Kunio Ishikawa

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

112 papers	2,407 citations	26 h-index	44 g-index
118 ext. papers	2,824 ext. citations	4.1 avg, IF	5.49 L-index

#	Paper	IF	Citations
112	In vivo setting behaviour of fast-setting calcium phosphate cement. *Biomaterials*, **1995**, 16, 855-60	15.6	171
111	Bone Substitute Fabrication Based on Dissolution-Precipitation Reactions. *Materials*, **2010**, 3, 1138-1155	3.5	143
110	Properties and mechanisms of fast-setting calcium phosphate cements. *Journal of Materials Science: Materials in Medicine*, **1995**, 6, 528-533	4.5	123
109	Basic properties of calcium phosphate cement containing atelocollagen in its liquid or powder phases. *Biomaterials*, **1998**, 19, 707-15	15.6	118
108	Non-decay type fast-setting calcium phosphate cement: hydroxyapatite putty containing an increased amount of sodium alginate. *Journal of Biomedical Materials Research Part B*, **1997**, 36, 393-9		103
107	Effects of added antibiotics on the basic properties of anti-washout-type fast-setting calcium phosphate cement. *Journal of Biomedical Materials Research Part B*, **1998**, 39, 308-16		81
106	Effects of apatite cements on proliferation and differentiation of human osteoblasts in vitro. *Biomaterials*, **2004**, 25, 1159-66	15.6	78
105	Tissue response to fast-setting calcium phosphate cement in bone. *Journal of Biomedical Materials Research Part B*, **1997**, 37, 457-64		77
104	Non-decay type fast-setting calcium phosphate cement: setting behaviour in calf serum and its tissue response. *Biomaterials*, **1996**, 17, 1429-35	15.6	71
103	Blast coating method: new method of coating titanium surface with hydroxyapatite at room temperature. *Journal of Biomedical Materials Research Part B*, **1997**, 38, 129-34		53
102	Effects of low crystalline carbonate apatite on proliferation and osteoblastic differentiation of human bone marrow cells. *Journal of Materials Science: Materials in Medicine*, **2015**, 26, 99	4.5	51
101	Fabrication of low crystalline B-type carbonate apatite block from low crystalline calcite block. *Journal of the Ceramic Society of Japan*, **2010**, 118, 341-344	1	49
100	Effects of neutral sodium hydrogen phosphate on setting reaction and mechanical strength of hydroxyapatite putty. *Journal of Biomedical Materials Research Part B*, **1999**, 44, 322-9		44
99	Fabrication of freeform bone-filling calcium phosphate ceramics by gypsum 3D printing method. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2009**, 90, 531-9	3.5	43
98	Characterization of macroporous carbonate-substituted hydroxyapatite bodies prepared in different phosphate solutions. *Journal of Materials Science*, **2007**, 42, 7843-7849	4.3	43
97	Effects of sintering temperature over 1,300 degrees C on the physical and compositional properties of porous hydroxyapatite foam. *Dental Materials Journal*, **2006**, 25, 51-8	2.5	43
96	Fabrication of low-crystalline carbonate apatite foam bone replacement based on phase transformation of calcite foam. *Dental Materials Journal*, **2011**, 30, 14-20	2.5	39

