Gabriel Alejandro MartÃ-nez CastaÃ±Ã³

List of Publications by Year
in descending order

75 papers	3,324 citations	236612 25 h-index	149479 56 g-index
77 all docs	77 docs citations	77 times ranked	5531 citing authors

#	Article	IF	Citations
1	Proteomic analysis of an Enterococcus faecalis mutant generated against the exposure to silver nanoparticles. Journal of Applied Microbiology, 2022, 132, 244-255.	1.4	3
2	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. Medicina (Lithuania), 2021, 57, 493.	0.8	9
3	Presence of SARS-CoV-2 and Its Entry Factors in Oral Tissues and Cells: A Systematic Review. Medicina (Lithuania), 2021, 57, 523.	0.8	10
4	Identification of Gingival Microcirculation Using Laser Doppler Flowmetry in Patients with Orthodontic Treatmentâ€"A Longitudinal Pilot Study. Medicina (Lithuania), 2021, 57, 1081.	0.8	1
5	Antimicrobial Activity of 3D-Printed Acrylonitrile Butadiene Styrene (ABS) Polymer-Coated with Silver Nanoparticles. Materials, 2021, 14, 7681.	1.3	11
6	Effective control of biofilms by photothermal therapy using a gold nanorod hydrogel. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2020, 108, 333-342.	1.6	16
7	Characterization, antibiofilm and biocompatibility properties of chitosan hydrogels loaded with silver nanoparticles and ampicillin: an alternative protection to central venous catheters. Colloids and Surfaces B: Biointerfaces, 2020, 196, 111292.	2.5	16
8	Macrophage migration inhibitory factor gene polymorphisms as exacerbating factors of apical periodontitis. Advances in Clinical and Experimental Medicine, 2020, 29, 597-602.	0.6	3
9	Levels of matrix metalloproteinase-8 and cold test in reversible and irreversible pulpitis. Medicine (United States), 2020, 99, e23782.	0.4	4
10	Hydrogel-embedded gold nanorods activated by plasmonic photothermy with potent antimicrobial activity. Nanomedicine: Nanotechnology, Biology, and Medicine, 2019, 22, 102093.	1.7	23
11	Diagnostic accuracy of three placement sites for the cold test in subjects amongst different age groups. BMC Oral Health, 2019, 19, 189.	0.8	4
12	Expression of calcitonin gene-related peptide and pulp sensitivity tests in irreversible pulpitis. Brazilian Oral Research, 2019, 33, e077.	0.6	6
13	Detection of Genes Related to Resistance to Silver Nanoparticles in Bacteria from Secondary Endodontic Infections. Journal of Nanomaterials, 2019, 2019, 1-7.	1.5	5
14	Mechanisms of Resistance to Silver Nanoparticles in Endodontic Bacteria: A Literature Review. Journal of Nanomaterials, 2019, 2019, 1-11.	1.5	40
15	Molecular Mechanisms of Bacterial Resistance to Metal and Metal Oxide Nanoparticles. International Journal of Molecular Sciences, 2019, 20, 2808.	1.8	196
16	A cost-effective method to prepare size-controlled nanoscale zero-valent iron for nitrate reduction. Environmental Engineering Research, 2019, 24, 463-473.	1.5	8
17	Association between dental hygiene, gingivitis and overweight or the risk of overweight in primary teeth of 4â€•and 5â€yearâ€old preschoolers in MÃ©xico. International Journal of Dental Hygiene, 2018, 16, 411-418.	0.8	5
18	Adhesion forces of biofilms developed in vitro from clinical strains of skin wounds. Materials Science and Engineering C, 2018, 82, 336-344.	3.8	13

