrimers. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2006</b> , 17, 689-707	3.5	29
57	Low-density polypropylene meshes coated with resorbable and biocompatible hydrophilic polymers as controlled release agents of antibiotics. <i>Acta Biomaterialia</i> , <b>2013</b> , 9, 6006-18	10.8	28
56	Synthesis, characterization, bioactivity and biocompatibility of nanostructured materials based on the wollastonite-poly(ethylmethacrylate-co-vinylpyrrolidone) system. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2009</b> , 88, 53-64	5.4	27
55	Anticancer and antiangiogenic activity of surfactant-free nanoparticles based on self-assembled polymeric derivatives of vitamin E: structure-activity relationship. <i>Biomacromolecules</i> , <b>2015</b> , 16, 1566-81	6.9	26
54	Self-curing acrylic formulations containing PMMA/PCL composites: properties and antibiotic release behavior. <i>Journal of Biomedical Materials Research Part B</i> , <b>2002</b> , 61, 66-74		26
53	5-Hydroxytryptamine inhibits the tachycardia induced by selective preganglionic sympathetic stimulation in pithed rats. <i>Life Sciences</i> , <b>1999</b> , 64, 1839-47	6.8	22
52	The synthesis and characterisation of strontium and calcium folates with potential osteogenic activity. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 2708-2713	7.3	21
51	Characterization of prejunctional 5-HT <sub>1</sub> receptors that mediate the inhibition of pressor effects elicited by sympathetic stimulation in the pithed rat. <i>British Journal of Pharmacology</i> , <b>1998</b> , 123, 1205-13	8.6	21
50	Macroporous and nanometre scale fibrous PLA and PLA/HA composite scaffolds fabricated by a bio safe strategy. <i>RSC Advances</i> , <b>2014</b> , 4, 61491-61502	3.7	20
49	A Kinetic Model To Explain the Zero-Order Release of Drugs from Ionic Polymeric Drug Conjugates: Application to AMPS-riflusal-Derived Polymeric Drugs. <i>Macromolecules</i> , <b>2003</b> , 36, 8876-8880	5.5	20
48	Mesenteric vasoconstrictor response to 5-hydroxytryptamine in the in situ blood autoperfused rat mesentery: involvement of 5-HT <sub>2B</sub> and/or 5-HT <sub>2C</sub> receptor activation. <i>European Journal of Pharmacology</i> , <b>2000</b> , 401, 221-7	5.3	19
47	Antimitogenic polymer drugs based on AMPS: monomer distribution-bioactivity relationship of water-soluble macromolecules. <i>Biomacromolecules</i> , <b>2010</b> , 11, 626-34	6.9	18
46	Vasodilator and vasoconstrictor responses induced by 5-hydroxytryptamine in the in situ blood autoperfused hindquarters of the anaesthetized rat. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , <b>2002</b> , 366, 110-6	3.4	18
45	Biocompatibility and other properties of acrylic bone cements prepared with antiseptic activators <b>2003</b> , 66, 502-13		18
44	Development of advanced biantibiotic loaded bone cement spacers for arthroplasty associated infections. <i>International Journal of Pharmaceutics</i> , <b>2017</b> , 522, 11-20	6.5	15
43	In vitro assessment of an antibacterial quaternary ammonium-based polymer loaded with chlorhexidine for the coating of polypropylene prosthetic meshes. <i>Hernia: the Journal of Hernias and Abdominal Wall Surgery</i> , <b>2016</b> , 20, 869-878	3.2	15

42	Biocompatibility of alendronate-loaded acrylic cement for vertebroplasty. <i>European Cells and Materials</i> , <b>2010</b> , 20, 260-73	4.3	15
41	Designing dapsone polymer conjugates for controlled drug delivery. <i>Acta Biomaterialia</i> , <b>2015</b> , 27, 32-41	10.8	14
40	Scaffolds based on hydroxypropyl starch: Processing, morphology, characterization, and biological behavior. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 127, 1475-1484	2.9	14
