Takao Hanawa

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7989088/publications.pdf

Version: 2024-02-01

315 papers	8,691 citations	50276 46 h-index	64796 79 g-index
325 all docs	325 docs citations	325 times ranked	6843 citing authors

#	Article	IF	Citations
1	Comparison of microstructures and mechanical properties of 3 cobalt-chromium alloys fabricated with soft metal milling technology. Journal of Prosthetic Dentistry, 2022, 127, 489-496.	2.8	5
2	Surface properties and biocompatibility of sandblasted and acid-etched titaniumâ€“zirconium binary alloys with various compositions. Dental Materials Journal, 2022, 41, 266-272.	1.8	6
3	Impaired dental implant osseointegration in rat with streptozotocinâ€induced diabetes. Journal of Periodontal Research, 2022, 57, 412-424.	2.7	15
4	Evaluation of cytocompatibility and osteoconductivity of Zr-14Nb-5Ta-1Mo alloy with MC3T3-E1 cells. Dental Materials Journal, 2022, 41, 421-428.	1.8	1
5	Band structures of passive films on titanium in simulated bioliquids determined by photoelectrochemical response: principle governing the biocompatibility. Science and Technology of Advanced Materials, 2022, 23, 322-331.	6.1	4
6	Developing Microstructure and Enhancing Strength of Tiâ€“6Alâ€“7Nb Alloy with Heat Treatment Processed by High-Pressure Torsion. Materials Transactions, 2022, 63, 948-956.	1.2	2
7	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
8	Initial formation kinetics of calcium phosphate on titanium in Hanks' solution characterized using XPS. Surface and Interface Analysis, 2021, 53, 185-193.	1.8	13
9	Reduction in anisotropic response of corrosion properties of selective laser melted Coâ€“Crâ€“Mo alloys by post-heat treatment. Dental Materials, 2021, 37, e98-e108.	3.5	20
10	Influence of annealing treatment on the microstructure, mechanical performance and magnetic susceptibility of low magnetic Zrâ€“1Mo parts manufactured via laser additive manufacturing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 804, 140740.	5.6	9
11	Metals and Medicine. Materials Transactions, 2021, 62, 139-148.	1.2	9
12	Combination of hot isostatic pressing and subsequent heat treatment for additively manufactured Zr-1Mo components. Materials Letters, 2021, 285, 129123.	2.6	3
13	Time Transient of Calcium and Phosphate Ion Adsorption by Rutile Crystal Facets in Hanksâ€™ Solution Characterized by XPS. Langmuir, 2021, 37, 3597-3604.	3.5	11
14	Enhancement of antibacterial property of titanium by two-step micro arc oxidation treatment. Dental Materials Journal, 2021, 40, 592-598.	1.8	16
15	Effect of Post-Heat Treatment Cooling Conditions on Microstructures and Fatigue Properties of Cobalt Chromium Molybdenum Alloy Fabricated through Selective Laser Melting. Metals, 2021, 11, 1005.	2.3	2
16	Development of Electrochemical Surface Treatment for Improvement of Localized Corrosion Resistance of Zirconium in Chloride Environment. Materials Transactions, 2021, 62, 788-796.	1.2	2
17	Bioinspired low-magnetic Zr alloy with high strength and ductility. Scripta Materialia, 2021, 199, 113856.	5.2	2
18	Investigation of the Long-Term Antibacterial Properties of Titanium by Two-Step Micro-Arc Oxidation Treatment. Coatings, 2021, 11, 798.	2.6	11

#	Article	IF	Citations
19	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
20	Biocompatibility of Niâ€“Cr alloys, with the same composition, prepared by two new digital manufacturing techniques. Materials Letters, 2021, 305, 130761.	2.6	12
21	Reduction in nickel content of the surface oxide layer on Ni-Ti alloy by electrolytic treatment. Journal of Oral Science, 2021, 63, 50-53.	1.7	2
22	Mechanical Property Comparison of Niâ€“Crâ€“Mo Alloys Fabricated via One Conventional and Two New Digital Manufacturing Techniques. Applied Sciences (Switzerland), 2021, 11, 9308.	2.5	2
23	Corrosion Behavior and Bacterial Viability on Different Surface States of Copper. Zairyo To Kankyo/ Corrosion Engineering, 2021, 70, 265-270.	0.2	0
24	Development of Novel Implant Material Surface with Controllable Antibacterial Properties. Denki Kagaku, 2021, 89, 346-352.	0.0	0
25	Development of Electrochemical Surface Treatment to Visualize Critical Corrosion-Inducing Inclusions of Zr in Chloride Environments. Journal of the Electrochemical Society, 2021, 168, 121505.	2.9	1
26	Zirconia <i>versus</i> titanium in dentistry: A review. Dental Materials Journal, 2020, 39, 24-36.	1.8	94
27	Effect of heat treatment on the anisotropic microstructural and mechanical properties of Coâ€“Crâ€“Mo alloys produced by selective laser melting. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 102, 103496.	3.1	56
28	Influence of magnetic susceptibility and volume on MRI artifacts produced by low magnetic susceptibility Zr-14Nb alloy and dental alloys. Dental Materials Journal, 2020, 39, 256-261.	1.8	7
29	Effects of quenching process on microstructure, mechanical properties and magnetic susceptibility in Zr 1Mo alloy fabricated by powder bed fusion process. Materials and Design, 2020, 187, 108356.	7.0	10
30	Effects of Micro-Arc Oxidation Process Parameters on Characteristics of Calcium-Phosphate Containing Oxide Layers on the Selective Laser Melted Ti13Zr13Nb Alloy. Coatings, 2020, 10, 745.	2.6	27
31	Effects of process parameters on the mechanical properties of additively manufactured Zrâ€“1Mo alloy builds. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 104, 103655.	3.1	15
32	Time-Transient Effects of Silver and Copper in the Porous Titanium Dioxide Layer on Antibacterial Properties. Journal of Functional Biomaterials, 2020, 11, 44.	4.4	18
33	Investigation of antibacterial effect of copper introduced titanium surface by electrochemical treatment against facultative anaerobic bacteria. Dental Materials Journal, 2020, 39, 639-647.	1.8	17
34	Zirconium-based metallic glass and zirconia coatings to inhibit bone formation on titanium. Biomedical Materials (Bristol), 2020, 15, 065019.	3.3	20
35	Hot isostatic pressing of MRI compatible Zr-1Mo components manufactured by laser powder bed fusion. Materials Characterization, 2020, 169, 110657.	4.4	8
36	Fatigue Property and Cytocompatibility of a Biomedical Coâ€“Crâ€“Mo Alloy Subjected to a High Pressure Torsion and a Subsequent Short Time Annealing. Materials Transactions, 2020, 61, 361-367.	1.2	7

