Mitsuo Niinomi

List of Publications by Year
in descending order

350 papers	16,093 citations	38742 50 h-index	18647 119 g-index
368 all docs	368 docs citations	368 times ranked	8481 citing authors

#	Article	IF	Citations
1	Facile formation with HA/Srâ€"GO-based composite coatings via green hydrothermal treatment on Î²-type TiNbTaZr alloys: Morphological and electrochemical insights. Journal of Materials Research, 2022, 37, 2512-2524.	2.6	11
2	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
3	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
4	Antibacterial Properties and Biocompatibility of Hydroxyapatite Coating Doped with Various Cu Contents on Titanium. Materials Transactions, 2022, 63, 1072-1079.	1.2	3
5	Coâ€"Cr-based alloys. , 2021, , 103-126.		1
6	Further development of mechanically biocompatible metallic biomaterials. Materia Japan, 2021, 60, 273-280.	0.1	0
7	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
8	Hydroxyapatite coating on titanium alloy TNTZ for increasing osseointegration and reducing inflammatory response in vivo on Rattus norvegicus Wistar rats. Ceramics International, 2021, 47, 16094-16100.	4.8	22
9	Antibacterial Cu-Doped Calcium Phosphate Coating on Pure Titanium. Materials Transactions, 2021, 62, 1052-1055.	1.2	4
10	Exfoliation Resistance, Microstructure, and Oxide Formation Mechanisms of the White Oxide Layer on CP Ti and Tiâ€"Nbâ€"Taâ€"Zr Alloys. Materials, 2021, 14, 6599.	2.9	1
11	Phenomenological law and process of Î± phase evolution in a Î²-type bio-Titanium alloy TNTZ during aging. Materials Characterization, 2021, 182, 111576.	4.4	1
12	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
13	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
14	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
15	Relationship between Microstructure and Fatigue Properties of Forged Tiâ€"5Alâ€"2Snâ€"2Zrâ€"4Moâ€"4Cr for Aircraft Applications. Materials Transactions, 2020, 61, 2017-2024.	1.2	2
16	Application of atmospheric-pressure plasma treatment to coat Ti-alloy orthodontic wire with white oxide layer. Japanese Journal of Applied Physics, 2020, 59, SAAC09.	1.5	3
17	Relationship between Microstructure and Fatigue Properties of Forged Ti-5Al-2Sn-2Zr-4Mo-4Cr for Aircraft Applications. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2020, 84, 200-207.	0.4	0
18	Factors Leading to Low Elastic Modulus and Current Status of Medically Applied Research of Î²-type Ti-Nb-based Alloys. Materia Japan, 2020, 59, 588-593.	0.1	2

#	Article	IF	Citations
19	Titanium Alloys. , 2019, , 213-224.		19
20	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
21	Low-Youngâ€™s-Modulus Materials for Biomedical Applications. , 2019, , 435-457.		0
22	Functional Materials Developed in IMR. , 2019, , 89-103.		0
23	The plasma electrolytic oxidation (PEO) coatings to enhance in-vitro corrosion resistance of Tiâ€"29Nbâ€"13Taâ€"4.6Zr alloys: The combined effect of duty cycle and the deposition frequency. Surface and Coatings Technology, 2019, 374, 345-354.	4.8	40
24	Ti-Based Biomedical Alloys. , 2019, , 61-76.		2
25	Fatigue failure of metallic biomaterials. , 2019, , 153-188.		3
26	Development of low-Youngâ€™s modulus Tiâ€"Nb-based alloys with Cr addition. Journal of Materials Science, 2019, 54, 8675-8683.	3.7	22
27	Design and development of metallic biomaterials with biological and mechanical biocompatibility. Journal of Biomedical Materials Research - Part A, 2019, 107, 944-954.	4.0	58
28	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
29	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
30	High-cycle fatigue properties of an easily hot-workable (Î±+Î²)-type titanium alloy butt joint prepared by friction stir welding below Î² transus temperature. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 742, 553-563.	5.6	8
31	Development of Strengthening and Toughening of Î²-type Titanium Alloys. Materia Japan, 2019, 58, 193-200.	0.1	1
32	Suppression of Grain Boundary Î± Formation by Addition of Silicon in a Near-Î² Titanium Alloy. Materials Transactions, 2019, 60, 1749-1754.	1.2	0
33	Fully Depleted Tiâ€"Nbâ€"Taâ€"Zrâ€"O Nanotubes: Interfacial Charge Dynamics and Solar Hydrogen Production. ACS Applied Materials & Interfaces, 2018, 10, 22997-23008.	8.0	70
34	Mechanical Performance of Titanium Alloys with Added Lightweight Interstitial Element for Biomedical Applications. Materials Science Forum, 2018, 941, 2458-2464.	0.3	0
35	Relationship between Microstructure and Mechanical Strength of Dental Semiprecious Alloys Subjected to Solution Treatment. Materials Science Forum, 2018, 941, 1105-1110.	0.3	0
36	Low Youngâ€™s Modulus Tiâ€"Nbâ€"O with High Strength and Good Plasticity. Materials Transactions, 2018, 59, 858-860.	1.2	9

