

Takao Hanawa

List of Publications by Year in descending order

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315
papers

8,691
citations

57681

46
h-index

73587

79
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325
all docs

325
docs citations

325
times ranked

7429
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of microstructures and mechanical properties of 3 cobalt-chromium alloys fabricated with soft metal milling technology. <i>Journal of Prosthetic Dentistry</i> , 2022, 127, 489-496.	1.1	5
2	Surface properties and biocompatibility of sandblasted and acid-etched titanium-zirconium binary alloys with various compositions. <i>Dental Materials Journal</i> , 2022, 41, 266-272.	0.8	6
3	Impaired dental implant osseointegration in rat with streptozotocin-induced diabetes. <i>Journal of Periodontal Research</i> , 2022, 57, 412-424.	1.4	15
4	Evaluation of cytocompatibility and osteoconductivity of Zr-14Nb-5Ta-1Mo alloy with MC3T3-E1 cells. <i>Dental Materials Journal</i> , 2022, 41, 421-428.	0.8	1
5	Band structures of passive films on titanium in simulated biofluids determined by photoelectrochemical response: principle governing the biocompatibility. <i>Science and Technology of Advanced Materials</i> , 2022, 23, 322-331.	2.8	4
6	Developing Microstructure and Enhancing Strength of Ti-6Al-7Nb Alloy with Heat Treatment Processed by High-Pressure Torsion. <i>Materials Transactions</i> , 2022, 63, 948-956.	0.4	2
7	Outstanding in vivo mechanical integrity of additively manufactured spinal cages with a novel "honeycomb tree structure" design via guiding bone matrix orientation. <i>Spine Journal</i> , 2022, , .	0.6	6
8	Initial formation kinetics of calcium phosphate on titanium in Hanks' solution characterized using XPS. <i>Surface and Interface Analysis</i> , 2021, 53, 185-193.	0.8	13
9	Reduction in anisotropic response of corrosion properties of selective laser melted Co-Cr-Mo alloys by post-heat treatment. <i>Dental Materials</i> , 2021, 37, e98-e108.	1.6	20
10	Influence of annealing treatment on the microstructure, mechanical performance and magnetic susceptibility of low magnetic Zr-1Mo parts manufactured via laser additive manufacturing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 804, 140740.	2.6	9
11	Metals and Medicine. <i>Materials Transactions</i> , 2021, 62, 139-148.	0.4	9
12	Combination of hot isostatic pressing and subsequent heat treatment for additively manufactured Zr-1Mo components. <i>Materials Letters</i> , 2021, 285, 129123.	1.3	3
13	Time Transient of Calcium and Phosphate Ion Adsorption by Rutile Crystal Facets in Hanks™ Solution Characterized by XPS. <i>Langmuir</i> , 2021, 37, 3597-3604.	1.6	11
14	Enhancement of antibacterial property of titanium by two-step micro arc oxidation treatment. <i>Dental Materials Journal</i> , 2021, 40, 592-598.	0.8	16
15	Effect of Post-Heat Treatment Cooling Conditions on Microstructures and Fatigue Properties of Cobalt Chromium Molybdenum Alloy Fabricated through Selective Laser Melting. <i>Metals</i> , 2021, 11, 1005.	1.0	2
16	Development of Electrochemical Surface Treatment for Improvement of Localized Corrosion Resistance of Zirconium in Chloride Environment. <i>Materials Transactions</i> , 2021, 62, 788-796.	0.4	2
17	Bioinspired low-magnetic Zr alloy with high strength and ductility. <i>Scripta Materialia</i> , 2021, 199, 113856.	2.6	2
18	Investigation of the Long-Term Antibacterial Properties of Titanium by Two-Step Micro-Arc Oxidation Treatment. <i>Coatings</i> , 2021, 11, 798.	1.2	11

