Takayoshi Nakano

List of Publications by Year
in descending order

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Version: 2024-02-01

446	10,183	38742	56724
papers	citations	50 h-index	83 g-index

456	456	456	6245
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Re-Evaluation of Initial Bone Mineralization from an Engineering Perspective. Tissue Engineering - Part B: Reviews, 2022, 28, 246-255.	4.8	3
2	Authorsâ€™ Response to Letter from Professor Birkedal. Calcified Tissue International, 2022, 110, 144-145.	3.1	2
3	Single crystalline-like crystallographic texture formation of pure tungsten through laser powder bed fusion. Scripta Materialia, 2022, 206, 114252.	5.2	40
4	Design and development of (Ti, Zr, Hf)-Al based medium entropy alloys and high entropy alloys. Materials Chemistry and Physics, 2022, 276, 125409.	4.0	9
5	Bone fragility via degradation of bone quality featured by collagen/apatite micro-arrangement in human rheumatic arthritis. Bone, 2022, 155, 116261.	2.9	14
6	Octacalcium phosphate crystals including a higher density dislocation improve its materials osteogenecity. Applied Materials Today, 2022, 26, 101279.	4.3	13
7	Control of Anisotropic Crystallographic Texture in Powder Bed Fusion Additive Manufacturing of Metals and Ceramicsâ€”A Review. Jom, 2022, 74, 1760-1773.	1.9	32
8	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. Bone, 2022, 157, 116309.	2.9	4
9	Periodontal Tissue as a Biomaterial for Hard-Tissue Regeneration following bmp-2 Gene Transfer. Materials, 2022, 15, 993.	2.9	1
10	Ibandronate Suppresses Changes in Apatite Orientation and Young's Modulus Caused by Estrogen Deficiency in Rat Vertebrae. Calcified Tissue International, 2022, 110, 736-745.	3.1	1
11	Improvement of acid resistance of Zn-doped dentin by newly generated chemical bonds. Materials and Design, 2022, 215, 110412.	7.0	4
12	Structural Characterization of Ion Nitrided 316L Austenitic Stainless Steel: Influence of Treatment Temperature and Time. Metals, 2022, 12, 306.	2.3	4
13	Microstructure and mechanical properties of Tiâ€“Nbâ€“Feâ€“Zr alloys with high strength and low elastic modulus. Transactions of Nonferrous Metals Society of China, 2022, 32, 503-512.	4.2	11
14	Microstructure, mechanical properties, and cytotoxicity of low Youngâ€™s modulus Tiâ€“Nbâ€“Feâ€“Sn alloys. Journal of Materials Science, 2022, 57, 5634-5644.	3.7	6
15	Athermal Ï‰ Phase and Lattice Modulation in Binary Zr-Nb Alloys. Materials, 2022, 15, 2318.	2.9	1
16	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. Journal of Hard Tissue Biology, 2022, 31, 79-86.	0.4	1
17	Interface characteristics and mechanical behavior of additively manufactured multi-material of stainless steel and Inconel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 847, 143318.	5.6	11
18	Antibacterial Properties and Biocompatibility of Hydroxyapatite Coating Doped with Various Cu Contents on Titanium. Materials Transactions, 2022, 63, 1072-1079.	1.2	3

#	Article	IF	Citations
19	Additive Manufacturing: Materials, Processing, Characterization and Applications. Crystals, 2022, 12, 747.	2.2	1
20	Outstanding in vivo mechanical integrity of additively manufactured spinal cages with a novel â€œhoneycomb tree structureâ€•design via guiding bone matrix orientation. Spine Journal, 2022, , .	1.3	6
21	Effects of Recrystallization on Tensile Anisotropic Properties for IN738LC Fabricated by Laser Powder Bed Fusion. Crystals, 2022, 12, 842.	2.2	2