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37	Synthesis of biphasic calcium phosphate (BCP) coatings on Î²â€'type titanium alloys reinforced with rutile-TiO2 compounds: adhesion resistance and in-vitro corrosion. Journal of Sol-Gel Science and Technology, 2018, 87, 713-724.	2.4	33
38	Recent Progress in Research and Development of Metallic Structural Biomaterials with Mainly Focusing on Mechanical Biocompatibility. Materials Transactions, 2018, 59, 1-13.	1.2	23
39	In vivo osteoconductivity of surface modified Ti-29Nb-13Ta-4.6Zr alloy with low dissolution of toxic trace elements. PLoS ONE, 2018, 13, e0189967.	2.5	6
40	Abnormal Deformation Behavior of Oxygen-Modified Î²-Type Ti-29Nb-13Ta-4.6Zr Alloys for Biomedical Applications. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 139-149.	2.2	27
41	Effects of Mo Addition on the Mechanical Properties and Microstructures of Ti-Mn Alloys Fabricated by Metal Injection Molding for Biomedical Applications. Materials Transactions, 2017, 58, 271-279.	1.2	14
42	Change in Mechanical Properties of Biomechanical Tiâ€"12Cr Subjected to Heat Treatment and Surface Modification Processing. Materials Transactions, 2017, 58, 951-957.	1.2	0
43	Improved fatigue properties with maintaining low Young's modulus achieved in biomedical beta-type titanium alloy by oxygen addition. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 704, 10-17.	5.6	44
44	Development and Performance of Low-Cost Beta-Type Ti-Based Alloys for Biomedical Applications Using Mn Additions. , 2017, , 229-245.		0
45	Low-Modulus Ti Alloys Suitable for Rods in Spinal Fixation Devices. , 2017, , 3-21.		2
46	Grain Refinement Mechanism and Evolution of Dislocation Structure of Coâ€"Crâ€"Mo Alloy Subjected to High-Pressure Torsion. Materials Transactions, 2016, 57, 1109-1118.	1.2	15
47	Electrochemical Surface Treatment of a Î²-titanium Alloy to Realize an Antibacterial Property and Bioactivity. Metals, 2016, 6, 76.	2.3	19
48	Osteoanabolic Implant Materials for Orthopedic Treatment. Advanced Healthcare Materials, 2016, 5, 1740-1752.	7.6	29
49	Influence of oxygen on omega phase stability in the Ti-29Nb-13Ta-4.6Zr alloy. Scripta Materialia, 2016, 123, 144-148.	5.2	57
50	Change in Mechanical Properties of Biomechanical Ti-12Cr Subjected to Heat Treatment and Surface Modification Processing. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2016, 80, 764-771.	0.4	0
51	Osteoanabolic Implants: Osteoanabolic Implant Materials for Orthopedic Treatment (Adv. Healthcare) Tj ETQq1 1 0.784314 rgBT /Overl	7.6	2
52	Inhibited grain growth in hydroxyapatiteâ€"graphene nanocomposites during high temperature treatment and their enhanced mechanical properties. Ceramics International, 2016, 42, 11248-11255.	4.8	35
53	Enhancing the durability of spinal implant fixture applications made of Ti-6Al-4V ELI by means of cavitation peening. International Journal of Fatigue, 2016, 92, 360-367.	5.7	8
54	Corrosion Behavior of MgZnCa Bulk Amorphous Alloys Fabricated by Spark Plasma Sintering. Acta Metallurgica Sinica (English Letters), 2016, 29, 793-799.	2.9	17

