

# Kunio Ishikawa

## List of Publications by Year in Descending Order

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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	Fabrication of Fully Artificial Carbonate Apatite Bone Substitutes. <i>Springer Series in Biomaterials Science and Engineering</i> , <b>2022</b> , 127-155	0.6	
111	Effects of pore interconnectivity on bone regeneration in carbonate apatite blocks.. <i>International Journal of Energy Production and Management</i> , <b>2022</b> , 9, rbac010	5.3	2
110	Effects of Channels and Micropores in Honeycomb Scaffolds on the Reconstruction of Segmental Bone Defects.. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2022</b> , 10, 825831	5.8	1
109	Multiscale porous scaffolds constructed of carbonate apatite honeycomb granules for bone regeneration. <i>Materials and Design</i> , <b>2022</b> , 215, 110468	8.1	1
108	Feasibility study on surface morphology regulation of Tricalcium phosphate bone graft for enhancing cellular response. <i>Ceramics International</i> , <b>2022</b> , 48, 13395-13399	5.1	1
107	No-Observed-Effect Level of Silver Phosphate in Carbonate Apatite Artificial Bone on Initial Bone Regeneration. <i>ACS Infectious Diseases</i> , <b>2021</b> ,	5.5	4
106	GPU-Accelerated Enhanced Marching Cubes 33 for Fast 3D Reconstruction of Large Bone Defect CT Images. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 374-384	0.9	
105	Fabrication of vaterite blocks from a calcium hydroxide compact. <i>Ceramics International</i> , <b>2021</b> , 48, 4153-4153	4.1	0
104	Fabrication of highly interconnected porous carbonate apatite blocks based on the setting reaction of calcium sulfate hemihydrate granules. <i>Ceramics International</i> , <b>2021</b> , 47, 19856-19863	5.1	2
103	Honeycomb Scaffolds Fabricated Using Extrusion Molding and the Sphere-Packing Theory for Bone Regeneration. <i>ACS Applied Bio Materials</i> , <b>2021</b> , 4, 721-730	4.1	13
102	Carbonate apatite artificial bone. <i>Science and Technology of Advanced Materials</i> , <b>2021</b> , 22, 683-694	7.1	5
101	Effects of carbonate ions in phosphate solution on the fabrication of carbonate apatite through a dissolution-precipitation reaction. <i>Ceramics International</i> , <b>2021</b> ,	5.1	3
100	Enhancement of bone to polylactic acid plate bonding by carbonate apatite coating. <i>Ceramics International</i> , <b>2021</b> , 47, 28348-28356	5.1	0
99	Effects of macropore size in carbonate apatite honeycomb scaffolds on bone regeneration. <i>Materials Science and Engineering C</i> , <b>2020</b> , 111, 110848	8.3	28
98	Fabrication of three-dimensional interconnected porous blocks composed of robust carbonate apatite frameworks. <i>Ceramics International</i> , <b>2020</b> , 46, 20045-20049	5.1	6
97	Granular Honeycombs Composed of Carbonate Apatite, Hydroxyapatite, and Tricalcium Phosphate as Bone Graft Substitutes: Effects of Composition on Bone Formation and Maturation.. <i>ACS Applied Bio Materials</i> , <b>2020</b> , 3, 1787-1795	4.1	22
96	Fabrication of an interconnected porous Tricalcium phosphate structure by polyacrylic acid-mediated setting reaction and sintering. <i>Journal of the Ceramic Society of Japan</i> , <b>2020</b> , 128, 555-559 <sup>1</sup>		