#	Article	IF	Citations
37	Corrosion Behavior and Bacterial Viability on Different Surface States of Copper. Materials Transactions, 2020, 61, 1143-1148.	1.2	8
38	Development of Electrochemical Surface Treatment for Improvement of Localized Corrosion Resistance of Zirconium in Chloride Environment. Zairyo To Kankyo/ Corrosion Engineering, 2020, 69, 307-314.	0.2	1
39	Medicine and Metals. Materia Japan, 2020, 59, 252-259.	0.1	1
40	Changes in surface properties of dental alloys with atmospheric plasma irradiation. Dental Materials Journal, 2020, 39, 375-380.	1.8	0
41	Mechanism of Electrodeposition Process of Poly(Ethylene Glycol) Diamine to Titanium Surface. Materials Transactions, 2020, 61, 1346-1354.	1.2	1
42	Design of Zirconium Quaternary System Alloys and Their Properties. Materials Transactions, 2020, 61, 776-781.	1.2	2
43	Effect of Impurity Elements on Localized Corrosion of Zirconium in Chloride Containing Environment. Journal of the Electrochemical Society, 2020, 167, 141507.	2.9	5
44	Investigation of different electrochemical cleaning methods on contaminated healing abutments in vitro: an approach for metal surface decontamination. International Journal of Implant Dentistry, 2020, 6, 64.	2.7	5
45	Titaniumâ€“Tissue Interface Reaction and Its Control With Surface Treatment. Frontiers in Bioengineering and Biotechnology, 2019, 7, 170.	4.1	191
46	The relative effects of Ca and Mg ions on MSC osteogenesis in the surface modification of microrough Ti implants . International Journal of Nanomedicine, 2019, Volume 14, 5697-5711.	6.7	38
47	Three-dimensional quantification of magnetic resonance imaging artifacts associated with shape factors. Dental Materials Journal, 2019, 38, 638-645.	1.8	4
48	Current and Future Hard Materials for Biomedical Field. , 2019, , 371-383.		0
49	Chemical and Biological Roles of Zinc in a Porous Titanium Dioxide Layer Formed by Micro-Arc Oxidation. Coatings, 2019, 9, 705.	2.6	21
50	The change of surface charge by lithium ion coating enhances protein adsorption on titanium. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 100, 103393.	3.1	11
51	Fatigue properties of removable partial denture clasps fabricated by selective laser melting followed by heat treatment. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 98, 79-89.	3.1	20
52	Surface characterization of commercially available yttria-stabilized tetragonal zirconia polycrystalline in water and Hanksâ€™ solution using X-ray photoelectron spectroscopy. Dental Materials Journal, 2019, 38, 496-504.	1.8	4
53	Effect of Post-Sintering Conditions on the Mechanical Properties of a New Coâ€“Cr Alloy Produced by New Subtractive Manufacturing. Journal of Nanoscience and Nanotechnology, 2019, 19, 2395-2398.	0.9	4
54	Investigation of Realizing Both Antibacterial Property and Osteogenic Cell Compatibility on Titanium Surface by Simple Electrochemical Treatment. ACS Biomaterials Science and Engineering, 2019, 5, 5623-5630.	5.2	38

#	Article	IF	Citations
55	Effect of heat treatment on the microstructure and fatigue strength of CoCrMo alloys fabricated by selective laser melting. Materials Letters, 2019, 245, 53-56.	2.6	38
56	Guest editorialâ€"40th anniversary of Japanese Society for Biomaterials. Journal of Biomedical Materials Research - Part A, 2019, 107, 916-916.	4.0	1
57	The Effects of Various Metallic Surfaces on Cellular and Bacterial Adhesion. Metals, 2019, 9, 1145.	2.3	22
58	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
59	Enhanced biocompatibility of a Niâ€"Cr alloy prepared by selective laser melting: a preliminary in vitro study. Journal of Materials Research and Technology, 2019, 8, 1587-1592.	5.8	12
60	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
61	Production of Superplastic Tiâ€"6Alâ€"7Nb Alloy Using High-Pressure Sliding Process. Materials Transactions, 2019, 60, 1785-1791.	1.2	7
62	In Vivo Periodontium Formation Around Titanium Implants Using Periodontal Ligament Cell Sheet. Tissue Engineering - Part A, 2018, 24, 1273-1282.	3.1	37
63	Effect of heat-treatment temperature on microstructures and mechanical properties of Coâ€"Crâ€"Mo alloys fabricated by selective laser melting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 726, 21-31.	5.6	126
64	Evaluation of selected mechanical properties of NiTi rotary glide path files manufactured from controlled memory wires. Dental Materials Journal, 2018, 37, 549-554.	1.8	16
65	Surface changes of yttriaâ€stabilized zirconia in water and Hanks solution characterized using XPS. Surface and Interface Analysis, 2018, 50, 587-591.	1.8	8
66	Evaluation of corrosion resistance of implantâ€use Tiâ€Zr binary alloys with a range of compositions. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 73-79.	3.4	48
67	Inverse response of osteoblasts and fibroblasts to growth on carbonâ€deposited titanium surfaces. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 1869-1877.	3.4	6
68	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. Bone, 2018, 108, 25-33.	2.9	24
69	Effect of adding support structures for overhanging part on fatigue strength in selective laser melting. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 78, 1-9.	3.1	41
70	Surface Treatment of Biomaterials. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2018, 69, 318-322.	0.2	1
71	Production of superplastic Tiâ€"6Alâ€"7Nb alloy using high-pressure sliding process. Keikinzoku/Journal of Japan Institute of Light Metals, 2018, 68, 9-15.	0.4	1
72	Heterogeneous microstructures and corrosion resistance of biomedical Co-Cr-Mo alloy fabricated by electron beam melting (EBM). Additive Manufacturing, 2018, 24, 103-114.	3.0	32

#	Article	IF	Citations
73	Effect of incorporation of surface pre-reacted glass ionomer filler in tissue conditioner on the inhibition of Candida albicans adhesion. Dental Materials Journal, 2018, 37, 453-459.	1.8	9
74	Adhesion and differentiation behaviors of mesenchymal stem cells on titanium with micrometer and nanometerâ€scale grid patterns produced by femtosecond laser irradiation. Journal of Biomedical Materials Research - Part A, 2018, 106, 2735-2743.	4.0	41
75	Effects of Surface Nanotopography and Calcium Chemistry of Titanium Bone Implants on Early Blood Platelet and Macrophage Cell Function. BioMed Research International, 2018, 2018, 1-10.	1.9	24
76	Effects of Cold Swaging on Mechanical Properties and Magnetic Susceptibility of the Zrâ€“1Mo Alloy. Metals, 2018, 8, 454.	2.3	11
77	Electrodeposition of Calcium Phosphates, Oxides, and Molecules to Achieve Biocompatibility of Metals. , 2018, , 129-140.		0
78	Materials properties of ion beam sputtered Ti-Cu-Pd-Zr thin film metallic glasses. Journal of Non-Crystalline Solids, 2017, 461, 104-112.	3.1	11
79	Response of preosteoblasts to titanium with periodic micro/nanometer scale grooves produced by femtosecond laser irradiation. Journal of Biomedical Materials Research - Part A, 2017, 105, 3456-3464.	4.0	15
80	Deposition of boron doped DLC films on TiNb and characterization of their mechanical properties and blood compatibility. Science and Technology of Advanced Materials, 2017, 18, 76-87.	6.1	19
81	Focus on endeavor for creation of materialsâ€“tissues intelligent interface. Science and Technology of Advanced Materials, 2017, 18, 549-549.	6.1	2
82	Magnetic susceptibility, artifact volume in MRI, and tensile properties of swaged Zrâ€“Ag composites for biomedical applications. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 66, 152-158.	3.1	14
83	Micron/Submicron Hybrid Topography of Titanium Surfaces Influences Adhesion and Differentiation Behaviors of the Mesenchymal Stem Cells. Journal of Biomedical Nanotechnology, 2017, 13, 324-336.	1.1	21
84	Fabrication and Characterization of a Low Magnetic Zr-1Mo Alloy by Powder Bed Fusion Using a Fiber Laser. Metals, 2017, 7, 501.	2.3	18
85	Inhibitory Effect of Zirconium Coating to Bone Bonding of Titanium Implants in Rat Femur. Materials Transactions, 2017, 58, 113-117.	1.2	8
86	Surface treatment and modification of metals to add biofunction. Dental Materials Journal, 2017, 36, 533-538.	1.8	15
87	Transition and Prospect of Biomedical and Healthcare Materials from the Viewpoint of Surface Function. Materia Japan, 2017, 56, 211-214.	0.1	2
88	Metalâ€“Polymer Composite Biomaterials. , 2017, , 877-899.		1
89	Surface State of Metals in Biological Environment and its Control. Zairyo To Kankyo/ Corrosion Engineering, 2017, 66, 381-387.	0.2	1
90	Special Issue on Advances in Biomedical Materials Science and Technology. Materials Transactions, 2016, 57, 1985-1985.	1.2	0