95	Physical and Histological Comparison of Hydroxyapatite, Carbonate Apatite, and □Tricalcium Phosphate Bone Substitutes. *Materials*, **2018**, 11,	3.5	39
94	Fabrication of low-crystallinity hydroxyapatite foam based on the setting reaction of alpha-tricalcium phosphate foam. *Journal of Biomedical Materials Research - Part A*, **2009**, 88, 628-33	5.4	32
93	Transformation of 3DP gypsum model to HA by treating in ammonium phosphate solution. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2007**, 80, 386-93	3.5	29
92	Effects of macropore size in carbonate apatite honeycomb scaffolds on bone regeneration. *Materials Science and Engineering C*, **2020**, 111, 110848	8.3	28
91	Fabrication of solid and hollow carbonate apatite microspheres as bone substitutes using calcite microspheres as a precursor. *Dental Materials Journal*, **2012**, 31, 549-57	2.5	28
90	Carbonate apatite bone replacement: learn from the bone. *Journal of the Ceramic Society of Japan*, **2019**, 127, 595-601	1	27
89	Histological Comparison in Rats between Carbonate Apatite Fabricated from Gypsum and Sintered Hydroxyapatite on Bone Remodeling. *BioMed Research International*, **2015**, 2015, 579541	3	27
88	Effect of molding pressure on fabrication of low-crystalline calcite block. *Journal of Materials Science: Materials in Medicine*, **2008**, 19, 479-84	4.5	27
87	Fabrication of porous low crystalline calcite block by carbonation of calcium hydroxide compact. *Journal of Materials Science: Materials in Medicine*, **2007**, 18, 1361-7	4.5	26
86	Evaluation of carbonate apatite blocks fabricated from dicalcium phosphate dihydrate blocks for reconstruction of rabbit femoral and tibial defects. *Journal of Materials Science: Materials in Medicine*, **2017**, 28, 85	4.5	25
85	Fabrication of Carbonate Apatite Block through a Dissolution-Precipitation Reaction Using Calcium Hydrogen Phosphate Dihydrate Block as a Precursor. *Materials*, **2017**, 10,	3.5	24
84	Fabrication of B-type carbonate apatite blocks by the phosphorization of free-molding gypsum-calcite composite. *Dental Materials Journal*, **2008**, 27, 710-5	2.5	24
83	Carbonate Apatite Micro-Honeycombed Blocks Generate Bone Marrow-Like Tissues as well as Bone. *Advanced Biology*, **2019**, 3, e1900140	3.5	23
82	Granular Honeycombs Composed of Carbonate Apatite, Hydroxyapatite, and □Tricalcium Phosphate as Bone Graft Substitutes: Effects of Composition on Bone Formation and Maturation.. *ACS Applied Bio Materials*, **2020**, 3, 1787-1795	4.1	22
81	A superhydrophilic titanium implant functionalized by ozone gas modulates bone marrow cell and macrophage responses. *Journal of Materials Science: Materials in Medicine*, **2016**, 27, 127	4.5	22
80	Fabrication of carbonate apatite block based on internal dissolution-precipitation reaction of dicalcium phosphate and calcium carbonate. *Dental Materials Journal*, **2010**, 29, 303-8	2.5	22
79	Effects of apatite foam combined with platelet-rich plasma on regeneration of bone defects. *Dental Materials Journal*, **2006**, 25, 591-6	2.5	21
78	Fabrication of carbonate apatite blocks from set gypsum based on dissolution-precipitation reaction in phosphate-carbonate mixed solution. *Dental Materials Journal*, **2014**, 33, 166-72	2.5	20

77	Fabrication of biporous low-crystalline apatite based on mannitol dissolution from apatite cement. *Dental Materials Journal*, **2006**, 25, 616-20	2.5	20
76	Effects of nanopores on the mechanical strength, osteoclastogenesis, and osteogenesis in honeycomb scaffolds. *Journal of Materials Chemistry B*, **2020**, 8, 8536-8545	7.3	20
75	Surface plasma treatment and phosphorylation enhance the biological performance of poly(ether ether ketone). *Colloids and Surfaces B: Biointerfaces*, **2019**, 173, 36-42	6	20
74	Fabrication of interconnected porous calcium-deficient hydroxyapatite using the setting reaction of □tricalcium phosphate spherical granules. *Ceramics International*, **2017**, 43, 11149-11155	5.1	19
73	Setting reaction of □TCP spheres and an acidic calcium phosphate solution for the fabrication of fully interconnected macroporous calcium phosphate. *Ceramics International*, **2015**, 41, 13525-13531	5.1	19
72	Effects of sintering temperature on physical and compositional properties of alpha-tricalcium phosphate foam. *Dental Materials Journal*, **2010**, 29, 154-9	2.5	19
71	Maxillary Sinus Floor Augmentation Using Low-Crystalline Carbonate Apatite Granules With Simultaneous Implant Installation: First-in-Human Clinical Trial. *Journal of Oral and Maxillofacial Surgery*, **2019**, 77, 985.e1-985.e11	1.8	18
70	Fabrication of carbonate apatite foam based on the setting reaction of □tricalcium phosphate foam granules. *Ceramics International*, **2016**, 42, 204-210	5.1	17
69	Compositional and histological comparison of carbonate apatite fabricated by dissolution-precipitation reaction and Bio-Oss. *Journal of Materials Science: Materials in Medicine*, **2018**, 29, 121	4.5	17
68	Fabrication of dicalcium phosphate dihydrate-coated □TCP granules and evaluation of their osteoconductivity using experimental rats. *Materials Science and Engineering C*, **2017**, 75, 1411-1419	8.3	16
67	Effects of humidity on calcite block fabrication using calcium hydroxide compact. *Ceramics International*, **2015**, 41, 9482-9487	5.1	16
66	Fabrication of interconnected porous calcite by bridging calcite granules with dicalcium phosphate dihydrate and their histological evaluation. *Journal of Biomedical Materials Research - Part A*, **2016**, 104, 652-658	5.4	16
65	Fabrication of interconnected pore forming □tricalcium phosphate foam granules cement. *Journal of Biomaterials Applications*, **2016**, 30, 838-45	2.9	15
64	Calcium Phosphate Cement. *Springer Series in Biomaterials Science and Engineering*, **2014**, 199-227	0.6	15
63	Effect of temperature on crystallinity of carbonate apatite foam prepared from alpha-tricalcium phosphate by hydrothermal treatment. *Bio-Medical Materials and Engineering*, **2009**, 19, 205-11	1	14
62	Fabrication and evaluation of interconnected porous carbonate apatite from alpha tricalcium phosphate spheres. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2019**, 107, 269-277	3.5	14
61	Fabrication of carbonate apatite honeycomb and its tissue response. *Journal of Biomedical Materials Research - Part A*, **2019**, 107, 1014-1020	5.4	14
60	Fabrication of □TCP foam: Effects of magnesium oxide as phase stabilizer on its properties. *Ceramics International*, **2015**, 41, 14245-14250	5.1	13

