Facundo Ruiz

List of Publications by Year
in descending order

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76	4,302	201674	106344
papers	citations	27 h-index	65 g-index

76	76	76	7060
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Synthesis and antibacterial activity of silver nanoparticles with different sizes. Journal of Nanoparticle Research, 2008, 10, 1343-1348.	1.9	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.	3.3	450
3	Synthesis, characterization, and evaluation of antimicrobial and cytotoxic effect of silver and titanium nanoparticles. Nanomedicine: Nanotechnology, Biology, and Medicine, 2010, 6, 681-688.	3.3	396
4	Antibacterial activity, inflammatory response, coagulation and cytotoxicity effects of silver nanoparticles. Nanomedicine: Nanotechnology, Biology, and Medicine, 2012, 8, 328-336.	3.3	254
5	Anti-biofilm activity of silver nanoparticles against different microorganisms. Biofouling, 2013, 29, 651-660.	2.2	203
6	Molecular Mechanisms of Bacterial Resistance to Metal and Metal Oxide Nanoparticles. International Journal of Molecular Sciences, 2019, 20, 2808.	4.1	196
7	Synergistic Bactericidal Activity of Ag-TiO₂ Nanoparticles in Both Light and Dark Conditions. Environmental Science & Technology, 2011, 45, 8989-8995.	10.0	161
8	Rietveld refinement of amorphous SiO2 prepared via solâ€“gel method. Materials Letters, 2006, 60, 3526-3529.	2.6	143
9	Antibacterial effect of silver nanoparticles against Streptococcus mutans. Materials Letters, 2009, 63, 2603-2606.	2.6	130
10	Characterization of silver nanoparticles synthesized on titanium dioxide fine particles. Nanotechnology, 2008, 19, 065711.	2.6	107
11	Determination of the thermal conductivity of diamond-like nanocomposite films using a scanning thermal microscope. Applied Physics Letters, 1998, 73, 1802-1804.	3.3	89
12	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.	4.1	75
13	Catalytic activity of the barium hexaferrite with H2O2/visible light irradiation for degradation of Methylene Blue. Catalysis Today, 2016, 266, 110-119.	4.4	66
14	Magnetic properties of magnetite nanoparticles synthesized by forced hydrolysis. Materials Letters, 2008, 62, 4248-4250.	2.6	61
15	Toxicity, distribution, and accumulation of silver nanoparticles in Wistar rats. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	59
16	Preparation and bactericide activity of gallic acid stabilized gold nanoparticles. Journal of Nanoparticle Research, 2010, 12, 2741-2746.	1.9	52
17	Characterization of silver sulfide nanoparticles synthesized by a simple precipitation method. Materials Letters, 2005, 59, 529-534.	2.6	46
18	Infrared and Raman spectra, conformational stability, ab initio calculations of structure, and vibrational assignment of Î± and Î² glucose. Computational and Theoretical Chemistry, 2005, 714, 143-146.	1.5	43

