Ryo Hamai

List of Publications by Year
in descending order

24 papers	353 citations	1039406 9 h-index	839053 18 g-index
24 all docs	24 docs citations	24 times ranked	293 citing authors

#	Article	IF	Citations
1	Octacalcium phosphate crystals including a higher density dislocation improve its materials osteogenecity. Applied Materials Today, 2022, 26, 101279.	2.3	13
2	Angio-osteogenic capacity of octacalcium phosphate co-precipitated with copper gluconate in rat calvaria critical-sized defect. Science and Technology of Advanced Materials, 2022, 23, 120-139.	2.8	6
3	Differentiation of committed osteoblast progenitors by octacalcium phosphate compared to calcium-deficient hydroxyapatite in Lepr-cre/Tomato mouse tibia. Acta Biomaterialia, 2022, 142, 332-344.	4.1	4
4	Octacalcium Phosphate/Gelatin Composite (OCP/Gel) Enhances Bone Repair in a Critical-sized Transcortical Femoral Defect Rat Model. Clinical Orthopaedics and Related Research, 2022, 480, 2043-2055.	0.7	7
5	Impact of simultaneous hydrolysis of OCP and PLGA on bone induction of a PLGA-OCP composite scaffold in a rat femoral defect. Acta Biomaterialia, 2021, 124, 358-373.	4.1	23
6	Mutual chemical effect of autograft and octacalcium phosphate implantation on enhancing intramembranous bone regeneration. Science and Technology of Advanced Materials, 2021, 22, 345-362.	2.8	11
7	Involvement of distant octacalcium phosphate scaffolds in enhancing early differentiation of osteocytes during bone regeneration. Acta Biomaterialia, 2021, 129, 309-322.	4.1	18
8	Bone Tissue Response to Different Grown Crystal Batches of Octacalcium Phosphate in Rat Long Bone Intramedullary Canal Area. International Journal of Molecular Sciences, 2021, 22, 9770.	1.8	5
9	Macrophage Polarization Related to Crystal Phases of Calcium Phosphate Biomaterials. International Journal of Molecular Sciences, 2021, 22, 11252.	1.8	17
10	Novel scaffold composites containing octacalcium phosphate and their role in bone repair. , 2020, , 121-145.		0
11	Octacalcium phosphate bone substitute materials: Comparison between properties of biomaterials and other calcium phosphate materials. Dental Materials Journal, 2020, 39, 187-199.	0.8	48
12	Chemical Stability-Sensitive Osteoconductive Performance of Octacalcium Phosphate Bone Substitute in an Ovariectomized Rat Tibia Defect. ACS Applied Bio Materials, 2020, 3, 1444-1458.	2.3	9
13	Effect of Surrounding Chemical Environment on Adsorption and Accumulation of Serum Protein onto Octacalcium Phosphate Crystals. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2020, 67, 258-263.	0.1	0
14	Comparative analysis of bovine serum albumin adsorption onto octacalcium phosphate crystals prepared using different methods. Dental Materials Journal, 2020, 39, 883-891.	0.8	6
15	Adsorption of Serum Albumin onto Octacalcium Phosphate in Supersaturated Solutions Regarding Calcium Phosphate Phases. Materials, 2019, 12, 2333.	1.3	11
16	Culture of hybrid spheroids composed of calcium phosphate materials and mesenchymal stem cells on an oxygen-permeable culture device to predict in vivo bone forming capability. Acta Biomaterialia, 2019, 88, 477-490.	4.1	22
17	Angiogenesis involvement by octacalcium phosphate-gelatin composite-driven bone regeneration in rat calvaria critical-sized defect. Acta Biomaterialia, 2019, 88, 514-526.	4.1	49
18	Structural effects of phosphate groups on apatite formation in a copolymer modified with Ca²⁺ in a simulated body fluid. Journal of Materials Chemistry B, 2018, 6, 174-182.	2.9	7

#	Article	IF	Citations
19	Structural Effects of Sulfur-Containing Functional Groups on Apatite Formation on Ca²⁺-Modified Copolymers in a Simulated Body Environment. ACS Omega, 2018, 3, 5627-5633.	1.6	10
20	Apatite formation on a hydrogel containing sulfinic acid group under physiological conditions. , 2017, 105, 1924-1929.		4
21	Apatite-forming ability of vinylphosphonic acid-based copolymer in simulated body fluid: effects of phosphate group content. Journal of Materials Science: Materials in Medicine, 2016, 27, 152.	1.7	4
22	Biomineralization behavior of a vinylphosphonic acid-based copolymer added with polymerization accelerator in simulated body fluid. Journal of Asian Ceramic Societies, 2015, 3, 407-411.	1.0	4
23	Morphology control of brushite prepared by aqueous solution synthesis. Journal of Asian Ceramic Societies, 2014, 2, 52-56.	1.0	67
24	Effect of Anions on Morphology Control of Brushite Particles. Key Engineering Materials, 0, 529-530, 55-60.	0.4	8