

Gabriel Alejandro Martnez Castan

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

71
papers

2,536
citations

21
h-index

49
g-index

77
ext. papers

2,921
ext. citations

3.7
avg, IF

4.83
L-index

#	Paper	IF	Citations
71	Synthesis and antibacterial activity of silver nanoparticles with different sizes. <i>Journal of Nanoparticle Research</i> , 2008 , 10, 1343-1348	2.3	767
70	The antimicrobial sensitivity of <i>Streptococcus mutans</i> to nanoparticles of silver, zinc oxide, and gold. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2008 , 4, 237-40	6	375
69	Molecular Mechanisms of Bacterial Resistance to Metal and Metal Oxide Nanoparticles. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	106
68	Antibacterial effect of silver nanoparticles against <i>Streptococcus mutans</i> . <i>Materials Letters</i> , 2009 , 63, 2603-2606	3.3	106
67	Characterization of silver nanoparticles synthesized on titanium dioxide fine particles. <i>Nanotechnology</i> , 2008 , 19, 065711	3.4	79
66	Anti-biofilm activity of chitosan gels formulated with silver nanoparticles and their cytotoxic effect on human fibroblasts. <i>Materials Science and Engineering C</i> , 2016 , 60, 317-323	8.3	72
65	Silver nanoparticles with antimicrobial activities against <i>Streptococcus mutans</i> and their cytotoxic effect. <i>Materials Science and Engineering C</i> , 2015 , 55, 360-6	8.3	72
64	Antimicrobial Properties of Copper Nanoparticles and Amino Acid Chelated Copper Nanoparticles Produced by Using a Soya Extract. <i>Bioinorganic Chemistry and Applications</i> , 2017 , 2017, 1064918	4.2	53
63	Anti-biofilm and cytotoxicity activity of impregnated dressings with silver nanoparticles. <i>Materials Science and Engineering C</i> , 2015 , 49, 604-611	8.3	48
62	Toxicity, distribution, and accumulation of silver nanoparticles in Wistar rats. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	45
61	Preparation and bactericide activity of gallic acid stabilized gold nanoparticles. <i>Journal of Nanoparticle Research</i> , 2010 , 12, 2741-2746	2.3	41
60	Characterization of silver sulfide nanoparticles synthesized by a simple precipitation method. <i>Materials Letters</i> , 2005 , 59, 529-534	3.3	39
59	Predictive values of thermal and electrical dental pulp tests: a clinical study. <i>Journal of Endodontics</i> , 2013 , 39, 965-9	4.7	35
58	Antibacterial and Antibiofilm Activities of the Photothermal Therapy Using Gold Nanorods against Seven Different Bacterial Strains. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-7	3.2	35
57	Synthesis of silver particles with different sizes and morphologies. <i>Materials Letters</i> , 2009 , 63, 1266-1268	3.3	34
56	In Vitro Synergism of Silver Nanoparticles with Antibiotics as an Alternative Treatment in Multiresistant Uropathogens. <i>Antibiotics</i> , 2018 , 7,	4.9	30
55	Peripheral arterial disease associated with caries and periodontal disease. <i>Journal of Periodontology</i> , 2013 , 84, 486-94	4.6	30