#	Article	IF	Citations
91	Effect of Heat Treatment and the Fabrication Process on Mechanical Properties of Zr-14Nb Alloy. Materials Transactions, 2016, 57, 2060-2064.	1.2	6
92	Electrochemical Surface Treatment of a Î²-titanium Alloy to Realize an Antibacterial Property and Bioactivity. Metals, 2016, 6, 76.	2.3	19
93	Surface Composition and Corrosion Resistance of Co-Cr Alloys Containing High Chromium. Materials Transactions, 2016, 57, 2033-2040.	1.2	19
94	Micro Arc Oxidation of Ti-15Zr-7.5Mo Alloy. Materials Transactions, 2016, 57, 2015-2019.	1.2	12
95	Phospholipid polymer electrodeposited on titanium inhibits platelet adhesion. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2016, 104, 554-560.	3.4	8
96	Differences in the calcification of preosteoblast cultured on sputterâ€deposited titanium, zirconium, and gold. Journal of Biomedical Materials Research - Part A, 2016, 104, 639-651.	4.0	13
97	Titanium-Zirconium Binary Alloy as Dental Implant Material: Analysis of the Influence of Compositional Change on Mechanical Properties and In Vitro Biologic Response. International Journal of Oral and Maxillofacial Implants, 2016, 31, 547-554.	1.4	28
98	Effect of Ta content on the magnetic susceptibility of Zrâ€“Ta binary alloys preventing artefacts for MRI. Advances in Materials and Processing Technologies, 2016, 2, 606-614.	1.4	5
99	Effect of strontium ions on calcification of preosteoblasts cultured on porous calcium- and phosphate-containing titanium oxide layers formed by micro-arc oxidation. Dental Materials Journal, 2016, 35, 627-634.	1.8	15
100	Fatigue strength of Coâ€“Crâ€“Mo alloy clasps prepared by selective laser melting. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 59, 446-458.	3.1	124
101	Evaluation of the shear bond strength of dental porcelain and the low magnetic susceptibility Zrâ€“14Nb alloy. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 53, 131-141.	3.1	12
102	Cytocompatibility of Tiâ€“6Alâ€“7Nb through High-Pressure Torsion Processing. Materials Transactions, 2016, 57, 2020-2025.	1.2	11
103	Reaction of calcium and phosphate ions with titanium, zirconium, niobium, and tantalum. Surface and Interface Analysis, 2015, 47, 1148-1154.	1.8	13
104	Preliminary Evaluation of Mechanical Properties of Co-Cr Alloys Fabricated by Three New Manufacturing Processes. International Journal of Prosthodontics, 2015, 28, 396-398.	1.7	21
105	Mechanical properties of orthodontic wires made of super engineering plastic. Dental Materials Journal, 2015, 34, 114-119.	1.8	43
106	Microstructure and Mechanical Properties of Large-Scale Ingots of the Zr-1Mo Alloy. Materials Transactions, 2015, 56, 1544-1548.	1.2	10
107	Current Status of Biomedical Materials Development Group. Materia Japan, 2015, 54, 236-238.	0.1	0
108	Evaluation of Release and Accumulation of Metal Ions from Titanium and Nickel by Accelerated Dissolution Test in Simulated Body Environments. Electrochemistry, 2015, 83, 1048-1052.	1.4	3

#	Article	IF	Citations
109	Calcification of MC3T3-E1 cells on titanium and zirconium. Dental Materials Journal, 2015, 34, 713-718.	1.8	6
110	Interface between materials and living tissue in prosthodontic dentistry. Annals of Japan Prosthodontic Society, 2015, 7, 1-9.	0.0	0
111	Biofunctionalization of Metallic Materials: Creation of Biosisâ€“Abiosis Intelligent Interface. , 2015, , 53-64.		3
112	Hierarchical periodic micro/nano-structures on nitinol and their influence on oriented endothelialization and anti-thrombosis. Materials Science and Engineering C, 2015, 57, 1-6.	7.3	37
113	The effect of different component ratios in block polymers and processing conditions on electrodeposition efficiency onto titanium. Applied Surface Science, 2015, 355, 784-791.	6.1	7
114	Superplasticity in the Tiâ€“6Alâ€“7Nb alloy processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 640, 449-453.	5.6	35
115	Biofunctionalization of Metals with Polymers. Springer Series in Biomaterials Science and Engineering, 2015, , 127-142.	1.0	1
116	Modulation of friction dynamics in water by changing the combination of the loop- and graft-type poly(ethylene glycol) surfaces. Soft Matter, 2015, 11, 936-942.	2.7	10
117	Effect of Periodic Nanostructures Produced with Femtosecond Laser for Wavelength of 388 and 775 nm on Cell Spreading. IEEJ Transactions on Fundamentals and Materials, 2015, 135, 587-591.	0.2	0
118	G0400303 Blood compatibility of a-BC:H films prepared by pulsed plasma CVD. The Proceedings of Mechanical Engineering Congress Japan, 2015, 2015, _G0400303-_G0400303-.	0.0	0
119	The influence of heat treatment on the mechanical properties of Ni-Ti file materials. Dental Materials Journal, 2014, 33, 27-31.	1.8	18
120	Improvement of Pitting Corrosion Resistance of Type 430 Stainless Steel by Electrochemical Treatments in a Concentrated Nitric Acid. ISIJ International, 2014, 54, 199-205.	1.4	9
121	Formation of white oxide layer on Zr-14Nb alloy using thermal treatment. Dental Materials Journal, 2014, 33, 490-498.	1.8	7
122	Evaluation of biofilm formation in the presence of saliva on poly(ethylene glycol)deposited titanium. Dental Materials Journal, 2014, 33, 638-647.	1.8	12
123	Surface characteristics and castability of Zr-14Nb alloy dental castings. Dental Materials Journal, 2014, 33, 631-637.	1.8	10
124	Femtosecond laser induced periodic nanostructures and microstructures on ti plate for control of cell spreading. , 2014, , .		0
125	Effect of periodic nanostructures formed with femtosecond laser on cell spreading. , 2014, , .		0
126	Effects of acidic sodium fluoride-treated, commercially pure titanium on periodontal pathogens and rat bone marrow cells. Dental Materials Journal, 2014, 33, 70-78.	1.8	3

