

Takuya Ishimoto

List of Publications by Year in descending order

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Version: 2024-02-01

161
papers

3,544
citations

136885

32
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155592

55
g-index

167
all docs

167
docs citations

167
times ranked

2514
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystallographic texture control of beta-type Ti-15Mo-5Zr-3Al alloy by selective laser melting for the development of novel implants with a biocompatible low Young's modulus. Scripta Materialia, 2017, 132, 34-38.	2.6	302
2	Excellent mechanical and corrosion properties of austenitic stainless steel with a unique crystallographic lamellar microstructure via selective laser melting. Scripta Materialia, 2019, 159, 89-93.	2.6	267
3	Unique crystallographic texture formation in Inconel 718 by laser powder bed fusion and its effect on mechanical anisotropy. Acta Materialia, 2021, 212, 116876.	3.8	174
4	Degree of biological apatite <i>c</i> -axis orientation rather than bone mineral density controls mechanical function in bone regenerated using recombinant bone morphogenetic protein-2. Journal of Bone and Mineral Research, 2013, 28, 1170-1179.	3.1	144
5	Osteocalcin is necessary for the alignment of apatite crystallites, but not glucose metabolism, testosterone synthesis, or muscle mass. PLoS Genetics, 2020, 16, e1008586.	1.5	119
6	Development of high Zr-containing Ti-based alloys with low Young's modulus for use in removable implants. Materials Science and Engineering C, 2011, 31, 1436-1444.	3.8	113
7	Biological apatite (BAp) crystallographic orientation and texture as a new index for assessing the microstructure and function of bone regenerated by tissue engineering. Bone, 2012, 51, 741-747.	1.4	107
8	Optimization of Cr content of metastable β -type Ti-Cr alloys with changeable Young's modulus for spinal fixation applications. Acta Biomaterialia, 2012, 8, 2392-2400.	4.1	107
9	Development of TiNbTaZrMo bio-high entropy alloy (BioHEA) super-solid solution by selective laser melting, and its improved mechanical property and biocompatibility. Scripta Materialia, 2021, 194, 113658.	2.6	95
10	Bone Loss and Reduced Bone Quality of the Human Femur after Total Hip Arthroplasty under Stress-Shielding Effects by Titanium-Based Implant. Materials Transactions, 2012, 53, 565-570.	0.4	91
11	Dual release of growth factor from nanocomposite fibrous scaffold promotes vascularisation and bone regeneration in rat critical sized calvarial defect. Acta Biomaterialia, 2018, 78, 36-47.	4.1	85
12	Design and optimization of the oriented groove on the hip implant surface to promote bone microstructure integrity. Bone, 2013, 52, 659-667.	1.4	78
13	Crystallographic Orientation Control of 316L Austenitic Stainless Steel via Selective Laser Melting. ISIJ International, 2020, 60, 1758-1764.	0.6	69
14	Successful additive manufacturing of MoSi ₂ including crystallographic texture and shape control. Journal of Alloys and Compounds, 2017, 696, 67-72.	2.8	66
15	Comprehensive analyses of how tubule occlusion and advanced glycation end-products diminish strength of aged dentin. Scientific Reports, 2016, 6, 19849.	1.6	63
16	Effects of a coating resin containing S-PRG filler to prevent demineralization of root surfaces. Dental Materials Journal, 2012, 31, 909-915.	0.8	62
17	Synchronous disruption of anisotropic arrangement of the osteocyte network and collagen/apatite in melanoma bone metastasis. Journal of Structural Biology, 2017, 197, 260-270.	1.3	57
18	Biomechanical evaluation of regenerating long bone by nanoindentation. Journal of Materials Science: Materials in Medicine, 2011, 22, 969-976.	1.7	50

