

ChristÃle Combes

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4410/publications.pdf>

Version: 2024-02-01

85
papers

4,541
citations

117453

34
h-index

102304

66
g-index

89
all docs

89
docs citations

89
times ranked

4990
citing authors

#	ARTICLE	IF	CITATIONS
1	Poly(<i>d,l</i> -lactide)-Grafted Bioactive Glass Nanoparticles: From Nanobricks to Freeze-Cast Scaffolds for Bone Substitution. <i>ACS Applied Nano Materials</i> , 2022, 5, 5278-5291.	2.4	5
2	Injectable bone cement containing carboxymethyl cellulose microparticles as a silver delivery system able to reduce implant-associated infection risk. <i>Acta Biomaterialia</i> , 2022, 145, 342-357.	4.1	11
3	Tunable Behavior in Solution of Amorphous Calcium Ortho/Pyrophosphate Materials: An Acellular <i>In Vitro</i> Study. <i>ACS Biomaterials Science and Engineering</i> , 2022, , .	2.6	3
4	Multifunctional homogeneous calcium phosphate coatings: Toward antibacterial and cell adhesive titanium scaffolds. <i>Surface and Coatings Technology</i> , 2021, 405, 126557.	2.2	15
5	Apatitic and Tricalcic Calcium Phosphate-Based Bioceramics: Overview and Perspectives. , 2021, , 575-594.		0
6	Standardization of antimicrobial testing of dental devices. <i>Dental Materials</i> , 2020, 36, e59-e73.	1.6	33
7	A soft-chemistry approach to the synthesis of amorphous calcium ortho/pyrophosphate biomaterials of tunable composition. <i>Acta Biomaterialia</i> , 2020, 103, 333-345.	4.1	18
8	Synthesis and physical chemical characterizations of octacalcium phosphate-based biomaterials for hard-tissue regeneration. , 2020, , 177-212.		2
9	Well-defined polyester-grafted silica nanoparticles for biomedical applications: Synthesis and quantitative characterization. <i>Polymer</i> , 2020, 211, 123048.	1.8	10
10	Gout and pseudo-gout-related crystals promote GLUT1-mediated glycolysis that governs NLRP3 and interleukin-1 β activation on macrophages. <i>Annals of the Rheumatic Diseases</i> , 2020, 79, 1506-1514.	0.5	72
11	C-reactive protein (CRP) recognizes uric acid crystals and recruits proteases C1 and MASP1. <i>Scientific Reports</i> , 2020, 10, 6391.	1.6	19
12	Advances in the synthesis and structure of β -canaphite: a multitool and multiscale study. <i>CrystEngComm</i> , 2020, 22, 3130-3143.	1.3	8
13	Multifunctionalization Modulates Hydroxyapatite Surface Interaction with Bisphosphonate: Antiosteoporotic and Antioxidative Stress Materials. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 3429-3439.	2.6	14
14	Adsorption of Proteins on m-CPPD and Urate Crystals Inhibits Crystal-induced Cell Responses: Study on Albumin-crystal Interaction. <i>Journal of Functional Biomaterials</i> , 2019, 10, 18.	1.8	16
15	Calcium phosphate coatings elaborated by the soaking process on titanium dental implants: Surface preparation, processing and physical-chemical characterization. <i>Dental Materials</i> , 2019, 35, e25-e35.	1.6	37
16	Single-step pulsed electrodeposition of calcium phosphate coatings on titanium for drug delivery. <i>Surface and Coatings Technology</i> , 2019, 358, 266-275.	2.2	33
17	Inflammatory Potential of Four Different Phases of Calcium Pyrophosphate Relies on NF- κ B Activation and MAPK Pathways. <i>Frontiers in Immunology</i> , 2018, 9, 2248.	2.2	41
18	Pushing the limits of sensitivity and resolution for natural abundance ^{43}Ca NMR using ultra-high magnetic field (35.2 T). <i>Chemical Communications</i> , 2018, 54, 9591-9594.	2.2	22