22	Equiaxed grain formation by intrinsic heterogeneous nucleation via rapid heating and cooling in additive manufacturing of aluminum-silicon hypoeutectic alloy. Journal of Alloys and Compounds, 2022, 919, 165812.	5.5	21
23	Raking process for Powder Bed Fusion of Ti-6Al-4V alloy Powder Analyzed by Discrete Element Method. Keikinzoku/Journal of Japan Institute of Light Metals, 2022, 72, 291-297.	0.4	1
24	Influence of input energy density on morphology of unique layered microstructure of <i>Î³</i>-TiAl alloys fabricated by electron beam powder bed fusion. Keikinzoku/Journal of Japan Institute of Light Metals, 2022, 72, 298-303.	0.4	0
25	A Novel Ex Vivo Bone Culture Model for Regulation of Collagen/Apatite Preferential Orientation by Mechanical Loading. International Journal of Molecular Sciences, 2022, 23, 7423.	4.1	2
26	Development of orthophosphosilicate glass/poly(lactic acid) composite anisotropic scaffolds for simultaneous reconstruction of bone quality and quantity. Journal of Biomedical Materials Research - Part A, 2021, 109, 788-803.	4.0	14
27	Micro/nanostructural Characteristic Changes in the Mandibles of Rats after Injection of Botulinum Neurotoxin. Journal of Hard Tissue Biology, 2021, 30, 183-192.	0.4	1
28	Melting and Solidification Behavior of 316L Steel Induced by Electron-Beam Irradiation for Additive Manufacturing. Journal of Smart Processing, 2021, 10, 208-213.	0.1	2
29	é›»åãƒ“ãƒ¼ãƒ ç²‰æœ«åºŠæº¶èžæ³•ã«ã‚ˆã‚‹ Ti-6Al-4V åˆé‡‘è£½ä¸‰æ¬¡å…ƒå¤šå”è³ªæ§‹é€ ä½“ã® å‰µè£½ã¨å¾®çµ„ç¹”å½¢æˆ. Jou	[illegible]	[illegible]
30	Impaired Alignment of Bone Matrix Microstructure Associated with Disorganized Osteoblast Arrangement in Malignant Melanoma Metastasis. Biomolecules, 2021, 11, 131.	4.0	6
31	Effect of Atmosphere Gas on Microstructure in Products of 316L Au stenitic Stainless Steel Fabricated by Laser Powder Bed Fusionï¼ˆLPBFï¼‰. Journal of Smart Processing, 2021, 10, 230-234.	0.1	1
32	Ti-6Al-4V ç©å±¤é€ å½¢ä½“è¡¨é¢ä¸Šã®ãƒŠãƒŽã‚¢ãƒ‘ã‚¿ã‚¤ãƒˆã‚³ãƒ¼ãƒ†ã‚£ãƒ³ã‚°ã«ã‚ˆã‚‹ ç”Ÿä½“æ´»æ€§èƒ½ã®æ”¹å–„. Journal of Smar	0.1	0
33	High Precision Manufacturing and Microstructure Control of Î²-containing Î³-TiAl Alloy through Electron Beam Melting. Journal of Smart Processing, 2021, 10, 240-245.	0.1	0
34	ãƒ¬ãƒ¼ã‚¶ç²‰æœ«åºŠæº¶èžçµå•æ³•ã«ã‚ˆã‚Šä½œè£½ã—ãŸ Ti-15Mo-5Zr-3Al åˆé‡‘è©¦æ–™ã«ãŠã‘ã‚‹ æ®‹ç•™å¿œåŠ›ã¨ã‚¹ãƒ£ãƒ³ã‚¹	0.1	0
35	ãƒ¬ãƒ¼ã‚¶ç²‰æœ«åºŠæº¶èžçµå•æ³•ã«ã‚ˆã‚‹åˆ°é›»æ€§æææ–™ã®ç©å±¤é€ å½¢æ¬ ã®éŠ…åˆé‡‘ã®é€ å½¢. Journal of Smart Processing, 2021, 10, 26	0.1	1
36	é‡‘å±ž 3D ãƒ—ãƒªãƒ³ãƒ†ã‚£ãƒ³ã‚°ã«ã‚ˆã‚‹è¡¨é¢æ§‹é€ åˆ¶å¾¡ã¨ãã‚Œã«åŸºã¥ãå¹¹ç´°èƒžåˆ¶å¾¡. Journal of Smart Processing, 2021, 10, 26	0.1	1

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37	Improvement of Mechanical Properties by Microstructural Evolution of Biomedical Coâ€“Crâ€“Wâ€“Ni Alloys with the Addition of Mn and Si. Materials Transactions, 2021, 62, 229-238.	1.2	7
38	Modified Cellular Automaton Simulation of Metal Additive Manufacturing. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2021, 85, 103-109.	0.4	0
39	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.	5.2	95
40	Structures and Dissolution Behaviors of Quaternary CaO-SrO-P2O5-TiO2 Glasses. Materials, 2021, 14, 1736.	2.9	6
41	Design and development of Tiâ€“Zrâ€“Hfâ€“Nbâ€“Taâ€“Mo high-entropy alloys for metallic biomaterials. Materials and Design, 2021, 202, 109548.	7.0	67
42	Surprising increase in yield stress of Mg single crystal using long-period stacking ordered nanoplates. Acta Materialia, 2021, 209, 116797.	7.9	61
43	Influence of Sintering Temperature on Mechanical Properties of Ti-Nb-Zr-Fe Alloys Prepared by Spark Plasma Sintering. Journal of Materials Engineering and Performance, 2021, 30, 5719-5727.	2.5	2