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55	Enhancement of Mechanical Biocompatibility of Titanium Alloys by Deformation-Induced Transformation. Materials Science Forum, 2016, 879, 125-130.	0.3	1
56	Improvement of microstructure, mechanical and corrosion properties of biomedical Ti-Mn alloys by Mo addition. Materials and Design, 2016, 110, 414-424.	7.0	54
57	Current Situation and Challenges and Prospects of the Design and Manufacturing Process of the Spinal Implants. Materia Japan, 2016, 55, 142-146.	0.1	1
58	Optimization of Microstructure and Mechanical Properties of Coâ€“Crâ€“Mo Alloys by High-Pressure Torsion and Subsequent Short Annealing. Materials Transactions, 2016, 57, 1887-1896.	1.2	10
59	Athermal and deformation-induced Ï‰-phase transformations in biomedical beta-type alloy Tiâ€“9Crâ€“0.2O. Acta Materialia, 2016, 106, 162-170.	7.9	56
60	Corrosion behavior, mechanical properties and cell cytotoxity of Zr-based bulk metallic glasses. Intermetallics, 2016, 72, 69-75.	3.9	21
61	Microstructural evolution and mechanical properties of biomedical Coâ€“Crâ€“Mo alloy subjected to high-pressure torsion. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 59, 226-235.	3.1	26
62	Biomedical titanium alloys with Youngâ€™s moduli close to that of cortical bone. International Journal of Energy Production and Management, 2016, 3, 173-185.	3.7	241
63	Fabrication of low-cost beta-type Tiâ€“Mn alloys for biomedical applications by metal injection molding process and their mechanical properties. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 59, 497-507.	3.1	71
64	Developing biomedical nano-grained Î²-type titanium alloys using high pressure torsion for improved cell adherence. RSC Advances, 2016, 6, 7426-7430.	3.6	25
65	Improvement in mechanical strength of low-cost Î²-type Tiâ€“Mn alloys fabricated by metal injection molding through cold rolling. Journal of Alloys and Compounds, 2016, 664, 272-283.	5.5	42
66	Beta-Type Titanium Alloys for use as Rods in Spinal Fixation Devices. , 2016, , 215-221.		1
67	Change in Mechanical Strength and Bone Contactability of Biomedical Titanium Alloy with Low Young’s Modulus Subjected to Fine Particle Bombarding Process. Materials Transactions, 2015, 56, 218-223.	1.2	3
68	Differences in Wear Behaviors at Sliding Contacts for β-Type and (α +) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 T 56, 317-326.	1.2	15
69	Evaluation of Adhesion of Hydroxyapatite Films Fabricated on Biomedical β-Type Titanium Alloy after Immersion in Ringer’s Solution. Materials Transactions, 2015, 56, 1703-1710.	1.2	1
70	Fatigue characteristics of a biomedical Î²-type titanium alloy with titanium boride. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 640, 154-164.	5.6	26
71	Phase transformation and its effect on mechanical characteristics in warm-deformed Ti-29Nb-13Ta-4.6Zr alloy. Metals and Materials International, 2015, 21, 202-207.	3.4	15
72	Effect of heterogeneous precipitation caused by segregation of substitutional and interstitial elements on mechanical properties of a Î²-type Ti alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 643, 109-118.	5.6	10

