

Hiroyasu Kanetaka

List of Publications by Year in descending order

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110
papers

1,076
citations

471371

17
h-index

580701

25
g-index

114
all docs

114
docs citations

114
times ranked

1303
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical properties and corrosion resistance of powder metallurgical Mg-Zn-Ca/Fe bulk metal glass composites for biomedical application. <i>Journal of Materials Science and Technology</i> , 2022, 103, 73-83.	5.6	25
2	Indirect cytotoxicity evaluations of antibacterial raw silk fabric doped with calcium, copper and zinc on fibroblasts and osteoblasts. <i>Journal of Biomaterials Applications</i> , 2022, , 088532822110589.	1.2	1
3	Effects of aging on whole-body center of mass movement and lower limb joint kinematics and kinetics during deep-squat movement. <i>Journal of Biomechanics</i> , 2022, 134, 110996.	0.9	3
4	Somatosensory evoked magnetic fields caused by mechanical stimulation of the periodontal ligaments. <i>Heliyon</i> , 2022, 8, e09464.	1.4	2
5	Fabrication and evaluation of ascorbic acid phosphate-loaded spherical porous hydroxyapatite/octacalcium phosphate granules. <i>Journal of the Ceramic Society of Japan</i> , 2021, 129, 60-65.	0.5	4
6	Proteomic identification of serum proteins to induce osteoconductivity of hydroxyapatite. <i>Dental Materials Journal</i> , 2021, 40, 1428-1436.	0.8	2
7	Cytotoxicity evaluation of iron nitride nanoparticles for biomedical applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2021, 109, 1784-1791.	2.1	5
8	In-vitro heat-generating and apatite-forming abilities of PMMA bone cement containing TiO ₂ and Fe ₃ O ₄ . <i>Ceramics International</i> , 2021, 47, 12292-12299.	2.3	14
9	Bactericidal Activity of Bulk Nanobubbles through Active Oxygen Species Generation. <i>Langmuir</i> , 2021, 37, 9883-9891.	1.6	14
10	Hydrothermal synthesis and preliminary cytotoxicity assessment of gadolinium borate nanoparticles for neutron capture therapy. <i>Journal of Nanoparticle Research</i> , 2021, 23, 1.	0.8	3
11	Mechanical property enhancement of the Ag-tailored Au-Cu-Al shape memory alloy via the ductile phase toughening. <i>Intermetallics</i> , 2021, 139, 107349.	1.8	3
12	Antibacterial properties of Cu-doped TiO ₂ prepared by chemical and heat treatment of Ti metal. <i>Journal of Asian Ceramic Societies</i> , 2021, 9, 1448-1456.	1.0	7
13	Effects of seat height on whole-body movement and lower limb muscle power during sit-to-stand movements in young and older individuals. <i>Journal of Biomechanics</i> , 2021, 129, 110813.	0.9	7
14	Visible light-induced photocatalytic and antibacterial activity of Na-doped TiO ₂ . <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 451-459.	1.6	37
15	Bactericidal Activity of TiO ₂ Nanotube Thin Films on Si by Photocatalytic Generation of Active Oxygen Species. <i>Langmuir</i> , 2020, 36, 12668-12677.	1.6	18
16	Setting behaviour, mechanical properties and heat generation under alternate current magnetic fields of Fe ₃ O ₄ /TiO ₂ /PMMA composite bone cement. <i>Medical Devices & Sensors</i> , 2020, 3, e10114.	2.7	6
17	Comparison of handrail reaction forces between two different handrails during sit-to-stand movement in the elderly. <i>Clinical Biomechanics</i> , 2020, 80, 105130.	0.5	14
18	Polyglutamine-containing microglia leads to disturbed differentiation and neurite retraction of neuron-like cells. <i>Heliyon</i> , 2020, 6, e04851.	1.4	3