44	Quantitative Evaluation of Osteocyte Morphology and Bone Anisotropic Extracellular Matrix in Rat Femur. Calcified Tissue International, 2021, 109, 434-444.	3.1	25
45	Superior Alignment of Human iPSC-Osteoblasts Associated with Focal Adhesion Formation Stimulated by Oriented Collagen Scaffold. International Journal of Molecular Sciences, 2021, 22, 6232.	4.1	3
46	Unique crystallographic texture formation in Inconel 718 by laser powder bed fusion and its effect on mechanical anisotropy. Acta Materialia, 2021, 212, 116876.	7.9	174
47	Low magnetic field promotes recombinant human BMP-2-induced bone formation and influences orientation of trabeculae and bone marrow-derived stromal cells. Bone Reports, 2021, 14, 100757.	0.4	5
48	Modified Cellular Automaton Simulation of Metal Additive Manufacturing. Materials Transactions, 2021, 62, 864-870.	1.2	6
49	Effect of Precursor Deficiency Induced Ca/P Ratio on Antibacterial and Osteoblast Adhesion Properties of Ag-Incorporated Hydroxyapatite: Reducing Ag Toxicity. Materials, 2021, 14, 3158.	2.9	8
50	Inverse Columnar-Equiaxed Transition (CET) in 304 and 316L Stainless Steels Melt by Electron Beam for Additive Manufacturing (AM). Crystals, 2021, 11, 856.	2.2	20
51	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. Crystals, 2021, 11, 796.	2.2	13
52	Antibacterial Cu-Doped Calcium Phosphate Coating on Pure Titanium. Materials Transactions, 2021, 62, 1052-1055.	1.2	4
53	Improving the Tensile Properties of Additively Manufactured Î²-Containing TiAl Alloys via Microstructure Control Focusing on Cellular Precipitation Reaction. Crystals, 2021, 11, 809.	2.2	8
54	Development of Low-Yield Stress Coâ€“Crâ€“Wâ€“Ni Alloy by Adding 6 Mass Pct Mn for Balloon-Expandable Stents. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 4137-4145.	2.2	4

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55	Stability of crystallographic texture in laser powder bed fusion: Understanding the competition of crystal growth using a single crystalline seed. Additive Manufacturing, 2021, 43, 102004.	3.0	27
56	Reduction of Spatter Generation Using Atmospheric Gas in Laser Powder Bed Fusion of Tiâ€“6Alâ€“4V. Materials Transactions, 2021, 62, 1225-1230.	1.2	10
57	Orientation dependence of the wear resistance in the Coâ€“Crâ€“Mo single crystal. Wear, 2021, 478-479, 203758.	3.1	5
58	3D Puzzle in Cube Pattern for Anisotropic/Isotropic Mechanical Control of Structure Fabricated by Metal Additive Manufacturing. Crystals, 2021, 11, 959.	2.2	17
59	Lattice distortion in selective laser melting (SLM)-manufactured unstable Î²-type Ti-15Mo-5Zr-3Al alloy analyzed by high-precision X-ray diffractometry. Scripta Materialia, 2021, 201, 113953.	5.2	39
60	Crystallographic texture- and grain boundary density-independent improvement of corrosion resistance in austenitic 316L stainless steel fabricated via laser powder bed fusion. Additive Manufacturing, 2021, 45, 102066.	3.0	17
61	Control of Crystallographic Texture and Mechanical Properties of Hastelloy-X via Laser Powder Bed Fusion. Crystals, 2021, 11, 1064.	2.2	22
62	Comparison of microstructure, crystallographic texture, and mechanical properties in Tiâ€“15Moâ€“5Zrâ€“3Al alloys fabricated via electron and laser beam powder bed fusion technologies. Additive Manufacturing, 2021, 47, 102329.	3.0	20
63	Structural characteristics of the bone surrounding dental implants placed into the tail-suspended mice. International Journal of Implant Dentistry, 2021, 7, 89.	2.7	3