59	Fabrication of self-setting βtricalcium phosphate granular cement. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2018**, 106, 800-807	3.5	13
58	Effects of liquid phase on basic properties of alpha-tricalcium phosphate-based apatite cement. *Dental Materials Journal*, **2008**, 27, 672-7	2.5	13
57	Honeycomb Scaffolds Fabricated Using Extrusion Molding and the Sphere-Packing Theory for Bone Regeneration. *ACS Applied Bio Materials*, **2021**, 4, 721-730	4.1	13
56	Development of macropores in calcium carbonate body using novel carbonation method of calcium hydroxide/sodium chloride composite. *Journal of Materials Science*, **2007**, 42, 5728-5735	4.3	12
55	Initial evaluation of a ceramic form as a reconstructive material for bone defects. *Dental Materials Journal*, **2000**, 19, 381-8	2.5	12
54	Carbonate apatite granules with uniformly sized pores that arrange regularly and penetrate straight through granules in one direction for bone regeneration. *Ceramics International*, **2019**, 45, 15429-15434	5.1	11
53	Effects of the method of apatite seed crystals addition on setting reaction of αtricalcium phosphate based apatite cement. *Journal of Materials Science: Materials in Medicine*, **2015**, 26, 244	4.5	11
52	Fabrication of octacalcium phosphate foam through phase conversion and its histological evaluation. *Materials Letters*, **2018**, 212, 28-31	3.3	11
51	Fabrication of microporous calcite block from calcium hydroxide compact under carbon dioxide atmosphere at high temperature. *Dental Materials Journal*, **2012**, 31, 593-600	2.5	11
50	Histological comparison of three apatitic bone substitutes with different carbonate contents in alveolar bone defects in a beagle mandible with simultaneous implant installation. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2020**, 108, 1450-1459	3.5	11
49	Fabrication of porous calcite using chopped nylon fiber and its evaluation using rats. *Journal of Materials Science: Materials in Medicine*, **2015**, 26, 94	4.5	10
48	Effect of precursor^|^apos;s solubility on the mechanical property of hydroxyapatite formed by dissolution-precipitation reaction of tricalcium phosphate. *Dental Materials Journal*, **2012**, 31, 995-1000	2.5	10
47	Effect of citric acid on setting reaction and tissue response to βTCP granular cement. *Biomedical Materials (Bristol)*, **2017**, 12, 015027	3.5	8
46	Fabrication of Si-substituted hydroxyapatite foam using calcium silicates. *Journal of the Ceramic Society of Japan*, **2008**, 116, 88-91	1	8
45	Effects of acidic calcium phosphate concentration on mechanical strength of porous calcite fabricated by bridging with dicalcium phosphate dihydrate. *Ceramics International*, **2016**, 42, 7912-7917	5.1	8
44	Fabrication and evaluation of carbonate apatite-coated calcium carbonate bone substitutes for bone tissue engineering. *Journal of Tissue Engineering and Regenerative Medicine*, **2018**, 12, 2077-2087	4.4	7
43	Effect of Corrosion Behavior of Pure Titanium and Titanium Alloy on Fluoride Addition in Acidic Environment by Streptococcus mutans (Corrosion Behavior of Titanium by Fluoride and Streptococcus mutans). *Prosthodontic Research & Practice*, **2008**, 7, 34-39		7
42	Application of low-crystalline carbonate apatite granules in 2-stage sinus floor augmentation: a prospective clinical trial and histomorphometric evaluation. *Journal of Periodontal and Implant Science*, **2019**, 49, 382-396	2	7

