

Takuya Ishimoto

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.

157
papers

2,204
citations

27
h-index

43
g-index

167
ext. papers

2,903
ext. citations

2.9
avg, IF

5.39
L-index

#	Paper	IF	Citations
157	Ibandronate Suppresses Changes in Apatite Orientation and Young's Modulus Caused by Estrogen Deficiency in Rat Vertebrae.. <i>Calcified Tissue International</i> , 2022 , 1	3.9	
156	Octacalcium phosphate crystals including a higher density dislocation improve its materials osteogenicity. <i>Applied Materials Today</i> , 2022 , 26, 101279	6.6	2
155	Combination treatment with ibandronate and eldcalcitol prevents osteoporotic bone loss and deterioration of bone quality characterized by nano-arrangement of the collagen/apatite in an ovariectomized aged rat model.. <i>Bone</i> , 2022 , 157, 116309	4.7	1
154	Single crystalline-like crystallographic texture formation of pure tungsten through laser powder bed fusion. <i>Scripta Materialia</i> , 2022 , 206, 114252	5.6	8
153	Evaluation of the Microstructural Characteristics of Bone Surrounding Anchor Screws Placed under a Horizontal Load by Exploring the Orientation of Biological Apatite Crystals and Collagen Fiber Anisotropy. <i>Journal of Hard Tissue Biology</i> , 2022 , 31, 79-86	0.4	
152	Effect of a Helium Gas Atmosphere on the Mechanical Properties of Ti-6Al-4V Alloy built with Laser Powder Bed Fusion: A Comparative Study with Argon Gas. <i>Additive Manufacturing</i> , 2021 , 102444	6.1	5
151	Bone fragility via degradation of bone quality featured by collagen/apatite micro-arrangement in human rheumatic arthritis. <i>Bone</i> , 2021 , 155, 116261	4.7	3
150	Effect of Scan Length on Densification and Crystallographic Texture Formation of Pure Chromium Fabricated by Laser Powder Bed Fusion. <i>Crystals</i> , 2021 , 11, 9	2.3	8
149	Influence of powder characteristics on densification via crystallographic texture formation: Pure tungsten prepared by laser powder bed fusion. <i>Additive Manufacturing Letters</i> , 2021 , 100016		3
148	Modified Cellular Automaton Simulation of Metal Additive Manufacturing. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2021 , 85, 103-109	0.4	
147	Development of TiNbTaZrMo bio-high entropy alloy (BioHEA) super-solid solution by selective laser melting, and its improved mechanical property and biocompatibility. <i>Scripta Materialia</i> , 2021 , 194, 113658	5.6	37
146	Hypermineralization of Hearing-Related Bones by a Specific Osteoblast Subtype. <i>Journal of Bone and Mineral Research</i> , 2021 , 36, 1535-1547	6.3	3
145	Quantitative Evaluation of Osteocyte Morphology and Bone Anisotropic Extracellular Matrix in Rat Femur. <i>Calcified Tissue International</i> , 2021 , 109, 434-444	3.9	11
144	Superior Alignment of Human iPSC-Osteoblasts Associated with Focal Adhesion Formation Stimulated by Oriented Collagen Scaffold. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1
143	Unique crystallographic texture formation in Inconel 718 by laser powder bed fusion and its effect on mechanical anisotropy. <i>Acta Materialia</i> , 2021 , 212, 116876	8.4	47
142	Low magnetic field promotes recombinant human BMP-2-induced bone formation and influences orientation of trabeculae and bone marrow-derived stromal cells. <i>Bone Reports</i> , 2021 , 14, 100757	2.6	1
141	Modified Cellular Automaton Simulation of Metal Additive Manufacturing. <i>Materials Transactions</i> , 2021 , 62, 864-870	1.3	0