#	Article	IF	Citations
127	Microstructures and Mechanical Properties of Ti-6Al-7Nb Processed by High-pressure Torsion. Procedia Engineering, 2014, 81, 1523-1528.	1.2	21
128	A review of surface modification of a novel low modulus Î²-type titanium alloy for biomedical applications. International Journal of Surface Science and Engineering, 2014, 8, 138.	0.4	8
129	Anodic oxidation of a Coâ€“Niâ€“Crâ€“Mo alloy and its inhibitory effect on platelet activation. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2014, 102, 659-666.	3.4	6
130	Endodontic instruments after torsional failure: Nanoindentation test. Scanning, 2014, 36, 437-443.	1.5	9
131	Bone healing with oxytocinâ€loaded microporous Î²â€‹<scp>TCP</scp> bone substitute in ectopic bone formation model and criticalâ€‹sized osseous defect of rat. Journal of Clinical Periodontology, 2014, 41, 181-190.	4.9	16
132	Adhesive strength of medical polymer on anodic oxide nanostructures fabricated on biomedical Î²-type titanium alloy. Materials Science and Engineering C, 2014, 36, 244-251.	7.3	17
133	Cell spreading on titanium dioxide film formed and modified with aerosol beam and femtosecond laser. Applied Surface Science, 2014, 288, 649-653.	6.1	41
134	Correlation between cyclic fatigue and the bending properties of nickel titanium endodontic instruments. Dental Materials Journal, 2014, 33, 539-544.	1.8	9
135	Periodic Nanostructures Formation for Creating New Functional Biomaterials. , 2014, , .		0
136	Effect of cold rolling on the magnetic susceptibility of Zrâ€“14Nb alloy. Acta Biomaterialia, 2013, 9, 5795-5801.	8.3	37
137	Three-dimensional quantification of susceptibility artifacts from various metals in magnetic resonance images. Acta Biomaterialia, 2013, 9, 8433-8439.	8.3	55
138	Microstructures and mechanical properties of Coâ€“29Crâ€“6Mo alloy fabricated by selective laser melting process for dental applications. Journal of the Mechanical Behavior of Biomedical Materials, 2013, 21, 67-76.	3.1	381
139	Improvement of adhesive strength of segmented polyurethane on Tiâ€“29Nbâ€“13Taâ€“4.6Zr alloy through H₂O₂ treatment for biomedical applications. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2013, 101B, 776-783.	3.4	7
140	Cooling Rate and Composition Dependences of Magnetic Susceptibility for Zr_{54−}_xCu₃₀₊_xAl₈Ag₈ Glassy Alloys. Materials Transactions, 2013, 54, 1356-1360.	1.2	2
141	Ti Particles Dispersed Ti-Based Metallic Glass Matrix Composite Prepared by Spark Plasma Sintering. Materials Transactions, 2013, 54, 1335-1338.	1.2	9
142	Accelerated Calcium Phosphate Formation on Titanium Utilizing Galvanic Current between Titanium and Gold in Hanks’ Solution. Materials Transactions, 2013, 54, 149-155.	1.2	1
143	Influence of electrolytic treatment time on the corrosion resistance of Ni-Ti orthodontic wire. Dental Materials Journal, 2013, 32, 305-310.	1.8	7
144	Metalâ€“Polymer Composite Biomaterials. , 2013, , 343-376.		3

#	Article	IF	Citations
145	204 Improvement of adhesive strength between Ti-29Nb-13Ta-4.6Zr alloy and biomedical polymer coating by utilizing nanostructures. The Proceedings of the Materials and Processing Conference, 2013, 2013.21, _204-1_-_204-3_.	0.0	0
146	Research and development of metals for medical devices based on clinical needs. Science and Technology of Advanced Materials, 2012, 13, 064102.	6.1	94
147	Effect of sandblasting on the mechanical properties of Y-TZP zirconia. Bio-Medical Materials and Engineering, 2012, 22, 383-398.	0.6	12
148	Effects of chromium and nitrogen content on the microstructures and mechanical properties of as-cast Coâ€“Crâ€“Mo alloys for dental applications. Acta Biomaterialia, 2012, 8, 2856-2862.	8.3	95
149	Characterization of air-formed surface oxide film on a Coâ€“Niâ€“Crâ€“Mo alloy (MP35N) and its change in Hanksâ€™ solution. Applied Surface Science, 2012, 258, 5490-5498.	6.1	32
150	Micro-arc oxidation treatment to improve the hard-tissue compatibility of Tiâ€“29Nbâ€“13Taâ€“4.6Zr alloy. Applied Surface Science, 2012, 262, 34-38.	6.1	64
151	Quantitative analysis on orientation of human bone integrated with midpalatal implant by micro X-ray diffractometer. Applied Surface Science, 2012, 262, 222-226.	6.1	0
152	Degradation of Dental Implants. , 2012, , 57-78.		2
153	Electrically polarized micro-arc oxidized TiO2 coatings with enhanced surface hydrophilicity. Acta Biomaterialia, 2012, 8, 860-865.	8.3	53
154	Nanoâ€indentation testing of new and fractured nickelâ€titanium endodontic instruments. International Endodontic Journal, 2012, 45, 462-468.	5.0	18
155	Effect of terminal functional groups of silane layers on adhesive strength between biomedical Ti-29Nb-13Ta-4.6Zr alloy and segment polyurethanes. Surface and Coatings Technology, 2012, 206, 3137-3141.	4.8	22
156	CHARACTERIZATION OF BIO-ABSORBABLE AND BIOMIMETIC GRANULES PRODUCED FROM ANIMAL BONE BY THE HIGH VELOCITY ROTATION-CRUSHING AND DEMINERALIZING TECHNIQUE. Phosphorus Research Bulletin, 2012, 26, 65-70.	0.6	1
157	Variation of biocompatibility of titanium dioxide film by femtosecond laser irradiation. , 2012, , .		0
158	Synthesis of novel oxide layers on titanium by combination of sputter deposition and micro-arc oxidation techniques. Dental Materials Journal, 2011, 30, 754-761.	1.8	15
159	A comprehensive review of techniques for biofunctionalization of titanium. Journal of Periodontal and Implant Science, 2011, 41, 263.	2.0	151
160	Effects of pH, Potential, and Deposition Time on the Durability of Collagen Electrodeposited to Titanium. Materials Transactions, 2011, 52, 81-89.	1.2	10
161	Biocompatibility control of recombinant collagen by ion beam modification. Surface and Coatings Technology, 2011, 206, 911-915.	4.8	2
162	Ion beam modification of ePTFE for improving the blood compatibility. Surface and Coatings Technology, 2011, 206, 905-910.	4.8	3