#	Article	IF	Citations
19	Evaluation of cardiovascular responses to silver nanoparticles (AgNPs) in spontaneously hypertensive rats. Nanomedicine: Nanotechnology, Biology, and Medicine, 2018, 14, 385-395.	1.7	38
20	Preparation of air stable nanoscale zero valent iron functionalized by ethylene glycol without inert condition. Chemical Engineering Journal, 2018, 336, 112-122.	6.6	38
21	Biocompatibility and Surface Characteristics of Resin-Modified Glass Ionomer Cements with Ammonium Quaternary Compounds or Silver Nanoparticles: AnIn VitroStudy. Journal of Nanomaterials, 2018, 2018, 1-13.	1.5	4
22	Cytotoxic and Bactericidal Effect of Silver Nanoparticles Obtained by Green Synthesis Method Using Annona muricata Aqueous Extract and Functionalized with 5-Fluorouracil. Bioinorganic Chemistry and Applications, 2018, 2018, 1-8.	1.8	17
23	In Vitro Synergism of Silver Nanoparticles with Antibiotics as an Alternative Treatment in Multiresistant Uropathogens. Antibiotics, 2018, 7, 50.	1.5	51
24	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. Materials Science and Engineering C, 2018, 92, 621-630.	3.8	33
25	Evaluation of vascular tone and cardiac contractility in response to silver nanoparticles, using Langendorff rat heart preparation. Nanomedicine: Nanotechnology, Biology, and Medicine, 2017, 13, 1507-1518.	1.7	16
26	Effect of silver nanoparticles upon the myocardial and coronary vascular function in isolated and perfused diabetic rat hearts. Nanomedicine: Nanotechnology, Biology, and Medicine, 2017, 13, 2587-2596.	1.7	12
27	Antimicrobial Properties of Copper Nanoparticles and Amino Acid Chelated Copper Nanoparticles Produced by Using a Soya Extract. Bioinorganic Chemistry and Applications, 2017, 2017, 1-6.	1.8	75
28	Sodium Hypochlorite as Fluorotic Dentin Pretreatment of Two-Step Self-Etch Adhesive with Silver Nanoparticle: Atomic Force Microscope and Adhesive Microtensile Bond Strength Evaluation. Journal of Nanomaterials, 2017, 2017, 1-14.	1.5	3
29	Effects of silver nanoparticles on the bonding of three adhesive systems to fluorotic enamel. Dental Materials Journal, 2017, 36, 266-274.	0.8	14
30	Effective Control of Molds Using a Combination of Nanoparticles. PLoS ONE, 2017, 12, e0169940.	1.1	28
31	Identification of the Most Appropriate Site for the Cold Test in Molar Teeth. Odovtos International Journal of Dental Sciences, 2017, 20, 79-88.	0.1	0
32	Facile Synthesis, Characterization, and Cytotoxic Activity of Europium-Doped Nanohydroxyapatite. Bioinorganic Chemistry and Applications, 2016, 2016, 1-10.	1.8	6
33	Green Synthesis of Silver Nanoparticles and Their Bactericidal and Antimycotic Activities against Oral Microbes. Journal of Nanomaterials, 2016, 2016, 1-10.	1.5	28
34	Bactericide Effect of Silver Nanoparticles as a Final Irrigation Agent in Endodontics onEnterococcus faecalis: AnEx VivoStudy. Journal of Nanomaterials, 2016, 2016, 1-7.	1.5	25
35	Impact of the annealing atmosphere in the electrical and optical properties of ZnO thin films. Journal of Sol-Gel Science and Technology, 2016, 79, 184-189.	1.1	6
36	Anti-biofilm activity of chitosan gels formulated with silver nanoparticles and their cytotoxic effect on human fibroblasts. Materials Science and Engineering C, 2016, 60, 317-323.	3.8	91

#	Article	IF	Citations
37	Antibacterial and Antibiofilm Activities of the Photothermal Therapy Using Gold Nanorods against Seven Different Bacterial Strains. Journal of Nanomaterials, 2015, 2015, 1-7.	1.5	40
38	Bovine Serum Albumin and Chitosan Coated Silver Nanoparticles and Its Antimicrobial Activity against Oral and Nonoral Bacteria. Journal of Nanomaterials, 2015, 2015, 1-9.	1.5	24
39	Silver nanoparticles with antimicrobial activities against Streptococcus mutans and their cytotoxic effect. Materials Science and Engineering C, 2015, 55, 360-366.	3.8	100
40	Anti-biofilm and cytotoxicity activity of impregnated dressings with silver nanoparticles. Materials Science and Engineering C, 2015, 49, 604-611.	3.8	56
41	Surface roughness and hardness evaluation of some base metal alloys and denture base acrylics used for oral rehabilitation. Materials Letters, 2015, 144, 100-105.	1.3	14
42	Biologic monitoring and causes of failure in cycles of sterilization in dental care offices in Mexico. American Journal of Infection Control, 2015, 43, 1092-1095.	1.1	7
43	Comparative effects on rat primary astrocytes and C6 rat glioma cells cultures after 24-h exposure to silver nanoparticles (AgNPs). Journal of Nanoparticle Research, 2015, 17, 1.	0.8	13
44	Shear Bond Strength Evaluation of Orthodontic Brackets Bonded to Fluorotic Teeth with a Self-Etching Primer and a New Generation of Color Bonding. Journal of Adhesion, 2014, 90, 778-786.	1.8	4
45	Characterization and Biocompatibility of Chitosan Gels with Silver and Gold Nanoparticles. Journal of Nanomaterials, 2014, 2014, 1-11.	1.5	17
46	Molecular identification and antibiotic resistant bacteria isolated from primary dentition infections. Australian Dental Journal, 2014, 59, 497-503.	0.6	17
47	Electrical, optical and structural properties of ZnO nanorods thin films deposited over ZnO substrates. Materials Letters, 2014, 133, 293-295.	1.3	5
48	Toxicity, distribution, and accumulation of silver nanoparticles in Wistar rats. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	59
49	Adherence inhibition of Streptococcus mutans on dental enamel surface using silver nanoparticles. Materials Science and Engineering C, 2013, 33, 2197-2202.	3.8	36
50	Bactericide efficiency of a combination of chitosan gel with silver nanoparticles. Materials Letters, 2013, 106, 413-416.	1.3	17
51	Predictive Values of Thermal and Electrical Dental Pulp Tests: A Clinical Study. Journal of Endodontics, 2013, 39, 965-969.	1.4	47
52	Shear bond strength evaluation of bonded molar tubes on fluorotic molars. Angle Orthodontist, 2013, 83, 152-157.	1.1	16
53	Peripheral Arterial Disease Associated With Caries and Periodontal Disease. Journal of Periodontology, 2013, 84, 486-494.	1.7	43
54	Analysis of the molecular structure of human enamel with fluorosis using micro-Raman spectroscopy. Journal of Oral Science, 2012, 54, 93-98.	0.7	20