140	Comparison of Phase Characteristics and Residual Stresses in Ti-6Al-4V Alloy Manufactured by Laser Powder Bed Fusion (L-PBF) and Electron Beam Powder Bed Fusion (EB-PBF) Techniques. <i>Crystals</i> , 2021 , 11, 796	2.3	4
139	Micro/nanostructural Characteristic Changes in the Mandibles of Rats after Injection of Botulinum Neurotoxin. <i>Journal of Hard Tissue Biology</i> , 2021 , 30, 183-192	0.4	
138	Effect of Atmosphere Gas on Microstructure in Products of 316L Austenitic Stainless Steel Fabricated by Laser Powder Bed Fusion (LPBF). <i>Journal of Smart Processing</i> , 2021 , 10, 230-234	0.2	0
137	Relationship between Residual Stress and Scan Strategy of Ti-15Mo-5Zr-3Al Alloy Parts Fabricated by Laser Powder Bed Fusion. <i>Journal of Smart Processing</i> , 2021 , 10, 235-239	0.2	
136	Fabrication of Copper Alloys as Conductive Materials via Laser Beam Powder Bed Fusion. <i>Journal of Smart Processing</i> , 2021 , 10, 265-269	0.2	0
135	Control of Stem Cell Fate and Function by Engineered Surface Topography Using Metal Additive Manufacturing Technology. <i>Journal of Smart Processing</i> , 2021 , 10, 261-264	0.2	0
134	Stability of crystallographic texture in laser powder bed fusion: Understanding the competition of crystal growth using a single crystalline seed. <i>Additive Manufacturing</i> , 2021 , 43, 102004	6.1	11
133	Reduction of Spatter Generation Using Atmospheric Gas in Laser Powder Bed Fusion of Ti6Al4V. <i>Materials Transactions</i> , 2021 , 62, 1225-1230	1.3	2
132	Authors' Response to Letter from Professor Birkedal. <i>Calcified Tissue International</i> , 2021 , 1	3.9	2
131	3D Puzzle in Cube Pattern for Anisotropic/Isotropic Mechanical Control of Structure Fabricated by Metal Additive Manufacturing. <i>Crystals</i> , 2021 , 11, 959	2.3	8
130	Lattice distortion in selective laser melting (SLM)-manufactured unstable β -type Ti-15Mo-5Zr-3Al alloy analyzed by high-precision X-ray diffractometry. <i>Scripta Materialia</i> , 2021 , 201, 113953	5.6	13
129	Crystallographic texture- and grain boundary density-independent improvement of corrosion resistance in austenitic 316L stainless steel fabricated via laser powder bed fusion. <i>Additive Manufacturing</i> , 2021 , 45, 102066	6.1	3
128	Control of Crystallographic Texture and Mechanical Properties of Hastelloy-X via Laser Powder Bed Fusion. <i>Crystals</i> , 2021 , 11, 1064	2.3	4
127	Comparison of microstructure, crystallographic texture, and mechanical properties in Ti15Mo5Zr3Al alloys fabricated via electron and laser beam powder bed fusion technologies. <i>Additive Manufacturing</i> , 2021 , 102329	6.1	2
126	Structural characteristics of the bone surrounding dental implants placed into the tail-suspended mice. <i>International Journal of Implant Dentistry</i> , 2021 , 7, 89	2.8	1
125	Fabrication of Ti-Alloy Powder/Solid Composite with Uniaxial Anisotropy by Introducing Unidirectional Honeycomb Structure via Electron Beam Powder Bed Fusion. <i>Crystals</i> , 2021 , 11, 1074	2.3	4
124	Factor which governs the feature of texture developed during additive manufacturing; clarified from the study on hexagonal C40-NbSi2. <i>Scripta Materialia</i> , 2021 , 203, 114111	5.6	9
123	Surface residual stress and phase stability in unstable β -type Ti15Mo5Zr3Al alloy manufactured by laser and electron beam powder bed fusion technologies. <i>Additive Manufacturing</i> , 2021 , 47, 102257	6.1	5

