JosÃ© Manuel Delgado LÃ²pez

List of Publications by Year
in descending order

69 papers	2,336 citations	186265 28 h-index	223800 46 g-index
70 all docs	70 docs citations	70 times ranked	2552 citing authors

#	Article	IF	Citations
1	Progress on the preparation of nanocrystalline apatites and surface characterization: Overview of fundamental and applied aspects. Progress in Crystal Growth and Characterization of Materials, 2013, 59, 1-46.	4.0	219
2	Crystallization of bioinspired citrate-functionalized nanoapatite with tailored carbonate content. Acta Biomaterialia, 2012, 8, 3491-3499.	8.3	134
3	Crystal Size, Morphology, and Growth Mechanism in Bioâ€Inspired Apatite Nanocrystals. Advanced Functional Materials, 2014, 24, 1090-1099.	14.9	93
4	Fluoride-doped amorphous calcium phosphate nanoparticles as a promising biomimetic material for dental remineralization. Scientific Reports, 2018, 8, 17016.	3.3	90
5	Engineering Biomimetic Calcium Phosphate Nanoparticles: A Green Synthesis of Slow-Release Multinutrient (NPK) Nanofertilizers. ACS Applied Bio Materials, 2020, 3, 1344-1353.	4.6	89
6	pH-Responsive Delivery of Doxorubicin from Citrateâ€“Apatite Nanocrystals with Tailored Carbonate Content. Langmuir, 2013, 29, 8213-8221.	3.5	88
7	Cell Surface Receptor Targeted Biomimetic Apatite Nanocrystals for Cancer Therapy. Small, 2013, 9, 3834-3844.	10.0	76
8	Magnetic Bioactive and Biodegradable Hollow Fe-Doped Hydroxyapatite Coated Poly(<scp>l</scp>-lactic) Acid Micro-nanospheres. Chemistry of Materials, 2013, 25, 2610-2617.	6.7	70
9	Sputtered thin-film gold electrodes for in situ ATR-SEIRAS and SERS studies. Journal of Electroanalytical Chemistry, 2008, 617, 130-140.	3.8	67
10	Crystallization of citrate-stabilized amorphous calcium phosphate to nanocrystalline apatite: a surface-mediated transformation. CrystEngComm, 2016, 18, 3170-3173.	2.6	60
11	The growth mechanism of apatite nanocrystals assisted by citrate: relevance to bone biomineralization. CrystEngComm, 2015, 17, 507-511.	2.6	58
12	In-Situ Infrared Study of the Adsorption and Oxidation of Oxalic Acid at Single-Crystal and Thin-Film Gold Electrodes:Â A Combined External Reflection Infrared and ATRâ^'SEIRAS Approach. Langmuir, 2006, 22, 7192-7202.	3.5	55
13	In Situ Observation of Step Dynamics on Gypsum Crystals. Crystal Growth and Design, 2010, 10, 3909-3916.	3.0	54
14	Spectroelectrochemical study of the adsorption of acetate anions at gold single crystal and thin-film electrodes. Electrochimica Acta, 2008, 53, 2309-2321.	5.2	53
15	Iron nanoparticles-based supramolecular hydrogels to originate anisotropic hybrid materials with enhanced mechanical strength. Materials Chemistry Frontiers, 2018, 2, 686-699.	5.9	46
16	Reducing Nitrogen Dosage in Triticum durum Plants with Urea-Doped Nanofertilizers. Nanomaterials, 2020, 10, 1043.	4.1	44
17	ATRâ^'SEIRAS Study of the Adsorption of Acetate Anions at Chemically Deposited Silver Thin Film Electrodes. Langmuir, 2005, 21, 8809-8816.	3.5	42
18	B3LYP and in Situ ATR-SEIRAS Study of the Infrared Behavior and Bonding Mode of Adsorbed Acetate Anions on Silver Thin-Film Electrodes. Journal of Physical Chemistry C, 2007, 111, 14476-14483.	3.1	42

