MartÃ-n F Desimone

List of Publications by Year
in descending order

108	2,608	172457	233421
papers	citations	29 h-index	45 g-index

111	111	111	3151
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Green Synthesis Method to Tune the Morphology of CuO and ZnO Nanostructures. Current Nanoscience, 2023, 19, 186-193.	1.2	3
2	Green Synthesis: A Land of Complex Nanostructures. Current Pharmaceutical Biotechnology, 2023, 24, 3-22.	1.6	2
3	Dodecenylsuccinic anhydride modified chitosan hydrogels for the sustained delivery of hydrophobic drugs. The case of thymol buccal delivery. Journal of Applied Polymer Science, 2022, 139, 51432.	2.6	6
4	A <scp>collagenâ€silicaâ€</scp>based biocomposite for potential application in bone tissue engineering. Journal of Biomedical Materials Research - Part A, 2022, 110, 331-340.	4.0	14
5	Management of nanomaterial wastes. , 2022, , 125-144.		3
6	Therapeutic applications. , 2022, , 623-659.		0
7	Recent Advances in Synthetic and Natural Biomaterialsâ€Based Therapy for Bone Defects. Macromolecular Bioscience, 2022, 22, e2100383.	4.1	14
8	The 3D Bioprinted Scaffolds for Wound Healing. Pharmaceutics, 2022, 14, 464.	4.5	35
9	Bioinspired NiO Nanospheres: Exploring In Vitro Toxicity Using Bm-17 and L. rohita Liver Cells, DNA Degradation, Docking, and Proposed Vacuolization Mechanism. ACS Omega, 2022, 7, 6869-6884.	3.5	33
10	Building the Bridge From Aquatic Nanotoxicology to Safety by Design Silver Nanoparticles. Frontiers in Bioengineering and Biotechnology, 2022, 10, 836742.	4.1	7
11	Investigation of structural, optical, magnetic, and dielectric properties of calcium hexaferrite synthesized in presence of Azadirachta indica and Murraya koenigii leaves extract. Ceramics International, 2022, 48, 20134-20145.	4.8	11
12	Can nanomaterials support the diagnosis and treatment of human infertility? A preliminary review. Life Sciences, 2022, 299, 120539.	4.3	11
13	Immunotherapeutic nanoparticles: From autoimmune disease control to the development of vaccines. , 2022, 135, 212726.		12
14	Progress in Gelatin as Biomaterial for Tissue Engineering. Pharmaceutics, 2022, 14, 1177.	4.5	63
15	Computational analysis of nanofluids-based drug delivery system: Preparation, current development and applications of nanofluids. , 2022, , 335-364.		2
16	Biosynthesized Î´-Bi₂O₃ Nanoparticles from Crinum viviparum Flower Extract for Photocatalytic Dye Degradation and Molecular Docking. ACS Omega, 2022, 7, 20983-20993.	3.5	24
17	Controlled Bioactive Delivery Using Degradable Electroactive Polymers. Biomacromolecules, 2022, 23, 3031-3040.	5.4	6
18	Building nanomaterials with microbial factories. , 2022, , 1-39.		1

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19	Baicalein-modified hydroxyapatite nanoparticles and coatings with antibacterial and antioxidant properties. Materials Science and Engineering C, 2021, 118, 111537.	7.3	47
20	Tuning the antimicrobial activity of collagen biomaterials through a liposomal approach. Journal of Applied Polymer Science, 2021, 138, 50330.	2.6	14
21	Determination of Antibacterial Activity of Film Coatings against Four Clinically Relevant Bacterial Strains. Bio-protocol, 2021, 11, e3887.	0.4	3
22	Mitigation of silver nanoparticle toxicity by humic acids in gills of Piaractus mesopotamicus fish. Environmental Science and Pollution Research, 2021, 28, 31659-31669.	5.3	18