#	Article	IF	Citations
163	Preparation of novel polymer-metal oxide nanocomposites with nanophase separated hierarchical structure. Bulletin of Materials Science, 2011, 34, 1289-1296.	1.7	6
164	Effects of phase constitution on magnetic susceptibility and mechanical properties of Zr-rich Zrâ€“Mo alloys. Acta Biomaterialia, 2011, 7, 4259-4266.	8.3	98
165	Microstructure and mechanical properties of as-cast Zrâ€“Nb alloys. Acta Biomaterialia, 2011, 7, 4278-4284.	8.3	156
166	Bone healing of commercial oral implants with RGD immobilization through electrodeposited poly(ethylene glycol) in rabbit cancellous bone. Acta Biomaterialia, 2011, 7, 3222-3229.	8.3	46
167	Surface structures and osteoblast response of hydrothermally produced CaTiO3 thin film on Tiâ€“13Nbâ€“13Zr alloy. Applied Surface Science, 2011, 257, 7856-7863.	6.1	25
168	Microstructure and mechanical properties of Pt-added and Pd-added Zr-20Nb alloys and their metal release in 1 mass% lactic acid solution. Materials Science and Engineering C, 2011, 31, 900-905.	7.3	21
169	Enhancement of calcium phosphate formation on zirconium by micro-arc oxidation and chemical treatments. Surface and Coatings Technology, 2011, 205, 4948-4955.	4.8	62
170	Evaluation of the static frictional coefficients of Co-Cr and gold alloys for cone crown telescope denture retainer applications. Dental Materials Journal, 2010, 29, 706-712.	1.8	16
171	Fabrication and Mechanical Properties of Porous Ti/HA Composites for Bone Fixation Devices. Materials Transactions, 2010, 51, 1449-1454.	1.2	26
172	Microstructures of Zr-Added Co-Cr-Mo Alloy Compacts Fabricated with a Metal Injection Molding Process and Their Metal Release in 1 mass% Lactic Acid. Materials Transactions, 2010, 51, 1281-1287.	1.2	10
173	Mechanical Properties of Zr Added CoCrMo Alloy Sintered Compact Produced by MIM Proces. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2010, 57, 118-125.	0.2	3
174	Characterization of the spatial immobilization manner of poly(ethylene glycol) to a titanium surface with immersion and electrodeposition and its effects on platelet adhesion. Journal of Biomedical Materials Research - Part A, 2010, 92A, 350-358.	4.0	36
175	Differences in the bone differentiation properties of MC3T3â€E1 cells on polished bulk and sputterâ€deposited titanium specimens. Journal of Biomedical Materials Research - Part A, 2010, 94A, 611-618.	4.0	9
176	Effects of electrodeposited poly(ethylene glycol) on biofilm adherence to titanium. Journal of Biomedical Materials Research - Part A, 2010, 95A, 1105-1113.	4.0	49
177	Biofunctionalization of titanium for dental implant. Japanese Dental Science Review, 2010, 46, 93-101.	5.1	126
178	Microstructure and magnetic susceptibility of as-cast Zrâ€“Mo alloys. Acta Biomaterialia, 2010, 6, 1033-1038.	8.3	135
179	Osteoblast response and osseointegration of a Tiâ€“6Alâ€“4V alloy implant incorporating strontium. Acta Biomaterialia, 2010, 6, 2843-2851.	8.3	136
180	Healing of rabbit calvarial bone defects using biphasic calcium phosphate ceramics made of submicronâ€sized grains with a hierarchical pore structure. Clinical Oral Implants Research, 2010, 21, 268-276.	4.5	39

#	Article	IF	Citations
181	Cathodic alkaline treatment of zirconium to give the ability to form calcium phosphate. Acta Biomaterialia, 2010, 6, 4161-4166.	8.3	28
182	Biological reactions on titanium surface electrodeposited biofunctional molecules. , 2010, , 83-89.		0
183	Effect of mold temperature on the mechanical durability of titanium casting clasp model. Dental Materials Journal, 2009, 28, 610-619.	1.8	5
184	An overview of biofunctionalization of metals in Japan. Journal of the Royal Society Interface, 2009, 6, S361-9.	3.4	36
185	Electrochemical processes of nucleation and growth of calcium phosphate on titanium supported by realâ€time quartz crystal microbalance measurements and Xâ€ray photoelectron spectroscopy analysis. Journal of Biomedical Materials Research - Part A, 2009, 89A, 270-280.	4.0	47
186	Materials for metallic stents. Journal of Artificial Organs, 2009, 12, 73-79.	0.9	115
187	In vitro short-term platelet adhesion on various metals. Journal of Artificial Organs, 2009, 12, 182-186.	0.9	34
188	Enhanced osteoconductivity of microâ€structured titanium implants (XiVE S CELLplus^{â„¢}) by addition of surface calcium chemistry: a histomorphometric study in the rabbit femur. Clinical Oral Implants Research, 2009, 20, 684-690.	4.5	46
189	Difference in surface reactions between titanium and zirconium in Hanks' solution to elucidate mechanism of calcium phosphate formation on titanium using XPS and cathodic polarization. Materials Science and Engineering C, 2009, 29, 1702-1708.	7.3	102
190	Effect of pH on the interaction between zwitterions and titanium oxide. Journal of Colloid and Interface Science, 2009, 330, 138-143.	9.4	24
191	Calcification by MC3T3-E1 cells on RGD peptide immobilized on titanium through electrodeposited PEG. Biomaterials, 2009, 30, 1281-1286.	11.4	91
192	Osteoconductivity of hydrophilic microstructured titanium implants with phosphate ion chemistry. Acta Biomaterialia, 2009, 5, 2311-2321.	8.3	81
193	Effects of Phase Constitution of Zr-Nb Alloys on Their Magnetic Susceptibilities. Materials Transactions, 2009, 50, 2466-2472.	1.2	83
194	J0401-1-3 Improvement of Hard Tissue Compatibility of Zirconium with Micro-Arc Oxidation (MAO) Treatment. The Proceedings of the JSME Annual Meeting, 2009, 2009.6, 261-262.	0.0	0
195	Comparative study on torsional strength, ductility and fracture characteristics of laser-welded Î±+Î² Tiâ€“6Alâ€“7Nb alloy, CP Titanium and Coâ€“Cr alloy dental castings. Dental Materials, 2008, 24, 839-845.	3.5	28
196	Characterization of air-formed surface oxide film on Tiâ€“29Nbâ€“13Taâ€“4.6Zr alloy surface using XPS and AES. Corrosion Science, 2008, 50, 2111-2116.	6.6	132
197	Active Hydroxyl Groups on Surface Oxide Film of Titanium, 316L Stainless Steel, and Cobalt-Chromium-Molybdenum Alloy and Its Effect on the Immobilization of Poly(Ethylene Glycol). Materials Transactions, 2008, 49, 805-811.	1.2	74
198	â€œStrategy for Ubiquitous Titanium Alloysâ€• Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2008, 72, 915.	0.4	3