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19	Dietary L-Lysine Prevents Arterial Calcification in Adenine-Induced Uremic Rats. <i>Journal of the American Society of Nephrology: JASN</i> , 2014, 25, 1954-1965.	3.0	47
20	Optimally oriented grooves on dental implants improve bone quality around implants under repetitive mechanical loading. <i>Acta Biomaterialia</i> , 2017, 48, 433-444.	4.1	45
21	Unloading-Induced Degradation of the Anisotropic Arrangement of Collagen/Apatite in Rat Femurs. <i>Calcified Tissue International</i> , 2017, 100, 87-94.	1.5	44
22	Powder-based Additive Manufacturing for Development of Tailor-made Implants for Orthopedic Applications. <i>KONA Powder and Particle Journal</i> , 2015, 32, 75-84.	0.9	42
23	Osteoporosis Changes Collagen/Apatite Orientation and Young's Modulus in Vertebral Cortical Bone of Rat. <i>Calcified Tissue International</i> , 2019, 104, 449-460.	1.5	41
24	Zirconia-hydroxyapatite composite material with micro porous structure. <i>Dental Materials</i> , 2011, 27, e205-e212.	1.6	40
25	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.	2.8	40
26	Development of a root canal treatment model in the rat. <i>Scientific Reports</i> , 2017, 7, 3315.	1.6	40
27	Single crystalline-like crystallographic texture formation of pure tungsten through laser powder bed fusion. <i>Scripta Materialia</i> , 2022, 206, 114252.	2.6	40
28	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.	2.6	39
29	A paradigm shift for bone quality in dentistry: A literature review. <i>Journal of Prosthodontic Research</i> , 2017, 61, 353-362.	1.1	36
30	Crystallographic orientation control of pure chromium via laser powder bed fusion and improved high temperature oxidation resistance. <i>Additive Manufacturing</i> , 2020, 36, 101624.	1.7	36
31	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.	1.4	35
32	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.	0.4	34
33	The influence of the antibacterial monomer 12-methacryloyloxydodecylpyridinium bromide on the proliferation, differentiation and mineralization of odontoblast-like cells. <i>Biomaterials</i> , 2010, 31, 1518-1532.	5.7	33
34	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.	1.1	31
35	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.	1.4	31
36	Effects of mechanical repetitive load on bone quality around implants in rat maxillae. <i>PLoS ONE</i> , 2017, 12, e0189893.	1.1	29

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37	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.	0.6	29
38	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.	0.4	28
39	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.	1.7	27
40	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.	0.3	26
41	Quantitative Evaluation of Osteocyte Morphology and Bone Anisotropic Extracellular Matrix in Rat Femur. <i>Calcified Tissue International</i> , 2021, 109, 434-444.	1.5	25
42	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.	1.4	24
43	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, 234-241.	1.3	22
44	Control of Crystallographic Texture and Mechanical Properties of Hastelloy-X via Laser Powder Bed Fusion. <i>Crystals</i> , 2021, 11, 1064.	1.0	22
45	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, 48, 102444.	1.7	22
46	Individual mechanical properties of ferrite and martensite in Fe-0.16mass% C-1.0mass% Si-1.5mass% Mn steel. <i>Journal of Alloys and Compounds</i> , 2013, 577, S593-S596.	2.8	20
47	Comparison of microstructure, crystallographic texture, and mechanical properties in Ti-15Mo-5Zr-3Al alloys fabricated via electron and laser beam powder bed fusion technologies. <i>Additive Manufacturing</i> , 2021, 47, 102329.	1.7	20
48	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.	1.0	18
49	Promotion of Endodontic Lesions in Rats by a Novel Extraradicular Biofilm Model Using Obturation Materials. <i>Applied and Environmental Microbiology</i> , 2014, 80, 3804-3810.	1.4	17
50	Ex Vivo 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.	1.8	17
51	3D Puzzle in Cube Pattern for Anisotropic/Isotropic Mechanical Control of Structure Fabricated by Metal Additive Manufacturing. <i>Crystals</i> , 2021, 11, 959.	1.0	17
52	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.	1.7	17
53	Surface residual stress and phase stability in unstable β -type Ti-15Mo-5Zr-3Al alloy manufactured by laser and electron beam powder bed fusion technologies. <i>Additive Manufacturing</i> , 2021, 47, 102257.	1.7	17
54	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.	1.4	16

