

Carlos A Garca-Gonzlez

List of Publications by Citations

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79
papers

3,472
citations

34
h-index

57
g-index

83
ext. papers

4,034
ext. citations

6
avg, IF

5.73
L-index

#	Paper	IF	Citations
79	Polysaccharide-based aerogels Promising biodegradable carriers for drug delivery systems. <i>Carbohydrate Polymers</i> , 2011 , 86, 1425-1438	10.3	517
78	Supercritical drying of aerogels using CO ₂ : Effect of extraction time on the end material textural properties. <i>Journal of Supercritical Fluids</i> , 2012 , 66, 297-306	4.2	192
77	Synthesis and biomedical applications of aerogels: Possibilities and challenges. <i>Advances in Colloid and Interface Science</i> , 2016 , 236, 1-27	14.3	187
76	Polysaccharide-based aerogel microspheres for oral drug delivery. <i>Carbohydrate Polymers</i> , 2015 , 117, 797-806	10.3	186
75	Preparation of tailor-made starch-based aerogel microspheres by the emulsion-gelation method. <i>Carbohydrate Polymers</i> , 2012 , 88, 1378-1386	10.3	121
74	Preparation of biodegradable nanoporous microspherical aerogel based on alginate. <i>Carbohydrate Polymers</i> , 2011 , 84, 1011-1018	10.3	121
73	Preparation of novel whey protein-based aerogels as drug carriers for life science applications. <i>Journal of Supercritical Fluids</i> , 2012 , 72, 111-119	4.2	116
72	Use of supercritical fluid technology for the production of tailor-made aerogel particles for delivery systems. <i>Journal of Supercritical Fluids</i> , 2013 , 79, 152-158	4.2	90
71	Vancomycin-loaded chitosan aerogel particles for chronic wound applications. <i>Carbohydrate Polymers</i> , 2019 , 204, 223-231	10.3	90
70	Microstructural changes induced in Portland cement-based materials due to natural and supercritical carbonation. <i>Journal of Materials Science</i> , 2008 , 43, 3101-3111	4.3	89
69	An Opinion Paper on Aerogels for Biomedical and Environmental Applications. <i>Molecules</i> , 2019 , 24,	4.8	70
68	Processing of Materials for Regenerative Medicine Using Supercritical Fluid Technology. <i>Bioconjugate Chemistry</i> , 2015 , 26, 1159-71	6.3	68
67	Polyamide 6/chitosan nanofibers as support for the immobilization of <i>Trametes versicolor</i> laccase for the elimination of endocrine disrupting chemicals. <i>Enzyme and Microbial Technology</i> , 2016 , 89, 31-8	3.8	66
66	Prilling and supercritical drying: A successful duo to produce core-shell polysaccharide aerogel beads for wound healing. <i>Carbohydrate Polymers</i> , 2016 , 147, 482-489	10.3	64
65	Supercritical processing of starch aerogels and aerogel-loaded poly(ϵ -caprolactone) scaffolds for sustained release of ketoprofen for bone regeneration. <i>Journal of CO₂ Utilization</i> , 2017 , 18, 237-249	7.6	57
64	Impregnation of a biocompatible polymer aided by supercritical CO ₂ : Evaluation of drug stability and drug-matrix interactions. <i>Journal of Supercritical Fluids</i> , 2009 , 48, 56-63	4.2	57
63	Cyclodextrins as versatile building blocks for regenerative medicine. <i>Journal of Controlled Release</i> , 2017 , 268, 269-281	11.7	54

