Taishi Yokoi

List of Publications by Year
in descending order

56 papers	657 citations	516710 16 h-index	713466 21 g-index
56 all docs	56 docs citations	56 times ranked	740 citing authors

#	Article	IF	Citations
1	Biomimetic mineralization of calcium phosphate crystals in polyacrylamide hydrogel: Effect of concentrations of calcium and phosphate ions on crystalline phases and morphology. Materials Science and Engineering C, 2010, 30, 154-159.	7.3	39
2	Continuous expansion of the interplanar spacing of octacalcium phosphate by incorporation of dicarboxylate ions with a side chain. Dalton Transactions, 2015, 44, 7943-7950.	3.3	35
3	Density functional study of the phase stability and Raman spectra of Yb₂O₃, Yb₂SiO₅ and Yb₂Si₂O₇ under pressure. Physical Chemistry Chemical Physics, 2018, 20, 16518-16527.	2.8	30
4	Biomimetic mineralization of calcium phosphates in polymeric hydrogels containing carboxyl groups. Journal of Asian Ceramic Societies, 2013, 1, 155-162.	2.3	24
5	Behavior of hydroxyapatite crystals in a simulated body fluid: effects of crystal face. Journal of the Ceramic Society of Japan, 2013, 121, 807-812.	1.1	23
6	Formation of organically modified octacalcium phosphate in solutions containing various amounts of benzenedicarboxylic acids. Journal of the Ceramic Society of Japan, 2013, 121, 219-225.	1.1	21
7	Rapid and topotactic transformation from octacalcium phosphate to hydroxyapatite (HAP): a new approach to self-organization of free-standing thin-film HAP-based nanohybrids. CrystEngComm, 2016, 18, 8388-8395.	2.6	21
8	Crystallization of calcium phosphate in polyacrylamide hydrogels containing phosphate ions. Journal of Crystal Growth, 2010, 312, 2376-2382.	1.5	20
9	Synthesis of octacalcium phosphate with incorporated succinate and suberate ions. Ceramics International, 2012, 38, 3815-3820.	4.8	19
10	Morphological control of layered double hydroxide through a biomimetic approach using carboxylic and sulfonic acids. Journal of Asian Ceramic Societies, 2015, 3, 230-233.	2.3	19
11	Incorporation of tetracarboxylate ions into octacalcium phosphate for the development of next-generation biofriendly materials. Communications Chemistry, 2021, 4, .	4.5	19
12	Formation of octacalcium phosphates with co-incorporated succinate and suberate ions. Dalton Transactions, 2012, 41, 2732.	3.3	18
13	Adhesion behaviors of Escherichia coli on hydroxyapatite. Materials Science and Engineering C, 2016, 61, 169-173.	7.3	18
14	Hydroxyapatite Formation from Octacalcium Phosphate and Its Related Compounds: A Discussion of the Transformation Mechanism. Bulletin of the Chemical Society of Japan, 2020, 93, 701-707.	3.2	18
15	Synthesis of calcium phosphate crystals in a silica hydrogel containing phosphate ions. Journal of Materials Research, 2009, 24, 2154-2160.	2.6	17
16	A bone substitute with high affinity for vitamin Dâ€binding proteinâ€•relationship with niche of osteoclasts. Journal of Cellular and Molecular Medicine, 2014, 18, 170-180.	3.6	16
17	Enantioselective incorporation of dicarboxylate guests by octacalcium phosphate. Chemical Communications, 2017, 53, 6524-6527.	4.1	16
18	Effect of preparation temperature on the ability of bone char to remove fluoride ion and organic contaminants. Journal of the Ceramic Society of Japan, 2014, 122, 995-999.	1.1	14

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19	Synthesis of layered double hydroxide coatings with an oriented structure and controllable thickness on aluminium substrates. CrystEngComm, 2016, 18, 1207-1214.	2.6	14
20	Transformation of dicalcium phosphate dihydrate into octacalcium phosphate with incorporated dicarboxylate ions. Journal of the Ceramic Society of Japan, 2018, 126, 462-468.	1.1	14
21	In-vitro heat-generating and apatite-forming abilities of PMMA bone cement containing TiO2 and Fe3O4. Ceramics International, 2021, 47, 12292-12299.	4.8	14
22	Formation of octacalcium phosphate with incorporated succinic acid through gel-mediated processing. Journal of the Ceramic Society of Japan, 2010, 118, 491-497.	1.1	13
23	Carbonate-containing hydroxyapatite synthesized by the hydrothermal treatment of different calcium carbonates in a phosphate-containing solution. Journal of Asian Ceramic Societies, 2015, 3, 287-291.	2.3	13
24	Preparation of a dense ytterbium disilicate layer via dual electron beam physical vapor deposition at high temperature. Materials Letters, 2017, 193, 176-178.	2.6	13
25	MINERALIZATION OF CALCIUM PHOSPHATE ON OCTACALCIUM PHOSPHATE IN A SOLUTION MIMICKING IN VIVO CONDITIONS. Phosphorus Research Bulletin, 2012, 26, 71-76.	0.6	12
26	Effects of polymer concentration on the morphology of calcium phosphate crystals formed in polyacrylamide hydrogels. Journal of Crystal Growth, 2013, 383, 166-171.	1.5	12
27	Regulation and Biological Significance of Formation of Osteoclasts and Foreign Body Giant Cells in an Extraskeletal Implantation Model. Acta Histochemica Et Cytochemica, 2016, 49, 97-107.	1.6	12
28	Crack Initiation Criteria in EBC under Thermal Stress. Coatings, 2019, 9, 697.	2.6	12
29	Ability of Hydroxyapatite Synthesized from Waste Oyster Shells to Remove Fluoride Ions. Materials Transactions, 2015, 56, 1509-1512.	1.2	11
30	Time Transient of Calcium and Phosphate Ion Adsorption by Rutile Crystal Facets in Hanksâ€™ Solution Characterized by XPS. Langmuir, 2021, 37, 3597-3604.	3.5	11
31	Calcium phosphate-forming ability of magnetite and related materials in a solution mimicking in vivo conditions. Journal of Asian Ceramic Societies, 2015, 3, 44-49.	2.3	10
32	Effect of silicate incorporation on in vivo responses of Î±-tricalcium phosphate ceramics. Journal of Materials Science: Materials in Medicine, 2016, 27, 97.	3.6	10
33	Photocatalytic properties and controlled morphologies of TiO2-modified hydroxyapatite synthesized by the urea-assisted hydrothermal method. Powder Technology, 2020, 373, 468-475.	4.2	9
34	Octacalcium phosphate with incorporated carboxylate ions: a review. Science and Technology of Advanced Materials, 2022, 23, 434-445.	6.1	9
35	Antibacterial properties of Cu-doped TiO₂ prepared by chemical and heat treatment of Ti metal. Journal of Asian Ceramic Societies, 2021, 9, 1448-1456.	2.3	7
36	Diversity of multinucleated giant cells by microstructures of hydroxyapatite and plasma components in extraskeletal implantation model. Acta Biomaterialia, 2016, 39, 180-191.	8.3	6