23	N-acetylcysteine delivery with silica nanoparticles into 3T3-L1 adipocytes. Therapeutic Delivery, 2021, 12, 287-296.	2.2	3
24	Dual-effect coreâ€“shell polyphenol coated silver nanoparticles for tissue engineering. Nano Structures Nano Objects, 2021, 26, 100716.	3.5	15
25	Alterations in oxygen metabolism are associated to lung toxicity triggered by silver nanoparticles exposure. Free Radical Biology and Medicine, 2021, 166, 324-336.	2.9	16
26	Nanosilver and Silver Nitrate Toxicity in Ex Vivo-Exposed Gills of Fish and Mitigation by Humic Acids. Bulletin of Environmental Contamination and Toxicology, 2021, 107, 421-426.	2.7	8
27	Synthesis, Characterization, and Applications of Green Synthesized Nanomaterials (Part 1). Current Pharmaceutical Biotechnology, 2021, 22, 722-723.	1.6	3
28	A Survey on Analytical Methods for the Characterization of Green Synthesized Nanomaterials. Current Pharmaceutical Biotechnology, 2021, 22, 823-847.	1.6	12
29	Nanodelivery of the Gramicidin Peptide for Enhancing Antimicrobial Activity. European Journal of Lipid Science and Technology, 2021, 123, 2000389.	1.5	3
30	Surface chemistry modification of silica nanoparticles alters the activation of monocytes. Therapeutic Delivery, 2021, 12, 443-459.	2.2	11
31	Biogenic Synthesis and Applications of Nanomaterials (Part II). Current Pharmaceutical Biotechnology, 2021, 22, 1684-1685.	1.6	1
32	Bioinspired Reduced Graphene Oxide Based Nanohybrids for Photocatalysis and Antibacterial Applications. Current Pharmaceutical Biotechnology, 2021, 22, 1759-1781.	1.6	19
33	Ecotoxicity of silica nanoparticles in aquatic organisms: An updated review. Environmental Toxicology and Pharmacology, 2021, 87, 103689.	4.0	29
34	Oxidative metabolism in the cardiorespiratory system after an acute exposure to nickel-doped nanoparticles in mice. Toxicology, 2021, 464, 153020.	4.2	1
35	Collagen Hydrogels Loaded with Silver Nanoparticles and Cannabis Sativa Oil. Antibiotics, 2021, 10, 1420.	3.7	23
36	Stimuli-Responsive Materials for Tissue Engineering and Drug Delivery. International Journal of Molecular Sciences, 2020, 21, 4724.	4.1	111

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37	Recent Advances in Micro-Electro-Mechanical Devices for Controlled Drug Release Applications. Frontiers in Bioengineering and Biotechnology, 2020, 8, 827.	4.1	31
38	Electroactive Silk Fibroin Films for Electrochemically Enhanced Delivery of Drugs. Macromolecular Materials and Engineering, 2020, 305, 2000130.	3.6	14
39	Physicochemical and biological characterization of nanovenoms, a new tool formed by silica nanoparticles and Crotalus durissus terrificus venom. Colloids and Surfaces B: Biointerfaces, 2020, 193, 111128.	5.0	14
40	Toxicity evaluation of nanocrystalline silver-impregnated coated dressing on the life cycle of worm Caenorhabditis elegans. Ecotoxicology and Environmental Safety, 2020, 197, 110570.	6.0	12
41	Silicified collagen materials: Modulation of the in vitro and in vivo response. Materials Science and Engineering C, 2019, 99, 47-56.	7.3	8
42	Microspheres/Custardâ€Apples Copper (II) Chelate Polymer: Characterization, Docking, Antioxidant and Antibacterial Assay. ChemistrySelect, 2019, 4, 6233-6244.	1.5	21
43	Dodecenylsuccinic anhydride modified collagen hydrogels loaded with simvastatin as skin wound dressings. Journal of Biomedical Materials Research - Part A, 2019, 107, 1999-2012.	4.0	18