122	Control of crystallographic orientation by metal additive manufacturing process of β -type Ti alloys based on the bone tissue anisotropy. <i>MATEC Web of Conferences</i> , 2020 , 321, 05002	0.3	0
121	Osteocalcin is necessary for the alignment of apatite crystallites, but not glucose metabolism, testosterone synthesis, or muscle mass. <i>PLoS Genetics</i> , 2020 , 16, e1008586	6	58
120	Micro- and nano-bone analyses of the human mandible coronoid process and tendon-bone entheses. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020 , 108, 2799-2806	3.5	2
119	Crystallographic Orientation Control of 316L Austenitic Stainless Steel via Selective Laser Melting. <i>ISIJ International</i> , 2020 , 60, 1758-1764	1.7	39
118	Combined effect of teriparatide and an anti-RANKL monoclonal antibody on bone defect regeneration in mice with glucocorticoid-induced osteoporosis. <i>Bone</i> , 2020 , 139, 115525	4.7	3
117	Analysis of Bone Regeneration Based on the Relationship between the Orientations of Collagen and Apatite in Mouse Femur. <i>Materials Transactions</i> , 2020 , 61, 381-386	1.3	3
116	Promoting Effect of Basic Fibroblast Growth Factor in Synovial Mesenchymal Stem Cell-Based Cartilage Regeneration. <i>International Journal of Molecular Sciences</i> , 2020 , 22,	6.3	3
115	Development of Ultrahigh Corrosion Resistant Metallic Materials [Improvement of Corrosion Resistance of Martensitic Stainless Steel by Selective Laser Melting Process] <i>Materia Japan</i> , 2020 , 59, 679-684	0.1	
114	Overexpression of Fam20C in osteoblast in vivo leads to increased cortical bone formation and osteoclastic bone resorption. <i>Bone</i> , 2020 , 138, 115414	4.7	3
113	ONO-1301 loaded nanocomposite scaffolds modulate cAMP mediated signaling and induce new bone formation in critical sized bone defect. <i>Biomaterials Science</i> , 2020 , 8, 884-896	7.4	5
112	Assessment of the functional efficacy of root canal treatment with high-frequency waves in rats. <i>PLoS ONE</i> , 2020 , 15, e0239660	3.7	1
111	Crystallographic orientation control of pure chromium via laser powder bed fusion and improved high temperature oxidation resistance. <i>Additive Manufacturing</i> , 2020 , 36, 101624	6.1	13
110	Gene Therapy Treats Bone Complications of Mucopolysaccharidosis Type II Mouse Models through Bone Remodeling Reactivation. <i>Molecular Therapy - Methods and Clinical Development</i> , 2020 , 19, 261-274	6.4	4
109	Impaired bone quality characterized by apatite orientation under stress shielding following fixing of a fracture of the radius with a 3D printed Ti-6Al-4V custom-made bone plate in dogs. <i>PLoS ONE</i> , 2020 , 15, e0237678	3.7	5
108	The combined effects of teriparatide and anti-RANKL monoclonal antibody on bone defect regeneration in ovariectomized mice. <i>Bone</i> , 2020 , 130, 115077	4.7	4
107	Osteocalcin is necessary for the alignment of apatite crystallites, but not glucose metabolism, testosterone synthesis, or muscle mass 2020 , 16, e1008586		
106	Osteocalcin is necessary for the alignment of apatite crystallites, but not glucose metabolism, testosterone synthesis, or muscle mass 2020 , 16, e1008586		
105	Osteocalcin is necessary for the alignment of apatite crystallites, but not glucose metabolism, testosterone synthesis, or muscle mass 2020 , 16, e1008586		

