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	Synthesis and antibacterial activity of silver nanoparticles with different sizes. Journal of Nanoparticle Research, 2008, 10, 1343-1348.	0.8	909
2	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
3	Molecular Mechanisms of Bacterial Resistance to Metal and Metal Oxide Nanoparticles. International Journal of Molecular Sciences, 2019, 20, 2808.	1.8	196
4	Antibacterial effect of silver nanoparticles against Streptococcus mutans. Materials Letters, 2009, 63, 2603-2606.	1.3	130
5	Characterization of silver nanoparticles synthesized on titanium dioxide fine particles. Nanotechnology, 2008, 19, 065711.	1.3	107
6	Silver nanoparticles with antimicrobial activities against Streptococcus mutans and their cytotoxic effect. Materials Science and Engineering C, 2015, 55, 360-366.	3.8	100
7	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
8	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
9	Toxicity, distribution, and accumulation of silver nanoparticles in Wistar rats. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	59
10	Anti-biofilm and cytotoxicity activity of impregnated dressings with silver nanoparticles. Materials Science and Engineering C, 2015, 49, 604-611.	3.8	56
11	Preparation and bactericide activity of gallic acid stabilized gold nanoparticles. Journal of Nanoparticle Research, 2010, 12, 2741-2746.	0.8	52
12	In Vitro Synergism of Silver Nanoparticles with Antibiotics as an Alternative Treatment in Multiresistant Uropathogens. Antibiotics, 2018, 7, 50.	1.5	51
13	Predictive Values of Thermal and Electrical Dental Pulp Tests: A Clinical Study. Journal of Endodontics, 2013, 39, 965-969.	1.4	47
14	Characterization of silver sulfide nanoparticles synthesized by a simple precipitation method. Materials Letters, 2005, 59, 529-534.	1.3	46
15	Peripheral Arterial Disease Associated With Caries and Periodontal Disease. Journal of Periodontology, 2013, 84, 486-494.	1.7	43
16	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
17	Mechanisms of Resistance to Silver Nanoparticles in Endodontic Bacteria: A Literature Review. Journal of Nanomaterials, 2019, 2019, 1-11.	1.5	40
18	Evaluation of cardiovascular responses to silver nanoparticles (AgNPs) in spontaneously hypertensive rats. Nanomedicine: Nanotechnology, Biology, and Medicine, 2018, 14, 385-395.	1.7	38

#	Article	IF	Citations
19	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
20	Synthesis of silver particles with different sizes and morphologies. Materials Letters, 2009, 63, 1266-1268.	1.3	37
21	Adherence inhibition of Streptococcus mutans on dental enamel surface using silver nanoparticles. Materials Science and Engineering C, 2013, 33, 2197-2202.	3.8	36
22	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
23	Enamel roughness and depth profile after phosphoric acid etching of healthy and fluorotic enamel. Australian Dental Journal, 2012, 57, 151-156.	0.6	31
24	Antimicrobial sensibility of Streptococcus mutans serotypes to silver nanoparticles. Materials Science and Engineering C, 2012, 32, 896-901.	3.8	31
25	Green Synthesis of Silver Nanoparticles and Their Bactericidal and Antimycotic Activities against Oral Microbes. Journal of Nanomaterials, 2016, 2016, 1-10.	1.5	28
26	Effective Control of Molds Using a Combination of Nanoparticles. PLoS ONE, 2017, 12, e0169940.	1.1	28
27	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
28	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
29	Hydrogel-embedded gold nanorods activated by plasmonic photothermy with potent antimicrobial activity. Nanomedicine: Nanotechnology, Biology, and Medicine, 2019, 22, 102093.	1.7	23
30	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
31	Synthesis and characterization of nanostructured powders of Bi2O3, BiOCl and Bi. Materials Letters, 2010, 64, 1555-1558.	1.3	20
32	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
33	Bactericide efficiency of a combination of chitosan gel with silver nanoparticles. Materials Letters, 2013, 106, 413-416.	1.3	17
34	Characterization and Biocompatibility of Chitosan Gels with Silver and Gold Nanoparticles. Journal of Nanomaterials, 2014, 2014, 1-11.	1.5	17
35	Molecular identification and antibiotic resistant bacteria isolated from primary dentition infections. Australian Dental Journal, 2014, 59, 497-503.	0.6	17
36	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

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37	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
38	Shear bond strength evaluation of bonded molar tubes on fluorotic molars. Angle Orthodontist, 2013, 83, 152-157.	1.1	16
39	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
40	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
41	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
42	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
43	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
44	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
45	Effects of silver nanoparticles on the bonding of three adhesive systems to fluorotic enamel. Dental Materials Journal, 2017, 36, 266-274.	0.8	14
46	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
47	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
48	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
49	Antimicrobial Activity of 3D-Printed Acrylonitrile Butadiene Styrene (ABS) Polymer-Coated with Silver Nanoparticles. Materials, 2021, 14, 7681.	1.3	11
50	Characterization of ZnO threads obtained using dip coating method at room temperature. Materials Letters, 2012, 78, 159-161.	1.3	10
51	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
52	Clinical evaluation of the accuracy of conventional radiography and apex locators in primary teeth. Pediatric Dentistry (discontinued), 2011, 33, 19-22.	0.4	10
53	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
54	Characterization of Healthy and Fluorotic Enamel by Atomic Force Microscopy. Microscopy and Microanalysis, 2010, 16, 531-536.	0.2	9

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55	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
56	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
57	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
58	Coesite Formation at Ambient Pressure and Low Temperatures. Advances in Materials Science and Engineering, 2008, 2008, 1-6.	1.0	6
59	Facile Synthesis, Characterization, and Cytotoxic Activity of Europium-Doped Nanohydroxyapatite. Bioinorganic Chemistry and Applications, 2016, 2016, 1-10.	1.8	6
60	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
61	Expression of calcitonin gene-related peptide and pulp sensitivity tests in irreversible pulpitis. Brazilian Oral Research, 2019, 33, e077.	0.6	6
62	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
63	Electrical, optical and structural properties of ZnO nanorods thin films deposited over ZnO substrates. Materials Letters, 2014, 133, 293-295.	1.3	5
64	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
65	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
66	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
67	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
68	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
69	Levels of matrix metalloproteinase-8 and cold test in reversible and irreversible pulpitis. Medicine (United States), 2020, 99, e23782.	0.4	4
70	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
71	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
72	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

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73	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
74	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
75	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