#	Article	IF	Citations
199	æ©Ÿèƒ½½åˆ†åã«ã‚ˆã‚‹é‡‘å±žç”Ÿä½“æ©Ÿèƒ½åŒ–. Keikinzoku/Journal of Japan Institute of Light Metals, 2008, 58, 583-587.		
200	Effect of Active Hydroxyl Groups on the Interfacial Bond Strength of Titanium with Segmented Polyurethane through .GAMMA.-mercapto Propyl Trimethoxysilane. Dental Materials Journal, 2008, 27, 81-92.	1.8	21
201	Creation of Titanium â€“ Segmented Polyurethane Composite through Silane Coupling Agent. Zairyo/Journal of the Society of Materials Science, Japan, 2008, 57, 859-867.	0.2	2
202	Effect of UV Irradiation on the Shear Bond Strength of Titanium with Segmented Polyurethane through .GAMMA.-mercapto Propyl Trimethoxysilane. Dental Materials Journal, 2008, 27, 124-132.	1.8	11
203	Biofunctionalization of Metals. , 2008, , .		0
204	Calcium Phosphate Precipitation by Galvanic Current between Titanium and Gold in Pseudo-Body Fluid. Materials Science Forum, 2007, 539-543, 653-656.	0.3	0
205	Characterization and Dissolution Behavior in a Physiological Solution of Heat-Treated CaTiO₃ Thin Films with Different Thicknesses. Solid State Phenomena, 2007, 127, 209-214.	0.3	0
206	Effects of Cross-Linkage and Hydroxyl Groups on Bonding Strength between Titanium and Segmented Polyurethane through 3-(Trimethoxysilyl) Propyl Methacrylate. Materials Science Forum, 2007, 561-565, 1477-1480.	0.3	0
207	Biofunctional Hybrid of Titanium with Polymers. Materials Science Forum, 2007, 539-543, 563-566.	0.3	3
208	Corrosion Behavior of Zirconium Based Alloys in Simulated Body Fluids. Materials Science Forum, 2007, 561-565, 1489-1492.	0.3	6
209	Biofunctionalization of Metal Surface by Immobilization of Poly(Ethylene Glycol) Terminated Amine. Advanced Materials Research, 2007, 26-28, 765-768.	0.3	0
210	ç”Ÿä½“å†…ã«ãŠã‘ã‚‹é‡‘å±žæ–™™ã®è¡¨é¢åˆ¿œ. Materia Japan, 2007, 46, 464-467.	0.1	1
211	Determination of the Immobilization Manner of Amine-Terminated Poly(Ethylene Glycol) Electrodeposited on a Titanium Surface with XPS and GD-OES. Materials Transactions, 2007, 48, 287-292.	1.2	37
212	è¡¨é¢æ”¹è³ªã«ã‚ˆã‚‹é‡‘å±žç”Ÿä½“é©åˆ–ãƒ»æ©Ÿèƒ½åŒ–. Materia Japan, 2007, 46, 203-206.	0.1	0
213	Inhibition Effect of Zirconium Coating on Calcium Phosphate Precipitation of Titanium to Avoid Assimilation with Bone. Materials Transactions, 2007, 48, 301-306.	1.2	51
214	Cytocompatibility Evaluation of Ti-Ni and Ti-Mo-Al System Shape Memory Alloys. Materials Transactions, 2007, 48, 361-366.	1.2	12
215	Bending Property of Super-Elastic Ti-Ni Alloy Dental Castings with Different Heat Treatments. Materials Transactions, 2007, 48, 428-431.	1.2	0
216	Calcium-Phosphate Formation on Titanium Modified with Newly Developed Calcium-Hydroxide-Slurry Treatment. Materials Transactions, 2007, 48, 105-110.	1.2	10

#	Article	IF	Citations
217	Corrosion of Pure Titanium Sternal Wire. Annals of Thoracic Surgery, 2007, 84, 1012-1014.	1.3	10
218	äºä½“ä¸§ã®é‡‘å±žä¿¡é¼æ€§ã,'å•ä¸Šã•ã•ã,‹æŠ€è¡“. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2007, 58, 495-4	0.2	1
219	Effect of Surface Modification on the Photocatalysis of Ti-Ni Alloy in Orthodontics. Dental Materials Journal, 2007, 26, 924-929.	1.8	19
220	Structure and strength at the bonding interface of a titanium-segmented polyurethane composite through 3-(trimethoxysilyl) propyl methacrylate for artificial organs. Journal of Biomedical Materials Research - Part A, 2007, 82A, 52-61.	4.0	25
221	CaTiO3 coating on titanium for biomaterial applicationâ€"Optimum thickness and tissue response. Journal of Biomedical Materials Research - Part A, 2007, 82A, 304-315.	4.0	64
222	Characterization of calcium titanate thin films deposited on titanium with reactive sputtering and pulsed laser depositions. Surface and Coatings Technology, 2007, 201, 7686-7691.	4.8	19
223	Electrodeposition of amine-terminatedpoly(ethylene glycol) to titanium surface. Materials Science and Engineering C, 2007, 27, 206-212.	7.3	43
224	Calcium phosphates formation on CaTiO3 coated titanium. Journal of Materials Science: Materials in Medicine, 2007, 18, 1009-1016.	3.6	39
225	Short term evaluation of material blood compatibility using a microchannel array. Journal of Materials Science: Materials in Medicine, 2007, 18, 1175-1184.	3.6	6
226	Investigation for analytical procedure for determination of trace metallic ions in simulated body fluids by inductively coupled plasma atomic emission spectrometry (ICP-AES). Journal of Materials Science: Materials in Medicine, 2007, 18, 429-433.	3.6	7
227	Electrochemical properties of 316L stainless steel with culturing L929 fibroblasts. Journal of the Royal Society Interface, 2006, 3, 495-505.	3.4	41
228	Corrosion Resistance and Surface Characterization of Electrolyzed Ti-Ni Alloy. Dental Materials Journal, 2006, 25, 151-160.	1.8	36
229	New Manufacturing Process of Nickel-Free Stainless Steel through Nitrogen Absorption Treatment. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2006, 70, 287-294.	0.4	2
230	Fatigue Life Prediction of Biomedical Titanium Alloys under Tensile/Torsional Stress. Materials Transactions, 2006, 47, 1826-1831.	1.2	6
231	Fatigue Property of Ti-5Al-13Ta Alloy Dental Castings in 0.9% NaCl Solution. Materials Transactions, 2006, 47, 2444-2447.	1.2	2
232	Characterization of CaTiO3 thin film prepared by ion-beam assisted deposition. Surface and Coatings Technology, 2006, 200, 5455-5461.	4.8	38
233	Corrosion of stainless steel sternal wire after long-term implantation. Journal of Artificial Organs, 2006, 9, 61-66.	0.9	24
234	Recent Development of New Alloys for Biomedical Use. Materials Science Forum, 2006, 512, 243-248.	0.3	36