104	Osteocalcin is necessary for the alignment of apatite crystallites, but not glucose metabolism, testosterone synthesis, or muscle mass 2020 , 16, e1008586		
103	Osteocalcin is necessary for the alignment of apatite crystallites, but not glucose metabolism, testosterone synthesis, or muscle mass 2020 , 16, e1008586		
102	Osteocalcin is necessary for the alignment of apatite crystallites, but not glucose metabolism, testosterone synthesis, or muscle mass 2020 , 16, e1008586		
101	Impaired bone quality characterized by apatite orientation under stress shielding following fixing of a fracture of the radius with a 3D printed Ti-6Al-4V custom-made bone plate in dogs 2020 , 15, e0237678		
100	Impaired bone quality characterized by apatite orientation under stress shielding following fixing of a fracture of the radius with a 3D printed Ti-6Al-4V custom-made bone plate in dogs 2020 , 15, e0237678		
99	Impaired bone quality characterized by apatite orientation under stress shielding following fixing of a fracture of the radius with a 3D printed Ti-6Al-4V custom-made bone plate in dogs 2020 , 15, e0237678		
98	Impaired bone quality characterized by apatite orientation under stress shielding following fixing of a fracture of the radius with a 3D printed Ti-6Al-4V custom-made bone plate in dogs 2020 , 15, e0237678		
97	Assessment of the functional efficacy of root canal treatment with high-frequency waves in rats 2020 , 15, e0239660		
96	Assessment of the functional efficacy of root canal treatment with high-frequency waves in rats 2020 , 15, e0239660		
95	Assessment of the functional efficacy of root canal treatment with high-frequency waves in rats 2020 , 15, e0239660		
94	Assessment of the functional efficacy of root canal treatment with high-frequency waves in rats 2020 , 15, e0239660		
93	Assessment of the functional efficacy of root canal treatment with high-frequency waves in rats 2020 , 15, e0239660		
92	Assessment of the functional efficacy of root canal treatment with high-frequency waves in rats 2020 , 15, e0239660		
91	Crystallographic Texture Formation of Pure Tantalum by Selective Laser Melting Method. <i>Journal of Smart Processing</i> , 2019 , 8, 151-154	0.2	3
90	Quantitative ultrasound (QUS) axial transmission method reflects anisotropy in micro-arrangement of apatite crystallites in human long bones: A study with 3-MHz-frequency ultrasound. <i>Bone</i> , 2019 , 127, 82-90	4.7	11
89	Effect of Oxygen Concentration on the Generation of Spatter during Fabrication via Selective Laser Melting. <i>Journal of Smart Processing</i> , 2019 , 8, 102-105	0.2	2
88	Additive Manufacturing of Titanium and Titanium-based Alloys. <i>Materia Japan</i> , 2019 , 58, 181-187	0.1	6
87	Crystallographic Texture Control of Beta-type Ti-alloys through Additive Manufacturing for Suppression of Stress Shielding on Bone. <i>Journal of Smart Processing</i> , 2019 , 8, 119-123	0.2	