54	Adherence inhibition of Streptococcus mutans on dental enamel surface using silver nanoparticles. <i>Materials Science and Engineering C</i> , 2013 , 33, 2197-202	8.3	29
53	Mechanisms of Resistance to Silver Nanoparticles in Endodontic Bacteria: A Literature Review. <i>Journal of Nanomaterials</i> , 2019 , 2019, 1-11	3.2	27
52	Antimicrobial sensibility of Streptococcus mutans serotypes to silver nanoparticles. <i>Materials Science and Engineering C</i> , 2012 , 32, 896-901	8.3	26
51	Preparation of air stable nanoscale zero valent iron functionalized by ethylene glycol without inert condition. <i>Chemical Engineering Journal</i> , 2018 , 336, 112-122	14.7	26
50	Evaluation of cardiovascular responses to silver nanoparticles (AgNPs) in spontaneously hypertensive rats. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018 , 14, 385-395	6	21
49	Evaluation of anti-biofilm and cytotoxic effect of a gel formulation with Pluronic F-127 and silver nanoparticles as a potential treatment for skin wounds. <i>Materials Science and Engineering C</i> , 2018 , 92, 621-630	8.3	19
48	Effective Control of Molds Using a Combination of Nanoparticles. <i>PLoS ONE</i> , 2017 , 12, e0169940	3.7	19
47	Green Synthesis of Silver Nanoparticles and Their Bactericidal and Antimycotic Activities against Oral Microbes. <i>Journal of Nanomaterials</i> , 2016 , 2016, 1-10	3.2	19
46	Optical Absorption of Ag Particles Dispersed in a SiO ₂ Amorphous Matrix. <i>Journal of Sol-Gel Science and Technology</i> , 2005 , 36, 137-145	2.3	18
45	Enamel roughness and depth profile after phosphoric acid etching of healthy and fluorotic enamel. <i>Australian Dental Journal</i> , 2012 , 57, 151-6	2.3	17
44	Bovine Serum Albumin and Chitosan Coated Silver Nanoparticles and Its Antimicrobial Activity against Oral and Nonoral Bacteria. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-9	3.2	17
43	Synthesis and characterization of nanostructured powders of Bi ₂ O ₃ , BiOCl and Bi. <i>Materials Letters</i> , 2010 , 64, 1555-1558	3.3	17
42	Bactericide efficiency of a combination of chitosan gel with silver nanoparticles. <i>Materials Letters</i> , 2013 , 106, 413-416	3.3	15
41	Bactericide Effect of Silver Nanoparticles as a Final Irrigation Agent in Endodontics on Enterococcus faecalis: An Ex Vivo Study. <i>Journal of Nanomaterials</i> , 2016 , 2016, 1-7	3.2	15
40	Evaluation of vascular tone and cardiac contractility in response to silver nanoparticles, using Langendorff rat heart preparation. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017 , 13, 1507-1518	6.14	14
39	Spectral characterization of chlorophyll fluorescence in extract of barley leaves embedded in silica xerogel matrix. <i>Journal of Sol-Gel Science and Technology</i> , 2006 , 39, 223-227	2.3	14
38	Hydrogel-embedded gold nanorods activated by plasmonic phototherapy with potent antimicrobial activity. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019 , 22, 102093	6	13
37	Characterization and Biocompatibility of Chitosan Gels with Silver and Gold Nanoparticles. <i>Journal of Nanomaterials</i> , 2014 , 2014, 1-11	3.2	12

36	Analysis of the molecular structure of human enamel with fluorosis using micro-Raman spectroscopy. <i>Journal of Oral Science</i> , 2012 , 54, 93-8	1.5	12
35	Cytotoxic and Bactericidal Effect of Silver Nanoparticles Obtained by Green Synthesis Method Using Aqueous Extract and Functionalized with 5-Fluorouracil. <i>Bioinorganic Chemistry and Applications</i> , 2018 , 2018, 6506381	4.2	12
34	Shear bond strength evaluation of bonded molar tubes on fluorotic molars. <i>Angle Orthodontist</i> , 2013 , 83, 152-7	2.6	11
33	Surface roughness and hardness evaluation of some base metal alloys and denture base acrylics used for oral rehabilitation. <i>Materials Letters</i> , 2015 , 144, 100-105	3.3	11
32	Annealing Behavior of Silica Gel Powders Modified with Silver Crystalline Aggregates. <i>Journal of Sol-Gel Science and Technology</i> , 2003 , 27, 255-262	2.3	11
31	Molecular identification and antibiotic resistant bacteria isolated from primary dentition infections. <i>Australian Dental Journal</i> , 2014 , 59, 497-503	2.3	10
30	Effect of silver nanoparticles upon the myocardial and coronary vascular function in isolated and perfused diabetic rat hearts. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017 , 13, 2587-2596	6	10
29	Effective control of biofilms by photothermal therapy using a gold nanorod hydrogel. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020 , 108, 333-342	3.5	10
28	Clinical evaluation of the accuracy of conventional radiography and apex locators in primary teeth. <i>Pediatric Dentistry (discontinued)</i> , 2011 , 33, 19-22	1.2	10
27	Comparative effects on rat primary astrocytes and C6 rat glioma cells cultures after 24-h exposure to silver nanoparticles (AgNPs). <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1	2.3	9
26	Adhesion forces of biofilms developed in vitro from clinical strains of skin wounds. <i>Materials Science and Engineering C</i> , 2018 , 82, 336-344	8.3	9
25	Effectiveness of bonding resin-based composite to healthy and fluorotic enamel using total-etch and two self-etch adhesive systems. <i>Dental Materials Journal</i> , 2012 , 31, 1021-7	2.5	9
24	Characterization, antibiofilm and biocompatibility properties of chitosan hydrogels loaded with silver nanoparticles and ampicillin: an alternative protection to central venous catheters. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020 , 196, 111292	6	9
23	Effects of silver nanoparticles on the bonding of three adhesive systems to fluorotic enamel. <i>Dental Materials Journal</i> , 2017 , 36, 266-274	2.5	8
22	Synthesis and optical characterization of ZnS, ZnS:Mn and (ZnS:Mn) ₂ S core-shell nanoparticles. <i>Inorganic Chemistry Communication</i> , 2007 , 10, 531-534	3.1	7
21	A cost-effective method to prepare size-controlled nanoscale zero-valent iron for nitrate reduction. <i>Environmental Engineering Research</i> , 2019 , 24, 463-473	3.6	7
20	Biologic monitoring and causes of failure in cycles of sterilization in dental care offices in Mexico. <i>American Journal of Infection Control</i> , 2015 , 43, 1092-5	3.8	6
19	Characterization of ZnO threads obtained using dip coating method at room temperature. <i>Materials Letters</i> , 2012 , 78, 159-161	3.3	6