44	Transforming an inert nanopolymer into broad-spectrum bactericidal by superstructure tuning. Colloids and Surfaces B: Biointerfaces, 2019, 178, 214-221.	5.0	6
45	Exposure to a nanosilver-enabled consumer product results in similar accumulation and toxicity of silver nanoparticles in the marine mussel Mytilus galloprovincialis. Aquatic Toxicology, 2019, 211, 46-56.	4.0	51
46	Immobilized Enzymes and Their Applications. , 2019, , 169-200.		18
47	Fate and Effects of Nanomaterials. Current Pharmaceutical Design, 2019, 25, 3903-3904.	1.9	6
48	Preliminary Evaluation of Median Lethal Concentrations of StÃ¶ber Silica Particles with Various Sizes and Surface Functionalities Towards Fibroblast Cells. Silicon, 2019, 11, 2307-2312.	3.3	4
49	Nanoparticles and Immune Cells. Current Pharmaceutical Design, 2019, 25, 3960-3982.	1.9	12
50	Development of Silver Nanoparticles/Gelatin Thermoresponsive Nanocomposites: Characterization and Antimicrobial Activity. Current Pharmaceutical Design, 2019, 25, 4121-4129.	1.9	14
51	Riboflavin-UVA gelatin crosslinking: DesignÂof a biocompatible and thermo-responsive biomaterial with enhanced mechanical properties for tissue engineering. Advanced Materials Letters, 2019, 10, 324-328.	0.6	6
52	Nanosilver toxicity in gills of a neotropical fish: Metal accumulation, oxidative stress, histopathology and other physiological effects. Ecotoxicology and Environmental Safety, 2018, 148, 976-984.	6.0	60
53	Copper-induced cell death and the protective role of glutathione: the implication of impaired protein folding rather than oxidative stress. Metallomics, 2018, 10, 1743-1754.	2.4	65
54	Collagen-silica nanocomposites as dermal dressings preventing infection in vivo. Materials Science and Engineering C, 2018, 93, 170-177.	7.3	43

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55	Development of pH-responsive biopolymer-silica composites loaded with Larrea divaricata Cav. extract with antioxidant activity. Colloids and Surfaces B: Biointerfaces, 2018, 169, 82-91.	5.0	26
56	Genotoxicity and oxidative stress in fish after a short-term exposure to silver nanoparticles. Ecological Indicators, 2017, 76, 230-239.	6.3	79
57	Antibiofilm effect of supramolecularly templated mesoporous silica coatings. Materials Science and Engineering C, 2017, 77, 1044-1049.	7.3	15
58	Development and evaluation of thymol-chitosan hydrogels with antimicrobial-antioxidant activity for oral local delivery. Materials Science and Engineering C, 2017, 81, 588-596.	7.3	67
59	Nanoengineered silica: Properties, applications and toxicity. Food and Chemical Toxicology, 2017, 109, 753-770.	3.6	135
60	Evidence of size-dependent effect of silica micro- and nano-particles on basal and specialized monocyte functions. Therapeutic Delivery, 2017, 8, 1035-1049.	2.2	17
61	Editorial: Recent Advances and Innovative Strategies Applied in the Development of Biomaterials. Current Pharmaceutical Design, 2017, 23, 3453-3454.	1.9	2
62	3D In Vitro Models of Early Pregnancy: How to Choose the Right Scaffolding Material?. Current Pharmaceutical Design, 2017, 23, 3603-3613.	1.9	4
63	Editorial (Thematic Issue: Special Issue in Memory of Prof. Dr. Luis Eduardo Diaz: Current Topics in) Tj ETQq1 1 0.784314 rgBT /Overlo	1.6	0
64	Surface chemistry of nanobiomaterials with antimicrobial activity**In memoriam of Professor Dr. Luis Diaz.. , 2016, , 135-162.		10
65	Nanoparticles and capillary electrophoresis: A marriage with environmental impact. Electrophoresis, 2016, 37, 2196-2207.	2.4	17
