

Jaime Gomez-Morales

List of Publications by Year in descending order

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84
papers

3,002
citations

136740

32
h-index

168136

53
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84
all docs

84
docs citations

84
times ranked

3213
citing authors

#	ARTICLE	IF	CITATIONS
1	Progress on the preparation of nanocrystalline apatites and surface characterization: Overview of fundamental and applied aspects. <i>Progress in Crystal Growth and Characterization of Materials</i> , 2013, 59, 1-46.	1.8	219
2	Nanosized Hydroxyapatite Precipitation from Homogeneous Calcium/Citrate/Phosphate Solutions Using Microwave and Conventional Heating. <i>Advanced Materials</i> , 1998, 10, 49-53.	11.1	184
3	Crystallization of bioinspired citrate-functionalized nanoapatite with tailored carbonate content. <i>Acta Biomaterialia</i> , 2012, 8, 3491-3499.	4.1	134
4	Nucleation of calcium carbonate at different initial pH conditions. <i>Journal of Crystal Growth</i> , 1996, 169, 331-338.	0.7	113
5	Calcite precipitation by a high-pressure CO ₂ carbonation route. <i>Journal of Supercritical Fluids</i> , 2006, 36, 202-215.	1.6	96
6	Crystal Size, Morphology, and Growth Mechanism in Bioinspired Apatite Nanocrystals. <i>Advanced Functional Materials</i> , 2014, 24, 1090-1099.	7.8	93
7	The Role of pH in the Adsorption of Citrate Ions on Hydroxyapatite. <i>Journal of Colloid and Interface Science</i> , 1998, 200, 114-120.	5.0	91
8	Fluoride-doped amorphous calcium phosphate nanoparticles as a promising biomimetic material for dental remineralization. <i>Scientific Reports</i> , 2018, 8, 17016.	1.6	90
9	Adsorption of recombinant human bone morphogenetic protein rhBMP-2m onto hydroxyapatite. <i>Journal of Inorganic Biochemistry</i> , 2005, 99, 1043-1050.	1.5	88
10	pH-Responsive Delivery of Doxorubicin from Citrate-Apatite Nanocrystals with Tailored Carbonate Content. <i>Langmuir</i> , 2013, 29, 8213-8221.	1.6	88
11	Rhombohedral-scalenohedral calcite transition produced by adjusting the solution electrical conductivity in the system Ca(OH) ₂ -CO ₂ -H ₂ O. <i>Journal of Colloid and Interface Science</i> , 2003, 261, 434-440.	5.0	84
12	Hydroxyapatite precipitation: A case of nucleation-aggregation-agglomeration-growth mechanism. <i>Journal of the European Ceramic Society</i> , 1998, 18, 1351-1356.	2.8	82
13	Influence of Model Globular Proteins with Different Isoelectric Points on the Precipitation of Calcium Carbonate. <i>Crystal Growth and Design</i> , 2008, 8, 1495-1502.	1.4	79
14	Cell Surface Receptor Targeted Biomimetic Apatite Nanocrystals for Cancer Therapy. <i>Small</i> , 2013, 9, 3834-3844.	5.2	76
15	Magnetic Bioactive and Biodegradable Hollow Fe-Doped Hydroxyapatite Coated Poly(l-lactic) Acid Micro-nanospheres. <i>Chemistry of Materials</i> , 2013, 25, 2610-2617.	3.2	70
16	Morphological control of precipitated calcite obtained by adjusting the electrical conductivity in the Ca(OH) ₂ -H ₂ O-CO ₂ system. <i>Journal of Crystal Growth</i> , 2003, 249, 561-571.	0.7	66
17	Control of calcium carbonate morphology by precipitation in compressed and supercritical carbon dioxide media. <i>Journal of Crystal Growth</i> , 2004, 271, 268-273.	0.7	61
18	Calcium carbonate precipitation from aqueous solutions containing Aerosol OT. <i>Journal of Crystal Growth</i> , 1996, 166, 1015-1019.	0.7	59