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19	Synthesis and Preliminary in Vivo Evaluation of Well-Dispersed Biomimetic Nanocrystalline Apatites Labeled with Positron Emission Tomographic Imaging Agents. ACS Applied Materials & Interfaces, 2015, 7, 10623-10633.	8.0	42
20	Amino Acidic Control of Calcium Phosphate Precipitation by Using the Vapor Diffusion Method in Microdroplets. Crystal Growth and Design, 2011, 11, 4802-4809.	3.0	41
21	The synergic role of collagen and citrate in stabilizing amorphous calcium phosphate precursors with platy morphology. Acta Biomaterialia, 2017, 49, 555-562.	8.3	41
22	In Situ Infrared Study of the Adsorption and Surface Acidâ'Base Properties of the Anions of Dicarboxylic Acids at Gold Single Crystal and Thin-Film Electrodes. Journal of Physical Chemistry C, 2007, 111, 9943-9952.	3.1	40
23	Urea-functionalized amorphous calcium phosphate nanofertilizers: optimizing the synthetic strategy towards environmental sustainability and manufacturing costs. Scientific Reports, 2021, 11, 3419.	3.3	40
24	Towards a more sustainable viticulture: foliar application of Nâ€doped calcium phosphate nanoparticles on Tempranillo grapes. Journal of the Science of Food and Agriculture, 2021, 101, 1307-1313.	3.5	38
25	Evolution of calcium phosphate precipitation in hanging drop vapor diffusion by in situ Raman microspectroscopy. CrystEngComm, 2013, 15, 2206.	2.6	36
26	Biomimetic mineralization of recombinant collagen type I derived protein to obtain hybrid matrices for bone regeneration. Journal of Structural Biology, 2016, 196, 138-146.	2.8	33
27	Bioinspired Citrateâ€“Apatite Nanocrystals Doped with Divalent Transition Metal Ions. Crystal Growth and Design, 2016, 16, 145-153.	3.0	32
28	A comparison between chemical and sputtering methods for preparing thin-film silver electrodes for in situ ATR-SEIRAS studies. Electrochimica Acta, 2007, 52, 4605-4613.	5.2	31
29	On the surface effects of citrates on nano-apatites: evidence of a decreased hydrophilicity. Scientific Reports, 2017, 7, 8901.	3.3	29
30	Transient Calcium Carbonate Hexahydrate (Ikaite) Nucleated and Stabilized in Confined Nano- and Picovolumes. Crystal Growth and Design, 2014, 14, 792-802.	3.0	28
31	DFT and In-Situ Spectroelectrochemical Study of the Adsorption of Fluoroacetate Anions at Gold Electrodes. Journal of Physical Chemistry C, 2009, 113, 989-1000.	3.1	26
32	Monoclonal Antibody-Targeted Fluorescein-5-isothiocyanate-Labeled Biomimetic Nanoapatites: A Promising Fluorescent Probe for Imaging Applications. Langmuir, 2015, 31, 1766-1775.	3.5	26
33	The role of nanoparticle structure and morphology in the dissolution kinetics and nutrient release of nitrate-doped calcium phosphate nanofertilizers. Scientific Reports, 2020, 10, 12396.	3.3	26
34	Urea-Doped Calcium Phosphate Nanoparticles as Sustainable Nitrogen Nanofertilizers for Viticulture: Implications on Yield and Quality of Pinot Gris Grapevines. Agronomy, 2021, 11, 1026.	3.0	26
35	Catalytic and Electron Conducting Carbon Nanotubeâ€“Reinforced Lysozyme Crystals. Advanced Functional Materials, 2019, 29, 1807351.	14.9	25
36	Glycolate adsorption at gold and platinum electrodes: A theoretical and in situ spectroelectrochemical study. Electrochimica Acta, 2010, 55, 2055-2064.	5.2	23

