

# MartÃ-n F Desimone

## List of Publications by Year in descending order

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108  
papers

2,608  
citations

172457

29  
h-index

233421

45  
g-index

111  
all docs

111  
docs citations

111  
times ranked

3151  
citing authors

#	ARTICLE	IF	CITATIONS
1	Antibiotic-loaded silica nanoparticle-collagen composite hydrogels with prolonged antimicrobial activity for wound infection prevention. <i>Journal of Materials Chemistry B</i> , 2014, 2, 4660.	5.8	152
2	Nanoengineered silica: Properties, applications and toxicity. <i>Food and Chemical Toxicology</i> , 2017, 109, 753-770.	3.6	135
3	Stimuli-Responsive Materials for Tissue Engineering and Drug Delivery. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4724.	4.1	111
4	Silica-collagen bionanocomposites as three-dimensional scaffolds for fibroblast immobilization. <i>Acta Biomaterialia</i> , 2010, 6, 3998-4004.	8.3	94
5	Bio-inspired silica-collagen materials: applications and perspectives in the medical field. <i>Biomaterials Science</i> , 2013, 1, 688.	5.4	82
6	Genotoxicity and oxidative stress in fish after a short-term exposure to silver nanoparticles. <i>Ecological Indicators</i> , 2017, 76, 230-239.	6.3	79
7	Development and evaluation of thymol-chitosan hydrogels with antimicrobial-antioxidant activity for oral local delivery. <i>Materials Science and Engineering C</i> , 2017, 81, 588-596.	7.3	67
8	Copper-induced cell death and the protective role of glutathione: the implication of impaired protein folding rather than oxidative stress. <i>Metallomics</i> , 2018, 10, 1743-1754.	2.4	65
9	Progress in Gelatin as Biomaterial for Tissue Engineering. <i>Pharmaceutics</i> , 2022, 14, 1177.	4.5	63
10	Fibroblast encapsulation in hybrid silica-collagen hydrogels. <i>Journal of Materials Chemistry</i> , 2010, 20, 666-668.	6.7	62
11	Nanosilver toxicity in gills of a neotropical fish: Metal accumulation, oxidative stress, histopathology and other physiological effects. <i>Ecotoxicology and Environmental Safety</i> , 2018, 148, 976-984.	6.0	60
12	Sol-gel Encapsulation of Biomolecules and Cells for Medicinal Applications. <i>Current Topics in Medicinal Chemistry</i> , 2015, 15, 223-244.	2.1	52
13	Exposure to a nanosilver-enabled consumer product results in similar accumulation and toxicity of silver nanoparticles in the marine mussel <i>Mytilus galloprovincialis</i> . <i>Aquatic Toxicology</i> , 2019, 211, 46-56.	4.0	51
14	In vitro Studies and Preliminary In vivo Evaluation of Silicified Concentrated Collagen Hydrogels. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 3831-3838.	8.0	49
15	Silica core-shell particles for the dual delivery of gentamicin and rifamycin antibiotics. <i>Journal of Materials Chemistry B</i> , 2016, 4, 3135-3144.	5.8	49
16	Baicalein-modified hydroxyapatite nanoparticles and coatings with antibacterial and antioxidant properties. <i>Materials Science and Engineering C</i> , 2021, 118, 111537.	7.3	47
17	Effect of various parameters on viability and growth of bacteria immobilized in sol-gel-derived silica matrices. <i>Applied Microbiology and Biotechnology</i> , 2009, 82, 639-646.	3.6	46
18	Collagen-silica nanocomposites as dermal dressings preventing infection in vivo. <i>Materials Science and Engineering C</i> , 2018, 93, 170-177.	7.3	43