95	Fabrication and Histological Evaluation of a Fully Interconnected Porous COAp Block Formed by Hydrate Expansion of CaO Granules.. <i>ACS Applied Bio Materials</i> , <b>2020</b> , 3, 8872-8878	4.1	4
94	Histological comparison of three apatitic bone substitutes with different carbonate contents in alveolar bone defects in a beagle mandible with simultaneous implant installation. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2020</b> , 108, 1450-1459	3.5	11
93	Biological responses of MC3T3-E1 on calcium carbonate coatings fabricated by hydrothermal reaction on titanium. <i>Biomedical Materials (Bristol)</i> , <b>2020</b> , 15, 035004	3.5	6
92	Bone regeneration using $\beta$ -tricalcium phosphate ( $\beta$ -TCP) block with interconnected pores made by setting reaction of $\beta$ -TCP granules. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2020</b> , 108, 625-632	5.4	6
91	Fabrication of porous carbonate apatite granules using microfiber and its histological evaluations in rabbit calvarial bone defects. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2020</b> , 108, 709-721	5.4	3
90	Effects of nanopores on the mechanical strength, osteoclastogenesis, and osteogenesis in honeycomb scaffolds. <i>Journal of Materials Chemistry B</i> , <b>2020</b> , 8, 8536-8545	7.3	20
89	Rapid Osseointegration Bestowed by Carbonate Apatite Coating of Rough Titanium. <i>Advanced Materials Interfaces</i> , <b>2020</b> , 7, 2000636	4.6	7
88	Carbonate apatite bone replacement: learn from the bone. <i>Journal of the Ceramic Society of Japan</i> , <b>2019</b> , 127, 595-601	1	27
87	Carbonate apatite granules with uniformly sized pores that arrange regularly and penetrate straight through granules in one direction for bone regeneration. <i>Ceramics International</i> , <b>2019</b> , 45, 15429-15434	5.1	11
86	A novel synthetic approach to low-crystallinity calcium deficient hydroxyapatite. <i>Ceramics International</i> , <b>2019</b> , 45, 15620-15623	5.1	6
85	Carbonate Apatite Micro-Honeycombed Blocks Generate Bone Marrow-Like Tissues as well as Bone. <i>Advanced Biology</i> , <b>2019</b> , 3, e1900140	3.5	23
84	PO4 adsorption on the calcite surface modulates calcite formation and crystal size. <i>American Mineralogist</i> , <b>2019</b> , 104, 1381-1388	2.9	3
83	Application of low-crystalline carbonate apatite granules in 2-stage sinus floor augmentation: a prospective clinical trial and histomorphometric evaluation. <i>Journal of Periodontal and Implant Science</i> , <b>2019</b> , 49, 382-396	2	7
82	Fabrication and Histological Evaluation of Porous Carbonate Apatite Block from Gypsum Block Containing Spherical Phenol Resin as a Porogen. <i>Materials</i> , <b>2019</b> , 12,	3.5	3
81	Surface plasma treatment and phosphorylation enhance the biological performance of poly(ether ether ketone). <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2019</b> , 173, 36-42	6	20
80	Fabrication of pure octacalcium phosphate blocks from dicalcium hydrogen phosphate dihydrate blocks via a dissolution-precipitation reaction in a basic solution. <i>Materials Letters</i> , <b>2019</b> , 239, 143-146	3.3	5
79	Maxillary Sinus Floor Augmentation Using Low-Crystalline Carbonate Apatite Granules With Simultaneous Implant Installation: First-in-Human Clinical Trial. <i>Journal of Oral and Maxillofacial Surgery</i> , <b>2019</b> , 77, 985.e1-985.e11	1.8	18
78	Fabrication and evaluation of interconnected porous carbonate apatite from alpha tricalcium phosphate spheres. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2019</b> , 107, 269-277	3.5	14