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55	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.	1.4	16
56	Factor which governs the feature of texture developed during additive manufacturing; clarified from the study on hexagonal C40-NbSi ₂ . <i>Scripta Materialia</i> , 2021, 203, 114111.	2.6	15
57	<i>In vitro&/i> assessment of a calcium-fluoroaluminosilicate glass-based desensitizer for the prevention of root surface demineralization. <i>Dental Materials Journal</i> , 2016, 35, 399-407.	0.8	14
58	Influence of powder characteristics on densification via crystallographic texture formation: Pure tungsten prepared by laser powder bed fusion. <i>Additive Manufacturing Letters</i> , 2021, 1, 100016.	0.9	14
59	Bone fragility via degradation of bone quality featured by collagen/apatite micro-arrangement in human rheumatic arthritis. <i>Bone</i> , 2022, 155, 116261.	1.4	14
60	EFFECTS OF APPLIED STRESS ON PREFERENTIAL ALIGNMENT OF BIOLOGICAL APATITE IN RABBIT FORELIMB BONES. <i>Phosphorus Research Bulletin</i> , 2004, 17, 77-82.	0.1	13
61	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.	1.0	13
62	Octacalcium phosphate crystals including a higher density dislocation improve its materials osteogenicity. <i>Applied Materials Today</i> , 2022, 26, 101279.	2.3	13
63	Early Initiation of Endochondral Ossification of Mouse Femur Cultured in Hydrogel with Different Mechanical Stiffness. <i>Tissue Engineering - Part C: Methods</i> , 2015, 21, 567-575.	1.1	12
64	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.	0.0	12
65	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.	1.4	11
66	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.	1.0	11
67	Crystallographic Approach to Regenerated and Pathological Hard Tissues. <i>Materials Science Forum</i> , 2006, 512, 255-260.	0.3	10
68	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.	0.5	10
69	Non-surgical model for alveolar bone regeneration by bone morphogenetic protein-2/7 gene therapy. <i>Journal of Periodontology</i> , 2018, 89, 85-92.	1.7	10
70	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.	1.1	10
71	Reduction of Spatter Generation Using Atmospheric Gas in Laser Powder Bed Fusion of Ti-6Al-4V. <i>Materials Transactions</i> , 2021, 62, 1225-1230.	0.4	10
72	Additive Manufacturing of Titanium and Titanium-based Alloys. <i>Materia Japan</i> , 2019, 58, 181-187.	0.1	10

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73	Variation in Bone Quality during Regenerative Process. Materials Science Forum, 2007, 539-543, 675-680.	0.3	9
74	In vitro engineering of transitional tissue by patterning and functional control of cells in fibrin gel. Soft Matter, 2010, 6, 1662.	1.2	9
75	Chronological histological changes during bone regeneration on a non-crosslinked atelocollagen matrix. Journal of Bone and Mineral Metabolism, 2012, 30, 638-650.	1.3	9
76	ONO-1301 loaded nanocomposite scaffolds modulate cAMP mediated signaling and induce new bone formation in critical sized bone defect. Biomaterials Science, 2020, 8, 884-896.	2.6	9
77	Hypermineralization of Hearing-Related Bones by a Specific Osteoblast Subtype. Journal of Bone and Mineral Research, 2020, 36, 1535-1547.	3.1	9
78	Orientation of Biological Apatite in Rat Calvaria Analyzed by Microbeam X-Ray Diffractometer. Materials Science Forum, 2010, 638-642, 576-581.	0.3	8
79	Promoting Effect of Basic Fibroblast Growth Factor in Synovial Mesenchymal Stem Cell-Based Cartilage Regeneration. International Journal of Molecular Sciences, 2021, 22, 300.	1.8	8
80	Fabrication and Characterization of Porous Implant Products with Aligned Pores by EBM Method for Biomedical Application. Advanced Materials Research, 0, 409, 142-145.	0.3	7
81	Preferential Orientation of Collagen/Biological Apatite in Growing Rat Ulna under an Artificial Loading Condition. Materials Transactions, 2013, 54, 1257-1261.	0.4	6
82	The combined effects of teriparatide and anti-RANKL monoclonal antibody on bone defect regeneration in ovariectomized mice. Bone, 2020, 130, 115077.	1.4	6
83	Modified Cellular Automaton Simulation of Metal Additive Manufacturing. Materials Transactions, 2021, 62, 864-870.	0.4	6
84	Overexpression of Fam20C in osteoblast in vivo leads to increased cortical bone formation and osteoclastic bone resorption. Bone, 2020, 138, 115414.	1.4	6
85	Texture of Biological Apatite Crystallites and the Related Mechanical Function in Regenerated and Pathological Hard Tissues. Journal of Hard Tissue Biology, 2005, 14, 363-364.	0.2	6
86	Outstanding in vivo mechanical integrity of additively manufactured spinal cages with a novel "honeycomb tree structure" design via guiding bone matrix orientation. Spine Journal, 2022, , .	0.6	6
87	Texture of Biological Apatite Crystallites and the Related Mechanical Function in Regenerated and Pathological Hard Tissues. Journal of Hard Tissue Biology, 2005, 14, 253-254.	0.2	5
88	Stress Simulation and Related Bone Ingrowth in Grooves on Implant Surface. Materials Science Forum, 2010, 638-642, 664-669.	0.3	5
89	Solid/Powder Clad Ti-6Al-4V Alloy with Low Young's Modulus and High Toughness Fabricated by Electron Beam Melting. Materials Transactions, 2015, 56, 755-758.	0.4	5
90	Crystallographic Texture Formation of Pure Tantalum by Selective Laser Melting Method. Journal of Smart Processing, 2019, 8, 151-154.	0.0	5