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73	Î²-Type titanium alloys for spinal fixation surgery with high Youngâ€™s modulus variability and good mechanical properties. Acta Biomaterialia, 2015, 24, 361-369.	8.3	41
74	Titanium Alloys for Biomedical Applications. Springer Series in Biomaterials Science and Engineering, 2015, , 179-213.	1.0	47
75	Wear transition of solid-solution-strengthened Tiâ€“29Nbâ€“13Taâ€“4.6Zr alloys by interstitial oxygen for biomedical applications. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 51, 398-408.	3.1	17
76	In vitro biocompatibility of Tiâ€“Mg alloys fabricated by direct current magnetron sputtering. Materials Science and Engineering C, 2015, 54, 1-7.	7.3	16
77	Microstructures, mechanical properties and cytotoxicity of low cost beta Tiâ€“Mn alloys for biomedical applications. Acta Biomaterialia, 2015, 26, 366-376.	8.3	80
78	Mechanical properties and cytocompatibility of oxygen-modified Î²-type Tiâ€“Cr alloys for spinal fixation devices. Acta Biomaterialia, 2015, 12, 352-361.	8.3	43
79	Predominant factor determining wear properties of Î²-type and (Î±+Î²)-type titanium alloys in metal-to-metal contact for biomedical applications. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 41, 208-220.	3.1	47
80	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
81	Color tone and interfacial microstructure of white oxide layer on commercially pure Ti and Tiâ€“Nbâ€“Taâ€“Zr alloys. Japanese Journal of Applied Physics, 2014, 53, 11RD02.	1.5	14
82	Precipitation of Î²â€² phase and hardening in dental-casting Agâ€“20Pdâ€“12Auâ€“14.5Cu alloys subjected to aging treatments. Materials Science and Engineering C, 2014, 36, 329-335.	7.3	2
83	Hardening behavior after high-temperature solution treatment of Agâ€“20Pdâ€“12Auâ€“xCu alloys with different Cu contents for dental prosthetic restorations. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 35, 123-131.	3.1	3
84	Reduction in anisotropy of mechanical properties of coilable (Î±+Î²)-type titanium alloy thin sheet through simple heat treatment for use in next-generation aircraft applications. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 594, 103-110.	5.6	18
85	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
86	Effects of micro- and nano-scale wave-like structures on fatigue strength of a beta-type titanium alloy developed as a biomaterial. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 29, 393-402.	3.1	21
87	Microstructure and fatigue behaviors of a biomedical Tiâ€“Nbâ€“Taâ€“Zr alloy with trace CeO 2 additions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 619, 112-118.	5.6	16
88	Deformation-induced changeable Young's modulus with high strength in Î²-type Tiâ€“Crâ€“O alloys for spinal fixture. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 30, 205-213.	3.1	43
89	Contribution of Î²â€² and Î² precipitates to hardening in as-solutionized Agâ€“20Pdâ€“12Auâ€“14.5Cu alloys for dental prosthesis applications. Materials Science and Engineering C, 2014, 37, 204-209.	7.3	5
90	Changeable Youngâ€™s modulus with large elongation-to-failure in Î²-type titanium alloys for spinal fixation applications. Scripta Materialia, 2014, 82, 29-32.	5.2	59

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91	Bending springback behavior related to deformation-induced phase transformations in Tiâ€“12Cr and Tiâ€“29Nbâ€“13Taâ€“4.6Zr alloys for spinal fixation applications. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 34, 66-74.	3.1	13
92	Developments of titanium alloys with high mechanical biocompatibility for biomedical applications. Keikinzoku/Journal of Japan Institute of Light Metals, 2014, 64, 374-381.	0.4	1
93	Nanostructure Of Î²-type Titanium Alloys Through Severe Plastic Deformation. Advanced Materials Letters, 2014, 5, 378-383.	0.6	10
94	Endurance of Low-Modulus Î²-Type Titanium Alloys for Spinal Fixation. , 2014, , 205-212.		0
95	Enhancement of adhesive strength of hydroxyapatite films on Tiâ€“29Nbâ€“13Taâ€“4.6Zr by surface morphology control. Journal of the Mechanical Behavior of Biomedical Materials, 2013, 18, 232-239.	3.1	19
96	Deformation-induced Ï‰ phase in modified Tiâ€“29Nbâ€“13Taâ€“4.6Zr alloy by Cr addition. Acta Biomaterialia, 2013, 9, 8027-8035.	8.3	49
97	Experimental application of pulsed laserâ€induced water jet for endoscopic submucosal dissection: Mechanical investigation and preliminary experiment in swine. Digestive Endoscopy, 2013, 25, 255-263.	2.3	17
98	Biocompatibility of Ti-alloys for long-term implantation. Journal of the Mechanical Behavior of Biomedical Materials, 2013, 20, 407-415.	3.1	664
99	Phase Constitution and Heat Treatment Behavior of Low Cost Ti-Mn System Alloys. Key Engineering Materials, 2013, 551, 217-222.	0.4	1
100	Comparison of Mechanical Properties of a Biomedical Î² Titanium Alloy Added with Pure Rare Earth and Rare Earth Oxides. Materials Science Forum, 2013, 750, 147-151.	0.3	0
101	White-Ceramic Conversion on Ti-29Nb-13Ta-4.6Zr Surface for Dental Applications. Advances in Materials Science and Engineering, 2013, 2013, 1-9.	1.8	10
102	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
103	Effects of Alloying Elements on the HAp Formability on Ti Alloys after Alkali Treatment. Materials Transactions, 2013, 54, 1295-1301.	1.2	3
104	Mechanical Properties and Biocompatibility of Low Cost-Type Ti-Mn System Binary Alloys for Biomedical Applications. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2013, 77, 253-258.	0.4	9
105	Development of Titanium Alloys with High Mechanical Biocompatibility with Focusing on Controlling Elastic Modulus. Materia Japan, 2013, 52, 219-228.	0.1	8
106	Effect of Oxide Particles Formed through Addition of Rare-Earth Metal on Mechanical Properties of Biomedical β-Type Titanium Alloy. Materials Transactions, 2013, 54, 1361-1367.	1.2	6
107	Mechanical Properties of Ti-12Cr Alloy with Self-Tunable Youngâ€™s Modulus for Use in Spinal Fixation Devices. , 2013, , 1551-1556.		0
108	Young's Modulus Changeable Î²-Type Binary Ti-Cr Alloys for Spinal Fixation Applications. Key Engineering Materials, 2012, 508, 117-123.	0.4	3