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37	Setting behaviour, mechanical properties and heat generation under alternate current magnetic fields of Fe₃O₄/TiO₂/PMMA composite bone cement. Medical Devices & Sensors, 2020, 3, e10114.	2.7	6
38	Fibronectin adsorption on carbonate-containing hydroxyapatite. Ceramics International, 2021, 47, 11769-11776.	4.8	6
39	Peculiarities of the formation, structural and morphological properties of zinc whitlockite (Ca₁₈Zn₂(HPO₄)₂(PO₄)₁₂) synthesized via a phase transformation process under hydrothermal conditions. CrystEngComm, 2022, 24, 5068-5079.	2.6	6
40	The development of novel calcium phosphateâ€“polymer composite biomaterials with macro- to nano-level controlled hierarchical structures. Journal of the Ceramic Society of Japan, 2019, 127, 715-721.	1.1	5
41	Understanding the Steric Structures of Dicarboxylate Ions Incorporated in Octacalcium Phosphate Crystals. Materials, 2021, 14, 2703.	2.9	5
42	Fluorescent properties of octacalcium phosphate with incorporated isophthalate ions. Journal of the Ceramic Society of Japan, 2022, 130, 337-340.	1.1	5
43	Formation of Stacked Disc-shaped Layered Double Hydroxides by Homogeneous Precipitation Method. Chemistry Letters, 2014, 43, 234-236.	1.3	4
44	Effects of carbonate inclusion on fluoride ion removal by hydroxyapatite: A discussion from the viewpoint of hydroxyapatite dissolution. Journal of the Ceramic Society of Japan, 2016, 124, 1211-1216.	1.1	4
45	Formation of Hydroxyapatite Crystals from Octacalcium Phosphate with Incorporated Succinate Ion under Hydrothermal Conditions. Chemistry Letters, 2019, 48, 855-858.	1.3	4
46	Experimental and computational study on sintering of ceramic coating layers with complex porous structures. Journal of the American Ceramic Society, 2020, 103, 2035-2047.	3.8	4
47	Adhesion Behavior of Microorganisms Isolated from Soil on Hydroxyapatite and Other Materials. Applied Biochemistry and Biotechnology, 2019, 187, 984-993.	2.9	3
48	Hydrothermal synthesis and preliminary cytotoxicity assessment of gadolinium borate nanoparticles for neutron capture therapy. Journal of Nanoparticle Research, 2021, 23, 1.	1.9	3
49	Apatite formation and bacterial growth on raw silk fabric heated in argon gas. Journal of Materials Science: Materials in Medicine, 2020, 31, 49.	3.6	3
50	Behaviour of calcium phosphate ester salts in a simulated body fluid modified with alkaline phosphatase: a new concept of ceramic biomaterials. Materials Advances, 2020, 1, 3215-3220.	5.4	3
51	Formation Process of Hydroxyapatite Granules in Agarose Hydrogel by Electrophoresis. Crystal Growth and Design, 2018, 18, 1961-1966.	3.0	2
52	Preparation of spherical porous hydroxyapatite granules as support materials for microorganisms. Journal of the Ceramic Society of Japan, 2018, 126, 732-735.	1.1	2
53	Proteomic identification of serum proteins to induce osteoconductivity of hydroxyapatite. Dental Materials Journal, 2021, 40, 1428-1436.	1.8	2
54	Incorporation behavior and biomedical applications of inorganic-layered compounds. , 2021, , 139-158.		1

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55	Unique Dicarboxylate Ion Incorporation in Octacalcium Phosphate. Key Engineering Materials, 2018, 782, 3-8.	0.4	0
56	Transformation behaviour of salts composed of calcium ions and phosphate esters with different linear alkyl chain structures in a simulated body fluid modified with alkaline phosphatase. Science and Technology of Advanced Materials, 0, , .	6.1	0