66	Silica coreâ€“shell particles for the dual delivery of gentamicin and rifamycin antibiotics. Journal of Materials Chemistry B, 2016, 4, 3135-3144.	5.8	49
67	Advances in collagen, chitosan and silica biomaterials for oral tissue regeneration: from basics to clinical trials. Journal of Materials Chemistry B, 2016, 4, 6913-6929.	5.8	29
68	Optically transparent silver-loaded mesoporous thin film coating with long-lasting antibacterial activity. Microporous and Mesoporous Materials, 2016, 236, 158-166.	4.4	32
69	Role of transition metals present in air particulate matter on lung oxygen metabolism. International Journal of Biochemistry and Cell Biology, 2016, 81, 419-426.	2.8	21
70	Nanotoxicological Effects of SiO₂ Nanoparticles on Spodoptera frugiperda Sf9 Cells. Current Pharmaceutical Biotechnology, 2016, 17, 465-470.	1.6	25
71	Antimicrobial Surfaces from Incorporated Nano-agents. Current Bionanotechnology, 2016, 1, 125-134.	0.6	3
72	Innovative Immobilization Matrices. Current Pharmaceutical Biotechnology, 2016, 17, 439-448.	1.6	0

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73	Editorial (Thematic Issue: â€œPharmaceutical Biotechnology for Tissue Repairâ€). Current Pharmaceutical Biotechnology, 2015, 16, 580-581.	1.6	2
74	Dyeâ€“collagen interactions. Mechanism, kinetic and thermodynamic analysis. RSC Advances, 2015, 5, 57395-57405.	3.6	13
75	Recent Advances in Biomaterials for Tissue Engineering and Controlled Drug Delivery. Current Pharmaceutical Biotechnology, 2015, 16, 635-645.	1.6	30
76	Synthesis and Characterization of Ibandronate-Loaded Silica Nanoparticles and Collagen Nanocomposites. Current Pharmaceutical Biotechnology, 2015, 16, 661-667.	1.6	12
77	Sol-gel Encapsulation of Biomolecules and Cells for Medicinal Applications. Current Topics in Medicinal Chemistry, 2015, 15, 223-244.	2.1	52
78	Removal of azo dyes from water by solâ€“gel immobilized Pseudomonas sp.. Journal of Environmental Chemical Engineering, 2014, 2, 131-136.	6.7	36
79	Antibiotic-loaded silica nanoparticleâ€“collagen composite hydrogels with prolonged antimicrobial activity for wound infection prevention. Journal of Materials Chemistry B, 2014, 2, 4660.	5.8	152
80	Zoledronate and Related Impurities Analysis by Capillary Zone Electrophoresis. Current Analytical Chemistry, 2014, 10, 231-234.	1.2	2
81	A new method for the preparation of biocompatible silica coated-collagen hydrogels. Journal of Materials Chemistry B, 2013, 1, 6283.	5.8	27
82	Controlled adhesion and proliferation of a human osteoblastic cell line by tuning the nanoporosity of titania and silica coatings. Biomaterials Science, 2013, 1, 186-189.	5.4	22
83	Bio-inspired silicaâ€“collagen materials: applications and perspectives in the medical field. Biomaterials Science, 2013, 1, 688.	5.4	82
84	Preparation of submicrometer monodispersed magnetic silica particles using a novel water in oil microemulsion: properties and application for enzyme immobilization. Biotechnology Letters, 2013, 35, 1571-1577.	2.2	10
85	Controlling the Interaction Between Cells and Silica Nanoparticles. Journal of Biomaterials and Tissue Engineering, 2013, 3, 108-121.	0.1	16
86	Solâ€“gel immobilized ovarian follicles: collaboration between two different cell types in hormone production and secretion. Journal of Materials Chemistry, 2012, 22, 11681.	6.7	13