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19	Identification of Some Active Proteins in the Process of Hen Eggshell Formation. <i>Crystal Growth and Design</i> , 2008, 8, 4330-4339.	1.4	59
20	The growth mechanism of apatite nanocrystals assisted by citrate: relevance to bone biomineralization. <i>CrystEngComm</i> , 2015, 17, 507-511.	1.3	58
21	Influence of eggshell matrix proteins on the precipitation of calcium carbonate (CaCO ₃). <i>Journal of Crystal Growth</i> , 2008, 310, 1754-1759.	0.7	57
22	Biomimetic Carbonate-Modified Hydroxyapatite Nanocrystals Prepared by Vapor Diffusion. <i>Advanced Engineering Materials</i> , 2010, 12, B218.	1.6	52
23	Microwave precipitation of CaCO ₃ from homogeneous solutions. <i>Journal of Crystal Growth</i> , 1996, 169, 339-346.	0.7	47
24	pH-Dependent Adsorption Release of Doxorubicin on MamC-Biomimetic Magnetite Nanoparticles. <i>Langmuir</i> , 2018, 34, 13713-13724.	1.6	46
25	Comparative preparation of microporous VPI-5 using conventional and microwave heating techniques. <i>Zeolites</i> , 1997, 18, 340-346.	0.9	42
26	Precipitation of calcium carbonate from solutions with varying ratios. <i>Journal of Crystal Growth</i> , 1996, 166, 1020-1026.	0.7	41
27	Amino Acidic Control of Calcium Phosphate Precipitation by Using the Vapor Diffusion Method in Microdroplets. <i>Crystal Growth and Design</i> , 2011, 11, 4802-4809.	1.4	41
28	Silica Gel Template for Calcium Phosphates Crystallization. <i>Crystal Growth and Design</i> , 2009, 9, 4912-4921.	1.4	39
29	Evolution of calcium phosphate precipitation in hanging drop vapor diffusion by in situ Raman microspectroscopy. <i>CrystEngComm</i> , 2013, 15, 2206.	1.3	36
30	Luminescent biomimetic citrate-coated europium-doped carbonated apatite nanoparticles for use in bioimaging: physico-chemistry and cytocompatibility. <i>RSC Advances</i> , 2018, 8, 2385-2397.	1.7	36
31	Controlled Nucleation and Growth of Thin Hydroxyapatite Layers on Titanium Implants by Using Induction Heating Technique. <i>Langmuir</i> , 2004, 20, 5174-5178.	1.6	35
32	Morphological characteristics and aggregation of calcite crystals obtained by bubbling CO ₂ through a Ca(OH) ₂ suspension in the presence of additives. <i>Powder Technology</i> , 2003, 130, 307-315.	2.1	34
33	Nucleation and Polymorphism of Calcium Carbonate by a Vapor Diffusion Sitting Drop Crystallization Technique. <i>Crystal Growth and Design</i> , 2010, 10, 963-969.	1.4	33
34	Bioinspired Citrate-Modified Apatite Nanocrystals Doped with Divalent Transition Metal Ions. <i>Crystal Growth and Design</i> , 2016, 16, 145-153.	1.4	32
35	Influence of Charged Polypeptides on Nucleation and Growth of CaCO ₃ Evaluated by Counterdiffusion Experiments. <i>Crystal Growth and Design</i> , 2013, 13, 3884-3891.	1.4	30
36	On the surface effects of citrates on nano-apatites: evidence of a decreased hydrophilicity. <i>Scientific Reports</i> , 2017, 7, 8901.	1.6	29