#	ARTICLE	IF	CITATIONS
19	Time-domain THz spectroscopy of the characteristics of hydroxyapatite provides a signature of heating in bone tissue. <i>PLoS ONE</i> , 2018, 13, e0201745.	1.1	3
20	Multi-energy spectral photon-counting CT in crystal-related arthropathies: initial experience and diagnostic performance in vitro. , 2018, , .		0
21	Freeze-casting for PLGA/carbonated apatite composite scaffolds: Structure and properties. <i>Materials Science and Engineering C</i> , 2017, 77, 731-738.	3.8	34
22	PNIPAM grafted surfaces through ATRP and RAFT polymerization: Chemistry and bioadhesion. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 151, 143-155.	2.5	57
23	Influence of Ionic Additives on Triclinic Calcium Pyrophosphate Dihydrate Precipitation. <i>Crystal Growth and Design</i> , 2017, 17, 37-50.	1.4	10
24	Hydroxyapatite functionalization to trigger adsorption and release of risedronate. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 160, 493-499.	2.5	21
25	Crystal growth of aragonite in the presence of phosphate. <i>Journal of Crystal Growth</i> , 2017, 458, 44-52.	0.7	32
26	Apatite Biominerals. <i>Minerals (Basel, Switzerland)</i> , 2016, 6, 34.	0.8	152
27	Development of a new family of monolithic calcium (pyro)phosphate glasses by soft chemistry. <i>Acta Biomaterialia</i> , 2016, 41, 320-327.	4.1	13
28	Nanocrystalline Apatites: A Versatile Functionalizable Platform for Biomedical Applications for Bone Engineering and beyond. <i>Key Engineering Materials</i> , 2016, 696, 14-22.	0.4	4
29	Effect of ionic liquids on the structural, thermal, and <i>in vitro</i> degradation properties of poly(ϵ -caprolactone) synthesized in the presence of <i>Candida antarctica</i> lipase B. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	10
30	Injectability, microstructure and release properties of sodium fusidate-loaded apatitic cement as a local drug-delivery system. <i>Materials Science and Engineering C</i> , 2016, 59, 177-184.	3.8	27
31	Crystal structure of monoclinic calcium pyrophosphate dihydrate (m-CPPD) involved in inflammatory reactions and osteoarthritis. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2016, 72, 96-101.	0.5	19
32	Mechanical properties of self-setting composites: influence of the carboxymethylcellulose content and hydration state. <i>Journal of Materials Science</i> , 2016, 51, 4296-4305.	1.7	13
33	From crystalline to amorphous calcium pyrophosphates: A solid state Nuclear Magnetic Resonance perspective. <i>Acta Biomaterialia</i> , 2016, 31, 348-357.	4.1	33
34	Interleukin-6 and chondrocyte mineralisation act in tandem to promote experimental osteoarthritis. <i>Annals of the Rheumatic Diseases</i> , 2016, 75, 1372-1379.	0.5	93
35	Comparison of Physical-chemical and Mechanical Properties of Chlorapatite and Hydroxyapatite Plasma Sprayed Coatings. <i>Open Biomedical Engineering Journal</i> , 2015, 9, 42-55.	0.7	15
36	Structure of the calcium pyrophosphate monohydrate phase (Ca ₂ P ₂ O ₇ ·H ₂ O): towards understanding the dehydration process in calcium pyrophosphate hydrates. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2014, 70, 862-866.	0.2	10