#	Article	IF	Citations
235	Immobilization of Poly(Ethylene Glycol) Terminated with Amine to Titanium Surface by Electrodeposition. Advanced Materials Research, 2006, 15-17, 205-208.	0.3	0
236	A New Technique of Titanium and Segmented Polyurethane Complex through 3-(Trimethoxysilyl) Propylmethacrylate for Artificial Implants. Advanced Materials Research, 2006, 15-17, 125-128.	0.3	0
237	CORROSION OF IMPLANT METALS IN THE PRESENCE OF CELLS. Corrosion Reviews, 2006, 24, .	2.0	10
238	Mechanical Strength and Microstructure of Laser-welded Ti-6Al-7Nb Alloy Castings. Dental Materials Journal, 2005, 24, 541-549.	1.8	23
239	Friction-Wear Properties of Nickel-Free Co–Cr–Mo Alloy in a Simulated Body Fluid. Materials Transactions, 2005, 46, 1588-1592.	1.2	26
240	Characterization of Surface Oxide Film Formed on Ti–8Fe–8Ta–4Zr. Materials Transactions, 2005, 46, 3015-3019.	1.2	4
241	Fretting Fatigue Properties of Zr-Based Bulk Amorphous Alloy in Phosphate Buffered Saline Solution. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2005, 69, 481-487.	0.4	8
242	Bending Properties of Co–Ni–Cr–Mo Alloy Wire for Orthodontic Application. Materials Transactions, 2005, 46, 1551-1554.	1.2	2
243	åŒ»ç™‚å^†é‡Žã«ãŠã‘ã‚‹ãƒã‚¿ãƒ³ç³»è¨˜æ†¶åˆ¦ç†. Keikinzoku/Journal of Japan Institute of Light Metals, 2005, 55, 553-556.	0.5	17
244	Surface Characterization and Anodic Polarization of Nitrogen-Ion-Implanted Nickel-Free Co–Cr–Mo Alloy. Materials Transactions, 2005, 46, 1627-1632.	1.2	9
245	Fatigue Property of Super-Elastic Ti–Ni Alloy Dental Castings. Materials Transactions, 2005, 46, 1555-1563.	1.2	6
246	Friction-Wear Properties of Nitrogen-Ion-Implanted Nickel-Free Co–Cr–Mo Alloy. Materials Transactions, 2005, 46, 1593-1596.	1.2	10
247	Mechanical properties and microstructures of new Tiâ€“Feâ€“Ta and Tiâ€“Feâ€“Taâ€“Zr system alloys. Materials Science and Engineering C, 2005, 25, 312-320.	7.3	66
248	Microstructure and corrosion behaviour in biological environments of the new forged low-Ni Co?Cr?Mo alloys. Biomaterials, 2005, 26, 4912-4923.	11.4	122
249	Corrosion of spinal implants retrieved from patients with scoliosis. Journal of Orthopaedic Science, 2005, 10, 200-205.	1.1	36
250	Japanese research and development on metallic biomedical, dental, and healthcare materials. Jom, 2005, 57, 18-24.	1.9	51
251	New Method for Evaluating Material Blood Compatibility Using Microchannel Array. Key Engineering Materials, 2005, 288-289, 495-498.	0.4	0
252	Development of New Ti–Fe–Ta and Ti–Fe–Ta–Zr System Alloys for Biomedical Applications [Retracted]. Materials Transactions, 2005, 46, 1532-1539.	1.2	16

#	Article	IF	Citations
253	Roles of Metals on Regenerative Medicine. Journal of Hard Tissue Biology, 2005, 14, 140-142.	0.4	4
254	238 Effect of Direction of Stress Fiber on Cell Adhesive Shear Force and Cell Detachment Energy. Proceedings of the JSME Bioengineering Conference and Seminar, 2005, 2004.17, 291-292.	0.0	0
255	New Manufacturing Process of Nickel-Free Austenitic Stainless Steel with Nitrogen Absorption Treatment. Materials Science Forum, 2004, 449-452, 1085-1088.	0.3	0
256	Composition of surface oxide film of titanium with culturing murine fibroblasts L929. Biomaterials, 2004, 25, 979-986.	11.4	91
257	Cytotoxicity evaluation of ceramic particles of different sizes and shapes. Journal of Biomedical Materials Research Part B, 2004, 68A, 244-256.	3.1	163
258	Cytocompatibility evaluation of Ni-free stainless steel manufactured by nitrogen adsorption treatment. Materials Science and Engineering C, 2004, 24, 737-743.	7.3	77
259	TOF-SIMS investigation of metallic material surface after culturing cells. Applied Surface Science, 2004, 231-232, 470-474.	6.1	15
260	Deformation Properties of Ti-6Al-7Nb Alloy Castings for Removable Partial Denture Frameworks. Dental Materials Journal, 2004, 23, 497-503.	1.8	20
261	Effects of Biological Factors on the Repassivation Current of Titanium. Materials Transactions, 2004, 45, 1635-1639.	1.2	18
262	Torsion and Tensile Properties of Thin Wires of Nickel-Free Stainless Steel with Nitrogen Absorption Treatment. Materials Transactions, 2004, 45, 112-118.	1.2	6
263	Fretting Fatigue Properties of Zr-Based Bulk Amorphous Alloy in Phosphate-Buffered Saline Solution. Materials Transactions, 2004, 45, 1233-1238.	1.2	5
264	Evaluation of Degradability of CaTiO₃ Thin Films in Simulated Body Fluids. Materials Transactions, 2004, 45, 1778-1781.	1.2	31
265	Fracture Surface Morphology of Nickel-Free Stainless Steel Manufactured by Nitrogen Absorption Treatment. Materia Japan, 2004, 43, 1040-1040.	0.1	0
266	SURFACE MODIFICATION OF METALLIC BIOMATERIALS. Biomaterials Engineering and Processing Series, 2004, , 4-1-1-36.	0.0	1
267	Effect of contact pressure on fretting fatigue of austenitic stainless steel. Tribology International, 2003, 36, 79-85.	5.9	46
268	Mechanical Properties and Microstructures of a Thin Plate of Nickel-Free Stainless Steel with Nitrogen Absorption Treatment. Materials Transactions, 2003, 44, 1363-1369.	1.2	22
269	Thermodynamic Structural Stability and Polarization Behavior of Cast Amorphous Alloy. Materials Transactions, 2003, 44, 1824-1829.	1.2	3
270	Characterization of the Surface Oxide Film on an Fe-Cr-Mo-N System Alloy in Environments Simulating the Human Body. Materials Transactions, 2003, 44, 2671-2677.	1.2	5