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37	Probiotic cellulose: Antibiotic-free biomaterials with enhanced antibacterial activity. Acta Biomaterialia, 2021, 124, 244-253.	8.3	23
38	In situ infrared study of adenine adsorption on gold electrodes in acid media. Electrochimica Acta, 2012, 82, 534-542.	5.2	22
39	Highly stable luminescent europium-doped calcium phosphate nanoparticles for creatinine quantification. Colloids and Surfaces B: Biointerfaces, 2020, 196, 111337.	5.0	20
40	On the amorphous layer in bone mineral and biomimetic apatite: A combined small- and wide-angle X-ray scattering analysis. Acta Biomaterialia, 2021, 120, 167-180.	8.3	20
41	Theoretical and Spectroelectrochemical Studies on the Adsorption and Oxidation of Glyoxylate and Hydrated Glyoxylate Anions at Gold Electrodes. Journal of Physical Chemistry C, 2010, 114, 12554-12564.	3.1	19
42	Raman identification of Fe precipitates and evaluation of As fate during phase transformation in Tinto and Odiel River Basins. Chemical Geology, 2015, 398, 22-31.	3.3	19
43	Preparation of coreâ€“shell poly(l-lactic) acid-nanocrystalline apatite hollow microspheres for bone repairing applications. Journal of Materials Science: Materials in Medicine, 2012, 23, 2659-2669.	3.6	18
44	Growth Behavior of Monohydrocalcite (CaCO3Â·H2O) in Silica-Rich Alkaline Solution. Crystal Growth and Design, 2015, 15, 564-572.	3.0	17
45	Formation of calcium phosphates by vapour diffusion in highly concentrated ionic microâ€droplets. Crystal Research and Technology, 2011, 46, 841-846.	1.3	16
46	Combined Effect of Citrate and Fluoride Ions on Hydroxyapatite Nanoparticles. Crystal Growth and Design, 2020, 20, 3163-3172.	3.0	16
47	Nanoelicitors with prolonged retention and sustained release to produce beneficial compounds in wines. Environmental Science: Nano, 2021, 8, 3524-3535.	4.3	14
48	Effect of Methyl Jasmonate Doped Nanoparticles on Nitrogen Composition of Monastrell Grapes and Wines. Biomolecules, 2021, 11, 1631.	4.0	14
49	Formate Adsorption onto Thin Films of Rutile TiO₂ Nanorods and Nanowires. Langmuir, 2008, 24, 14035-14041.	3.5	13
50	Crystallization of monohydrocalcite in a silica-rich alkaline solution. CrystEngComm, 2013, 15, 6526.	2.6	12
51	Antiparasitic, anti-inflammatory and cytotoxic activities of 2D coordination polymers based on 1H-indazole-5-carboxylic acid. Journal of Inorganic Biochemistry, 2020, 208, 111098.	3.5	11
52	Organic/inorganic hydrogels by simultaneous self-assembly and mineralization of aromatic short-peptides. Inorganic Chemistry Frontiers, 2022, 9, 743-752.	6.0	11
53	Atmospheric water triggers supramolecular gel formation of novel low molecular weight maslinic and oleanolic triterpenic derivatives. Materials Chemistry Frontiers, 2019, 3, 2637-2646.	5.9	10
54	Role of citrate in the formation of enamel-like calcium phosphate oriented nanorod arrays. CrystEngComm, 2019, 21, 4684-4689.	2.6	10

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55	pH-responsive collagen fibrillogenesis in confined droplets induced by vapour diffusion. Journal of Materials Science: Materials in Medicine, 2014, 25, 2305-2312.	3.6	9
56	Entrapping Living Probiotics into Collagen Scaffolds: A New Class of Biomaterials for Antibioticâ€Free Therapy of Bacterial Vaginosis. Advanced Materials Technologies, 2020, 5, 2000137.	5.8	9
57	Biomimetic Mineralization Promotes Viability and Differentiation of Human Mesenchymal Stem Cells in a Perfusion Bioreactor. International Journal of Molecular Sciences, 2021, 22, 1447.	4.1	9
58	Magneto-optical hyperthermia agents based on probiotic bacteria loaded with magnetic and gold nanoparticles. Nanoscale, 2022, 14, 5716-5724.	5.6	9
59	Bio-inspired citrate-functionalized apatite thin films crystallized on Tiâ€“6Alâ€“4V implants pre-coated with corrosion resistant layers. Journal of Inorganic Biochemistry, 2013, 127, 261-268.	3.5	8
60	2D-Coordination polymers based on 1H-indazole-4-carboxylic acid and transition metal ions: magnetic, luminescence and biological properties. CrystEngComm, 2020, 22, 5086-5095.	2.6	8
61	Effects of Methyl Jasmonate and Nano-Methyl Jasmonate Treatments on Monastrell Wine Volatile Composition. Molecules, 2022, 27, 2878.	3.8	8
62	Year, watering regime and foliar methyl jasmonate doped nanoparticles treatments: Effects on must nitrogen compounds in Monastrell grapes. Scientia Horticulturae, 2022, 297, 110944.	3.6	7
63	Two-Sided Antibacterial Cellulose Combining Probiotics and Silver Nanoparticles. Molecules, 2021, 26, 2848.	3.8	6
64	Control Over Nanocrystalline Apatite Formation: What Can the X-Ray Total Scattering Approach Tell Us. , 2017, , 211-225.		6
65	Photoluminescent Coordination Polymers Based on Group 12 Metals and 1H-Indazole-6-Carboxylic Acid. Inorganics, 2021, 9, 20.	2.7	5
66	Seeding from silica-reinforced lysozyme crystals for neutron crystallography. Acta Crystallographica Section D: Structural Biology, 2018, 74, 1200-1207.	2.3	3
67	Apatites: Crystal Size, Morphology, and Growth Mechanism in Bio-Inspired Apatite Nanocrystals (Adv.) Tj ETQq1 1 0.784314 rgBT /Ov	14.9	1
68	Biomimetic carbonate-apatite nanoparticles functionalized with doxorubicin for applications in nanomedicine. Acta Crystallographica Section A: Foundations and Advances, 2011, 67, C280-C280.	0.3	0
69	Vibrational Spectroscopies for Surface Characterization of Biomaterials. , 2012, , 130-152.		0