#	ARTICLE	IF	CITATIONS
37	Surface properties of biomimetic nanocrystalline apatites; applications in biomaterials. <i>Progress in Crystal Growth and Characterization of Materials</i> , 2014, 60, 63-73.	1.8	80
38	What bridges mineral platelets of bone?. <i>BoneKEy Reports</i> , 2014, 3, 586.	2.7	9
39	Synthesis of fluor-hydroxyapatite powder for plasma sprayed biomedical coatings: Characterization and improvement of the powder properties. <i>Powder Technology</i> , 2014, 255, 23-28.	2.1	16
40	Characterization of Calcium Phosphates Using Vibrational Spectroscopies. <i>Springer Series in Biomaterials Science and Engineering</i> , 2014, , 229-266.	0.7	37
41	Optimization of spray-dried hyaluronic acid microspheres to formulate drug-loaded bone substitute materials. <i>Powder Technology</i> , 2014, 255, 44-51.	2.1	15
42	Composition and properties of silver-containing calcium carbonate-calcium phosphate bone cement. <i>Journal of Materials Science: Materials in Medicine</i> , 2013, 24, 2665-2675.	1.7	20
43	Synthesis and Characterisation of Hydrated Calcium Pyrophosphate Phases of Biological Interest. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 5886-5895.	1.0	45
44	Development of an injectable composite for bone regeneration. <i>Irbm</i> , 2013, 34, 176-179.	3.7	5
45	Crystallisation of a highly metastable hydrated calcium pyrophosphate phase. <i>CrystEngComm</i> , 2013, 15, 2294.	1.3	22
46	Characterization and Some Physicochemical Aspects of Pathological Microcalcifications. <i>Chemical Reviews</i> , 2012, 112, 5092-5120.	23.0	162
47	Hydroxyapatite coating on titanium by a low energy plasma spraying mini-gun. <i>Surface and Coatings Technology</i> , 2012, 206, 2346-2353.	2.2	60
48	Strontium-loaded mineral bone cements as sustained release systems: Compositions, release properties, and effects on human osteoprogenitor cells. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2012, 100B, 378-390.	1.6	35
49	The Calcium Phosphate-Calcium Carbonate System: Growth of Octacalcium Phosphate on Calcium Carbonates. <i>Crystal Growth and Design</i> , 2011, 11, 1683-1688.	1.4	20
50	High Zn content of Randall's plaque: A $\frac{1}{4}$ -X-ray fluorescence investigation. <i>Journal of Trace Elements in Medicine and Biology</i> , 2011, 25, 160-165.	1.5	60
51	Cogrinding significance for calcium carbonate-calcium phosphate mixed cement. II. Effect on cement properties. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2011, 99B, 302-312.	1.6	2
52	Co-grinding significance for calcium carbonate-calcium phosphate mixed cement. Part I: Effect of particle size and mixing on solid phase reactivity. <i>Acta Biomaterialia</i> , 2011, 7, 1817-1826.	4.1	16
53	Medical Potentialities of Biomimetic Apatites through Adsorption, Ionic Substitution, and Mineral/Organic Associations: Three Illustrative Examples. <i>Advanced Engineering Materials</i> , 2010, 12, B224.	1.6	39
54	Biomimetic apatite sintered at very low temperature by spark plasma sintering: Physico-chemistry and microstructure aspects. <i>Acta Biomaterialia</i> , 2010, 6, 577-585.	4.1	91