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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.	1.7	17
20	Biocompatibility of Ni-Cr alloys, with the same composition, prepared by two new digital manufacturing techniques. Materials Letters, 2021, 305, 130761.	1.3	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.	0.7	2
22	Mechanical Property Comparison of Ni-Cr-Mo Alloys Fabricated via One Conventional and Two New Digital Manufacturing Techniques. Applied Sciences (Switzerland), 2021, 11, 9308.	1.3	2
23	Corrosion Behavior and Bacterial Viability on Different Surface States of Copper. Zairyo To Kankyo/Corrosion Engineering, 2021, 70, 265-270.	0.0	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.	1.3	1
26	Zirconia & titanium in dentistry: A review. Dental Materials Journal, 2020, 39, 24-36.	0.8	94
27	Effect of heat treatment on the anisotropic microstructural and mechanical properties of Co-Cr-Mo alloys produced by selective laser melting. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 102, 103496.	1.5	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.	0.8	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.	3.3	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.	1.2	27
31	Effects of process parameters on the mechanical properties of additively manufactured Zr-1Mo alloy builds. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 104, 103655.	1.5	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.	1.8	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.	0.8	17
34	Zirconium-based metallic glass and zirconia coatings to inhibit bone formation on titanium. Biomedical Materials (Bristol), 2020, 15, 065019.	1.7	20
35	Hot isostatic pressing of MRI compatible Zr-1Mo components manufactured by laser powder bed fusion. Materials Characterization, 2020, 169, 110657.	1.9	8
36	Fatigue Property and Cytocompatibility of a Biomedical Co-Cr-Mo Alloy Subjected to a High Pressure Torsion and a Subsequent Short Time Annealing. Materials Transactions, 2020, 61, 361-367.	0.4	7

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37	Corrosion Behavior and Bacterial Viability on Different Surface States of Copper. Materials Transactions, 2020, 61, 1143-1148.	0.4	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.	0.0	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.	0.8	0
41	Mechanism of Electrodeposition Process of Poly(Ethylene Glycol) Diamine to Titanium Surface. Materials Transactions, 2020, 61, 1346-1354.	0.4	1
42	Design of Zirconium Quaternary System Alloys and Their Properties. Materials Transactions, 2020, 61, 776-781.	0.4	2
43	Effect of Impurity Elements on Localized Corrosion of Zirconium in Chloride Containing Environment. Journal of the Electrochemical Society, 2020, 167, 141507.	1.3	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.	1.1	5
45	Titanium's Tissue Interface Reaction and Its Control With Surface Treatment. Frontiers in Bioengineering and Biotechnology, 2019, 7, 170.	2.0	191
46	<p>The relative effects of Ca and Mg ions on MSC osteogenesis in the surface modification of microrough Ti implants</p>. International Journal of Nanomedicine, 2019, Volume 14, 5697-5711.	3.3	38
47	Three-dimensional quantification of magnetic resonance imaging artifacts associated with shape factors. Dental Materials Journal, 2019, 38, 638-645.	0.8	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.	1.2	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.	1.5	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.	1.5	20
52	Surface characterization of commercially available yttria-stabilized tetragonal zirconia polycrystalline in water and Hanks's™ solution using X-ray photoelectron spectroscopy. Dental Materials Journal, 2019, 38, 496-504.	0.8	4
53	Effect of Post-Sintering Conditions on the Mechanical Properties of a New Co's 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.	2.6	38