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109	Effect of Deformation-Induced ω Phase on the Mechanical Properties of Metastable β-Type Ti–V Alloys. Materials Transactions, 2012, 53, 1379-1384.	1.2	28
110	Development of New Titanium-Molybdenum Alloys with Changeable Young's Modulus for Spinal Fixture Devices. Journal of Solid Mechanics and Materials Engineering, 2012, 6, 695-700.	0.5	1
111	Specific characteristics of mechanically and biologically compatible titanium alloy rods for use in spinal fixation applications. Materials Letters, 2012, 86, 178-181.	2.6	14
112	Mechanism of unique hardening of dental Agâ€“Pdâ€“Auâ€“Cu alloys in relation with constitutional phases. Journal of Alloys and Compounds, 2012, 519, 15-24.	5.5	16
113	Development of new metallic alloys for biomedical applications. Acta Biomaterialia, 2012, 8, 3888-3903.	8.3	1,249
114	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
115	Difference of Microstructure and Fatigue Properties between Forged and Rolled Ti-6Al-4V. Key Engineering Materials, 2012, 508, 161-165.	0.4	2
116	PHOSPHATE GLASSES AND GLASS-CERAMICS FOR BIOMEDICAL APPLICATIONS. Phosphorus Research Bulletin, 2012, 26, 8-15.	0.6	25
117	Beta type Tiâ€“Mo alloys with changeable Youngâ€™s modulus for spinal fixation applications. Acta Biomaterialia, 2012, 8, 1990-1997.	8.3	172
118	Optimization of Cr content of metastable Î²-type Tiâ€“Cr alloys with changeable Youngâ€™s modulus for spinal fixation applications. Acta Biomaterialia, 2012, 8, 2392-2400.	8.3	107
119	Effect of Zr on super-elasticity and mechanical properties of Tiâ€“24at% Nbâ€“(0, 2, 4)at% Zr alloy subjected to aging treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 536, 197-206.	5.6	85
120	Microstructural factors determining mechanical properties of laser-welded Tiâ€“4.5Alâ€“2.5Crâ€“1.2Feâ€“0.1C alloy for use in next-generation aircraft. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 550, 55-65.	5.6	19
121	Formation of L10-type ordered Î²â€² phase in as-solutionized dental Agâ€“Pdâ€“Auâ€“Cu alloys and hardening behavior. Materials Science and Engineering C, 2012, 32, 503-509.	7.3	9
122	Improvement in fatigue strength while keeping low Young's modulus of a Î²-type titanium alloy through yttrium oxide dispersion. Materials Science and Engineering C, 2012, 32, 542-549.	7.3	28
123	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
124	Development of thermo-mechanical processing for fabricating highly durable <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si5.gif" display="inline" overflow="scroll"><mml:mstyle mathvariant="bold"><mml:mi>Î²</mml:mi></mml:mstyle></mml:math>-type Tiâ€“Nbâ€“Taâ€“Zr rod for use in spinal fixation devices. Journal of the Mechanical Behavior of Biomedical Materials, 2012, 9, 207-216.	3.1	45
125	Heterogeneous structure and mechanical hardness of biomedical <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si16.gif" display="inline" overflow="scroll"><mml:mi>Î²</mml:mi></mml:math>-type Tiâ€“29Nbâ€“13Taâ€“4.6Zr subjected to high-pressure torsion. Journal of the Mechanical Behavior of Biomedical Materials, 2012, 10, 235-245.	3.1	53
126	Improvement in Fatigue Strength of Biomedical Î²-type Tiâ€“Nbâ€“Taâ€“Zr Alloy While Maintaining Low Youngâ€™s Modulus Through Optimizing Ï‰-Phase Precipitation. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 294-302.	2.2	81