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19	X-ray elastography by visualizing propagating shear waves. <i>Applied Physics Express</i> , 2020, 13, 042004.	1.1	6
20	Effects of shelf bar assistance on kinetic control during sit-to-stand in healthy young and elderly subjects. <i>Journal of Biomechanics</i> , 2020, 106, 109822.	0.9	14
21	Continuous release of O ₂ ^{•-} /ONOO ^{•-} in plasma-exposed HEPES-buffered saline promotes TRP channel-mediated uptake of a large cation. <i>Plasma Processes and Polymers</i> , 2020, 17, 1900257.	1.6	6
22	Somatosensory evoked magnetic fields of periodontal mechanoreceptors. <i>Heliyon</i> , 2020, 6, e03244.	1.4	8
23	Apatite formation and bacterial growth on raw silk fabric heated in argon gas. <i>Journal of Materials Science: Materials in Medicine</i> , 2020, 31, 49.	1.7	3
24	In vitro evaluation of doxorubicin-eluting porous titania microspheres for transcatheter arterial chemoembolization. <i>Journal of Asian Ceramic Societies</i> , 2020, 8, 10-20.	1.0	1
25	Evaluation of Apatite-Forming Ability and Antibacterial Activity of Raw Silk Fabrics Doped with Metal Ions. <i>Materials Transactions</i> , 2019, 60, 808-814.	0.4	3
26	Enhancement of cell differentiation on a surface potential-controlled nitrogen-doped TiO ₂ surface. <i>Journal of the Ceramic Society of Japan</i> , 2019, 127, 636-641.	0.5	3
27	Visible-light-responsive antibacterial activity of Au-incorporated TiO ₂ layers formed on Ti-(0¹⁰)at%Au alloys by air oxidation. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 991-1000.	2.1	12
28	Porous Ti-based bulk metallic glass with excellent mechanical properties and good biocompatibility. <i>Intermetallics</i> , 2019, 105, 153-162.	1.8	41
29	Availability of cosmetic treatment using novel cosmetics-based material on patients with craniofacial concavity. <i>Journal of Prosthodontic Research</i> , 2018, 62, 379-382.	1.1	0
30	Development of Denture Implanted RFID Tag Antennas. , 2018, , .		2
31	Restoration from polyglutamine toxicity after free electron laser irradiation of neuron-like cells. <i>Neuroscience Letters</i> , 2018, 685, 42-49.	1.0	7
32	Surface structure and in vitro apatite-forming ability of titanium doped with various metals. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 555, 558-564.	2.3	9
33	Control of surface potential and hydroxyapatite formation on TiO ₂ scales containing nitrogen-related defects. <i>Acta Materialia</i> , 2018, 155, 379-385.	3.8	9
34	Musculoskeletal simulation analysis of elderly person during sit-to-stand motion using handrails. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME</i> , 2018, 2018.30, 2D16.	0.0	0
35	Evaluation of Apatite-forming Ability and Antibacterial Activity of Raw Silk Fabrics Doped with Metal Ions. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2018, 65, 495-501.	0.1	0
36	Effects of grab bar on utilized friction and dynamic stability when elderly people enter the bathtub. <i>Clinical Biomechanics</i> , 2017, 47, 7-13.	0.5	10