#	Article	IF	Citations
271	Mechanical Properties of Thin Wires of Nickel-Free Austenintic Stainless Steel with Nitrogen Absorption Treatment. Materials Transactions, 2003, 44, 1577-1582.	1.2	8
272	Characterization of the Surface Oxide Film on an Fe-Cr-N System Alloy in Environments Simulating the Human Body. Materials Transactions, 2003, 44, 2664-2670.	1.2	6
273	New Manufacturing Process of Nickel-Free Austenitic Stainless Steel with Nitrogen Absorption Treatment. Materials Transactions, 2003, 44, 414-420.	1.2	47
274	Effect of Formation of Adhesion Plaque and Cytoskeleton on Cell Adhesive Shear Force and Cell Detachment Energy to Glass Surface. The Proceedings of the JSME Annual Meeting, 2003, 2003.5, 1-2.	0.0	0
275	ç”Ÿä½“ç”¨é‡‘å±žæ–™ã•é›»æ°—åŒ–å¦. Electrochemistry, 2003, 71, 799-804.	1.4	0
276	Surface Oxide Films on Titanium Alloys Regenerated in Hanks’ Solution. Materials Transactions, 2002, 43, 3000-3004.	1.2	42
277	Fatigue Properties of Zr-Based Bulk Amorphous Alloy in Phosphate Buffered Saline Solution. Materials Transactions, 2002, 43, 3118-3121.	1.2	18
278	Surface Modification of Titanium Utilizing a Repassivation Reaction in Aqueous Solutions. Materials Transactions, 2002, 43, 3005-3009.	1.2	4
279	Corrosion Behavior of Nickel-Free High Nitrogen Austenitic Stainless Steel in Simulated Biological Environments. Materials Transactions, 2002, 43, 3100-3104.	1.2	59
280	XPS Characterization of the Surface Oxide Film of 316L Stainless Steel Samples that were Located in Quasi-Biological Environments. Materials Transactions, 2002, 43, 3088-3092.	1.2	108
281	Characterization of the Surface Oxide Film of Nickel-free Austenitic Stainless Steel Located in Simulated Body Environments. Materials Transactions, 2002, 43, 3093-3099.	1.2	14
282	Polarization Behavior of Bulk Zr-Base Amorphous Alloy Immersed in Cell Culture Medium. Materials Transactions, 2002, 43, 3112-3117.	1.2	8
283	Surface Characterization of Amorphous Zr-Al-(Ni, Cu) Alloys Immersed in Cell-Culture Medium. Materials Transactions, 2002, 43, 261-266.	1.2	25
284	Evaluation techniques of metallic biomaterials in vitro. Science and Technology of Advanced Materials, 2002, 3, 289-295.	6.1	92
285	Mutagenicity evaluation of forty-one metal salts by theumu test. Journal of Biomedical Materials Research Part B, 2002, 59, 176-183.	3.1	46
286	Hydrothermal modification of titanium surface in calcium solutions. Biomaterials, 2002, 23, 2265-2272.	11.4	117
287	Corrosion Behavior of Zr_{<B>65</B>}Al_{<B>7.5</B>}Ni_{<B>10</B>}Cu_{<B>17.5</B>}1.2 Amorphous Alloy for Biomedical Use. Materials Transactions, 2001, 42, 656-659.		37
288	509 Effect of Span Length of Bridge-Type Pad on Fretting Fatigue of High Strength Steel. The Proceedings of the Materials and Processing Conference, 2001, 2001.9, 201-202.	0.0	1

#	Article	IF	Citations
289	Corrosion Measurements of Biomedical Metallic Materials. Zairyo To Kankyo/ Corrosion Engineering, 2000, 49, 463-468.	0.2	13
290	Metal ion release from titanium with active oxygen species generated by rat macrophagesin vitro. , 2000, 49, 238-243.		113
291	In vivo metallic biomaterials and surface modification. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1999, 267, 260-266.	5.6	208
292	Polarization Behavior of Pd₇₈Si₁₆Cu_{6−<I>x</I>}Cr<I>_x</I> Amorphous Alloys in an Artificial Body Fluid. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1999, 63, 352-360.	0.4	8
293	Metals and Alloys in Environment Inside Human Body and Their Surface Modifications. Zairyo To Kankyo/ Corrosion Engineering, 1998, 47, 750-757.	0.2	7
294	Estimation of Residual Stress in Dental Porcelain by Laser-Raman Spectroscopy.. Dental Materials Journal, 1998, 17, 41-50.	1.8	2
295	Surface modification of titanium in calcium-ion-containing solutions. , 1997, 34, 273-278.		69
296	Early bone formation around calcium-ion-implanted titanium inserted into rat tibia. , 1997, 36, 131-136.		212
297	Microbial Properties of Titanium and Its Alloys for Oral Bacterium <I>S. mutans</I>. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1997, 61, 471-474.	0.4	0
298	Effect of Barium in Porcelain on Bonding Strength of Titanium-Porcelain System. Dental Materials Journal, 1996, 15, 111-120,250.	1.8	13
299	Structure of Surface-Modified Layers of Calcium-Ion-Implanted Ti–6Al–4V and Ti–56Ni. Materials Transactions, JIM, 1995, 36, 438-444.	0.9	50
300	Diffusion of Elements in Porcelain into Titanium Oxide. Dental Materials Journal, 1994, 13, 164-173,270.	1.8	23
301	Compositions of Surface Layers Formed on Amalgams in Air, Water, and Saline. Dental Materials Journal, 1993, 12, 118-126,272.	1.8	4
302	Special Issues/Surface Treatments of Biomaterials. Surface Treatments of Metallic Biomaterials and Those Effects.. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 1992, 43, 739-743.	0.2	8
303	Compositional Change in Surface of Ti-Zr Alloys in Artificial Bioliquid. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1992, 56, 1168-1173.	0.4	59
304	Calcium phosphate naturally formed on titanium in electrolyte solution. Biomaterials, 1991, 12, 767-774.	11.4	402
305	Study of structural adhesive bonding for tooth substances of dental restorative composite resins by acoustic emission technique.. Kobunshi Ronbunshu, 1985, 42, 765-770.	0.2	0
306	Differences in Surface Roughness between Up and Down Cutting and Grinding on Composite Resins. Dental Materials Journal, 1985, 4, 223-230,278.	1.8	2

#	Article	IF	Citations
307	Evaluation of Conventional and Microfilled Composite Resins Using an Acoustic Emission Technique. Dental Materials Journal, 1985, 4, 81-87,122.	1.8	8
308	Computer Simulation of Cyclic Creep. Dental Materials Journal, 1984, 3, 163-169,331.	1.8	2
309	Enhancement of Calcium Phosphate Formation on Zirconium by Combination of Simple Electrochemical Treatments. Key Engineering Materials, 0, 529-530, 565-569.	0.4	1
310	Biomedical Polymer Surface Modification of Beta-Type Titanium Alloy for Implants through Anodic Oxide Nanostructures. Materials Science Forum, 0, 783-786, 1261-1264.	0.3	2
311	Biocompatibility of Titanium Dioxide Film Modified by Femtosecond Laser Irradiation. Materials Science Forum, 0, 783-786, 1377-1382.	0.3	2
312	Biofunctional Surface Layer and its Bonding Strength in Low Modulus Î²-Type Titanium Alloy for Biomedical Applications. Materials Science Forum, 0, 783-786, 78-84.	0.3	0
313	Recent Development of New Alloys for Biomedical Use. Materials Science Forum, 0, , 243-248.	0.3	2
314	Metalâ€“Polymer Composite Biomaterials. , 0, , 4551-4573.		0
315	Xâ€ray photoelectron spectroscopyâ€based valence band spectra of passive films on titanium. Surface and Interface Analysis, 0, , .	1.8	2