77	Fabrication of carbonate apatite honeycomb and its tissue response. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2019</b> , 107, 1014-1020	5.4	14
76	Fabrication of self-setting tricalcium phosphate granular cement. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2018</b> , 106, 800-807	3.5	13
75	Fabrication of octacalcium phosphate foam through phase conversion and its histological evaluation. <i>Materials Letters</i> , <b>2018</b> , 212, 28-31	3.3	11
74	Fabrication and evaluation of carbonate apatite-coated calcium carbonate bone substitutes for bone tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2018</b> , 12, 2077-2087	4.4	7
73	Compositional and histological comparison of carbonate apatite fabricated by dissolution-precipitation reaction and Bio-Oss. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2018</b> , 29, 121	4.5	17
72	Feasibility evaluation of low-crystallinity tricalcium phosphate blocks as a bone substitute fabricated by a dissolution-precipitation reaction from tricalcium phosphate blocks. <i>Journal of Biomaterials Applications</i> , <b>2018</b> , 33, 259-270	2.9	6
71	Fabrication of carbonate apatite blocks from octacalcium phosphate blocks through different phase conversion mode depending on carbonate concentration. <i>Journal of Solid State Chemistry</i> , <b>2018</b> , 267, 85-91	3.3	4
70	Fabrication of interconnected porous tricalcium phosphate (tTCP) based on a setting reaction of tTCP granules with HNO followed by heat treatment. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2018</b> , 106, 797-804	5.4	4
69	Fabrication of calcite-coated rough-surface titanium using calcium nitrate. <i>Surface and Coatings Technology</i> , <b>2018</b> , 356, 72-79	4.4	5
68	Physical and Histological Comparison of Hydroxyapatite, Carbonate Apatite, and tricalcium Phosphate Bone Substitutes. <i>Materials</i> , <b>2018</b> , 11,	3.5	39
67	Effect of citric acid on setting reaction and tissue response to tTCP granular cement. <i>Biomedical Materials (Bristol)</i> , <b>2017</b> , 12, 015027	3.5	8
66	Fabrication of dicalcium phosphate dihydrate-coated tTCP granules and evaluation of their osteoconductivity using experimental rats. <i>Materials Science and Engineering C</i> , <b>2017</b> , 75, 1411-1419	8.3	16
65	Evaluation of carbonate apatite blocks fabricated from dicalcium phosphate dihydrate blocks for reconstruction of rabbit femoral and tibial defects. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2017</b> , 28, 85	4.5	25
64	Fabrication of interconnected porous calcium-deficient hydroxyapatite using the setting reaction of tricalcium phosphate spherical granules. <i>Ceramics International</i> , <b>2017</b> , 43, 11149-11155	5.1	19
63	Bone Cements Utilised for the Reconstruction of Hard Tissue: Basic Understanding and Recent Topics <b>2017</b> , 151-186		1
62	Fabrication of calcite blocks from gypsum blocks by compositional transformation based on dissolution-precipitation reactions in sodium carbonate solution. <i>Materials Science and Engineering C</i> , <b>2017</b> , 72, 389-393	8.3	6
61	"Fabrication of arbitrarily shaped carbonate apatite foam based on the interlocking process of dicalcium hydrogen phosphate dihydrate". <i>Journal of Materials Science: Materials in Medicine</i> , <b>2017</b> , 28, 122	4.5	3
60	Fabrication of Carbonate Apatite Block through a Dissolution-Precipitation Reaction Using Calcium Hydrogen Phosphate Dihydrate Block as a Precursor. <i>Materials</i> , <b>2017</b> , 10,	3.5	24

59	Fabrication of carbonate apatite foam based on the setting reaction of $\beta$ -tricalcium phosphate foam granules. <i>Ceramics International</i> , <b>2016</b> , 42, 204-210	5.1	17
58	Fabrication of interconnected pore forming $\beta$ -tricalcium phosphate foam granules cement. <i>Journal of Biomaterials Applications</i> , <b>2016</b> , 30, 838-45	2.9	15
57	Preparation of Porous $\beta$ -TCP Block by Fusion of DCPD Coated $\beta$ -TCP Spheres. <i>Key Engineering Materials</i> , <b>2016</b> , 696, 57-59	0.4	
56	A superhydrophilic titanium implant functionalized by ozone gas modulates bone marrow cell and macrophage responses. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2016</b> , 27, 127	4.5	22
55	Effects of Apatite Cement Containing Atelocollagen on Attachment to and Proliferation and Differentiation of MC3T3-E1 Osteoblastic Cells. <i>Materials</i> , <b>2016</b> , 9,	3.5	3
54	Fabrication and Physical Evaluation of Gelatin-Coated Carbonate Apatite Foam. <i>Materials</i> , <b>2016</b> , 9,	3.5	5
53	Fabrication of interconnected porous calcite by bridging calcite granules with dicalcium phosphate dihydrate and their histological evaluation. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2016</b> , 104, 652-658	5.4	16
52	Effects of acidic calcium phosphate concentration on mechanical strength of porous calcite fabricated by bridging with dicalcium phosphate dihydrate. <i>Ceramics International</i> , <b>2016</b> , 42, 7912-7917	5.1	8
51	Effects of low crystalline carbonate apatite on proliferation and osteoblastic differentiation of human bone marrow cells. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2015</b> , 26, 99	4.5	51
50	Fabrication of porous calcite using chopped nylon fiber and its evaluation using rats. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2015</b> , 26, 94	4.5	10
49	Effects of humidity on calcite block fabrication using calcium hydroxide compact. <i>Ceramics International</i> , <b>2015</b> , 41, 9482-9487	5.1	16
48	Fabrication of $\beta$ -TCP foam: Effects of magnesium oxide as phase stabilizer on its properties. <i>Ceramics International</i> , <b>2015</b> , 41, 14245-14250	5.1	13
47	Effects of the method of apatite seed crystals addition on setting reaction of $\beta$ -tricalcium phosphate based apatite cement. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2015</b> , 26, 244	4.5	11
46	Setting reaction of $\beta$ -TCP spheres and an acidic calcium phosphate solution for the fabrication of fully interconnected macroporous calcium phosphate. <i>Ceramics International</i> , <b>2015</b> , 41, 13525-13531	5.1	19
45	Histological Comparison in Rats between Carbonate Apatite Fabricated from Gypsum and Sintered Hydroxyapatite on Bone Remodeling. <i>BioMed Research International</i> , <b>2015</b> , 2015, 579541	3	27
44	Fabrication of carbonate apatite blocks from set gypsum based on dissolution-precipitation reaction in phosphate-carbonate mixed solution. <i>Dental Materials Journal</i> , <b>2014</b> , 33, 166-72	2.5	20
43	Three-Dimensional Porous Carbonate Apatite with Sufficient Mechanical Strength as a Bone Substitute Material. <i>Advanced Materials Research</i> , <b>2014</b> , 891-892, 1559-1564	0.5	5
42	Effects of PLGA reinforcement methods on the mechanical property of carbonate apatite foam. <i>Bio-Medical Materials and Engineering</i> , <b>2014</b> , 24, 1817-25	1	2