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19	A functional material that combines the Cr(vi) reduction activity of <i>Burkholderia</i> sp. with the adsorbent capacity of sol-gel materials. <i>Journal of Materials Chemistry</i> , 2011, 21, 6359.	6.7	38
20	Removal of azo dyes from water by sol-gel immobilized <i>Pseudomonas</i> sp.. <i>Journal of Environmental Chemical Engineering</i> , 2014, 2, 131-136.	6.7	36
21	The 3D Bioprinted Scaffolds for Wound Healing. <i>Pharmaceutics</i> , 2022, 14, 464.	4.5	35
22	Ethanol tolerance in free and sol-gel immobilised <i>Saccharomyces cerevisiae</i> . <i>Biotechnology Letters</i> , 2002, 24, 1557-1559.	2.2	34
23	Efficient preservation in a silicon oxide matrix of <i>Escherichia coli</i> , producer of recombinant proteins. <i>Applied Microbiology and Biotechnology</i> , 2005, 68, 747-752.	3.6	34
24	Antimicrobial activity on glass materials subject to disinfectant xerogel coating. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2006, 33, 343-348.	3.0	33
25	Bioinspired NiO Nanospheres: Exploring <i>In Vitro</i> Toxicity Using Bm-17 and <i>L. rohita</i> Liver Cells, DNA Degradation, Docking, and Proposed Vacuolization Mechanism. <i>ACS Omega</i> , 2022, 7, 6869-6884.	3.5	33
26	Optically transparent silver-loaded mesoporous thin film coating with long-lasting antibacterial activity. <i>Microporous and Mesoporous Materials</i> , 2016, 236, 158-166.	4.4	32
27	Recent Advances in Micro-Electro-Mechanical Devices for Controlled Drug Release Applications. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 827.	4.1	31
28	Recent Advances in Biomaterials for Tissue Engineering and Controlled Drug Delivery. <i>Current Pharmaceutical Biotechnology</i> , 2015, 16, 635-645.	1.6	30
29	Advances in collagen, chitosan and silica biomaterials for oral tissue regeneration: from basics to clinical trials. <i>Journal of Materials Chemistry B</i> , 2016, 4, 6913-6929.	5.8	29
30	Ecotoxicity of silica nanoparticles in aquatic organisms: An updated review. <i>Environmental Toxicology and Pharmacology</i> , 2021, 87, 103689.	4.0	29
31	Development of Sol-Gel Hybrid Materials for Whole Cell Immobilization. <i>Recent Patents on Biotechnology</i> , 2009, 3, 55-60.	0.8	28
32	Immobilization of bacteria in silica matrices using citric acid in the sol-gel process. <i>Applied Microbiology and Biotechnology</i> , 2007, 73, 1059-1064.	3.6	27
33	A new method for the preparation of biocompatible silica coated-collagen hydrogels. <i>Journal of Materials Chemistry B</i> , 2013, 1, 6283.	5.8	27
34	Development of pH-responsive biopolymer-silica composites loaded with <i>Larrea divaricata</i> Cav. extract with antioxidant activity. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 169, 82-91.	5.0	26
35	Nanotoxicological Effects of SiO <sub>2</sub> Nanoparticles on <i>Spodoptera frugiperda</i> Sf9 Cells. <i>Current Pharmaceutical Biotechnology</i> , 2016, 17, 465-470.	1.6	25
36	Effects of relative humidity on enzyme activity immobilized in sol-gel-derived silica nanocomposites. <i>Enzyme and Microbial Technology</i> , 2008, 42, 583-588.	3.2	24

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37	Recent Patents on the Synthesis and Application of Silica Nanoparticles for Drug Delivery. Recent Patents on Biotechnology, 2011, 5, 54-61.	0.8	24
38	Biosynthesized $\text{Bi}_2\text{O}_3$ Nanoparticles from <i>Crinum viviparum</i> Flower Extract for Photocatalytic Dye Degradation and Molecular Docking. ACS Omega, 2022, 7, 20983-20993.	3.5	24
39	Sol-gel immobilisation of <i>Saccharomyces cerevisiae</i> enhances viability in organic media. Biotechnology Letters, 2003, 25, 671-674.	2.2	23
40	Production of recombinant proteins by sol-gel immobilized <i>Escherichia coli</i> . Enzyme and Microbial Technology, 2006, 40, 168-171.	3.2	23
41	Collagen Hydrogels Loaded with Silver Nanoparticles and Cannabis Sativa Oil. Antibiotics, 2021, 10, 1420.	3.7	23
42	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
43	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
44	Microspheres/Custard Apples Copper (II) Chelate Polymer: Characterization, Docking, Antioxidant and Antibacterial Assay. ChemistrySelect, 2019, 4, 6233-6244.	1.5	21
45	Bioinspired Reduced Graphene Oxide Based Nanohybrids for Photocatalysis and Antibacterial Applications. Current Pharmaceutical Biotechnology, 2021, 22, 1759-1781.	1.6	19
46	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
47	Immobilized Enzymes and Their Applications. , 2019, , 169-200.		18
48	Mitigation of silver nanoparticle toxicity by humic acids in gills of <i>Piaractus mesopotamicus</i> fish. Environmental Science and Pollution Research, 2021, 28, 31659-31669.	5.3	18
49	Nanoparticles and capillary electrophoresis: A marriage with environmental impact. Electrophoresis, 2016, 37, 2196-2207.	2.4	17
50	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
51	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
52	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
53	Controlling the Interaction Between Cells and Silica Nanoparticles. Journal of Biomaterials and Tissue Engineering, 2013, 3, 108-121.	0.1	16
54	Antibiofilm effect of supramolecularly templated mesoporous silica coatings. Materials Science and Engineering C, 2017, 77, 1044-1049.	7.3	15