64	In-air micro-proton-induced X-ray/gamma-ray emission analysis of the acid resistance of root dentin after applying fluoride-containing materials incorporating calcium. Dental Materials Journal, 2021, 40, 1142-1150.	1.8	3
65	Quantitative estimation of kink-band strengthening in an Mgâ€“Znâ€“Y single crystal with LPSO nanoplates. Materials Research Letters, 2021, 9, 467-474.	8.7	23
66	Fabrication of Ti-Alloy Powder/Solid Composite with Uniaxial Anisotropy by Introducing Unidirectional Honeycomb Structure via Electron Beam Powder Bed Fusion. Crystals, 2021, 11, 1074.	2.2	11
67	Factor which governs the feature of texture developed during additive manufacturing; clarified from the study on hexagonal C40-NbSi2. Scripta Materialia, 2021, 203, 114111.	5.2	15
68	Peculiar microstructural evolution and tensile properties of Î²-containing Î³-TiAl alloys fabricated by electron beam melting. Additive Manufacturing, 2021, 46, 102091.	3.0	21
69	Surface residual stress and phase stability in unstable Î²-type Tiâ€“15Moâ€“5Zrâ€“3Al alloy manufactured by laser and electron beam powder bed fusion technologies. Additive Manufacturing, 2021, 47, 102257.	3.0	17
70	Effect of Scan Length on Densification and Crystallographic Texture Formation of Pure Chromium Fabricated by Laser Powder Bed Fusion. Crystals, 2021, 11, 9.	2.2	18
71	Promoting Effect of Basic Fibroblast Growth Factor in Synovial Mesenchymal Stem Cell-Based Cartilage Regeneration. International Journal of Molecular Sciences, 2021, 22, 300.	4.1	8
72	Control of osteoblast arrangement by osteocyte mechanoresponse through prostaglandin E2 signaling under oscillatory fluid flow stimuli. Biomaterials, 2021, 279, 121203.	11.4	20

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73	Influence of powder characteristics on densification via crystallographic texture formation: Pure tungsten prepared by laser powder bed fusion. Additive Manufacturing Letters, 2021, 1, 100016.	2.1	14
74	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. Additive Manufacturing, 2021, 48, 102444.	3.0	22
75	Progresses of Additive Manufacturing and Elementary Knowledge of Laser Beam Powder Bed Fusion. Journal of Smart Processing, 2021, 10, 131-136.	0.1	1
76	The combined effects of teriparatide and anti-RANKL monoclonal antibody on bone defect regeneration in ovariectomized mice. Bone, 2020, 130, 115077.	2.9	6
77	Design and fabrication of Tiâ€“Zr-Hf-Cr-Mo and Tiâ€“Zr-Hf-Co-Cr-Mo high-entropy alloys as metallic biomaterials. Materials Science and Engineering C, 2020, 107, 110322.	7.3	105
78	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.	5.4	9
79	Selective patterning of netrin-1 as a novel guiding cue for anisotropic dendrogenesis in osteocytes. Materials Science and Engineering C, 2020, 108, 110391.	7.3	13
80	Assessment of the functional efficacy of root canal treatment with high-frequency waves in rats. PLoS ONE, 2020, 15, e0239660.	2.5	3
81	Micro-Architectural Investigation of Teleost Fish Rib Inducing Pliant Mechanical Property. Materials, 2020, 13, 5099.	2.9	5
82	Crystallographic orientation control of pure chromium via laser powder bed fusion and improved high temperature oxidation resistance. Additive Manufacturing, 2020, 36, 101624.	3.0	36
83	ExÂVivo Gene Therapy Treats Bone Complications of Mucopolysaccharidosis Type II Mouse Models through Bone Remodeling Reactivation. Molecular Therapy - Methods and Clinical Development, 2020, 19, 261-274.	4.1	17