87	Influence of Silicification on the Structural and Biological Properties of Bufferâ€Mediated Collagen Hydrogels. Advanced Engineering Materials, 2012, 14, B51.	3.5	9
88	In vitro Studies and Preliminary In vivo Evaluation of Silicified Concentrated Collagen Hydrogels. ACS Applied Materials & Interfaces, 2011, 3, 3831-3838.	8.0	49
89	A functional material that combines the Cr(vi) reduction activity of Burkholderia sp. with the adsorbent capacity of solâ€“gel materials. Journal of Materials Chemistry, 2011, 21, 6359.	6.7	38
90	Production of monoclonal antibodies from hybridoma cells immobilized in 3D solâ€“gel silica matrices. Journal of Materials Chemistry, 2011, 21, 13865.	6.7	12

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91	Recent Patents on the Synthesis and Application of Silica Nanoparticles for Drug Delivery. Recent Patents on Biotechnology, 2011, 5, 54-61.	0.8	24
92	Silicaâ€“collagen bionanocomposites as three-dimensional scaffolds for fibroblast immobilization. Acta Biomaterialia, 2010, 6, 3998-4004.	8.3	94
93	Fibroblast encapsulation in hybrid silicaâ€“collagen hydrogels. Journal of Materials Chemistry, 2010, 20, 666-668.	6.7	62
94	Effect of various parameters on viability and growth of bacteria immobilized in solâ€“gel-derived silica matrices. Applied Microbiology and Biotechnology, 2009, 82, 639-646.	3.6	46
95	Development of Sol-Gel Hybrid Materials for Whole Cell Immobilization. Recent Patents on Biotechnology, 2009, 3, 55-60.	0.8	28
96	Proving the antimicrobial spectrum of an amphoteric surfactant-sol-gel coating: a food-borne pathogen study. Journal of Industrial Microbiology and Biotechnology, 2008, 35, 1041-1046.	3.0	12
97	Effects of relative humidity on enzyme activity immobilized in solâ€“gel-derived silica nanocomposites. Enzyme and Microbial Technology, 2008, 42, 583-588.	3.2	24
98	Antibody detection employing solâ€“gel immobilized parasites. Journal of Immunological Methods, 2008, 335, 65-70.	1.4	10
99	Validation of a capillary electrophoresis method for the analysis of ibandronate related impurities. Journal of Pharmaceutical and Biomedical Analysis, 2007, 44, 305-308.	2.8	16
100	Immobilization of bacteria in silica matrices using citric acid in the solâ€“gel process. Applied Microbiology and Biotechnology, 2007, 73, 1059-1064.	3.6	27
101	Production of recombinant proteins by solâ€“gel immobilized Escherichia coli. Enzyme and Microbial Technology, 2006, 40, 168-171.	3.2	23
102	Analysis of diphenylamine and impurities using monolithic column with electrochemical detection. Journal of Analytical Chemistry, 2006, 61, 588-591.	0.9	6
103	Antimicrobial activity on glass materials subject to disinfectant xerogel coating. Journal of Industrial Microbiology and Biotechnology, 2006, 33, 343-348.	3.0	33
104	Efficient preservation in a silicon oxide matrix of Escherichia coli, producer of recombinant proteins. Applied Microbiology and Biotechnology, 2005, 68, 747-752.	3.6	34
105	A study on the effectiveness of a stress management programme for College students. Pharmacy Education, 2005, 5, 27-31.	0.6	6
106	Plasmatic antioxidant capacity due to ascorbate using TEMPO scavenging and electron spin resonance. Clinica Chimica Acta, 2005, 359, 78-88.	1.1	10
107	Sol-gel immobilisation of Saccharomyces cerevisiae enhances viability in organic media. Biotechnology Letters, 2003, 25, 671-674.	2.2	23
108	Ethanol tolerance in free and sol-gel immobilised Saccharomyces cerevisiae. Biotechnology Letters, 2002, 24, 1557-1559.	2.2	34