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55	Effect of heat treatment on the microstructure and fatigue strength of CoCrMo alloys fabricated by selective laser melting. <i>Materials Letters</i> , 2019, 245, 53-56.	1.3	38
56	Guest editorial—40th anniversary of Japanese Society for Biomaterials. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 916-916.	2.1	1
57	The Effects of Various Metallic Surfaces on Cellular and Bacterial Adhesion. <i>Metals</i> , 2019, 9, 1145.	1.0	22
58	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.	2.6	267
59	Enhanced biocompatibility of a Ni—Cr alloy prepared by selective laser melting: a preliminary in vitro study. <i>Journal of Materials Research and Technology</i> , 2019, 8, 1587-1592.	2.6	12
60	Effects of Autogenous Bone Graft on Mass and Quality of Trabecular Bone in Ti—6Al—4V Spinal Cage Fabricated with Electron Beam Melting. <i>Materials Transactions</i> , 2019, 60, 144-148.	0.4	2
61	Production of Superplastic Ti—6Al—7Nb Alloy Using High-Pressure Sliding Process. <i>Materials Transactions</i> , 2019, 60, 1785-1791.	0.4	7
62	<i>In Vivo</i> Periodontium Formation Around Titanium Implants Using Periodontal Ligament Cell Sheet. <i>Tissue Engineering - Part A</i> , 2018, 24, 1273-1282.	1.6	37
63	Effect of heat-treatment temperature on microstructures and mechanical properties of Co—Cr—Mo alloys fabricated by selective laser melting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 726, 21-31.	2.6	126
64	Evaluation of selected mechanical properties of NiTi rotary glide path files manufactured from controlled memory wires. <i>Dental Materials Journal</i> , 2018, 37, 549-554.	0.8	16
65	Surface changes of yttria—stabilized zirconia in water and Hanks solution characterized using XPS. <i>Surface and Interface Analysis</i> , 2018, 50, 587-591.	0.8	8
66	Evaluation of corrosion resistance of implant—use Ti—Zr binary alloys with a range of compositions. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018, 106, 73-79.	1.6	48
67	Inverse response of osteoblasts and fibroblasts to growth on carbon—deposited titanium surfaces. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018, 106, 1869-1877.	1.6	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. <i>Bone</i> , 2018, 108, 25-33.	1.4	24
69	Effect of adding support structures for overhanging part on fatigue strength in selective laser melting. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 78, 1-9.	1.5	41
70	Surface Treatment of Biomaterials. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2018, 69, 318-322.	0.1	1
71	Production of superplastic Ti—6Al—7Nb alloy using high-pressure sliding process. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2018, 68, 9-15.	0.1	1
72	Heterogeneous microstructures and corrosion resistance of biomedical Co-Cr-Mo alloy fabricated by electron beam melting (EBM). <i>Additive Manufacturing</i> , 2018, 24, 103-114.	1.7	32

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73	Effect of incorporation of surface pre-reacted glass ionomer filler in tissue conditioner on the inhibition of <i>Candida albicans</i> adhesion. Dental Materials Journal, 2018, 37, 453-459.	0.8	9
74	Adhesion and differentiation behaviors of mesenchymal stem cells on titanium with micrometer and nanometer scale grid patterns produced by femtosecond laser irradiation. Journal of Biomedical Materials Research - Part A, 2018, 106, 2735-2743.	2.1	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.	0.9	24
76	Effects of Cold Swaging on Mechanical Properties and Magnetic Susceptibility of the Zr-1Mo Alloy. Metals, 2018, 8, 454.	1.0	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.	1.5	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.	2.1	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.	2.8	19
81	Focus on endeavor for creation of materials-tissues intelligent interface. Science and Technology of Advanced Materials, 2017, 18, 549-549.	2.8	2
82	Magnetic susceptibility, artifact volume in MRI, and tensile properties of swaged Zr-Ag composites for biomedical applications. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 66, 152-158.	1.5	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.	0.5	21
84	Fabrication and Characterization of a Low Magnetic Zr-1Mo Alloy by Powder Bed Fusion Using a Fiber Laser. Metals, 2017, 7, 501.	1.0	18
85	Inhibitory Effect of Zirconium Coating to Bone Bonding of Titanium Implants in Rat Femur. Materials Transactions, 2017, 58, 113-117.	0.4	8
86	Surface treatment and modification of metals to add biofunction. Dental Materials Journal, 2017, 36, 533-538.	0.8	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	Metal-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.	0.0	1
90	Special Issue on Advances in Biomedical Materials Science and Technology. Materials Transactions, 2016, 57, 1985-1985.	0.4	0