62	Dried chitosan-gels as organocatalysts for the production of biomass-derived platform chemicals. <i>Applied Catalysis A: General</i> , 2012 , 445-446, 180-186	5.1	48
61	Modification of Composition and Microstructure of Portland Cement Pastes as a Result of Natural and Supercritical Carbonation Procedures. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 4985-4992	3.9	48
60	Design of biocompatible magnetic pectin aerogel monoliths and microspheres. <i>RSC Advances</i> , 2012 , 2, 9816	3.7	47
59	New insights on the use of supercritical carbon dioxide for the accelerated carbonation of cement pastes. <i>Journal of Supercritical Fluids</i> , 2008 , 43, 500-509	4.2	41
58	Aerogels in drug delivery: From design to application. <i>Journal of Controlled Release</i> , 2021 , 332, 40-63	11.7	41
57	Preparation of silane-coated TiO ₂ nanoparticles in supercritical CO ₂ . <i>Journal of Colloid and Interface Science</i> , 2009 , 338, 491-9	9.3	40
56	From the printer to the lungs: Inkjet-printed aerogel particles for pulmonary delivery. <i>Chemical Engineering Journal</i> , 2019 , 357, 559-566	14.7	40
55	A breakthrough technique for the preparation of high-yield precipitated calcium carbonate. <i>Journal of Supercritical Fluids</i> , 2010 , 52, 298-305	4.2	39
54	Supercritical CO ₂ processing of polymers for the production of materials with applications in tissue engineering and drug delivery. <i>Journal of Materials Science</i> , 2008 , 43, 1939-1947	4.3	37
53	Encapsulation efficiency of solid lipid hybrid particles prepared using the PGSS [®] technique and loaded with different polarity active agents. <i>Journal of Supercritical Fluids</i> , 2010 , 54, 342-347	4.2	36
52	Synthesis of an organic conductive porous material using starch aerogels as template for chronic invasive electrodes. <i>Materials Science and Engineering C</i> , 2014 , 37, 177-83	8.3	35
51	Hydrothermal synthesis of highly porous carbon monoliths from carbohydrates and phloroglucinol. <i>RSC Advances</i> , 2013 , 3, 17088	3.7	35
50	Preparation and Characterization of Surface Silanized TiO ₂ Nanoparticles under Compressed CO ₂ : Reaction Kinetics. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 13780-13786	3.8	35
49	Supercritical CO ₂ antisolvent precipitation of polymer networks of l-PLA, PMMA and PMMA/PCL blends for biomedical applications. <i>European Polymer Journal</i> , 2008 , 44, 1081-1094	5.2	35
48	Conductive nanostructured materials based on poly-(3,4-ethylenedioxythiophene) (PEDOT) and starch/κ-carrageenan for biomedical applications. <i>Carbohydrate Polymers</i> , 2018 , 189, 304-312	10.3	34
47	Production of hybrid lipid-based particles loaded with inorganic nanoparticles and active compounds for prolonged topical release. <i>International Journal of Pharmaceutics</i> , 2009 , 382, 296-304	6.5	34
46	Composite fibrous biomaterials for tissue engineering obtained using a supercritical CO ₂ antisolvent process. <i>Acta Biomaterialia</i> , 2009 , 5, 1094-103	10.8	34
45	Stimuli-responsive polymers for antimicrobial therapy: drug targeting, contact-killing surfaces and competitive release. <i>Expert Opinion on Drug Delivery</i> , 2016 , 13, 1109-19	8	34

44	A new era for sterilization based on supercritical CO ₂ technology. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020 , 108, 399-428	3.5	34
43	Growth factors delivery from hybrid PCL-starch scaffolds processed using supercritical fluid technology. <i>Carbohydrate Polymers</i> , 2016 , 142, 282-92	10.3	33
42	Design of Aerogels, Cryogels and Xerogels of Alginate: Effect of Molecular Weight, Gelation Conditions and Drying Method on Particles Micromeritics. <i>Molecules</i> , 2019 , 24,	4.8	32
41	scCO ₂ -foamed silk fibroin aerogel/poly(ϵ -caprolactone) scaffolds containing dexamethasone for bone regeneration. <i>Journal of CO₂ Utilization</i> , 2019 , 31, 51-64	7.6	28
40	Measurements and Correlation of Octyltriethoxysilane Solubility in Supercritical CO ₂ and Assembly of Functional Silane Monolayers on the Surface of Nanometric Particles. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 9952-9960	3.9	28
39	Antimicrobial Properties and Osteogenicity of Vancomycin-Loaded Synthetic Scaffolds Obtained by Supercritical Foaming. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 3349-3360	9.5	26
38	Jet Cutting Technique for the Production of Chitosan Aerogel Microparticles Loaded with Vancomycin. <i>Polymers</i> , 2020 , 12,	4.5	26
37	Biodegradable PCL/fibroin/hydroxyapatite porous scaffolds prepared by supercritical foaming for bone regeneration. <i>International Journal of Pharmaceutics</i> , 2017 , 527, 115-125	6.5	25
36	Towards the synthesis of Schiff base macrocycles under supercritical CO ₂ conditions. <i>Chemical Communications</i> , 2010 , 46, 4315-7	5.8	25
35	Sterile and Dual-Porous Aerogels Scaffolds Obtained through a Multistep Supercritical CO ₂ Based Approach. <i>Molecules</i> , 2019 , 24,	4.8	24
34	Synthetic scaffolds with full pore interconnectivity for bone regeneration prepared by supercritical foaming using advanced biofunctional plasticizers. <i>Biofabrication</i> , 2017 , 9, 035002	10.5	23
33	Porosity and Water Permeability Study of Supercritically Carbonated Cement Pastes Involving Mineral Additions. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 2488-2496	3.9	23
32	Technologies and Formulation Design of Polysaccharide-Based Hydrogels for Drug Delivery. <i>Molecules</i> , 2020 , 25,	4.8	21
31	Solvent-Free Approaches for the Processing of Scaffolds in Regenerative Medicine. <i>Polymers</i> , 2020 , 12,	4.5	20
30	Preparation and stability of dexamethasone-loaded polymeric scaffolds for bone regeneration processed by compressed CO ₂ foaming. <i>Journal of CO₂ Utilization</i> , 2018 , 24, 89-98	7.6	20
29	Solvent- and thermal-induced crystallization of poly-L-lactic acid in supercritical CO ₂ medium. <i>Journal of Applied Polymer Science</i> , 2009 , 111, 291-300	2.9	19
28	Hybrid Methacrylated Gelatin and Hyaluronic Acid Hydrogel Scaffolds. Preparation and Systematic Characterization for Prospective Tissue Engineering Applications. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	17
27	Interaction of bentonite with supercritically carbonated concrete. <i>Applied Clay Science</i> , 2009 , 42, 488-496.	5.2	15