41	Rapid Osseointegration Bestowed by Carbonate Apatite Coating of Rough Titanium. *Advanced Materials Interfaces*, **2020**, 7, 2000636	4.6	7
40	Fabrication of calcite blocks from gypsum blocks by compositional transformation based on dissolution-precipitation reactions in sodium carbonate solution. *Materials Science and Engineering C*, **2017**, 72, 389-393	8.3	6
39	A novel synthetic approach to low-crystallinity calcium deficient hydroxyapatite. *Ceramics International*, **2019**, 45, 15620-15623	5.1	6
38	Fabrication of three-dimensional interconnected porous blocks composed of robust carbonate apatite frameworks. *Ceramics International*, **2020**, 46, 20045-20049	5.1	6
37	Feasibility evaluation of low-crystallinity β-tricalcium phosphate blocks as a bone substitute fabricated by a dissolution-precipitation reaction from α-tricalcium phosphate blocks. *Journal of Biomaterials Applications*, **2018**, 33, 259-270	2.9	6
36	Biological responses of MC3T3-E1 on calcium carbonate coatings fabricated by hydrothermal reaction on titanium. *Biomedical Materials (Bristol)*, **2020**, 15, 035004	3.5	6
35	Bone regeneration using β-tricalcium phosphate (β-TCP) block with interconnected pores made by setting reaction of β-TCP granules. *Journal of Biomedical Materials Research - Part A*, **2020**, 108, 625-632	5.4	6
34	Three-Dimensional Porous Carbonate Apatite with Sufficient Mechanical Strength as a Bone Substitute Material. *Advanced Materials Research*, **2014**, 891-892, 1559-1564	0.5	5
33	Fabrication and Physical Evaluation of Gelatin-Coated Carbonate Apatite Foam. *Materials*, **2016**, 9,	3.5	5
32	Fabrication of pure octacalcium phosphate blocks from dicalcium hydrogen phosphate dihydrate blocks via a dissolution–precipitation reaction in a basic solution. *Materials Letters*, **2019**, 239, 143-146	3.3	5
31	Fabrication of calcite-coated rough-surface titanium using calcium nitrate. *Surface and Coatings Technology*, **2018**, 356, 72-79	4.4	5
30	Carbonate apatite artificial bone. *Science and Technology of Advanced Materials*, **2021**, 22, 683-694	7.1	5
29	Fabrication of carbonate apatite blocks from octacalcium phosphate blocks through different phase conversion mode depending on carbonate concentration. *Journal of Solid State Chemistry*, **2018**, 267, 85-91	3.3	4
28	Comparison of apatite-coated titanium prepared by blast coating and flame spray methods--evaluation using simulated body fluid and initial histological study. *Dental Materials Journal*, **2011**, 30, 431-7	2.5	4
27	No-Observed-Effect Level of Silver Phosphate in Carbonate Apatite Artificial Bone on Initial Bone Regeneration. *ACS Infectious Diseases*, **2021**,	5.5	4
26	Fabrication and Histological Evaluation of a Fully Interconnected Porous COAp Block Formed by Hydrate Expansion of CaO Granules.. *ACS Applied Bio Materials*, **2020**, 3, 8872-8878	4.1	4
25	Fabrication of interconnected porous β-tricalcium phosphate (β-TCP) based on a setting reaction of β-TCP granules with HNO followed by heat treatment. *Journal of Biomedical Materials Research - Part A*, **2018**, 106, 797-804	5.4	4
24	PO4 adsorption on the calcite surface modulates calcite formation and crystal size. *American Mineralogist*, **2019**, 104, 1381-1388	2.9	3