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37	Wireless Magnetic Position-Detection System With Four Excitation Coils. <i>IEEE Sensors Journal</i> , 2017, 17, 4412-4419.	2.4	6
38	In vitro evaluation of Ag-containing calcium phosphates: Effectiveness of Ag-incorporated β -tricalcium phosphate. <i>Materials Science and Engineering C</i> , 2017, 75, 926-933.	3.8	31
39	TiO ₂ microspheres containing magnetic nanoparticles for intra-arterial hyperthermia. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017, 105, 2308-2314.	1.6	7
40	Control of HAp Formation and Osteoconductivity on Nitrogen-Doped TiO ₂ Scale Formed by Oxynitridation of Ti. <i>Key Engineering Materials</i> , 2017, 758, 86-89.	0.4	3
41	Cold atmospheric plasma enhances osteoblast differentiation. <i>PLoS ONE</i> , 2017, 12, e0180507.	1.1	34
42	Evaluating age-related change in lip somatosensation using somatosensory evoked magnetic fields. <i>PLoS ONE</i> , 2017, 12, e0179323.	1.1	4
43	Apoptotic effects on cultured cells of atmospheric-pressure plasma produced using various gases. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 01AF03.	0.8	1
44	Martensitic Transformation and Mechanical Properties of AuCuAl-Based Biomedical Shape Memory Alloys Containing Various Quaternary Elements. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2016, 80, 71-76.	0.2	4
45	Fibronectin adsorption on osteoconductive hydroxyapatite and non-osteoconductive α -alumina. <i>Biomedical Materials (Bristol)</i> , 2016, 11, 045006.	1.7	9
46	Adsorption of Laminin on Hydroxyapatite and Alumina and the MC3T3-E1 Cell Response. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 1162-1168.	2.6	15
47	In vitro evaluation of biocompatibility of Ti-Mo-Sn-Zr superelastic alloy. <i>Orthodontic Waves</i> , 2016, 75, 84-84.	0.2	0
48	Formation of bioactive N-doped TiO ₂ on Ti with visible light-induced antibacterial activity using NaOH, hot water, and subsequent ammonia atmospheric heat treatment. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 145, 285-290.	2.5	21
49	Effect of surface charge of TiO ₂ particles on hydroxyapatite formation in simulated body fluid. <i>Advanced Powder Technology</i> , 2016, 27, 2409-2415.	2.0	4
50	Development of high performance MgFe alloy as potential biodegradable materials. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 671, 48-53.	2.6	25
51	Effect of fibronectin adsorption on osteoblastic cellular responses to hydroxyapatite and alumina. <i>Materials Science and Engineering C</i> , 2016, 69, 1268-1272.	3.8	11
52	Phase Constitution and Martensitic Transformation Behavior of Au-51Ti-18Co Biomedical Shape Memory Alloy Heat-Treated at 1173K to 1373K. <i>Materials Science Forum</i> , 2016, 879, 256-261.	0.3	1
53	Roles of charged particles and reactive species on cell membrane permeabilization induced by atmospheric-pressure plasma irradiation. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 07LG04.	0.8	11
54	Effect of Al and Cu Contents on Mechanical Properties of Au-Cu-Al Shape Memory Alloys. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2015, 80, 27-36.	0.2	7

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55	Cytoprotective Effects of Grape Seed Extract on Human Gingival Fibroblasts in Relation to Its Antioxidant Potential. PLoS ONE, 2015, 10, e0134704.	1.1	17
56	In vitro evaluation of biocompatibility of Ti-Mo-Sn-Zr superelastic alloy. Journal of Biomaterials Applications, 2015, 30, 119-130.	1.2	5
57	Sol-gel synthesis of magnetic TiO ₂ microspheres and characterization of their in vitro heating ability for hyperthermia treatment of cancer. Journal of Sol-Gel Science and Technology, 2015, 75, 90-97.	1.1	17
58	Glial Reaction in the Spinal Cord of the Degenerating Muscle Mouse (Scn8a dmu). Neurochemical Research, 2015, 40, 124-129.	1.6	8
59	Phase Constituent and Reverse Martensitic Transformation Temperature of PtTi-CoTi Diffusion Couple Heat-Treated at 1373K. Materials Research Society Symposia Proceedings, 2015, 1760, 163.	0.1	3
60	The Effect of Decortication for Periosteal Expansion Osteogenesis Using Shape Memory Alloy Mesh Device. Clinical Implant Dentistry and Related Research, 2015, 17, e376-84.	1.6	16
61	Induction of Neurite Outgrowth in PC12 Cells Treated with Temperature-Controlled Repeated Thermal Stimulation. PLoS ONE, 2015, 10, e0124024.	1.1	16
62	2G24 Contribution of the three-dimensional handrail in Sit-to-Stand movement. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JISME, 2015, 2015.27, 569-570.	0.0	0
63	MC3T3-E1 and RAW264.7 cell response to hydroxyapatite and alpha-type alumina adsorbed with bovine serum albumin. Journal of Biomedical Materials Research - Part A, 2014, 102, 1880-1886.	2.1	17
64	Adsorption characteristics of bovine serum albumin onto alumina with a specific crystalline structure. Journal of Materials Science: Materials in Medicine, 2014, 25, 453-459.	1.7	8
65	In vitro apatite formation and visible-light photocatalytic activity of Ti metal subjected to chemical and thermal treatments. Ceramics International, 2014, 40, 12629-12636.	2.3	6
66	Effect of ammonia or nitric acid treatment on surface structure, in vitro apatite formation, and visible-light photocatalytic activity of bioactive titanium metal. Colloids and Surfaces B: Biointerfaces, 2013, 111, 503-508.	2.5	5
67	Self-activated mesh device using shape memory alloy for periosteal expansion osteogenesis. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2013, 101B, 736-742.	1.6	17
68	Effect of Autoclave and Hot Water Treatments on Surface Structure and In Vitro Apatite-Forming Ability of NaOH- and Heat-Treated Bioactive Titanium Metal. Materials Transactions, 2013, 54, 811-816.	0.4	13
69	Induction of Neuritogenesis in PC12 Cells by a Pulsed Electromagnetic Field via MEK-ERK1/2 Signaling. Cell Structure and Function, 2013, 38, 15-20.	0.5	19
70	Pressure Controlled Clamp Using Shape Memory Alloy for Minimal Vessel Invasion in Blood Flow Occlusion. Annals of Thoracic and Cardiovascular Surgery, 2013, 19, 35-42.	0.3	5
71	209 Martensitic Transformation and Mechanical Properties of TiAuFe Alloys. The Proceedings of the Materials and Processing Conference, 2013, 2013.21, _209-1_-_209-2_.	0.0	0
72	Sol-gel synthesis, characterization, and in vitro compatibility of iron nanoparticle-encapsulating silica microspheres for hyperthermia in cancer therapy. Journal of Materials Science: Materials in Medicine, 2012, 23, 2461-2469.	1.7	18