84	Using HAADF-STEM for atomic-scale evaluation of incorporation of antibacterial Ag atoms in a Î²-tricalcium phosphate structure. Nanoscale, 2020, 12, 16596-16604.	5.6	7
85	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. PLoS ONE, 2020, 15, e0237678.	2.5	10
86	A Novel Role of Interleukin-6 as a Regulatory Factor of Inflammation-Associated Deterioration in Osteoblast Arrangement. International Journal of Molecular Sciences, 2020, 21, 6659.	4.1	9
87	Microstructure, Mechanical Properties, and Springback of Ti-Nb Alloys Modified by Mo Addition. Journal of Materials Engineering and Performance, 2020, 29, 5366-5373.	2.5	1
88	Control of crystallographic orientation by metal additive manufacturing process of Î²-type Ti alloys based on the bone tissue anisotropy. MATEC Web of Conferences, 2020, 321, 05002.	0.2	1
89	Low Youngâ€™s Modulus and High Strength Obtained in Ti-Nb-Zr-Cr Alloys by Optimizing Zr Content. Journal of Materials Engineering and Performance, 2020, 29, 2871-2878.	2.5	6
90	Bone apatite anisotropic structure control via designing fibrous scaffolds. RSC Advances, 2020, 10, 13500-13506.	3.6	16

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91	Osteocalcin is necessary for the alignment of apatite crystallites, but not glucose metabolism, testosterone synthesis, or muscle mass. PLoS Genetics, 2020, 16, e1008586.	3.5	119
92	Development of Tiâ€“Zrâ€“Hfâ€“Yâ€“La high-entropy alloys with dual hexagonal-close-packed structure. Scripta Materialia, 2020, 186, 242-246.	5.2	28
93	Microâ€•and nanoâ€bone analyses of the human mandible coronoid process and tendonâ€bone entheses. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2020, 108, 2799-2806.	3.4	3
94	Crystallographic Orientation Control of 316L Austenitic Stainless Steel via Selective Laser Melting. ISIJ International, 2020, 60, 1758-1764.	1.4	69
95	Liquid Phase Separation in Ag-Co-Cr-Fe-Mn-Ni, Co Cr-Cu-Fe-Mn-Ni and Co-Cr-Cu-Fe-Mn-Ni-B High Entropy Alloys for Biomedical Application. Crystals, 2020, 10, 527.	2.2	14
96	Combined effect of teriparatide and an anti-RANKL monoclonal antibody on bone defect regeneration in mice with glucocorticoid-induced osteoporosis. Bone, 2020, 139, 115525.	2.9	11
97	Development of Coâ€“Crâ€“Moâ€“Feâ€“Mnâ€“W and Coâ€“Crâ€“Moâ€“Feâ€“Mnâ€“Wâ€“Ag High-Entropy Alloys Based on Coâ€“Crâ€“Mo Alloys. Materials Transactions, 2020, 61, 567-576.	1.2	13
98	Titanium as an Instant Adhesive for Biological Soft Tissue. Advanced Materials Interfaces, 2020, 7, 1902089.	3.7	9
99	Loading Orientation Dependence of the Formation Behavior of Deformation Kink Bands in the Mg-Based Long-Period Stacking Ordered (LPSO) Phase. Materials Transactions, 2020, 61, 821-827.	1.2	8
100	Type I Angiotensin II Receptor Blockade Reduces Uremia-Induced Deterioration of Bone Material Properties. Journal of Bone and Mineral Research, 2020, 36, 67-79.	2.8	11
101	Hypermineralization of Hearing-Related Bones by a Specific Osteoblast Subtype. Journal of Bone and Mineral Research, 2020, 36, 1535-1547.	2.8	9
102	Overexpression of Fam20C in osteoblast in vivo leads to increased cortical bone formation and osteoclastic bone resorption. Bone, 2020, 138, 115414.	2.9	6
103	3D Printing of Anisotropic Bone-Mimetic Structure with Controlled Fluid Flow Stimuli for Osteocytes: Flow Orientation Determines the Elongation of Dendrites. International Journal of Bioprinting, 2020, 6, 293.	3.4	13
104	Analysis of Bone Regeneration Based on the Relationship between the Orientations of Collagen and Apatite in Mouse Femur. Materials Transactions, 2020, 61, 381-386.	1.2	4