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55	Dual-effect core-shell polyphenol coated silver nanoparticles for tissue engineering. <i>Nano Structures Nano Objects</i> , 2021, 26, 100716.	3.5	15
56	Electroactive Silk Fibroin Films for Electrochemically Enhanced Delivery of Drugs. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 2000130.	3.6	14
57	Physicochemical and biological characterization of nanovenoms, a new tool formed by silica nanoparticles and <i>Crotalus durissus terrificus</i> venom. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 193, 111128.	5.0	14
58	Tuning the antimicrobial activity of collagen biomaterials through a liposomal approach. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50330.	2.6	14
59	A collagen-silica based biocomposite for potential application in bone tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2022, 110, 331-340.	4.0	14
60	Development of Silver Nanoparticles/Gelatin Thermoresponsive Nanocomposites: Characterization and Antimicrobial Activity. <i>Current Pharmaceutical Design</i> , 2019, 25, 4121-4129.	1.9	14
61	Recent Advances in Synthetic and Natural Biomaterials-Based Therapy for Bone Defects. <i>Macromolecular Bioscience</i> , 2022, 22, e2100383.	4.1	14
62	Sol-gel immobilized ovarian follicles: collaboration between two different cell types in hormone production and secretion. <i>Journal of Materials Chemistry</i> , 2012, 22, 11681.	6.7	13
63	Dye-collagen interactions. Mechanism, kinetic and thermodynamic analysis. <i>RSC Advances</i> , 2015, 5, 57395-57405.	3.6	13
64	Proving the antimicrobial spectrum of an amphoteric surfactant-sol-gel coating: a food-borne pathogen study. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2008, 35, 1041-1046.	3.0	12
65	Production of monoclonal antibodies from hybridoma cells immobilized in 3D sol-gel silica matrices. <i>Journal of Materials Chemistry</i> , 2011, 21, 13865.	6.7	12
66	Toxicity evaluation of nanocrystalline silver-impregnated coated dressing on the life cycle of worm <i>Caenorhabditis elegans</i> . <i>Ecotoxicology and Environmental Safety</i> , 2020, 197, 110570.	6.0	12
67	A Survey on Analytical Methods for the Characterization of Green Synthesized Nanomaterials. <i>Current Pharmaceutical Biotechnology</i> , 2021, 22, 823-847.	1.6	12
68	Nanoparticles and Immune Cells. <i>Current Pharmaceutical Design</i> , 2019, 25, 3960-3982.	1.9	12
69	Synthesis and Characterization of Ibandronate-Loaded Silica Nanoparticles and Collagen Nanocomposites. <i>Current Pharmaceutical Biotechnology</i> , 2015, 16, 661-667.	1.6	12
70	Immunotherapeutic nanoparticles: From autoimmune disease control to the development of vaccines. <i>Journal of Materials Chemistry B</i> , 2022, 135, 212726.		12
71	Surface chemistry modification of silica nanoparticles alters the activation of monocytes. <i>Therapeutic Delivery</i> , 2021, 12, 443-459.	2.2	11
72	Investigation of structural, optical, magnetic, and dielectric properties of calcium hexaferrite synthesized in presence of <i>Azadirachta indica</i> and <i>Murraya koenigii</i> leaves extract. <i>Ceramics International</i> , 2022, 48, 20134-20145.	4.8	11