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73	Zeta potential of alumina powders with different crystalline phases in simulated body fluids. <i>Materials Science and Engineering C</i> , 2012, 32, 2617-2622.	3.8	16
74	Effects of the Small Molecule Dorsomorphin on Intracellular Signaling. , 2012, , 131-133.		1
75	<i>In vitro</i> assessment of poly(methylmethacrylate)-based bone cement containing magnetite nanoparticles for hyperthermia treatment of bone tumor. <i>Journal of Biomedical Materials Research - Part A</i> , 2012, 100A, 2537-2545.	2.1	25
76	COMPARISON OF ADSORPTION BEHAVIOR OF BOVINE SERUM ALBUMIN AND OSTEOPOINTIN ON HYDROXYAPATITE AND ALUMINA. <i>Phosphorus Research Bulletin</i> , 2012, 26, 23-28.	0.1	7
77	Dorsomorphin stimulates neurite outgrowth in PC12 cells via activation of a protein kinase A-dependent MEK-ERK1/2 signaling pathway. <i>Genes To Cells</i> , 2011, 16, 1121-1132.	0.5	19
78	Pituitary adenylatecyclase-activating polypeptide-immunoreactive nerve fibers in the rat epiglottis and pharynx. <i>Annals of Anatomy</i> , 2011, 193, 494-499.	1.0	10
79	Increase of CGRP Expression in Motor Endplates Within Fore and Hind Limb Muscles of the Degenerating Muscle Mouse (Scn8a ^{dmu}). <i>Cellular and Molecular Neurobiology</i> , 2011, 31, 155-161.	1.7	5
80	Masseteric Nerve Injury Increases Expression of Brain-Derived Neurotrophic Factor in Microglia Within the Rat Mesencephalic Trigeminal Tract Nucleus. <i>Cellular and Molecular Neurobiology</i> , 2011, 31, 551-559.	1.7	9
81	Preparation, structure, and <i>in vitro</i> chemical durability of yttrium phosphate microspheres for intra-arterial radiotherapy. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2011, 99B, 45-50.	1.6	17
82	Synostosis of the joint between the body and greater cornu of the human hyoid bone. <i>Clinical Anatomy</i> , 2011, 24, 837-842.	1.5	7
83	New Internalized Distraction Device for Craniofacial Plastic Surgery Using Ni-Free, Ti-Based Shape Memory Alloy. <i>Journal of Craniofacial Surgery</i> , 2010, 21, 1839-1842.	0.3	3
84	Investigating Bone Morphogenetic Protein (BMP) Signaling in a Newly Established Human Cell Line Expressing BMP Receptor Type II. <i>Tohoku Journal of Experimental Medicine</i> , 2010, 222, 121-129.	0.5	10
85	<i>In Vitro</i> Biocompatibility of Ni-Free Ti-Based Shape Memory Alloys for Biomedical Applications. <i>Materials Transactions</i> , 2010, 51, 1944-1950.	0.4	22
86	MPC polymer regulates fibrous tissue formation by modulating cell adhesion to the biomaterial surface. <i>Dental Materials Journal</i> , 2010, 29, 518-528.	0.8	12
87	Effect of Aging on Mechanical Properties of Ti-Mo-Al Biomedical Shape Memory Alloy. <i>Materials Science Forum</i> , 2010, 654-656, 2150-2153.	0.3	10
88	Phase Constituents of Ti-Cr-Au and Ti-Cr-Au-Zr Alloy Systems. <i>Materials Science Forum</i> , 2010, 654-656, 2122-2125.	0.3	8
89	Compression Behavior and Texture Development of Polymer Matrix Composites Based on NiMnGa Ferromagnetic Shape Memory Alloy Particles. <i>Materials Science Forum</i> , 2010, 654-656, 2103-2106.	0.3	4
90	Phase Constitution and Mechanical Properties of Ti-(Cr, Mn)-Sn Biomedical Alloys. <i>Materials Science Forum</i> , 2010, 654-656, 2118-2121.	0.3	24