86	Forefront in Biomedical Materials. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2019 , 68, 798-803	0.1	
85	Excellent mechanical and corrosion properties of austenitic stainless steel with a unique crystallographic lamellar microstructure via selective laser melting. <i>Scripta Materialia</i> , 2019 , 159, 89-93	5.6	145
84	Effects of Autogenous Bone Graft on Mass and Quality of Trabecular Bone in Ti β Al β V Spinal Cage Fabricated with Electron Beam Melting. <i>Materials Transactions</i> , 2019 , 60, 144-148	1.3	1
83	Osteoporosis Changes Collagen/Apatite Orientation and Young's Modulus in Vertebral Cortical Bone of Rat. <i>Calcified Tissue International</i> , 2019 , 104, 449-460	3.9	22
82	Novel evaluation method of dentin repair by direct pulp capping using high-resolution micro-computed tomography. <i>Clinical Oral Investigations</i> , 2018 , 22, 2879-2887	4.2	16
81	Effects of single or combination therapy of teriparatide and anti-RANKL monoclonal antibody on bone defect regeneration in mice. <i>Bone</i> , 2018 , 106, 1-10	4.7	15
80	Dual release of growth factor from nanocomposite fibrous scaffold promotes vascularisation and bone regeneration in rat critical sized calvarial defect. <i>Acta Biomaterialia</i> , 2018 , 78, 36-47	10.8	51
79	A paradigm shift for bone quality in prosthetic dentistry. <i>Annals of Japan Prosthodontic Society</i> , 2018 , 10, 1-15	0	
78	Design and Development of Intervertebral Fusion Cage with Novel Concept by Metal Powder-Based Additive Manufacturing. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2018 , 65, 132-134	0.2	
77	Non-surgical model for alveolar bone regeneration by bone morphogenetic protein-2/7 gene therapy. <i>Journal of Periodontology</i> , 2018 , 89, 85-92	4.6	5
76	Creation of Anisotropic Properties by Morphology and Microstructure Control in the Additive Manufactured Metallic Materials. <i>Materia Japan</i> , 2018 , 57, 145-149	0.1	2
75	Crystallographic Texture Formation of Beta-type Ti-15Mo-5Zr-3Al Alloy Through Selective Laser Melting. <i>Journal of Smart Processing</i> , 2018 , 7, 229-232	0.2	6
74	Trabecular health of vertebrae based on anisotropy in trabecular architecture and collagen/apatite micro-arrangement after implantation of intervertebral fusion cages in the sheep spine. <i>Bone</i> , 2018 , 108, 25-33	4.7	15
73	Successful additive manufacturing of MoSi ₂ including crystallographic texture and shape control. <i>Journal of Alloys and Compounds</i> , 2017 , 696, 67-72	5.7	46
72	Synchronous disruption of anisotropic arrangement of the osteocyte network and collagen/apatite in melanoma bone metastasis. <i>Journal of Structural Biology</i> , 2017 , 197, 260-270	3.4	41
71	Crystallographic texture control of beta-type Ti β 5Mo β Zr β Al alloy by selective laser melting for the development of novel implants with a biocompatible low Young's modulus. <i>Scripta Materialia</i> , 2017 , 132, 34-38	5.6	185
70	Development of a root canal treatment model in the rat. <i>Scientific Reports</i> , 2017 , 7, 3315	4.9	21
69	Effects of mechanical repetitive load on bone quality around implants in rat maxillae. <i>PLoS ONE</i> , 2017 , 12, e0189893	3.7	19

68	Design of the Next Generation Metallic Biomaterials. <i>Materia Japan</i> , 2017 , 56, 584-588	0.1	2
67	Co-deteriorations of anisotropic extracellular matrix arrangement and intrinsic mechanical property in c-src deficient osteopetrotic mouse femur. <i>Bone</i> , 2017 , 103, 216-223	4.7	27
66	A paradigm shift for bone quality in dentistry: A literature review. <i>Journal of Prosthodontic Research</i> , 2017 , 61, 353-362	4.3	26
65	Unloading-Induced Degradation of the Anisotropic Arrangement of Collagen/Apatite in Rat Femurs. <i>Calcified Tissue International</i> , 2017 , 100, 87-94	3.9	35
64	Optimally oriented grooves on dental implants improve bone quality around implants under repetitive mechanical loading. <i>Acta Biomaterialia</i> , 2017 , 48, 433-444	10.8	34
63	Control of Morphological and Microstructural Anisotropy through Powder-Based Metal Additive Manufacturing. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2017 , 64, 259-264	0.2	
62	10th Year as a Researcher. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2017 , 66, 442	0.1	
61	Evaluation of crystallographic orientation of biological apatite in vertebral cortical bone in ovariectomized cynomolgus monkeys treated with minodronic acid and alendronate. <i>Journal of Bone and Mineral Metabolism</i> , 2016 , 34, 234-41	2.9	20
60	New Powder/Solid Composite Exhibiting Low Young's Modulus and Energy Absorption for Biomedical Applications Fabricated by Additive Manufacturing 2016 , 1679-1683		
59	Biological Apatite Crystallite Alignment Analysis of Human Maxillary Molar Region Cortical Bone with Microbeam X-ray Diffraction. <i>Journal of Hard Tissue Biology</i> , 2016 , 25, 109-114	0.4	1
58	Influence of Implant Neck Design on Bone Formation Under Mechanical Repetitive Loading: Histomorphometric and Microcomputed Tomographic Studies in Rabbit Tibiae. <i>Implant Dentistry</i> , 2016 , 25, 171-8	2.4	1
57	In vitro assessment of a calcium-fluoroaluminosilicate glass-based desensitizer for the prevention of root surface demineralization. <i>Dental Materials Journal</i> , 2016 , 35, 399-407	2.5	9
56	Comprehensive analyses of how tubule occlusion and advanced glycation end-products diminish strength of aged dentin. <i>Scientific Reports</i> , 2016 , 6, 19849	4.9	34
55	Novel powder/solid composites possessing low Young's modulus and tunable energy absorption capacity, fabricated by electron beam melting, for biomedical applications. <i>Journal of Alloys and Compounds</i> , 2015 , 639, 336-340	5.7	31
54	Early initiation of endochondral ossification of mouse femur cultured in hydrogel with different mechanical stiffness. <i>Tissue Engineering - Part C: Methods</i> , 2015 , 21, 567-75	2.9	7
53	Control of "Material Parameters" and "Structural Parameters" for Anisotropic and Customized Design. <i>Materia Japan</i> , 2015 , 54, 502-504	0.1	
52	Delight Assessment of Anisotropic Custom Plate. <i>Materia Japan</i> , 2015 , 54, 515-516	0.1	
51	Solid/Powder Clad Ti-6Al-4V Alloy with Low Young's Modulus and High Toughness Fabricated by Electron Beam Melting. <i>Materials Transactions</i> , 2015 , 56, 755-758	1.3	4