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91	Effect of Heat Treatment and the Fabrication Process on Mechanical Properties of Zr-14Nb Alloy. Materials Transactions, 2016, 57, 2060-2064.	0.4	6
92	Electrochemical Surface Treatment of a β -titanium Alloy to Realize an Antibacterial Property and Bioactivity. Metals, 2016, 6, 76.	1.0	19
93	Surface Composition and Corrosion Resistance of Co-Cr Alloys Containing High Chromium. Materials Transactions, 2016, 57, 2033-2040.	0.4	19
94	Micro Arc Oxidation of Ti-15Zr-7.5Mo Alloy. Materials Transactions, 2016, 57, 2015-2019.	0.4	12
95	Phospholipid polymer electrodeposited on titanium inhibits platelet adhesion. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2016, 104, 554-560.	1.6	8
96	Differences in the calcification of preosteoblast cultured on sputter-deposited titanium, zirconium, and gold. Journal of Biomedical Materials Research - Part A, 2016, 104, 639-651.	2.1	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.	0.6	28
98	Effect of Ta content on the magnetic susceptibility of Zr-Ta binary alloys preventing artefacts for MRI. Advances in Materials and Processing Technologies, 2016, 2, 606-614.	0.8	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.	0.8	15
100	Fatigue strength of Co-Cr-Mo alloy clasps prepared by selective laser melting. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 59, 446-458.	1.5	124
101	Evaluation of the shear bond strength of dental porcelain and the low magnetic susceptibility Zr-14Nb alloy. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 53, 131-141.	1.5	12
102	Cytocompatibility of Ti-6Al-7Nb through High-Pressure Torsion Processing. Materials Transactions, 2016, 57, 2020-2025.	0.4	11
103	Reaction of calcium and phosphate ions with titanium, zirconium, niobium, and tantalum. Surface and Interface Analysis, 2015, 47, 1148-1154.	0.8	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.	0.7	21
105	Mechanical properties of orthodontic wires made of super engineering plastic. Dental Materials Journal, 2015, 34, 114-119.	0.8	43
106	Microstructure and Mechanical Properties of Large-Scale Ingots of the Zr-1Mo Alloy. Materials Transactions, 2015, 56, 1544-1548.	0.4	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.	0.6	3

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109	Calcification of MC3T3-E1 cells on titanium and zirconium. Dental Materials Journal, 2015, 34, 713-718.	0.8	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.	3.8	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.	3.1	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.	2.6	35
115	Biofunctionalization of Metals with Polymers. Springer Series in Biomaterials Science and Engineering, 2015, , 127-142.	0.7	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.	1.2	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.	0.8	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.	0.6	9
121	Formation of white oxide layer on Zr-14Nb alloy using thermal treatment. Dental Materials Journal, 2014, 33, 490-498.	0.8	7
122	Evaluation of biofilm formation in the presence of saliva on poly(ethylene glycol)deposited titanium. Dental Materials Journal, 2014, 33, 638-647.	0.8	12
123	Surface characteristics and castability of Zr-14Nb alloy dental castings. Dental Materials Journal, 2014, 33, 631-637.	0.8	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.	0.8	3