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73	Can nanomaterials support the diagnosis and treatment of human infertility? A preliminary review. <i>Life Sciences</i> , 2022, 299, 120539.	4.3	11
74	Plasmatic antioxidant capacity due to ascorbate using TEMPO scavenging and electron spin resonance. <i>Clinica Chimica Acta</i> , 2005, 359, 78-88.	1.1	10
75	Antibody detection employing sol-gel immobilized parasites. <i>Journal of Immunological Methods</i> , 2008, 335, 65-70.	1.4	10
76	Preparation of submicrometer monodispersed magnetic silica particles using a novel water in oil microemulsion: properties and application for enzyme immobilization. <i>Biotechnology Letters</i> , 2013, 35, 1571-1577.	2.2	10
77	Surface chemistry of nanobiomaterials with antimicrobial activity**In memoriam of Professor Dr. Luis Diaz., 2016, , 135-162.		10
78	Influence of Silicification on the Structural and Biological Properties of Buffer-Mediated Collagen Hydrogels. <i>Advanced Engineering Materials</i> , 2012, 14, B51.	3.5	9
79	Silicified collagen materials: Modulation of the in vitro and in vivo response. <i>Materials Science and Engineering C</i> , 2019, 99, 47-56.	7.3	8
80	Nanosilver and Silver Nitrate Toxicity in Ex Vivo-Exposed Gills of Fish and Mitigation by Humic Acids. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2021, 107, 421-426.	2.7	8
81	Building the Bridge From Aquatic Nanotoxicology to Safety by Design Silver Nanoparticles. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 836742.	4.1	7
82	A study on the effectiveness of a stress management programme for College students. <i>Pharmacy Education</i> , 2005, 5, 27-31.	0.6	6
83	Analysis of diphenylamine and impurities using monolithic column with electrochemical detection. <i>Journal of Analytical Chemistry</i> , 2006, 61, 588-591.	0.9	6
84	Transforming an inert nanopolymer into broad-spectrum bactericidal by superstructure tuning. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 178, 214-221.	5.0	6
85	Fate and Effects of Nanomaterials. <i>Current Pharmaceutical Design</i> , 2019, 25, 3903-3904.	1.9	6
86	Dodecenylsuccinic anhydride modified chitosan hydrogels for the sustained delivery of hydrophobic drugs. The case of thymol buccal delivery. <i>Journal of Applied Polymer Science</i> , 2022, 139, 51432.	2.6	6
87	Riboflavin-UVA gelatin crosslinking: Design of a biocompatible and thermo-responsive biomaterial with enhanced mechanical properties for tissue engineering. <i>Advanced Materials Letters</i> , 2019, 10, 324-328.	0.6	6
88	Controlled Bioactive Delivery Using Degradable Electroactive Polymers. <i>Biomacromolecules</i> , 2022, 23, 3031-3040.	5.4	6
89	Preliminary Evaluation of Median Lethal Concentrations of Stober Silica Particles with Various Sizes and Surface Functionalities Towards Fibroblast Cells. <i>Silicon</i> , 2019, 11, 2307-2312.	3.3	4
90	3D In Vitro Models of Early Pregnancy: How to Choose the Right Scaffolding Material?. <i>Current Pharmaceutical Design</i> , 2017, 23, 3603-3613.	1.9	4

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91	Determination of Antibacterial Activity of Film Coatings against Four Clinically Relevant Bacterial Strains. <i>Bio-protocol</i> , 2021, 11, e3887.	0.4	3
92	N-acetylcysteine delivery with silica nanoparticles into 3T3-L1 adipocytes. <i>Therapeutic Delivery</i> , 2021, 12, 287-296.	2.2	3
93	Synthesis, Characterization, and Applications of Green Synthesized Nanomaterials (Part 1). <i>Current Pharmaceutical Biotechnology</i> , 2021, 22, 722-723.	1.6	3
94	Nanodelivery of the Gramicidin Peptide for Enhancing Antimicrobial Activity. <i>European Journal of Lipid Science and Technology</i> , 2021, 123, 2000389.	1.5	3
95	A Green Synthesis Method to Tune the Morphology of CuO and ZnO Nanostructures. <i>Current Nanoscience</i> , 2023, 19, 186-193.	1.2	3
96	Antimicrobial Surfaces from Incorporated Nano-agents. <i>Current Bionanotechnology</i> , 2016, 1, 125-134.	0.6	3
97	Management of nanomaterial wastes. , 2022, , 125-144.		3
98	Editorial (Thematic Issue: "Pharmaceutical Biotechnology for Tissue Repair"). <i>Current Pharmaceutical Biotechnology</i> , 2015, 16, 580-581.	1.6	2
99	Editorial: Recent Advances and Innovative Strategies Applied in the Development of Biomaterials. <i>Current Pharmaceutical Design</i> , 2017, 23, 3453-3454.	1.9	2
100	Zoledronate and Related Impurities Analysis by Capillary Zone Electrophoresis. <i>Current Analytical Chemistry</i> , 2014, 10, 231-234.	1.2	2
101	Green Synthesis: A Land of Complex Nanostructures. <i>Current Pharmaceutical Biotechnology</i> , 2023, 24, 3-22.	1.6	2
102	Computational analysis of nanofluids-based drug delivery system: Preparation, current development and applications of nanofluids. , 2022, , 335-364.		2
103	Biogenic Synthesis and Applications of Nanomaterials (Part II). <i>Current Pharmaceutical Biotechnology</i> , 2021, 22, 1684-1685.	1.6	1
104	Oxidative metabolism in the cardiorespiratory system after an acute exposure to nickel-doped nanoparticles in mice. <i>Toxicology</i> , 2021, 464, 153020.	4.2	1
105	Building nanomaterials with microbial factories. , 2022, , 1-39.		1
106	Editorial (Thematic Issue: Special Issue in Memory of Prof. Dr. Luis Eduardo Diaz: Current Topics in Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	1.6	0
107	Innovative Immobilization Matrices. <i>Current Pharmaceutical Biotechnology</i> , 2016, 17, 439-448.	1.6	0
108	Therapeutic applications. , 2022, , 623-659.		0