50	An Approach to Creation of Innovation Styles for Anisotropic and Customized Design and Manufacture. <i>Materia Japan</i> , 2015 , 54, 519-521	0.1	
49	Formation of Crystallographic Orientation of Bone Apatite Crystallites Investigated by Powder-Metallurgical Method and Development of Novel Bone Implant Focusing on Apatite Orientation. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2015 , 62, 580-586	0.2	1
48	Development of Single Crystalline Bone Plate with Low Young's Modulus Using Beta-type Ti-15Mo-5Zr-3Al Alloy. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2015 , 101, 501-505	0.5	3
47	Powder-based Additive Manufacturing for Development of Tailor-made Implants for Orthopedic Applications. <i>KONA Powder and Particle Journal</i> , 2015 , 32, 75-84	3.4	28
46	Dietary L-lysine prevents arterial calcification in adenine-induced uremic rats. <i>Journal of the American Society of Nephrology: JASN</i> , 2014 , 25, 1954-65	12.7	38
45	Control of Mechanical Properties of Three-Dimensional Ti-6Al-4V Products Fabricated by Electron Beam Melting with Unidirectional Elongated Pores. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 4293-4301	2.3	26
44	Analysis of Osteocyte Morphology in Terms of Sensation of In Vivo Stress Applied on Bone. <i>Materials Science Forum</i> , 2014 , 783-786, 1265-1268	0.4	3
43	Control of Oriented Extracellular Matrix Similar to Anisotropic Bone Microstructure. <i>Materials Science Forum</i> , 2014 , 783-786, 72-77	0.4	2
42	Promotion of endodontic lesions in rats by a novel extraradicular biofilm model using obturation materials. <i>Applied and Environmental Microbiology</i> , 2014 , 80, 3804-10	4.8	13
41	Degree of biological apatite c-axis orientation rather than bone mineral density controls mechanical function in bone regenerated using recombinant bone morphogenetic protein-2. <i>Journal of Bone and Mineral Research</i> , 2013 , 28, 1170-9	6.3	118
40	Advanced Analysis and Control of Bone Microstructure Based on a Materials Scientific Study Including Microbeam X-ray Diffraction 2013 , 155-167		4
39	Individual mechanical properties of ferrite and martensite in Fe-0.16mass% C-0.0mass% Si-0.5mass% Mn steel. <i>Journal of Alloys and Compounds</i> , 2013 , 577, S593-S596	5.7	18
38	Design and optimization of the oriented groove on the hip implant surface to promote bone microstructure integrity. <i>Bone</i> , 2013 , 52, 659-67	4.7	69
37	Preferential Orientation of Collagen/Biological Apatite in Growing Rat Ulna under an Artificial Loading Condition. <i>Materials Transactions</i> , 2013 , 54, 1257-1261	1.3	6
36	Biological apatite (BAP) crystallographic orientation and texture as a new index for assessing the microstructure and function of bone regenerated by tissue engineering. <i>Bone</i> , 2012 , 51, 741-7	4.7	90
35	Chronological histological changes during bone regeneration on a non-crosslinked atelocollagen matrix. <i>Journal of Bone and Mineral Metabolism</i> , 2012 , 30, 638-50	2.9	7
34	Optimization of Cr content of metastable β -type Ti-Cr alloys with changeable Young's modulus for spinal fixation applications. <i>Acta Biomaterialia</i> , 2012 , 8, 2392-400	10.8	90
33	Control of Osteoblastic Cell Behavior by Surface Topography Introduced by Plastic Deformation of Ti Single Crystal with h.c.p. Structure. <i>Materials Science Forum</i> , 2012 , 706-709, 549-552	0.4	

