

Ryo Hamai

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

353
citations

1039406

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all docs

24
docs citations

24
times ranked

293
citing authors

#	ARTICLE	IF	CITATIONS
1	Morphology control of brushite prepared by aqueous solution synthesis. <i>Journal of Asian Ceramic Societies</i> , 2014, 2, 52-56.	1.0	67
2	Angiogenesis involvement by octacalcium phosphate-gelatin composite-driven bone regeneration in rat calvaria critical-sized defect. <i>Acta Biomaterialia</i> , 2019, 88, 514-526.	4.1	49
3	Octacalcium phosphate bone substitute materials: Comparison between properties of biomaterials and other calcium phosphate materials. <i>Dental Materials Journal</i> , 2020, 39, 187-199.	0.8	48
4	Impact of simultaneous hydrolysis of OCP and PLGA on bone induction of a PLGA-OCP composite scaffold in a rat femoral defect. <i>Acta Biomaterialia</i> , 2021, 124, 358-373.	4.1	23
5	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. <i>Acta Biomaterialia</i> , 2019, 88, 477-490.	4.1	22
6	Involvement of distant octacalcium phosphate scaffolds in enhancing early differentiation of osteocytes during bone regeneration. <i>Acta Biomaterialia</i> , 2021, 129, 309-322.	4.1	18
7	Macrophage Polarization Related to Crystal Phases of Calcium Phosphate Biomaterials. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11252.	1.8	17
8	Octacalcium phosphate crystals including a higher density dislocation improve its materials osteogenicity. <i>Applied Materials Today</i> , 2022, 26, 101279.	2.3	13
9	Adsorption of Serum Albumin onto Octacalcium Phosphate in Supersaturated Solutions Regarding Calcium Phosphate Phases. <i>Materials</i> , 2019, 12, 2333.	1.3	11
10	Mutual chemical effect of autograft and octacalcium phosphate implantation on enhancing intramembranous bone regeneration. <i>Science and Technology of Advanced Materials</i> , 2021, 22, 345-362.	2.8	11
11	Structural Effects of Sulfur-Containing Functional Groups on Apatite Formation on Ca ²⁺ -Modified Copolymers in a Simulated Body Environment. <i>ACS Omega</i> , 2018, 3, 5627-5633.	1.6	10
12	Chemical Stability-Sensitive Osteoconductive Performance of Octacalcium Phosphate Bone Substitute in an Ovariectomized Rat Tibia Defect. <i>ACS Applied Bio Materials</i> , 2020, 3, 1444-1458.	2.3	9
13	Effect of Anions on Morphology Control of Brushite Particles. <i>Key Engineering Materials</i> , 0, 529-530, 55-60.	0.4	8
14	Structural effects of phosphate groups on apatite formation in a copolymer modified with Ca ²⁺ in a simulated body fluid. <i>Journal of Materials Chemistry B</i> , 2018, 6, 174-182.	2.9	7
15	Octacalcium Phosphate/Gelatin Composite (OCP/Gel) Enhances Bone Repair in a Critical-sized Transcortical Femoral Defect Rat Model. <i>Clinical Orthopaedics and Related Research</i> , 2022, 480, 2043-2055.	0.7	7
16	Comparative analysis of bovine serum albumin adsorption onto octacalcium phosphate crystals prepared using different methods. <i>Dental Materials Journal</i> , 2020, 39, 883-891.	0.8	6
17	Angio-osteogenic capacity of octacalcium phosphate co-precipitated with copper gluconate in rat calvaria critical-sized defect. <i>Science and Technology of Advanced Materials</i> , 2022, 23, 120-139.	2.8	6
18	Bone Tissue Response to Different Grown Crystal Batches of Octacalcium Phosphate in Rat Long Bone Intramedullary Canal Area. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9770.	1.8	5

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19	Biom mineralization behavior of a vinylphosphonic acid-based copolymer added with polymerization accelerator in simulated body fluid. <i>Journal of Asian Ceramic Societies</i> , 2015, 3, 407-411.	1.0	4
20	Apatite-forming ability of vinylphosphonic acid-based copolymer in simulated body fluid: effects of phosphate group content. <i>Journal of Materials Science: Materials in Medicine</i> , 2016, 27, 152.	1.7	4
21	Apatite formation on a hydrogel containing sulfinic acid group under physiological conditions. , 2017, 105, 1924-1929.		4
22	Differentiation of committed osteoblast progenitors by octacalcium phosphate compared to calcium-deficient hydroxyapatite in <i>Lepr-cre/Tomato</i> mouse tibia. <i>Acta Biomaterialia</i> , 2022, 142, 332-344.	4.1	4
23	Novel scaffold composites containing octacalcium phosphate and their role in bone repair. , 2020, , 121-145.		0
24	Effect of Surrounding Chemical Environment on Adsorption and Accumulation of Serum Protein onto Octacalcium Phosphate Crystals. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2020, 67, 258-263.	0.1	0