41	Calcium Phosphate Cement. <i>Springer Series in Biomaterials Science and Engineering</i> , <b>2014</b> , 199-227	0.6	15
40	Fabrication of solid and hollow carbonate apatite microspheres as bone substitutes using calcite microspheres as a precursor. <i>Dental Materials Journal</i> , <b>2012</b> , 31, 549-57	2.5	28
39	Effect of precursor's solubility on the mechanical property of hydroxyapatite formed by dissolution-precipitation reaction of tricalcium phosphate. <i>Dental Materials Journal</i> , <b>2012</b> , 31, 995-1000	2.5	10
38	Fabrication of microporous calcite block from calcium hydroxide compact under carbon dioxide atmosphere at high temperature. <i>Dental Materials Journal</i> , <b>2012</b> , 31, 593-600	2.5	11
37	Fabrication of $\beta$ CP Foam Using $\beta$ CP Foam as a Precursor by Heat Treatment. <i>Key Engineering Materials</i> , <b>2012</b> , 529-530, 15-18	0.4	
36	Effect of precursor's solubility on the mechanical property of hydroxyapatite formed by dissolution-precipitation reaction of tricalcium phosphate. <i>Dental Materials Journal</i> , <b>2012</b> , 31, 995-1000	2.5	3
35	Comparison of apatite-coated titanium prepared by blast coating and flame spray methods--evaluation using simulated body fluid and initial histological study. <i>Dental Materials Journal</i> , <b>2011</b> , 30, 431-7	2.5	4
34	Fabrication of low-crystalline carbonate apatite foam bone replacement based on phase transformation of calcite foam. <i>Dental Materials Journal</i> , <b>2011</b> , 30, 14-20	2.5	39
33	Effects of sintering temperature on physical and compositional properties of alpha-tricalcium phosphate foam. <i>Dental Materials Journal</i> , <b>2010</b> , 29, 154-9	2.5	19
32	Bone Substitute Fabrication Based on Dissolution-Precipitation Reactions. <i>Materials</i> , <b>2010</b> , 3, 1138-1155	3.5	143
31	Fabrication of low crystalline B-type carbonate apatite block from low crystalline calcite block. <i>Journal of the Ceramic Society of Japan</i> , <b>2010</b> , 118, 341-344	1	49
30	Fabrication of carbonate apatite block based on internal dissolution-precipitation reaction of dicalcium phosphate and calcium carbonate. <i>Dental Materials Journal</i> , <b>2010</b> , 29, 303-8	2.5	22
29	Effect of temperature on crystallinity of carbonate apatite foam prepared from alpha-tricalcium phosphate by hydrothermal treatment. <i>Bio-Medical Materials and Engineering</i> , <b>2009</b> , 19, 205-11	1	14
28	Fabrication of low-crystallinity hydroxyapatite foam based on the setting reaction of alpha-tricalcium phosphate foam. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2009</b> , 88, 628-33	5.4	32
27	Fabrication of freeform bone-filling calcium phosphate ceramics by gypsum 3D printing method. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2009</b> , 90, 531-9	3.5	43
26	Fabrication of Si-substituted hydroxyapatite foam using calcium silicates. <i>Journal of the Ceramic Society of Japan</i> , <b>2008</b> , 116, 88-91	1	8
25	Fabrication of B-type carbonate apatite blocks by the phosphorization of free-molding gypsum-calcite composite. <i>Dental Materials Journal</i> , <b>2008</b> , 27, 710-5	2.5	24
24	Effects of liquid phase on basic properties of alpha-tricalcium phosphate-based apatite cement. <i>Dental Materials Journal</i> , <b>2008</b> , 27, 672-7	2.5	13