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37	The mechanism of precipitation of chain-like calcite. <i>Journal of Crystal Growth</i> , 2004, 262, 479-489.	0.7	28
38	Transient Calcium Carbonate Hexahydrate (Ikaite) Nucleated and Stabilized in Confined Nano- and Picovolumes. <i>Crystal Growth and Design</i> , 2014, 14, 792-802.	1.4	28
39	Monoclonal Antibody-Targeted Fluorescein-5-isothiocyanate-Labeled Biomimetic Nanoapatites: A Promising Fluorescent Probe for Imaging Applications. <i>Langmuir</i> , 2015, 31, 1766-1775.	1.6	26
40	Role of CaCO_3 Neutral Pair in Calcium Carbonate Crystallization. <i>Crystal Growth and Design</i> , 2016, 16, 4173-4177.	1.4	22
41	Crystal Size Distribution of Hydroxyapatite Precipitated in a MSMRP Reactor. <i>Crystal Research and Technology</i> , 2001, 36, 1065-1074.	0.6	21
42	Exploring coral biomineralization in gelling environments by means of a counter diffusion system. <i>CrystEngComm</i> , 2014, 16, 1257-1267.	1.3	20
43	Preparation of core-shell poly(L-lactic) acid-nanocrystalline apatite hollow microspheres for bone repairing applications. <i>Journal of Materials Science: Materials in Medicine</i> , 2012, 23, 2659-2669.	1.7	18
44	The mechanism of precipitation of colloidal variscite ($\text{AlPO}_4 \cdot 2\text{H}_2\text{O}$) particles. <i>Journal of Colloid and Interface Science</i> , 1992, 151, 555-562.	5.0	17
45	Clean (Green) Ion-Exchange Technologies. 4. High-Ca-Selectivity Ion-Exchange Material for Self-Sustaining Decalcification of Mineralized Waters Process. <i>Industrial & Engineering Chemistry Research</i> , 2004, 43, 1868-1874.	1.8	17
46	Calcium carbonate bio-precipitation in counter-diffusion systems using the soluble organic matrix from nacre and sea-urchin spine. <i>European Journal of Mineralogy</i> , 2014, 26, 523-535.	0.4	17
47	Formation of calcium phosphates by vapour diffusion in highly concentrated ionic microdroplets. <i>Crystal Research and Technology</i> , 2011, 46, 841-846.	0.6	16
48	Title is missing!. <i>Journal of Materials Synthesis and Processing</i> , 1999, 7, 211-219.	0.3	15
49	Analysis of the Structural Integrity of SU-8-Based Optofluidic Systems for Small-Molecule Crystallization Studies. <i>Analytical Chemistry</i> , 2013, 85, 9678-9685.	3.2	15
50	Characterization and identification of berlinite crystals by acoustic microscopy. <i>Journal of Materials Research</i> , 1991, 6, 2484-2489.	1.2	14
51	Monitoring Picoliter Sessile Microdroplet Dynamics Shows That Size Does Not Matter. <i>Langmuir</i> , 2013, 29, 12628-12632.	1.6	14
52	New injectable two-step forming hydrogel for delivery of bioactive substances in tissue regeneration. <i>International Journal of Energy Production and Management</i> , 2019, 6, 149-162.	1.9	14
53	Polypeptide effect on Mg^{2+} hydration inferred from CaCO_3 formation: a biomineralization study by counter-diffusion. <i>CrystEngComm</i> , 2016, 18, 3265-3272.	1.3	13
54	Interconvertible Hydrochlorothiazide-Caffeine Multicomponent Pharmaceutical Materials: A Solvent Issue. <i>Crystals</i> , 2020, 10, 1088.	1.0	13