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19	Mechanisms of Resistance to Silver Nanoparticles in Endodontic Bacteria: A Literature Review. Journal of Nanomaterials, 2019, 2019, 1-11.	2.7	40
20	In vitro Cytotoxicity of Silver Nanoparticles on Human Periodontal Fibroblasts. Journal of Clinical Pediatric Dentistry, 2011, 36, 37-42.	1.0	39
21	Preparation of air stable nanoscale zero valent iron functionalized by ethylene glycol without inert condition. Chemical Engineering Journal, 2018, 336, 112-122.	12.7	38
22	Promotional effect of metal doping on nanostructured TiO2 during the photocatalytic degradation of 4-chlorophenol and naproxen sodium as pollutants. Materials Science in Semiconductor Processing, 2019, 100, 130-139.	4.0	38
23	H2Ti3O7 titanate nanotubes for highly effective adsorption of basic fuchsin dye for water purification. Microporous and Mesoporous Materials, 2019, 276, 183-191.	4.4	38
24	Synthesis of silver particles with different sizes and morphologies. Materials Letters, 2009, 63, 1266-1268.	2.6	37
25	Cyclohexane oxidation over Cu2Oâ€“CuO and CuO thin films deposited by CVD process on fiberglass. Applied Catalysis A: General, 2003, 238, 1-9.	4.3	36
26	Antimicrobial sensibility of Streptococcus mutans serotypes to silver nanoparticles. Materials Science and Engineering C, 2012, 32, 896-901.	7.3	31
27	Antimicrobial Properties of Biofunctionalized Silver Nanoparticles on Clinical Isolates of Streptococcus mutans and Its Serotypes. Nanomaterials, 2016, 6, 136.	4.1	29
28	Green Synthesis of Silver Nanoparticles and Their Bactericidal and Antimycotic Activities against Oral Microbes. Journal of Nanomaterials, 2016, 2016, 1-10.	2.7	28
29	Bovine Serum Albumin and Chitosan Coated Silver Nanoparticles and Its Antimicrobial Activity against Oral and Nonoral Bacteria. Journal of Nanomaterials, 2015, 2015, 1-9.	2.7	24
30	Effect of Silver Nanoparticle-Added Pit and Fissure Sealant in the Prevention of Dental Caries in Children. Journal of Clinical Pediatric Dentistry, 2017, 41, 48-52.	1.0	24
31	Formation of copper oxide films on fiberglass by adsorption and reaction of cuprous ions. Thin Solid Films, 2004, 460, 58-61.	1.8	23
32	Atomic force microscopy observation of the enamel roughness and depth profile after phosphoric acid etching. Journal of Electron Microscopy, 2010, 59, 119-125.	0.9	23
33	Optical Absorption of Ag Particles Dispersed in a SiO2 Amorphous Matrix. Journal of Sol-Gel Science and Technology, 2005, 36, 137-145.	2.4	21
34	Quantitative analysis of iron oxide particles embedded in an amorphous xerogel matrix. Journal of Non-Crystalline Solids, 2003, 325, 251-257.	3.1	20
35	Four-membered rings family in the Siâ€“O extended rocking IR band from quantum chemistry calculations. Journal of Sol-Gel Science and Technology, 2007, 43, 65-72.	2.4	20
36	Synthesis and characterization of nanostructured powders of Bi2O3, BiOCl and Bi. Materials Letters, 2010, 64, 1555-1558.	2.6	20

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37	Evaluation of the antibacterial activity of an indoor waterborne architectural coating containing Ag/TiO 2 under different relative humidity environments. Materials Letters, 2014, 134, 103-106.	2.6	19
38	Therapeutic Use of Silver Nanoparticles in the Prevention and Arrest of Dental Caries. Bioinorganic Chemistry and Applications, 2020, 2020, 1-7.	4.1	19
39	Preparation of rough anatase films and the evaluation of their photocatalytic efficiencies. Applied Catalysis B: Environmental, 2007, 76, 264-274.	20.2	18
40	Gold Nanoparticle: Enhanced CO Oxidation at Low Temperatures by Using Fe-Doped TiO2 as Support. Catalysis Letters, 2018, 148, 383-396.	2.6	18
41	Light absorption properties of mesoporous barium hexaferrite, BaFe12O19. Materials Letters, 2019, 252, 239-243.	2.6	18
42	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.	4.1	17
43	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.	2.4	16
44	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.	3.4	16
45	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.	1.8	15
46	Annealing Behavior of Silica Gel Powders Modified with Silver Crystalline Aggregates. Journal of Sol-Gel Science and Technology, 2003, 27, 255-262.	2.4	14
47	Antimicrobial activity, cytotoxicity and inflammatory response of novel plastics embedded with silver nanoparticles. Future Microbiology, 2013, 8, 403-411.	2.0	14
48	Effects of silver nanoparticles on the bonding of three adhesive systems to fluorotic enamel. Dental Materials Journal, 2017, 36, 266-274.	1.8	14
49	H₂Ti₃O₇ Nanotubes Decorated with Silver Nanoparticles for Photocatalytic Degradation of Atenolol. Journal of Nanomaterials, 2017, 2017, 1-11.	2.7	12
50	Title is missing!. Journal of Sol-Gel Science and Technology, 2003, 27, 247-254.	2.4	10
51	Bactericidal Capacity of Silver Nanoparticles Associated with Gantrez S-97 on Streptococcus Mutans. Journal of Clinical Pediatric Dentistry, 2010, 35, 183-185.	1.0	10
52	Effect of surface characteristics on the antibacterial properties of titanium dioxide nanotubes produced in aqueous electrolytes with carboxymethyl cellulose. Journal of Biomedical Materials Research - Part A, 2021, 109, 104-121.	4.0	10
53	Synthesis and optical characterization of ZnS, ZnS:Mn and (ZnS:Mn)_CdS coreâ€“shell nanoparticles. Inorganic Chemistry Communication, 2007, 10, 531-534.	3.9	9
54	In vitro Determination of the Chromatic Effect of a Silver Nanoparticles Solution Linked to the Gantrez S-97 Copolymer on Tooth Enamel. Journal of Clinical Pediatric Dentistry, 2010, 35, 65-68.	1.0	9