23	Effect of molding pressure on fabrication of low-crystalline calcite block. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2008</b> , 19, 479-84	4.5	27
22	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). <i>Prosthodontic Research &amp; Practice</i> , <b>2008</b> , 7, 34-39		7
21	Transformation of 3DP gypsum model to HA by treating in ammonium phosphate solution. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2007</b> , 80, 386-93	3.5	29
20	Development of macropores in calcium carbonate body using novel carbonation method of calcium hydroxide/sodium chloride composite. <i>Journal of Materials Science</i> , <b>2007</b> , 42, 5728-5735	4.3	12
19	Characterization of macroporous carbonate-substituted hydroxyapatite bodies prepared in different phosphate solutions. <i>Journal of Materials Science</i> , <b>2007</b> , 42, 7843-7849	4.3	43
18	Fabrication of porous low crystalline calcite block by carbonation of calcium hydroxide compact. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2007</b> , 18, 1361-7	4.5	26
17	Histological evaluation of apatite cement containing atelocollagen. <i>Dental Materials Journal</i> , <b>2007</b> , 26, 194-200	2.5	3
16	Effects of apatite foam combined with platelet-rich plasma on regeneration of bone defects. <i>Dental Materials Journal</i> , <b>2006</b> , 25, 591-6	2.5	21
15	Fabrication of biporous low-crystalline apatite based on mannitol dissolution from apatite cement. <i>Dental Materials Journal</i> , <b>2006</b> , 25, 616-20	2.5	20
14	Effects of sintering temperature over 1,300 degrees C on the physical and compositional properties of porous hydroxyapatite foam. <i>Dental Materials Journal</i> , <b>2006</b> , 25, 51-8	2.5	43
13	Effects of apatite cements on proliferation and differentiation of human osteoblasts in vitro. <i>Biomaterials</i> , <b>2004</b> , 25, 1159-66	15.6	78
12	HYDROLYSIS OF CALCITE IN POTASSIUM PHOSPHATE SOLUTIONS. <i>Phosphorus Research Bulletin</i> , <b>2004</b> , 17, 159-164	0.3	3
11	Development of Self-Setting Calcium Hydroxide Preparation Using Dicalcium Phosphate Anhydrous and Sodium Hydrogen Phosphate Aqueous Solution. <i>Journal of the Ceramic Society of Japan</i> , <b>2004</b> , 112, 434-439		
10	Initial evaluation of a ceramic form as a reconstructive material for bone defects. <i>Dental Materials Journal</i> , <b>2000</b> , 19, 381-8	2.5	12
9	Effects of neutral sodium hydrogen phosphate on setting reaction and mechanical strength of hydroxyapatite putty. <i>Journal of Biomedical Materials Research Part B</i> , <b>1999</b> , 44, 322-9		44
8	Effects of added antibiotics on the basic properties of anti-washout-type fast-setting calcium phosphate cement. <i>Journal of Biomedical Materials Research Part B</i> , <b>1998</b> , 39, 308-16		81
7	Basic properties of calcium phosphate cement containing atelocollagen in its liquid or powder phases. <i>Biomaterials</i> , <b>1998</b> , 19, 707-15	15.6	118
6	Non-decay type fast-setting calcium phosphate cement: hydroxyapatite putty containing an increased amount of sodium alginate. <i>Journal of Biomedical Materials Research Part B</i> , <b>1997</b> , 36, 393-9		103

5	Tissue response to fast-setting calcium phosphate cement in bone. <i>Journal of Biomedical Materials Research Part B</i> , <b>1997</b> , 37, 457-64		77
4	Blast coating method: new method of coating titanium surface with hydroxyapatite at room temperature. <i>Journal of Biomedical Materials Research Part B</i> , <b>1997</b> , 38, 129-34		53
3	Non-decay type fast-setting calcium phosphate cement: setting behaviour in calf serum and its tissue response. <i>Biomaterials</i> , <b>1996</b> , 17, 1429-35	15.6	71
2	Properties and mechanisms of fast-setting calcium phosphate cements. <i>Journal of Materials Science: Materials in Medicine</i> , <b>1995</b> , 6, 528-533	4.5	123
1	In vivo setting behaviour of fast-setting calcium phosphate cement. <i>Biomaterials</i> , <b>1995</b> , 16, 855-60	15.6	171