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55	Preparation of Chromium Hydroxide Sub-micro- and Nanoparticles by Microwave Dielectric Heating. <i>Langmuir</i> , 2003, 19, 9110-9113.	1.6	12
56	Bioinspired crystallization, sensitized luminescence and cytocompatibility of citrate-functionalized Ca-substituted europium phosphate monohydrate nanophosphors. <i>Journal of Colloid and Interface Science</i> , 2019, 538, 174-186.	5.0	11
57	Role of citrate in the formation of enamel-like calcium phosphate oriented nanorod arrays. <i>CrystEngComm</i> , 2019, 21, 4684-4689.	1.3	10
58	Furosemide/Non-Steroidal Anti-Inflammatory Drug "Drug Pharmaceutical Solids: Novel Opportunities in Drug Formulation. <i>Crystals</i> , 2021, 11, 1339.	1.0	10
59	pH-responsive collagen fibrillogenesis in confined droplets induced by vapour diffusion. <i>Journal of Materials Science: Materials in Medicine</i> , 2014, 25, 2305-2312.	1.7	9
60	Novel Polymorphic Cocrystals of the Non-Steroidal Anti-Inflammatory Drug Niflumic Acid: Expanding the Pharmaceutical Landscape. <i>Pharmaceutics</i> , 2021, 13, 2140.	2.0	9
61	Bio-inspired citrate-functionalized apatite thin films crystallized on Ti "6Al" 4V implants pre-coated with corrosion resistant layers. <i>Journal of Inorganic Biochemistry</i> , 2013, 127, 261-268.	1.5	8
62	Bioinspired Mineralization of Type I Collagen Fibrils with Apatite in Presence of Citrate and Europium Ions. <i>Crystals</i> , 2019, 9, 13.	1.0	8
63	Eu-Doped Citrate-Coated Carbonated Apatite Luminescent Nanoprobes for Drug Delivery. <i>Nanomaterials</i> , 2020, 10, 199.	1.9	8
64	Crystallization, Luminescence and Cytocompatibility of Hexagonal Calcium Doped Terbium Phosphate Hydrate Nanoparticles. <i>Nanomaterials</i> , 2021, 11, 322.	1.9	8
65	Directed Crystallization of Selected Aluminophosphate Hydrates by pH Control. <i>Advanced Materials</i> , 1998, 10, 46-49.	11.1	7
66	Biological Crystallization. , 2015, , 873-913.		7
67	Calcium Phosphate Surface Tailoring Technologies for Drug Delivering and Tissue Engineering. , 2012, , 43-111.		7
68	Self-Assembled Type I Collagen "Apatite Fibers with Varying Mineralization Extent and Luminescent Terbium Promote Osteogenic Differentiation of Mesenchymal Stem Cells. <i>Macromolecular Bioscience</i> , 2021, 21, 2000319.	2.1	7
69	Luminescent Citrate-Functionalized Terbium-Substituted Carbonated Apatite Nanomaterials: Structural Aspects, Sensitized Luminescence, Cytocompatibility, and Cell Uptake Imaging. <i>Nanomaterials</i> , 2022, 12, 1257.	1.9	7
70	Bioinspired Calcium Phosphate Coated Mica Sheets by Vapor Diffusion and Its Effects on Lysozyme Assembly and Crystallization. <i>Crystal Growth and Design</i> , 2016, 16, 5150-5158.	1.4	6
71	Growth morphology of berlinite crystals obtained under hydrothermal conditions. <i>Journal of Crystal Growth</i> , 1993, 128, 1250-1256.	0.7	3
72	Hydrothermal synthesis and characterisation of tin doped ZnO polyscale crystals with hexylamine additive. <i>Materials Research Innovations</i> , 2012, 16, 25-29.	1.0	3

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73	Induced Nucleation of Biomimetic Nanoapatites on Exfoliated Graphene Biomolecule Flakes by Vapor Diffusion in Microdroplets. <i>Crystals</i> , 2019, 9, 341.	1.0	3
74	Biological Crystallization. <i>Crystals</i> , 2019, 9, 409.	1.0	2
75	Praziquantel-loaded calcite crystals: Synthesis, physicochemical characterization, and biopharmaceutical properties of inorganic biomaterials for drug delivery. <i>Journal of Drug Delivery Science and Technology</i> , 2022, 68, 103021.	1.4	2
76	Biomimetic Citrate-Coated Luminescent Apatite Nanoplatfoms for Diclofenac Delivery in Inflammatory Environments. <i>Nanomaterials</i> , 2022, 12, 562.	1.9	2
77	Structural and surface studies of luminescent Ca/Eu phosphate nanomaterials: From the bulk to surface features. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022, 217, 112620.	2.5	2
78	Solubility of berlinite in H ₂ SO ₄ -HCl mixtures under hydrothermal conditions. <i>Journal of Crystal Growth</i> , 1992, 116, 427-435.	0.7	1
79	Apatites: Crystal Size, Morphology, and Growth Mechanism in Bio-Inspired Apatite Nanocrystals (Adv.) Tj ETQq1 1 0,784314 rgBT /Over	7.8	1
80	Vapour Diffusion Sitting Drop Method to Induce Nucleation of Calcium Phosphate on Exfoliated Graphene and Graphene Oxide Flakes. <i>Crystals</i> , 2021, 11, 767.	1.0	1
81	The International Crystallization Schools IS(B)C of Granada. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2017, 73, C506-C506.	0.0	0
82	Biomimetic citrate-coated nano-apatites for biomedical and industrial applications. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2017, 73, C620-C620.	0.0	0
83	Vapour Diffusion Route to Mineralize Graphene and Polymer Surfaces with Calcium Phosphate Intended for Biomedical Applications. <i>Key Engineering Materials</i> , 0, 758, 210-214.	0.4	0
84	Vibrational Spectroscopies for Surface Characterization of Biomaterials. , 2012, , 130-152.		0