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91	Effect of Nitrogen Addition on Mechanical Property of Ti-Cr-Sn Alloy. Materials Science Forum, 2010, 654-656, 2126-2129.	0.3	4
92	Self-Accommodation Morphology in Ti-Nb-Al Shape Memory Alloy. Materials Science Forum, 2010, 654-656, 2154-2157.	0.3	5
93	Role of the protein serine/threonine phosphatase dullard in cell differentiation. , 2010, , 196-198.		1
94	Wireless magnetic motion capture system using multiple LC resonant magnetic markers with high accuracy. Sensors and Actuators A: Physical, 2008, 142, 520-527.	2.0	20
95	Orthodontic Tooth Movement in Rats Using Ni-Free Ti-Based Shape Memory Alloy Wire. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2008, 72, 503-509.	0.2	0
96	Histological Evaluation of the Effects of Initially Light and Gradually Increasing Force on Orthodontic Tooth Movement. Angle Orthodontist, 2007, 77, 410-416.	1.1	41
97	Orthodontic Tooth Movement in Rats Using Ni-Free Ti-Based Shape Memory Alloy Wire. Materials Transactions, 2007, 48, 367-372.	0.4	8
98	Effects of initially light and gradually increasing force on orthodontic tooth movement. , 2007, , 181-182.		0
99	The effects of orthopedic forces with self-contained SMA appliance on cranial suture in rat. , 2007, , 353-354.		0
100	Effects of Gradually Increasing Force Generated by Permanent Rare Earth Magnets for Orthodontic Tooth Movement. Angle Orthodontist, 2006, 76, 1004-1009.	1.1	14
101	Orthodontic Buccal Tooth Movement by Nickel-Free Titanium-Based Shape Memory and Superelastic Alloy Wire. Angle Orthodontist, 2006, 76, 1041-1046.	1.1	32
102	Orthodontic tooth movement in rats using Ni-free Ti-base SMA wire. International Congress Series, 2005, 1284, 310-311.	0.2	4
103	Orthodontic tooth movement using the attractive force of rare earth magnets in rats. International Congress Series, 2005, 1284, 322-323.	0.2	0
104	Outcome of orthodontic treatment combined with MPA and secondary alveolar bone grafting in UCLP patients. International Congress Series, 2005, 1284, 79-80.	0.2	0
105	Age-Related Morphological Changes in the Human Hyoid Bone. Cells Tissues Organs, 2005, 180, 185-192.	1.3	38
106	Martensite Variant Reorientation of NiMnGa/Silicone Composites Containing Polystyrene Foam Particles. Advanced Materials Research, 0, 409, 645-650.	0.3	2
107	MC3T3-E1 Cell Response to Hydroxyapatite and Alpha-Type Alumina Adsorbed with Bovine Serum Albumin. Key Engineering Materials, 0, 529-530, 365-369.	0.4	1
108	Effect of Autoclave and Hot Water Treatment on Surface Structure and Apatite-Forming Ability of NaOH- and Heat-Treated Titanium Metals in Simulated Body Fluid. Key Engineering Materials, 0, 529-530, 570-573.	0.4	0

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109	Martensitic Transformation and Related Properties of AuTi-FeTi Pseudobinary Alloys. Advanced Materials Research, 0, 922, 25-30.	0.3	6
110	MC3T3-E1 Cellular Response and Protein Detection on Surface Potential-Controlled TiO ₂ Scale in Serum-Containing Medium. Key Engineering Materials, 0, 782, 218-223.	0.4	1