39	Structure, morphology, and bioactivity of biocompatible systems derived from functionalized acrylic polymers based on 5-amino-2-naphthalene sulfonic acid. <i>Biomacromolecules</i> , <b>2010</b> , 11, 1763-72	6.9	14
38	Mitochondrially Targeted Nanoparticles Based on BODIPY for the Selective Cancer Treatment. <i>Macromolecular Bioscience</i> , <b>2016</b> , 16, 395-411	5.5	14
37	A holistic approach to unravelling chondroitin sulfation: Correlations between surface charge, structure and binding to growth factors. <i>Carbohydrate Polymers</i> , <b>2018</b> , 202, 211-218	10.3	14
36	PHEMA-PLLA semi-interpenetrating polymer networks: A study of their swelling kinetics, mechanical properties and cellular behavior. <i>European Polymer Journal</i> , <b>2016</b> , 85, 150-163	5.2	13
35	Hydrophilic polymer drug from a derivative of salicylic acid: synthesis, controlled release studies and biological behavior. <i>Macromolecular Bioscience</i> , <b>2004</b> , 4, 579-86	5.5	13
34	Stimuli-responsive chitosan/poly (N-isopropylacrylamide) semi-interpenetrating polymer networks: effect of pH and temperature on their rheological and swelling properties. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2016</b> , 27, 109	4.5	13
33	Biocompatible and bioadhesive low molecular weight polymers containing long-arm catechol-functionalized methacrylate. <i>European Polymer Journal</i> , <b>2018</b> , 98, 47-55	5.2	13
32	Amphiphilic self-assembled "polymeric drugs": morphology, properties, and biological behavior of nanoparticles. <i>Biomacromolecules</i> , <b>2012</b> , 13, 624-35	6.9	12
31	Acrylic-phosphate glasses composites as self-curing controlled delivery systems of antibiotics. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2002</b> , 13, 1251-7	4.5	11
30	Sutures versus new cyanoacrylates in prosthetic abdominal wall repair: a preclinical long-term study. <i>Journal of Surgical Research</i> , <b>2017</b> , 220, 30-39	2.5	10
29	Self-curing controlled release systems for steroids. Application of prednisolone-based polymeric systems to ear diseases. <i>Biomaterials</i> , <b>2005</b> , 26, 3311-8	15.6	10
28	Effects of plasma surface treatments of diamond-like carbon and polymeric substrata on the cellular behavior of human fibroblasts. <i>Journal of Biomaterials Applications</i> , <b>2013</b> , 27, 669-83	2.9	9
27	Host tissue response by the expression of collagen to cyanoacrylate adhesives used in implant fixation for abdominal hernia repair. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2017</b> , 28, 58	4.5	8
26	Antibacterial activity and cytotoxicity of hydrogel/silver composites based on copolymers from 2-acrylamido-2-methylpropanesulfonate sodium. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 131, n/a-n/a	2.9	8
25	Characterization of mechanisms involved in presynaptic inhibition of sympathetic pressor effects induced by some 5-HT <sub>1</sub> receptor antagonists. <i>Autonomic and Autacoid Pharmacology</i> , <b>2000</b> , 20, 313-23		8

24	Thermoresponsive biodegradable HEMA-lactate-Dextran-co-NIPA cryogels for controlled release of simvastatin. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , <b>2015</b> , 43, 40-9	6.1	7
23	Bioactive Sr(II)/Chitosan/Poly( $\epsilon$ -caprolactone) Scaffolds for Craniofacial Tissue Regeneration. In Vitro and In Vivo Behavior. <i>Polymers</i> , <b>2018</b> , 10,	4.5	7
22	Preparation and characterization of hydrogel $\beta$ nanosilver composites based on copolymers from sodium 2-acrylamido-2-methylpropanesulfonate. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 129, 537-548	2.9	7