18	Characterization of healthy and fluorotic enamel by atomic force microscopy. <i>Microscopy and Microanalysis</i> , 2010 , 16, 531-6	0.5	6
17	Coesite Formation at Ambient Pressure and Low Temperatures. <i>Advances in Materials Science and Engineering</i> , 2008 , 2008, 1-6	1.5	6
16	Detection of Genes Related to Resistance to Silver Nanoparticles in Bacteria from Secondary Endodontic Infections. <i>Journal of Nanomaterials</i> , 2019 , 2019, 1-7	3.2	5
15	Association between dental hygiene, gingivitis and overweight or the risk of overweight in primary teeth of 4- and 5-year-old preschoolers in Mexico. <i>International Journal of Dental Hygiene</i> , 2018 , 16, 411-418	3.6	5
14	Electrical, optical and structural properties of ZnO nanorods thin films deposited over ZnO substrates. <i>Materials Letters</i> , 2014 , 133, 293-295	3.3	5
13	Impact of the annealing atmosphere in the electrical and optical properties of ZnO thin films. <i>Journal of Sol-Gel Science and Technology</i> , 2016 , 79, 184-189	2.3	5
12	Nanostructure evaluation of healthy and fluorotic dentin by atomic force microscopy before and after phosphoric acid etching. <i>Dental Materials Journal</i> , 2011 , 30, 546-53	2.5	4
11	Should We Be Concerned about the Association of Diabetes Mellitus and Periodontal Disease in the Risk of Infection by SARS-CoV-2? A Systematic Review and Hypothesis. <i>Medicina (Lithuania)</i> , 2021 , 57,	3.1	4
10	Facile Synthesis, Characterization, and Cytotoxic Activity of Europium-Doped Nanohydroxyapatite. <i>Bioinorganic Chemistry and Applications</i> , 2016 , 2016, 1057260	4.2	4
9	Sodium Hypochlorite as Fluorotic Dentin Pretreatment of Two-Step Self-Etch Adhesive with Silver Nanoparticle: Atomic Force Microscope and Adhesive Microtensile Bond Strength Evaluation. <i>Journal of Nanomaterials</i> , 2017 , 2017, 1-14	3.2	3
8	Shear Bond Strength Evaluation of Orthodontic Brackets Bonded to Fluorotic Teeth with a Self-Etching Primer and a New Generation of Color Bonding 2014 , 90, 778-786		3
7	Presence of SARS-CoV-2 and Its Entry Factors in Oral Tissues and Cells: A Systematic Review. <i>Medicina (Lithuania)</i> , 2021 , 57,	3.1	3
6	Expression of calcitonin gene-related peptide and pulp sensitivity tests in irreversible pulpitis. <i>Brazilian Oral Research</i> , 2019 , 33, e077	2.6	2
5	Biocompatibility and Surface Characteristics of Resin-Modified Glass Ionomer Cements with Ammonium Quaternary Compounds or Silver Nanoparticles: An In Vitro Study. <i>Journal of Nanomaterials</i> , 2018 , 2018, 1-13	3.2	2
4	Diagnostic accuracy of three placement sites for the cold test in subjects amongst different age groups. <i>BMC Oral Health</i> , 2019 , 19, 189	3.7	1
3	Macrophage migration inhibitory factor gene polymorphisms as exacerbating factors of apical periodontitis. <i>Advances in Clinical and Experimental Medicine</i> , 2020 , 29, 597-602	1.8	1
2	Proteomic analysis of an Enterococcus faecalis mutant generated against the exposure to silver nanoparticles. <i>Journal of Applied Microbiology</i> , 2021 ,	4.7	1
1	Levels of matrix metalloproteinase-8 and cold test in reversible and irreversible pulpitis. <i>Medicine (United States)</i> , 2020 , 99, e23782	1.8	0