#	ARTICLE	IF	CITATIONS
55	Rheological properties of calcium carbonate self-setting injectable paste. <i>Acta Biomaterialia</i> , 2010, 6, 920-927.	4.1	23
56	Amorphous calcium phosphates: Synthesis, properties and uses in biomaterials. <i>Acta Biomaterialia</i> , 2010, 6, 3362-3378.	4.1	600
57	Adsorption and release of BMP-2 on nanocrystalline apatite-coated and uncoated hydroxyapatite/ ¹²⁹ calcium phosphate porous ceramics. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2009, 91B, 706-715.	1.6	105
58	Bone mineral: update on chemical composition and structure. <i>Osteoporosis International</i> , 2009, 20, 1013-1021.	1.3	430
59	Diffraction techniques and vibrational spectroscopy opportunities to characterise bones. <i>Osteoporosis International</i> , 2009, 20, 1065-1075.	1.3	78
60	Nanocrystalline apatites: From powders to biomaterials. <i>Powder Technology</i> , 2009, 190, 118-122.	2.1	76
61	Production, by co-grinding in a media mill, of porous biodegradable polylactic acid-apatite composite materials for bone tissue engineering. <i>Powder Technology</i> , 2009, 190, 89-94.	2.1	19
62	Surface Characteristics of Nanocrystalline Apatites: Effect of Mg Surface Enrichment on Morphology, Surface Hydration Species, and Cationic Environments. <i>Langmuir</i> , 2009, 25, 5647-5654.	1.6	124
63	Impact of Calcium Phosphate Particle Morphology on Osteoconduction: an In Vivo Study. <i>Key Engineering Materials</i> , 2008, 361-363, 1237-1240.	0.4	2
64	Surface enrichment of biomimetic apatites with biologically-active ions Mg ²⁺ and Sr ²⁺ : A preamble to the activation of bone repair materials. <i>Materials Science and Engineering C</i> , 2008, 28, 1544-1550.	3.8	92
65	Fluoride-Based Bioceramics. , 2008, , 279-331.		0
66	Physico-chemical properties of nanocrystalline apatites: Implications for biominerals and biomaterials. <i>Materials Science and Engineering C</i> , 2007, 27, 198-205.	3.8	252
67	Preparation, physical-chemical characterisation and cytocompatibility of calcium carbonate cements. <i>Biomaterials</i> , 2006, 27, 1945-1954.	5.7	92
68	Calcium carbonate-calcium phosphate mixed cement compositions for bone reconstruction. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 79A, 318-328.	2.1	56
69	Chemical Diversity of Apatites. <i>Advances in Science and Technology</i> , 2006, 49, 27.	0.2	34
70	Bioceramics: Spark Plasma Sintering (SPS) of Calcium Phosphates. <i>Advances in Science and Technology</i> , 2006, 49, 45.	0.2	37
71	Formation and Evolution of Hydrated Surface Layers of Apatites. <i>Key Engineering Materials</i> , 2005, 284-286, 3-6.	0.4	45
72	New Calcium Carbonate-Based Cements for Bone Reconstruction. <i>Key Engineering Materials</i> , 2005, 284-286, 105-108.	0.4	9

#	ARTICLE	IF	CITATIONS
73	Specific Characteristics of Wet Nanocrystalline Apatites. Consequences on Biomaterials and Bone Tissue. Key Engineering Materials, 2004, 254-256, 927-930.	0.4	32
74	Poorly crystalline apatites: evolution and maturation in vitro and in vivo. Journal of Bone and Mineral Metabolism, 2004, 22, 310-7.	1.3	124
75	Adaptative physico-chemistry of bio-related calcium phosphates. Journal of Materials Chemistry, 2004, 14, 2148.	6.7	176
76	Minéralisations biologiques à base de phosphate de calcium. Comptes Rendus - Palevol, 2004, 3, 563-572.	0.1	40
77	Adsorption of proteins and calcium phosphate materials bioactivity. Biomaterials, 2002, 23, 2817-2823.	5.7	182
78	Crystal growth and structure of a new hormonal derived compound. International Journal of Pharmaceutics, 2002, 248, 141-147.	2.6	2
79	Identification and Evaluation of HPO ₄ Ions in Biomimetic Poorly Crystalline Apatite and Bone Mineral. Key Engineering Materials, 2000, 192-195, 143-146.	0.4	15
80	Evidence of hydroxyl-ion deficiency in bone apatites: an inelastic neutron-scattering study. Bone, 2000, 26, 599-602.	1.4	115
81	Heterogeneous crystallization of dicalcium phosphate dihydrate on titanium surfaces. Journal of Materials Science: Materials in Medicine, 1999, 10, 231-237.	1.7	9
82	In vitro crystallization of octacalcium phosphate on type I collagen: influence of serum albumin. Journal of Materials Science: Materials in Medicine, 1999, 10, 153-160.	1.7	78
83	XPS and IR study of dicalcium phosphate dihydrate nucleation on titanium surfaces. Colloids and Surfaces B: Biointerfaces, 1998, 11, 15-27.	2.5	41
84	Nucleation and crystal growth of dicalcium phosphate dihydrate on titanium powder. Journal of Materials Science: Materials in Medicine, 1995, 6, 699-702.	1.7	12
85	Formation and Evolution of Hydrated Surface Layers of Apatites. Key Engineering Materials, 0, , 3-6.	0.4	1