

Takuya Ishimoto

List of Publications by Citations

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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 | 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 |
| 156 | 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 |
| 155 | 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 |
| 154 | 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 |
| 153 | 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 |
| 152 | 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 |
| 151 | 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 |
| 150 | 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 |
| 149 | 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 |
| 148 | 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 |
| 147 | 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 |
| 146 | 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 |
| 145 | Biomechanical evaluation of regenerating long bone by nanoindentation. <i>Journal of Materials Science: Materials in Medicine</i> , 2011 , 22, 969-76 | 4.5 | 43 |
| 144 | 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 |
| 143 | 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 |
| 142 | Crystallographic Orientation Control of 316L Austenitic Stainless Steel via Selective Laser Melting. <i>ISIJ International</i> , 2020 , 60, 1758-1764 | 1.7 | 39 |
| 141 | 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 |

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|-----|--|------|----|
| 140 | 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 |
| 139 | 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 |
| 138 | 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 |
| 137 | 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 |
| 136 | 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 |
| 135 | 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 |
| 134 | Zirconia-hydroxyapatite composite material with micro porous structure. <i>Dental Materials</i> , 2011 , 27, e205-12 | 5.7 | 31 |
| 133 | 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 |
| 132 | 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 |
| 131 | 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 |
| 130 | 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 |
| 129 | A paradigm shift for bone quality in dentistry: A literature review. <i>Journal of Prosthodontic Research</i> , 2017 , 61, 353-362 | 4.3 | 26 |
| 128 | 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 |
| 127 | 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 |
| 126 | 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 |
| 125 | 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 |
| 124 | Development of a root canal treatment model in the rat. <i>Scientific Reports</i> , 2017 , 7, 3315 | 4.9 | 21 |
| 123 | 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 |

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| 122 | Effects of mechanical repetitive load on bone quality around implants in rat maxillae. <i>PLoS ONE</i> , 2017 , 12, e0189893 | 3.7 | 19 |
| 121 | Individual mechanical properties of ferrite and martensite in Fe $\bar{0}$.16mass% C $\bar{0}$.0mass% Si $\bar{0}$.5mass% Mn steel. <i>Journal of Alloys and Compounds</i> , 2013 , 577, S593-S596 | 5.7 | 18 |
| 120 | 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 |
| 119 | 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 |
| 118 | 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 |
| 117 | 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 |
| 116 | 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 |
| 115 | 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 |
| 114 | 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 |
| 113 | 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 |
| 112 | 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 |
| 111 | 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 |
| 110 | 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 |
| 109 | Variation in Bone Quality during Regenerative Process. <i>Materials Science Forum</i> , 2007 , 539-543, 675-680 | 0.4 | 9 |
| 108 | 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 |
| 107 | Factor which governs the feature of texture developed during additive manufacturing; clarified from the study on hexagonal C40-NbSi $\bar{2}$. <i>Scripta Materialia</i> , 2021 , 203, 114111 | 5.6 | 9 |
| 106 | Crystallographic Approach to Regenerated and Pathological Hard Tissues. <i>Materials Science Forum</i> , 2006 , 512, 255-260 | 0.4 | 8 |
| 105 | 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 |

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| 104 | 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 |
| 103 | Single crystalline-like crystallographic texture formation of pure tungsten through laser powder bed fusion. <i>Scripta Materialia</i> , 2022 , 206, 114252 | 5.6 | 8 |
| 102 | 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 |
| 101 | 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 |
| 100 | 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 |
| 99 | 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 |
| 98 | 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 |
| 97 | Additive Manufacturing of Titanium and Titanium-based Alloys. <i>Materia Japan</i> , 2019 , 58, 181-187 | 0.1 | 6 |
| 96 | 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 |
| 95 | 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 |
| 94 | 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 |
| 93 | Stress Simulation and Related Bone Ingrowth in Grooves on Implant Surface. <i>Materials Science Forum</i> , 2010 , 638-642, 664-669 | 0.4 | 5 |
| 92 | 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 |
| 91 | 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 |
| 90 | 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 |
| 89 | 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 |
| 88 | 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 | 6.1 | 5 |
| 87 | Advanced Analysis and Control of Bone Microstructure Based on a Materials Scientific Study Including Microbeam X-ray Diffraction 2013 , 155-167 | | 4 |