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127	Microstructures and Mechanical Properties of Ternary Ti^|^ndash;10Cr^|^ndash;(V, Fe, Mo) Alloys with Self-tunable Young's Moduli for Biomedical Applications. ISIJ International, 2012, 52, 1655-1660.	1.4	3
128	Titanium and Its Alloys. Journal of the Japan Society for Technology of Plasticity, 2012, 53, 983-988.	0.3	0
129	High mechanical functionalization of Tiâ€"Alâ€"Crâ€"Feâ€"C system alloy for next-generation aircraft applications through microstructural control. Keikinzoku/Journal of Japan Institute of Light Metals, 2011, 61, 705-710.	0.4	5
130	Fabrication of hydroxyapatite film on Tiâ€"29%Nbâ€"13%Taâ€"4.6%Zr using a MOCVD technique. Keikinzoku/Journal of Japan Institute of Light Metals, 2011, 61, 24-29.	0.4	0
131	Improvement in Fatigue Strength of Biomedical β-Type Ti–Nb–Ta–Zr Alloy while Maintaining Low Young’s Modulus through Optimizing ω-Phase Precipitation. Materials Transactions, 2011, , .	1.2	2
132	Heterogeneous Î± Phase Precipitation and Peculiar Aging Strengthening in Biomedical Î²-Type Ti-Nb-Ta-Zr Alloy Having Vortical Structure. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2011, 75, 198-206.	0.4	8
133	Creation of Functionality by Ubiquitous Elements in Titanium Alloys. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2011, 75, 21-28.	0.4	24
134	Mechanical Properties and Biocompatibilities of Zr-Nb System Alloys with Different Nb Contents for Biomedical Applications. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2011, 75, 445-451.	0.4	16
135	Development of high Zr-containing Ti-based alloys with low Young's modulus for use in removable implants. Materials Science and Engineering C, 2011, 31, 1436-1444.	7.3	113
136	Mechanical and biodegradable properties of porous titanium filled with poly-L-lactic acid by modified in situ polymerization technique. Journal of the Mechanical Behavior of Biomedical Materials, 2011, 4, 1206-1218.	3.1	19
137	Relationship between various deformation-induced products and mechanical properties in metastable Tiâ€"30Zrâ€"Mo alloys for biomedical applications. Journal of the Mechanical Behavior of Biomedical Materials, 2011, 4, 2009-2016.	3.1	38
138	Self-adjustment of Young's modulus in biomedical titanium alloys during orthopaedic operation. Materials Letters, 2011, 65, 688-690.	2.6	117
139	Improvements in the Superelasticity and Change in Deformation Mode of Î²-Type TiNb24Zr2 Alloys Caused by Aging Treatments. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 2843-2849.	2.2	23
140	Microstructures and mechanical properties of metastable Tiâ€"30Zrâ€"(Cr, Mo) alloys with changeable Youngâ€™s modulus for spinal fixation applications. Acta Biomaterialia, 2011, 7, 3230-3236.	8.3	119
141	Effects of TiB on the mechanical properties of Tiâ€"29Nbâ€"13Taâ€"4.6Zr alloy for use in biomedical applications. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 5600-5609.	5.6	20
142	Relationship between microstructures and mechanical properties of Tiâ€"4.5%Alâ€"2%Moâ€"1.6%Vâ€"0.5%Feâ€"0.3%Siâ€"0.03%C for next-generation aircraft applications. Keikinzoku/Journal of Japan Institute of Light Metals, 2011, 61, 711-717.	0.4	1
143	Relationship between Unique Hardening Behavior and Microstructure of Dental Silver Alloy Subjected to Solution Treatment. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2010, 74, 337-344.	0.4	12
144	Structure and Mechanical Properties of Melt-Extracted Beta-Ti-Type Ti-Nb-Ta-Zr (TNTZ) Wire with High Bending Ductility. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2010, 74, 515-519.	0.4	0

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