105	Effects of unloading by tail suspension on biological apatite crystallite alignment in mouse femur. Dental Materials Journal, 2020, 39, 670-677.	1.8	6
106	Improvement of High Temperature Fatigue Properties of TiAl Alloys Fabricated by Electron Beam Melting Through Hot Isostatic Pressing Process. Journal of Smart Processing, 2020, 9, 180-184.	0.1	2
107	Microstructure and Mechanical Behavior of Tiâ€“25Nbâ€“25Zr Alloy Prepared from Pre-Alloyed and Hydride-Mixed Elemental Powders. Materials Transactions, 2020, 61, 562-566.	1.2	2
108	3D Printing of Biomaterials for Control of Cellular Behaviors. Journal of Smart Processing, 2020, 9, 164-168.	0.1	0

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109	Development and Perspectives of High Entropy alloys composed by light metal elements and that for metallic biomaterials with BCC. Keikinzoku/Journal of Japan Institute of Light Metals, 2020, 70, 14-23.	0.4	1
110	Bone Functionalization Based on the Cellular Mechanisms Controlling the Ordered Arrangement of Cells and Bone Matrix Microstructure. Materia Japan, 2020, 59, 594-599.	0.1	0
111	Title is missing!. , 2020, 16, e1008586.		0
112	Title is missing!. , 2020, 16, e1008586.		0
113	Title is missing!. , 2020, 16, e1008586.		0
114	Title is missing!. , 2020, 16, e1008586.		0
115	Title is missing!. , 2020, 16, e1008586.		0
116	Title is missing!. , 2020, 16, e1008586.		0
117	Title is missing!. , 2020, 15, e0237678.		0
118	Title is missing!. , 2020, 15, e0237678.		0
119	Title is missing!. , 2020, 15, e0237678.		0
120	Title is missing!. , 2020, 15, e0237678.		0
121	Assessment of the functional efficacy of root canal treatment with high-frequency waves in rats. , 2020, 15, e0239660.		0
122	Assessment of the functional efficacy of root canal treatment with high-frequency waves in rats. , 2020, 15, e0239660.		0
123	Assessment of the functional efficacy of root canal treatment with high-frequency waves in rats. , 2020, 15, e0239660.		0
124	Assessment of the functional efficacy of root canal treatment with high-frequency waves in rats. , 2020, 15, e0239660.		0
125	Assessment of the functional efficacy of root canal treatment with high-frequency waves in rats. , 2020, 15, e0239660.		0
126	Assessment of the functional efficacy of root canal treatment with high-frequency waves in rats. , 2020, 15, e0239660.		0

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127	Radiation-resistant properties of cross-linking PTFE for medical use. Polymer Bulletin, 2019, 76, 6111-6122.	3.3	5
128	Effect of Nb Content on Microstructures and Mechanical Properties of Ti-xNb-2Fe Alloys. Journal of Materials Engineering and Performance, 2019, 28, 5501-5508.	2.5	15
129	Strengthening of Mg-based long-period stacking ordered (LPSO) phase with deformation kink bands. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 763, 138163.	5.6	69
130	Preparation of Titanium Alloy/Bioactive Glass Composite for Biomedical Applications via Selective Laser Melting. Materials Transactions, 2019, 60, 1779-1784.	1.2	6
131	Enhancement of plastic anisotropy and drastic increase in yield stress of Mg-Li single crystals by Al-addition followed by quenching. Scripta Materialia, 2019, 172, 93-97.	5.2	14
132	Development of non-equiatomic Ti-Nb-Ta-Zr-Mo high-entropy alloys for metallic biomaterials. Scripta Materialia, 2019, 172, 83-87.	5.2	124
133	Crystallographic Texture Formation of Pure Tantalum by Selective Laser Melting Method. Journal of Smart Processing, 2019, 8, 151-154.	0.1	5