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| 86 | 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 |
| 85 | 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 |
| 84 | 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 |
| 83 | 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 |
| 82 | 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 |
| 81 | 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 |
| 80 | Control of Crystallographic Texture and Mechanical Properties of Hastelloy-X via Laser Powder Bed Fusion. <i>Crystals</i> , 2021 , 11, 1064 | 2.3 | 4 |
| 79 | 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 |
| 78 | Crystallographic Texture Formation of Pure Tantalum by Selective Laser Melting Method. <i>Journal of Smart Processing</i> , 2019 , 8, 151-154 | 0.2 | 3 |
| 77 | 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 |
| 76 | 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 |
| 75 | 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 |
| 74 | 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 |
| 73 | 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 |
| 72 | 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 |
| 71 | 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 |
| 70 | 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 |
| 69 | 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 |

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| 68 | 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 |
| 67 | 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 |
| 66 | 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 |
| 65 | 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 |
| 64 | 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 |
| 63 | Design of the Next Generation Metallic Biomaterials. <i>Materia Japan</i> , 2017 , 56, 584-588 | 0.1 | 2 |
| 62 | Control of Oriented Extracellular Matrix Similar to Anisotropic Bone Microstructure. <i>Materials Science Forum</i> , 2014 , 783-786, 72-77 | 0.4 | 2 |
| 61 | 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 |
| 60 | 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 |
| 59 | Octacalcium phosphate crystals including a higher density dislocation improve its materials osteogenicity. <i>Applied Materials Today</i> , 2022 , 26, 101279 | 6.6 | 2 |
| 58 | 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 |
| 57 | Reduction of Spatter Generation Using Atmospheric Gas in Laser Powder Bed Fusion of Ti β Al β V. <i>Materials Transactions</i> , 2021 , 62, 1225-1230 | 1.3 | 2 |
| 56 | Authors' Response to Letter from Professor Birkedal. <i>Calcified Tissue International</i> , 2021 , 1 | 3.9 | 2 |
| 55 | Comparison of microstructure, crystallographic texture, and mechanical properties in Ti β 5Mo β Zr β Al alloys fabricated via electron and laser beam powder bed fusion technologies. <i>Additive Manufacturing</i> , 2021 , 102329 | 6.1 | 2 |
| 54 | 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 |
| 53 | Evaluation of Mechanical Properties of Regenerated Bone by Nanoindentation Technique. <i>Materials Science Forum</i> , 2010 , 654-656, 2220-2224 | 0.4 | 1 |
| 52 | 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 |
| 51 | 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 |

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|----|--|-----|---|
| 50 | 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 |
| 49 | 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 |
| 48 | 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 |
| 47 | 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 |
| 46 | Effects of Autogenous Bone Graft on Mass and Quality of Trabecular Bone in Ti6Al4V Spinal Cage Fabricated with Electron Beam Melting. <i>Materials Transactions</i> , 2019 , 60, 144-148 | 1.3 | 1 |
| 45 | 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 |
| 44 | 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 |
| 43 | Modified Cellular Automaton Simulation of Metal Additive Manufacturing. <i>Materials Transactions</i> , 2021 , 62, 864-870 | 1.3 | 0 |
| 42 | 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 |
| 41 | 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 |
| 40 | 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 |
| 39 | New Powder/Solid Composite Exhibiting Low Young's Modulus and Energy Absorption for Biomedical Applications Fabricated by Additive Manufacturing 2016 , 1679-1683 | | |
| 38 | A paradigm shift for bone quality in prosthetic dentistry. <i>Annals of Japan Prosthodontic Society</i> , 2018 , 10, 1-15 | 0 | |
| 37 | 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 | |
| 36 | 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 | |
| 35 | Control of "Material Parameters" and "Structural Parameters" for Anisotropic and Customized Design. <i>Materia Japan</i> , 2015 , 54, 502-504 | 0.1 | |
| 34 | Delight Assessment of Anisotropic Custom Plate. <i>Materia Japan</i> , 2015 , 54, 515-516 | 0.1 | |
| 33 | An Approach to Creation of Innovation Styles for Anisotropic and Customized Design and Manufacture. <i>Materia Japan</i> , 2015 , 54, 519-521 | 0.1 | |

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| 32 | Evaluation and Control of Crystallographic Alignment of Biological Apatite Crystallites in Bones. <i>Materials Science Forum</i> , 2010 , 654-656, 2212-2215 | 0.4 |
| 31 | 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 |
| 30 | 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 |
| 29 | 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 |
| 28 | 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 |
| 27 | 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 |
| 26 | 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 |
| 25 | Forefront in Biomedical Materials. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2019 , 68, 798-803 | 0.1 |
| 24 | 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 |
| 23 | 10th Year as a Researcher. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2017 , 66, 442 | 0.1 |
| 22 | 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 |
| 21 | Design of Biomaterials for Bone Replacement Based on Parameters Determining Bone Quality 2012 , 55-65 | |
| 20 | 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 |
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