32	Single Crystal Growth and its Microstructure in Co-Cr-Mo Alloys for Biomedical Applications. <i>Materials Science Forum</i> , 2012 , 706-709, 561-565	0.4	2
31	Regeneration of Bone Mass and Bone Quality around Implant with Grooves for Aligning Bone Cells in Rabbit Hindlimb Bones. <i>Materials Science Forum</i> , 2012 , 706-709, 510-513	0.4	
30	Effects of a coating resin containing S-PRG filler to prevent demineralization of root surfaces. <i>Dental Materials Journal</i> , 2012 , 31, 909-15	2.5	43
29	Bone Loss and Degradation of Bone Quality in the Human Femur after Total Hip Arthroplasty under Stress-Shielding by Titanium-Based Implant. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2012 , 76, 468-473	0.4	2
28	Bone Loss and Reduced Bone Quality of the Human Femur after Total Hip Arthroplasty under Stress-Shielding Effects by Titanium-Based Implant. <i>Materials Transactions</i> , 2012 , 53, 565-570	1.3	76
27	7B34 Evaluation of apatite orientation as a bone quality parameter in regenerative and diseased bone and the related mechanical property.. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME</i> , 2012 , 2012.24, _7B34-1_-_7B34-2_	0	
26	Design of Biomaterials for Bone Replacement Based on Parameters Determining Bone Quality 2012 , 55-65		
25	Development of high Zr-containing Ti-based alloys with low Young's modulus for use in removable implants. <i>Materials Science and Engineering C</i> , 2011 , 31, 1436-1444	8.3	88
24	Zirconia-hydroxyapatite composite material with micro porous structure. <i>Dental Materials</i> , 2011 , 27, e205-12	5.7	31
23	Biomechanical evaluation of regenerating long bone by nanoindentation. <i>Journal of Materials Science: Materials in Medicine</i> , 2011 , 22, 969-76	4.5	43
22	Fabrication and Characterization of Porous Implant Products with Aligned Pores by EBM Method for Biomedical Application. <i>Advanced Materials Research</i> , 2011 , 409, 142-145	0.5	5
21	Formation of New Bone with Preferentially Oriented Biological Apatite Crystals Using a Novel Cylindrical Implant Containing Anisotropic Open Pores Fabricated by the Electron Beam Melting (EBM) Method. <i>ISIJ International</i> , 2011 , 51, 262-268	1.7	25
20	Orientation of Biological Apatite in Rat Calvaria Analyzed by Microbeam X-Ray Diffractometer. <i>Materials Science Forum</i> , 2010 , 638-642, 576-581	0.4	7
19	Evaluation of Mechanical Properties of Regenerated Bone by Nanoindentation Technique. <i>Materials Science Forum</i> , 2010 , 654-656, 2220-2224	0.4	1
18	Evaluation and Control of Crystallographic Alignment of Biological Apatite Crystallites in Bones. <i>Materials Science Forum</i> , 2010 , 654-656, 2212-2215	0.4	
17	Stress Simulation and Related Bone Ingrowth in Grooves on Implant Surface. <i>Materials Science Forum</i> , 2010 , 638-642, 664-669	0.4	5
16	Quantity and Quality of Regenerated Bone in Grooves Aligned at Different Angles from the Implant Surface. <i>Materials Science Forum</i> , 2010 , 654-656, 2241-2244	0.4	4
15	In vitro engineering of transitional tissue by patterning and functional control of cells in fibrin gel. <i>Soft Matter</i> , 2010 , 6, 1662	3.6	6