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91	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.	0.2	5
92	Change in Material and Structural Parameters of Bone Mechanical Function during Long-Bone Regeneration. <i>Materials Science Forum</i> , 2007, 561-565, 1451-1454.	0.3	4
93	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.	0.3	4
94	Advanced Analysis and Control of Bone Microstructure Based on a Materials Scientific Study Including Microbeam X-ray Diffraction. , 2013, , 155-167.		4
95	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.	0.1	4
96	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.	0.0	4
97	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.	0.4	4
98	Combination treatment with ibandronate and eldecalcitol 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.	1.4	4
99	Analysis of Osteocyte Morphology in Terms of Sensation of <i>In Vivo</i> Stress Applied on Bone. <i>Materials Science Forum</i> , 0, 783-786, 1265-1268.	0.3	3
100	Assessment of the functional efficacy of root canal treatment with high-frequency waves in rats. <i>PLoS ONE</i> , 2020, 15, e0239660.	1.1	3
101	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.	1.6	3
102	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, 6232.	1.8	3
103	Structural characteristics of the bone surrounding dental implants placed into the tail-suspended mice. <i>International Journal of Implant Dentistry</i> , 2021, 7, 89.	1.1	3
104	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.	0.1	3
105	Single Crystal Growth and its Microstructure in Co-Cr-Mo Alloys for Biomedical Applications. <i>Materials Science Forum</i> , 0, 706-709, 561-565.	0.3	2
106	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.	0.2	2
107	Control of Oriented Extracellular Matrix Similar to Anisotropic Bone Microstructure. <i>Materials Science Forum</i> , 0, 783-786, 72-77.	0.3	2
108	Influence of Implant Neck Design on Bone Formation Under Mechanical Repetitive Loading. <i>Implant Dentistry</i> , 2016, 25, 171-178.	1.7	2