21	Behavior of a new long-chain cyanoacrylate tissue adhesive used for mesh fixation in hernia repair. <i>Journal of Surgical Research</i> , <b>2017</b> , 208, 68-83	2.5	7
20	Bioactive Chitosan Nanoparticles Loaded with Retinyl Palmitate: A Simple Route Using Ionotropic Gelation. <i>Macromolecular Chemistry and Physics</i> , <b>2015</b> , 216, 1321-1332	2.6	7
19	Bioactive polymeric systems with platelet antiaggregating activity for the coating of vascular devices. <i>Biomacromolecules</i> , <b>2010</b> , 11, 2740-7	6.9	7
18	Acrylic injectable and self-curing formulations for the local release of bisphosphonates in bone tissue. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2007</b> , 83, 596-608	3.5	7
17	Self-curing acrylic formulations with applications in intervertebral disk restoration: drug release and biological behaviour. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2007</b> , 1, 120-7	4.4	7
16	Structural Analysis and Application of n-Alkyl Cyanoacrylate Surgical Adhesives to the Fixation of Meshes for Hernia Repair. <i>Macromolecular Bioscience</i> , <b>2016</b> , 16, 1803-1814	5.5	6
15	Amphiphilic polysaccharide nanocarriers with antioxidant properties. <i>Journal of Bioactive and Compatible Polymers</i> , <b>2014</b> , 29, 589-606	2	6
14	Bioactive coatings for coronary stents: Modulation of cell proliferation by controlled release of anti-proliferative drugs. <i>Journal of Bioactive and Compatible Polymers</i> , <b>2012</b> , 27, 550-564	2	6
13	Polymeric systems containing dual biologically active ions. <i>European Journal of Medicinal Chemistry</i> , <b>2011</b> , 46, 4980-91	6.8	6
12	Polymeric active coatings with functionality in vascular applications. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2002</b> , 13, 1099-104	4.5	6
11	Bioassay of cyanoacrylate tissue adhesives used for intraperitoneal mesh fixation. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2017</b> , 105, 312-319	3.5	5
10	Fluorescence mechanism switching from ICT to PET by substituent chemical manipulation: Macrophage cytoplasm imaging probes. <i>Dyes and Pigments</i> , <b>2020</b> , 175, 108172	4.6	5
9	Development of Biocomposite Polymeric Systems Loaded with Antibacterial Nanoparticles for the Coating of Polypropylene Biomaterials. <i>Polymers</i> , <b>2020</b> , 12,	4.5	5
8	Pre-clinical assay of the tissue integration and mechanical adhesion of several types of cyanoacrylate adhesives in the fixation of lightweight polypropylene meshes for abdominal hernia repair. <i>PLoS ONE</i> , <b>2018</b> , 13, e0206515	3.7	5
7	Naphthalimide-based macrophage nucleus imaging probes. <i>European Journal of Medicinal Chemistry</i> , <b>2020</b> , 200, 112407	6.8	4

6	Polymeric drugs based on random copolymers with antimitotic activity. <i>Biomacromolecules</i> , <b>2010</b> , 11, 2478-86	6.9	4
5	Polymeric drugs with prolonged sustained delivery of specific anti-aggregant agents for platelets: kinetic analysis of the release mechanism. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2004</b> , 15, 917-28	3.5	4
4	Physicochemical and biological characterization of nanocomposites made of segmented polyurethanes and Cloisite 30B. <i>Journal of Biomaterials Applications</i> , <b>2013</b> , 28, 38-48	2.9	3
3	Random co-polymers based on the poloxamer Bayfit® 10WF15 for biomedical applications. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2011</b> , 22, 1895-916	3.5	3
2	A study on partially biodegradable microparticles as carriers of active glycolipids. <i>Acta Biomaterialia</i> , <b>2010</b> , 6, 1360-9	10.8	2
1	Effects of Non-thermal Ultrasound on a Fibroblast Monolayer Culture: Influence of Pulse Number and Pulse Repetition Frequency. <i>Sensors</i> , <b>2021</b> , 21,	3.8	1