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127	Microstructures and Mechanical Properties of Ti-6Al-7Nb Processed by High-pressure Torsion. <i>Procedia Engineering</i> , 2014, 81, 1523-1528.	1.2	21
128	A review of surface modification of a novel low modulus β -type titanium alloy for biomedical applications. <i>International Journal of Surface Science and Engineering</i> , 2014, 8, 138.	0.4	8
129	Anodic oxidation of a Co-Ni-Cr-Mo alloy and its inhibitory effect on platelet activation. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2014, 102, 659-666.	1.6	6
130	Endodontic instruments after torsional failure: Nanoindentation test. <i>Scanning</i> , 2014, 36, 437-443.	0.7	9
131	Bone healing with oxytocin-loaded microporous β -TCP bone substitute in ectopic bone formation model and critical-sized osseous defect of rat. <i>Journal of Clinical Periodontology</i> , 2014, 41, 181-190.	2.3	16
132	Adhesive strength of medical polymer on anodic oxide nanostructures fabricated on biomedical β -type titanium alloy. <i>Materials Science and Engineering C</i> , 2014, 36, 244-251.	3.8	17
133	Cell spreading on titanium dioxide film formed and modified with aerosol beam and femtosecond laser. <i>Applied Surface Science</i> , 2014, 288, 649-653.	3.1	41
134	Correlation between cyclic fatigue and the bending properties of nickel titanium endodontic instruments. <i>Dental Materials Journal</i> , 2014, 33, 539-544.	0.8	9
135	Periodic Nanostructures Formation for Creating New Functional Biomaterials. , 2014, , .		0
136	Effect of cold rolling on the magnetic susceptibility of Zr-14Nb alloy. <i>Acta Biomaterialia</i> , 2013, 9, 5795-5801.	4.1	37
137	Three-dimensional quantification of susceptibility artifacts from various metals in magnetic resonance images. <i>Acta Biomaterialia</i> , 2013, 9, 8433-8439.	4.1	55
138	Microstructures and mechanical properties of Co-29Cr-6Mo alloy fabricated by selective laser melting process for dental applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013, 21, 67-76.	1.5	381
139	Improvement of adhesive strength of segmented polyurethane on Ti-29Nb-13Ta-4.6Zr alloy through H_2O_2 treatment for biomedical applications. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2013, 101B, 776-783.	1.6	7
140	Cooling Rate and Composition Dependences of Magnetic Susceptibility for $Zr_{54-x}Cu_{30+x}Al_8Ag_8$ Glassy Alloys. <i>Materials Transactions</i> , 2013, 54, 1356-1360.		2
141	Ti Particles Dispersed Ti-Based Metallic Glass Matrix Composite Prepared by Spark Plasma Sintering. <i>Materials Transactions</i> , 2013, 54, 1335-1338.	0.4	9
142	Accelerated Calcium Phosphate Formation on Titanium Utilizing Galvanic Current between Titanium and Gold in Hanks's Solution. <i>Materials Transactions</i> , 2013, 54, 149-155.	0.4	1
143	Influence of electrolytic treatment time on the corrosion resistance of Ni-Ti orthodontic wire. <i>Dental Materials Journal</i> , 2013, 32, 305-310.	0.8	7
144	Metal-Polymer Composite Biomaterials. , 2013, , 343-376.		3

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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.	2.8	94
147	Effect of sandblasting on the mechanical properties of Y-TZP zirconia. Bio-Medical Materials and Engineering, 2012, 22, 383-398.	0.4	12
148	Effects of chromium and nitrogen content on the microstructures and mechanical properties of as-cast Co-Cr-Mo alloys for dental applications. Acta Biomaterialia, 2012, 8, 2856-2862.	4.1	95
149	Characterization of air-formed surface oxide film on a Co-Ni-Cr-Mo alloy (MP35N) and its change in Hanks™ solution. Applied Surface Science, 2012, 258, 5490-5498.	3.1	32
150	Micro-arc oxidation treatment to improve the hard-tissue compatibility of Ti-29Nb-13Ta-4.6Zr alloy. Applied Surface Science, 2012, 262, 34-38.	3.1	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.	3.1	0
152	Degradation of Dental Implants. , 2012, , 57-78.		2
153	Electrically polarized micro-arc oxidized TiO ₂ coatings with enhanced surface hydrophilicity. Acta Biomaterialia, 2012, 8, 860-865.	4.1	53
154	Nano-indentation testing of new and fractured nickel-titanium endodontic instruments. International Endodontic Journal, 2012, 45, 462-468.	2.3	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.	2.2	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.	0.1	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.	0.8	15
159	A comprehensive review of techniques for biofunctionalization of titanium. Journal of Periodontal and Implant Science, 2011, 41, 263.	0.9	151
160	Effects of pH, Potential, and Deposition Time on the Durability of Collagen Electrodeposited to Titanium. Materials Transactions, 2011, 52, 81-89.	0.4	10
161	Biocompatibility control of recombinant collagen by ion beam modification. Surface and Coatings Technology, 2011, 206, 911-915.	2.2	2
162	Ion beam modification of ePTFE for improving the blood compatibility. Surface and Coatings Technology, 2011, 206, 905-910.	2.2	3

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163	Preparation of novel polymer-metal oxide nanocomposites with nanophase separated hierarchical structure. <i>Bulletin of Materials Science</i> , 2011, 34, 1289-1296.	0.8	6
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