#	Article	IF	Citations
55	Effectiveness of bonding resin-based composite to healthy and fluorotic enamel using total-etch and two self-etch adhesive systems. Dental Materials Journal, 2012, 31, 1021-1027.	0.8	15
56	Enamel roughness and depth profile after phosphoric acid etching of healthy and fluorotic enamel. Australian Dental Journal, 2012, 57, 151-156.	0.6	31
57	Characterization of ZnO threads obtained using dip coating method at room temperature. Materials Letters, 2012, 78, 159-161.	1.3	10
58	Antimicrobial sensibility of Streptococcus mutans serotypes to silver nanoparticles. Materials Science and Engineering C, 2012, 32, 896-901.	3.8	31
59	Nanostructure evaluation of healthy and fluorotic dentin by atomic force microscopy before and after phosphoric acid etching. Dental Materials Journal, 2011, 30, 546-553.	0.8	5
60	Clinical evaluation of the accuracy of conventional radiography and apex locators in primary teeth. Pediatric Dentistry (discontinued), 2011, 33, 19-22.	0.4	10
61	Characterization of Healthy and Fluorotic Enamel by Atomic Force Microscopy. Microscopy and Microanalysis, 2010, 16, 531-536.	0.2	9
62	Preparation and bactericide activity of gallic acid stabilized gold nanoparticles. Journal of Nanoparticle Research, 2010, 12, 2741-2746.	0.8	52
63	Synthesis and characterization of nanostructured powders of Bi2O3, BiOCl and Bi. Materials Letters, 2010, 64, 1555-1558.	1.3	20
64	Synthesis of silver particles with different sizes and morphologies. Materials Letters, 2009, 63, 1266-1268.	1.3	37
65	Antibacterial effect of silver nanoparticles against Streptococcus mutans. Materials Letters, 2009, 63, 2603-2606.	1.3	130
66	Synthesis and antibacterial activity of silver nanoparticles with different sizes. Journal of Nanoparticle Research, 2008, 10, 1343-1348.	0.8	909
67	The antimicrobial sensitivity of Streptococcus mutans to nanoparticles of silver, zinc oxide, and gold. Nanomedicine: Nanotechnology, Biology, and Medicine, 2008, 4, 237-240.	1.7	450
68	Characterization of silver nanoparticles synthesized on titanium dioxide fine particles. Nanotechnology, 2008, 19, 065711.	1.3	107
69	Coesite Formation at Ambient Pressure and Low Temperatures. Advances in Materials Science and Engineering, 2008, 2008, 1-6.	1.0	6
70	Synthesis and optical characterization of ZnS, ZnS:Mn and (ZnS:Mn)_CdS coreâ€“shell nanoparticles. Inorganic Chemistry Communication, 2007, 10, 531-534.	1.8	9
71	Spectral characterization of chlorophyll fluorescence in extract of barley leaves embedded in silica xerogel matrix. Journal of Sol-Gel Science and Technology, 2006, 39, 223-227.	1.1	16
72	Optical Absorption of Ag Particles Dispersed in a SiO2 Amorphous Matrix. Journal of Sol-Gel Science and Technology, 2005, 36, 137-145.	1.1	21

#	Article	IF	Citations
73	Characterization of silver sulfide nanoparticles synthesized by a simple precipitation method. Materials Letters, 2005, 59, 529-534.	1.3	46
74	Annealing Behavior of Silica Gel Powders Modified with Silver Crystalline Aggregates. Journal of Sol-Gel Science and Technology, 2003, 27, 255-262.	1.1	14
75	Effect of Sodium Hypochlorite in Ground Fluorotic Enamel: Shear Bond Strength and Surface Analysis. Odovtos International Journal of Dental Sciences, 0, , 320-332.	0.1	0