26	Low viscosity-PLGA scaffolds by compressed CO ₂ foaming for growth factor delivery. <i>RSC Advances</i> , 2016 , 6, 70510-70519	3.7	14
25	Characterization of new topical ketoprofen formulations prepared by drug entrapment in solid lipid matrices. <i>Journal of Pharmaceutical Sciences</i> , 2011 , 100, 4783-9	3.9	12
24	Application of principal component analysis to the thermal characterization of silanized nanoparticles obtained at supercritical carbon dioxide conditions. <i>Analytica Chimica Acta</i> , 2009 , 635, 227-34	6.6	12
23	Assessment of scCO ₂ techniques for surface modification of micro- and nanoparticles: Process design methodology based on solubility. <i>Journal of Supercritical Fluids</i> , 2010 , 54, 362-368	4.2	12
22	Spectroscopic analysis of triflusal impregnated into PMMA from supercritical CO ₂ solution. <i>Vibrational Spectroscopy</i> , 2009 , 49, 183-189	2.1	11
21	Chapter 16:Biomedical Applications of Polysaccharide and Protein Based Aerogels. <i>RSC Green Chemistry</i> , 2018 , 295-323	0.9	11
20	Aerogels as porous structures for food applications: Smart ingredients and novel packaging materials. <i>Food Structure</i> , 2021 , 28, 100188	4.3	11
19	Variability of Physical and Chemical Properties of TLUD Stove Derived Biochars. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 507	2.6	10
18	Impregnation of a triphenylpyrylium cation into zeolite cavities using supercritical CO ₂ . <i>Journal of Supercritical Fluids</i> , 2009 , 50, 305-312	4.2	10
17	Preparation of trityl cations in faujasite micropores through supercritical CO ₂ impregnation. <i>Microporous and Mesoporous Materials</i> , 2010 , 132, 357-362	5.3	10
16	Preparation of Nanostructured Organic-Inorganic Hybrid Materials Using Supercritical Fluid Technology. <i>Composite Interfaces</i> , 2009 , 16, 143-155	2.3	9
15	Patent Survey on Current Applications of Supercritical Fluid Technology in Regenerative Medicine. <i>Recent Patents on Nanomedicine</i> , 2015 , 5, 48-58		7
14	New insights in the morphological characterization and modelling of poly(ϵ -caprolactone) bone scaffolds obtained by supercritical CO ₂ foaming. <i>Journal of Supercritical Fluids</i> , 2020 , 166, 105012	4.2	7
13	Bioaerogels: Promising Nanostructured Materials in Fluid Management, Healing and Regeneration of Wounds. <i>Molecules</i> , 2021 , 26,	4.8	7
12	The subdivision behavior of polymeric tablets. <i>International Journal of Pharmaceutics</i> , 2019 , 568, 1185546.5		6
11	3D-printed alginate-hydroxyapatite aerogel scaffolds for bone tissue engineering. <i>Materials Science and Engineering C</i> , 2021 , 131, 112525	8.3	6
10	Lidocaine-Loaded Solid Lipid Microparticles (SLMPs) Produced from Gas-Saturated Solutions for Wound Applications. <i>Pharmaceutics</i> , 2020 , 12,	6.4	6
9	Supercritical CO ₂ technology for one-pot foaming and sterilization of polymeric scaffolds for bone regeneration. <i>International Journal of Pharmaceutics</i> , 2021 , 605, 120801	6.5	6

8	Modeling of the Production of Lipid Microparticles Using PGSS Technique. <i>Molecules</i> , 2020 , 25,	4.8	4
7	Stability Studies of Starch Aerogel Formulations for Biomedical Applications. <i>Biomacromolecules</i> , 2020 , 21, 5336-5344	6.9	4
6	Solvent-Free Processing of Drug-Loaded Poly(εCaprolactone) Scaffolds with Tunable Macroporosity by Combination of Supercritical Foaming and Thermal Porogen Leaching. <i>Polymers</i> , 2021 , 13,	4.5	4
5	A Pathway From Porous Particle Technology Toward Tailoring Aerogels for Pulmonary Drug Administration. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 671381	5.8	3
4	Insights on toxicity, safe handling and disposal of silica aerogels and amorphous nanoparticles. <i>Environmental Science: Nano</i> , 2021 , 8, 1177-1195	7.1	3
3	Physicochemical Changes in Loam Soils Amended with Bamboo Biochar and Their Influence in Tomato Production Yield. <i>Agronomy</i> , 2021 , 11, 2052	3.6	2
2	Combined sterilization and fabrication of drug-loaded scaffolds using supercritical CO technology.. <i>International Journal of Pharmaceutics</i> , 2021 , 612, 121362	6.5	1
1	Supercritical CO sterilization: An effective treatment to reprocess FFP3 face masks and to reduce waste during COVID-19 pandemic.. <i>Science of the Total Environment</i> , 2022 , 154089	10.2	1