134	Overcoming the strength-ductility trade-off by the combination of static recrystallization and low-temperature heat-treatment in Co-Cr-W-Ni alloy for stent application. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 766, 138400.	5.6	21
135	Development of bifunctional oriented bioactive glass/poly(lactic acid) composite scaffolds to control osteoblast alignment and proliferation. Journal of Biomedical Materials Research - Part A, 2019, 107, 1031-1041.	4.0	20
136	Biomimetic mineralization using matrix vesicle nanofragments. Journal of Biomedical Materials Research - Part A, 2019, 107, 1021-1030.	4.0	24
137	Physical and mechanical properties of metallic biomaterials. , 2019, , 97-129.		1
138	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. Bone, 2019, 127, 82-90.	2.9	16
139	Effect of Oxygen Concentration on the Generation of Spatter during Fabrication via Selective Laser Melting. Journal of Smart Processing, 2019, 8, 102-105.	0.1	4
140	Solidification Microstructures of the Ingots Obtained by Arc Melting and Cold Crucible Levitation Melting in TiNbTaZr Medium-Entropy Alloy and TiNbTaZrX (X = V, Mo, W) High-Entropy Alloys. Entropy, 2019, 21, 483.	2.2	57
141	Unique arrangement of bone matrix orthogonal to osteoblast alignment controlled by Tspan11-mediated focal adhesion assembly. Biomaterials, 2019, 209, 103-110.	11.4	39
142	Oriented siloxane-containing vaterite/poly(lactic acid) composite scaffolds for controlling osteoblast alignment and proliferation. Journal of Asian Ceramic Societies, 2019, 7, 228-237.	2.3	4
143	Development of low-Youngâ€™s modulus Tiâ€“Nb-based alloys with Cr addition. Journal of Materials Science, 2019, 54, 8675-8683.	3.7	22
144	Additive manufacturing of dense components in betaâ€˜titanium alloys with crystallographic texture from a mixture of pure metallic element powders. Materials and Design, 2019, 173, 107771.	7.0	93

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145	UVA-activated riboflavin promotes collagen crosslinking to prevent root caries. Scientific Reports, 2019, 9, 1252.	3.3	21
146	Low Springback and Low Youngâ€™s Modulus in Tiâ€“29Nbâ€“13Taâ€“4.6Zr Alloy Modified by Mo Addition. Materials Transactions, 2019, 60, 1755-1762.	1.2	5
147	Effects of Fe on Microstructures and Mechanical Properties of Tiâ€“15Nbâ€“25Zrâ€“(0, 2, 4, 8)Fe Alloys Prepared by Spark Plasma Sintering. Materials Transactions, 2019, 60, 1763-1768.	1.2	5
148	Solidification Microstructure of High Entropy Alloys Composed With 4 Group (Ti, Zr, Hf), 5 Group (V,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.1	6
149	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.	5.2	267
150	Effects of Autogenous Bone Graft on Mass and Quality of Trabecular Bone in Tiâ€“6Alâ€“4V Spinal Cage Fabricated with Electron Beam Melting. Materials Transactions, 2019, 60, 144-148.	1.2	2
151	Osteoporosis Changes Collagen/Apatite Orientation and Youngâ€™s Modulus in Vertebral Cortical Bone of Rat. Calcified Tissue International, 2019, 104, 449-460.	3.1	41
152	Beta titanium single crystal with bone-like elastic modulus and large crystallographic elastic anisotropy. Journal of Alloys and Compounds, 2019, 782, 667-671.	5.5	26
153	Synchronous improvement in strength and ductility of biomedical Coâ€“Crâ€“Mo alloys by unique low-temperature heat treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 739, 53-61.	5.6	16
154	Strengthening mechanisms acting in extruded Mg-based long-period stacking ordered (LPSO)-phase alloys. Acta Materialia, 2019, 163, 226-239.	7.9	200
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