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55	Effect of synthesis variables on the characteristics of magnesium hydroxide nanoparticles and evaluation of the fluorescence of functionalised Mg(OH)2 nanoparticles. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2020, 11, 025008.	1.5	8
56	A cost-effective method to prepare size-controlled nanoscale zero-valent iron for nitrate reduction. Environmental Engineering Research, 2019, 24, 463-473.	2.5	8
57	Non-Invasive In-Vivo Blood Glucose Levels Prediction Using Near Infrared Spectroscopy. AIP Conference Proceedings, 2004, , .	0.4	6
58	Coesite Formation at Ambient Pressure and Low Temperatures. Advances in Materials Science and Engineering, 2008, 2008, 1-6.	1.8	6
59	Facile Synthesis, Characterization, and Cytotoxic Activity of Europium-Doped Nanohydroxyapatite. Bioinorganic Chemistry and Applications, 2016, 2016, 1-10.	4.1	6
60	Synthesis, characterization, and toxicity of hollow gold nanoshells. Journal of Nanoparticle Research, 2018, 20, 1.	1.9	6
61	Structural Effects of Heat-Treated Silica Xerogel Induced by Incorporation of Chlorophyll Species. Research Letters in Materials Science, 2007, 2007, 1-5.	0.2	5
62	Detection of Genes Related to Resistance to Silver Nanoparticles in Bacteria from Secondary Endodontic Infections. Journal of Nanomaterials, 2019, 2019, 1-7.	2.7	5
63	Structural Study of Silica Xerogel Composites Containing Pd Aggregates. Journal of Sol-Gel Science and Technology, 2005, 35, 5-11.	2.4	4
64	Assessment of mezcal aging combining Raman spectroscopy and multivariate analysis techniques. Biomedical Spectroscopy and Imaging, 2017, 6, 75-81.	1.2	4
65	Waterborne Antifouling Paints Containing Nanometric Copper and Silver against Marine Bacillus Species. Bioinorganic Chemistry and Applications, 2022, 2022, 1-14.	4.1	4
66	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.	2.7	3
67	Proteomic analysis of an Enterococcus faecalis mutant generated against the exposure to silver nanoparticles. Journal of Applied Microbiology, 2022, 132, 244-255.	3.1	3
68	Atmospheric Corrosion, Antibacterial Properties, and Toxicity of Silver Nanoparticles Synthesized by Two Different Routes. Bioinorganic Chemistry and Applications, 2020, 2020, 1-14.	4.1	2
69	Feasibility for Non Invasive Estimation of Glucose Concentration in Newborns Using NIR Spectroscopy and PLS. AIP Conference Proceedings, 2006, , .	0.4	1
70	Grain size reduction effect of barium titanate embedded in silica xerogel. Materials Letters, 2008, 62, 2947-2949.	2.6	1
71	Recycling of copper-adsorbed titanate nanotubes (TNTs) for photocatalytic hydrogen production. Separation Science and Technology, 2021, 56, 1672-1686.	2.5	1
72	Reusability in visible light of titanate nanotubes for the removal of organic pollutants: role of calcination temperature. Environmental Technology (United Kingdom), 2021, , 1-18.	2.2	1

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73	GRAPHENE OXIDE AND REDUCED GRAPHENE OXIDE NANOCOMPOSITES GRAFTED WITH HOLLOW GOLD NANOSHELLS AS PHOTOTHERMAL AGENTS. Journal of Composite Materials, 0, , 002199832210739.	2.4	1
74	Aggregation Study of Ag-TiO₂ Composites. Materials Sciences and Applications, 2011, 02, 1719-1723.	0.4	0
75	Regeneration of titanate nanotubes by Aspergillus niger and Penicillium sp. under static conditions. Journal of Material Cycles and Waste Management, 2020, 22, 986-995.	3.0	0
76	LONG-TERM field study of a Waterborne paint with a nano-additive for biodeterioration control. Journal of Building Engineering, 2022, 50, 104148.	3.4	0