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109	Design of the Next Generation Metallic Biomaterials. <i>Materia Japan</i> , 2017, 56, 584-588.	0.1	2
110	Effects of Autogenous Bone Graft on Mass and Quality of Trabecular Bone in Ti-6Al-4V Spinal Cage Fabricated with Electron Beam Melting. <i>Materials Transactions</i> , 2019, 60, 144-148.	0.4	2
111	Authors'™ Response to Letter from Professor Birkedal. <i>Calcified Tissue International</i> , 2022, 110, 144-145.	1.5	2
112	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
113	Effects of Recrystallization on Tensile Anisotropic Properties for IN738LC Fabricated by Laser Powder Bed Fusion. <i>Crystals</i> , 2022, 12, 842.	1.0	2
114	A Novel Ex Vivo Bone Culture Model for Regulation of Collagen/Apatite Preferential Orientation by Mechanical Loading. <i>International Journal of Molecular Sciences</i> , 2022, 23, 7423.	1.8	2
115	Evaluation of Mechanical Properties of Regenerated Bone by Nanoindentation Technique. <i>Materials Science Forum</i> , 2010, 654-656, 2220-2224.	0.3	1
116	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 Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2015, 62, 580-586.	0.1	1
117	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.	0.2	1
118	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.	0.1	1
119	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.	0.2	1
120	Effect of Atmosphere Gas on Microstructure in Products of 316L Austenitic Stainless Steel Fabricated by Laser Powder Bed Fusion. <i>Journal of Smart Processing</i> , 2021, 10, 230-234.	0.0	1
121	Effect of Laser Powder Bed Fusion on the Microstructure of 316L Austenitic Stainless Steel. <i>Journal of Smart Processing</i> , 2021, 10, 230-234.	0.0	1
122	Effect of Laser Powder Bed Fusion on the Microstructure of 316L Austenitic Stainless Steel. <i>Journal of Smart Processing</i> , 2021, 10, 230-234.	0.0	1
123	Design of Biomaterials for Bone Replacement Based on Parameters Determining Bone Quality. , 2012, , 55-65.		1
124	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.	0.0	1
125	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	1
126	Periodontal Tissue as a Biomaterial for Hard-Tissue Regeneration following bmp-2 Gene Transfer. <i>Materials</i> , 2022, 15, 993.	1.3	1

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127	Ibandronate Suppresses Changes in Apatite Orientation and Young's Modulus Caused by Estrogen Deficiency in Rat Vertebrae. <i>Calcified Tissue International</i> , 2022, 110, 736-745.	1.5	1
128	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.	0.2	1
129	Progresses of Additive Manufacturing and Elementary Knowledge of Laser Beam Powder Bed Fusion. <i>Journal of Smart Processing</i> , 2021, 10, 131-136.	0.0	1
130	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.	0.2	0
131	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.	0.2	0
132	Evaluation and Control of Crystallographic Alignment of Biological Apatite Crystallites in Bones. <i>Materials Science Forum</i> , 2010, 654-656, 2212-2215.	0.3	0
133	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> , 0, 706-709, 549-552.	0.3	0
134	Regeneration of Bone Mass and Bone Quality around Implant with Grooves for Aligning Bone Cells in Rabbit Hindlimb Bones. <i>Materials Science Forum</i> , 0, 706-709, 510-513.	0.3	0
135	Control of “Material Parameters” and “Structural Parameters” for Anisotropic and Customized Design. <i>Materia Japan</i> , 2015, 54, 502-504.	0.1	0
136	Delight Assessment of Anisotropic Custom Plate. <i>Materia Japan</i> , 2015, 54, 515-516.	0.1	0
137	An Approach to Creation of Innovation Styles for Anisotropic and Customized Design and Manufacture. <i>Materia Japan</i> , 2015, 54, 519-521.	0.1	0
138	Control of Morphological and Microstructural Anisotropy through Powder-Based Metal Additive Manufacturing. <i>Funtai Oyobi Fummatsu Yakini/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2017, 64, 259-264.	0.1	0
139	A paradigm shift for bone quality in prosthetic dentistry. <i>Annals of Japan Prosthodontic Society</i> , 2018, 10, 1-15.	0.0	0
140	Design and Development of Intervertebral Fusion Cage with Novel Concept by Metal Powder-Based Additive Manufacturing. <i>Funtai Oyobi Fummatsu Yakini/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2018, 65, 132-134.	0.1	0
141	ãf-ãf1/4ã, ¶ç²%ææ«ã°Šæ²¶èžçµê•æ³•ã«ã, ^ã, Šã1/2œè£1/2ã-ãŸ Ti-15Mo-5Zr-3Al â•é†'è æ-TMã«ãšãã, æ®.ç.™ãžœãšã•ã, 1ã¶f£ãf³ã		
142	Modified Cellular Automaton Simulation of Metal Additive Manufacturing. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2021, 85, 103-109.	0.2	0
143	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_.	0.0	0
144	10th Year as a Researcher. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2017, 66, 442.	0.1	0

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