23	"Fabrication of arbitrarily shaped carbonate apatite foam based on the interlocking process of dicalcium hydrogen phosphate dihydrate". *Journal of Materials Science: Materials in Medicine*, **2017**, 28, 122	4.5	3
22	HYDROLYSIS OF CALCITE IN POTASSIUM PHOSPHATE SOLUTIONS. *Phosphorus Research Bulletin*, **2004**, 17, 159-164	0.3	3
21	Histological evaluation of apatite cement containing atelocollagen. *Dental Materials Journal*, **2007**, 26, 194-200	2.5	3
20	Fabrication of porous carbonate apatite granules using microfiber and its histological evaluations in rabbit calvarial bone defects. *Journal of Biomedical Materials Research - Part A*, **2020**, 108, 709-721	5.4	3
19	Effects of Apatite Cement Containing Atelocollagen on Attachment to and Proliferation and Differentiation of MC3T3-E1 Osteoblastic Cells. *Materials*, **2016**, 9,	3.5	3
18	Fabrication and Histological Evaluation of Porous Carbonate Apatite Block from Gypsum Block Containing Spherical Phenol Resin as a Porogen. *Materials*, **2019**, 12,	3.5	3
17	Effects of carbonate ions in phosphate solution on the fabrication of carbonate apatite through a dissolutionprecipitation reaction. *Ceramics International*, **2021**,	5.1	3
16	Effect of precursors solubility on the mechanical property of hydroxyapatite formed by dissolution-precipitation reaction of tricalcium phosphate. *Dental Materials Journal*, **2012**, 31, 995-1000	2.5	3
15	Effects of PLGA reinforcement methods on the mechanical property of carbonate apatite foam. *Bio-Medical Materials and Engineering*, **2014**, 24, 1817-25	1	2
14	Fabrication of highly interconnected porous carbonate apatite blocks based on the setting reaction of calcium sulfate hemihydrate granules. *Ceramics International*, **2021**, 47, 19856-19863	5.1	2
13	Effects of pore interconnectivity on bone regeneration in carbonate apatite blocks.. *International Journal of Energy Production and Management*, **2022**, 9, rbac010	5.3	2
12	Bone Cements Utilised for the Reconstruction of Hard Tissue: Basic Understanding and Recent Topics **2017**, 151-186		1
11	Effects of Channels and Micropores in Honeycomb Scaffolds on the Reconstruction of Segmental Bone Defects.. *Frontiers in Bioengineering and Biotechnology*, **2022**, 10, 825831	5.8	1
10	Multiscale porous scaffolds constructed of carbonate apatite honeycomb granules for bone regeneration. *Materials and Design*, **2022**, 215, 110468	8.1	1
9	Feasibility study on surface morphology regulation of tricalcium phosphate bone graft for enhancing cellular response. *Ceramics International*, **2022**, 48, 13395-13399	5.1	1
8	Fabrication of vaterite blocks from a calcium hydroxide compact. *Ceramics International*, **2021**, 48, 4153-4153	5.1	0
7	Enhancement of bone to polylactic acid plate bonding by carbonate apatite coating. *Ceramics International*, **2021**, 47, 28348-28356	5.1	0
6	Preparation of Porous TCP Block by Fusion of DCPD Coated TCP Spheres. *Key Engineering Materials*, **2016**, 696, 57-59	0.4	

5	Fabrication of [illegible]CP Foam Using [illegible]CP Foam as a Precursor by Heat Treatment. *Key Engineering Materials*, **2012**, 529-530, 15-18	0.4
4	Development of Self-Setting Calcium Hydroxide Preparation Using Dicalcium Phosphate Anhydrous and Sodium Hydrogen Phosphate Aqueous Solution. *Journal of the Ceramic Society of Japan*, **2004**, 112, 434-439	
3	Fabrication of Fully Artificial Carbonate Apatite Bone Substitutes. *Springer Series in Biomaterials Science and Engineering*, **2022**, 127-155	0.6
2	GPU-Accelerated Enhanced Marching Cubes 33 for Fast 3D Reconstruction of Large Bone Defect CT Images. *Lecture Notes in Computer Science*, **2021**, 374-384	0.9
1	Fabrication of an interconnected porous [illegible]-tricalcium phosphate structure by polyacrylic acid-mediated setting reaction and sintering. *Journal of the Ceramic Society of Japan*, **2020**, 128, 555-559	1