14	The influence of the antibacterial monomer 12-methacryloyloxydodecylpyridinium bromide on the proliferation, differentiation and mineralization of odontoblast-like cells. <i>Biomaterials</i> , 2010 , 31, 1518-32	15.6	29
13	Formation of New Bone with Preferentially Oriented Biological Apatite Crystals Using Novel Cylindrical Implant Containing Anisotropic Open Pores Fabricated by Electron Beam Melting (EBM) Method. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2010 , 96, 572-578	0.5	3
12	Preferential orientation of biological apatite crystallite in original, regenerated and diseased cortical bones. <i>Journal of the Ceramic Society of Japan</i> , 2008 , 116, 313-315	1	10
11	Two-Dimensional Quantitative Analysis of Preferential Alignment of Biological Apatite c-axis for Isolated Human Trabecular Bone Using Microbeam X-ray Diffractometer with a Transmission Optical System. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2008 , 72, 57-62	0.4	
10	Change in Material and Structural Parameters of Bone Mechanical Function during Long-Bone Regeneration. <i>Materials Science Forum</i> , 2007 , 561-565, 1451-1454	0.4	4
9	Variation in Bone Quality during Regenerative Process. <i>Materials Science Forum</i> , 2007 , 539-543, 675-680	0.4	9
8	Evaluation of Bone Quality near Metallic Implants with and without Lotus-Type Pores for Optimal Biomaterial Design. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2007 , 71, 432-438	0.4	
7	Two-Dimensional Quantitative Analysis of Preferential Alignment of BAp c-axis for Isolated Human Trabecular Bone Using Microbeam X-ray Diffractometer with a Transmission Optical System. <i>Materials Transactions</i> , 2007 , 48, 343-347	1.3	22
6	Role of Stress Distribution on Healing Process of Preferential Alignment of Biological Apatite in Long Bones. <i>Materials Science Forum</i> , 2006 , 512, 261-264	0.4	25
5	Crystallographic Approach to Regenerated and Pathological Hard Tissues. <i>Materials Science Forum</i> , 2006 , 512, 255-260	0.4	8
4	Evaluation of Bone Quality near Metallic Implants with and without Lotus-Type Pores for Optimal Biomaterial Design. <i>Materials Transactions</i> , 2006 , 47, 2233-2239	1.3	32
3	Texture of Biological Apatite Crystallites and the Related Mechanical Function in Regenerated and Pathological Hard Tissues. <i>Journal of Hard Tissue Biology</i> , 2005 , 14, 253-254	0.4	3
2	Texture of Biological Apatite Crystallites and the Related Mechanical Function in Regenerated and Pathological Hard Tissues. <i>Journal of Hard Tissue Biology</i> , 2005 , 14, 363-364	0.4	6
1	EFFECTS OF APPLIED STRESS ON PREFERENTIAL ALIGNMENT OF BIOLOGICAL APATITE IN RABBIT FORELIMB BONES. <i>Phosphorus Research Bulletin</i> , 2004 , 17, 77-82	0.3	13