

Mitsuo Niinomi

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

358
papers

13,184
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46
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110
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368
ext. papers

14,520
ext. citations

2.4
avg, IF

7.1
L-index

#	Paper	IF	Citations
358	Mechanical properties of biomedical titanium alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1998 , 243, 231-236	5.3	1370
357	Recent metallic materials for biomedical applications. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2002 , 33, 477-486	2.3	994
356	Development of new metallic alloys for biomedical applications. <i>Acta Biomaterialia</i> , 2012 , 8, 3888-903	10.8	974
355	Design and mechanical properties of new α -type titanium alloys for implant materials. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1998 , 243, 244-249	5.3	903
354	Mechanical biocompatibilities of titanium alloys for biomedical applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2008 , 1, 30-42	4.1	829
353	Recent research and development in titanium alloys for biomedical applications and healthcare goods. <i>Science and Technology of Advanced Materials</i> , 2003 , 4, 445-454	7.1	644
352	Biocompatibility of Ti-alloys for long-term implantation. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013 , 20, 407-15	4.1	492
351	Fatigue performance and cyto-toxicity of low rigidity titanium alloy, Ti-29Nb-13Ta-4.6Zr. <i>Biomaterials</i> , 2003 , 24, 2673-83	15.6	434
350	Effects of Ta content on Young's modulus and tensile properties of binary Ti-Ta alloys for biomedical applications. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 371, 283-290	5.3	267
349	Development of Low Rigidity β -type Titanium Alloy for Biomedical Applications. <i>Materials Transactions</i> , 2002 , 43, 2970-2977	1.3	264
348	Metallic biomaterials. <i>Journal of Artificial Organs</i> , 2008 , 11, 105-10	1.8	204
347	Corrosion resistance and biocompatibility of Ti-Ta alloys for biomedical applications. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 398, 28-36	5.3	191
346	Biomedical titanium alloys with Young's moduli close to that of cortical bone. <i>International Journal of Energy Production and Management</i> , 2016 , 3, 173-85	5.3	159
345	Corrosion wear fracture of new α -type biomedical titanium alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1999 , 263, 193-199	5.3	141
344	Beta type Ti-Mo alloys with changeable Young's modulus for spinal fixation applications. <i>Acta Biomaterialia</i> , 2012 , 8, 1990-7	10.8	133
343	Biologically and Mechanically Biocompatible Titanium Alloys. <i>Materials Transactions</i> , 2008 , 49, 2170-2178.	1.3	128
342	Improvement in fatigue characteristics of newly developed beta type titanium alloy for biomedical applications by thermo-mechanical treatments. <i>Materials Science and Engineering C</i> , 2005 , 25, 248-254	8.3	128

341	Relationships between tensile deformation behavior and microstructure in Ti-Nb-Ta-Zr system alloys. <i>Materials Science and Engineering C</i> , 2005 , 25, 363-369	8.3	114
340	Ti-25Ta alloy with the best mechanical compatibility in Ti-Ta alloys for biomedical applications. <i>Materials Science and Engineering C</i> , 2009 , 29, 1061-1065	8.3	109
339	Self-adjustment of Young's modulus in biomedical titanium alloys during orthopaedic operation. <i>Materials Letters</i> , 2011 , 65, 688-690	3.3	105
338	Microstructures and mechanical properties of metastable Ti-30Zr-(Cr, Mo) alloys with changeable Young's modulus for spinal fixation applications. <i>Acta Biomaterialia</i> , 2011 , 7, 3230-6	10.8	105
337	Decomposition of martensite β during aging treatments and resulting mechanical properties of Ti-Ta alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 384, 92-101	5.3	94
336	Optimization of Cr content of metastable β -type Ti-Cr alloys with changeable Young's modulus for spinal fixation applications. <i>Acta Biomaterialia</i> , 2012 , 8, 2392-400	10.8	90
335	Development of high Zr-containing Ti-based alloys with low Young's modulus for use in removable implants. <i>Materials Science and Engineering C</i> , 2011 , 31, 1436-1444	8.3	88
334	Nanotube oxide coating on Ti-29Nb-13Ta-4.6Zr alloy prepared by self-organizing anodization. <i>Electrochimica Acta</i> , 2006 , 52, 94-101	6.7	88
333	Microstructures and mechanical properties of Ti-30mass% Ta alloy for biomedical applications. <i>Journal of Alloys and Compounds</i> , 2008 , 466, 535-542	5.7	81
332	Tensile Deformation Behavior of Ti-Nb-Ta-Zr Biomedical Alloys. <i>Materials Transactions</i> , 2004 , 45, 1113-1119	11.9	77
331	Improvement in Fatigue Strength of Biomedical β -type Ti-Nb-Ta-Zr Alloy While Maintaining Low Young's Modulus Through Optimizing β -Phase Precipitation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012 , 43, 294-302	2.3	73
330	Aging behavior of the Ti-29Nb-13Ta-4.6Zr new beta alloy for medical implants. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2002 , 33, 487-493	2.3	66
329	Effect of Zr on super-elasticity and mechanical properties of Ti-4at% Nb-(0, 2, 4)at% Zr alloy subjected to aging treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 536, 197-206	5.3	64
328	Bioactive calcium phosphate invert glass-ceramic coating on beta-type Ti-29Nb-13Ta-4.6Zr alloy. <i>Biomaterials</i> , 2003 , 24, 283-90	15.6	64
327	Effects of microstructure on the short fatigue crack initiation and propagation characteristics of biomedical titanium alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2000 , 31, 1949-1958	2.3	63
326	Microstructures, mechanical properties and cytotoxicity of low cost beta Ti-Mn alloys for biomedical applications. <i>Acta Biomaterialia</i> , 2015 , 26, 366-76	10.8	61
325	Fracture characteristics of fatigued Ti-6Al-4V ELI as an implant material. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1998 , 243, 237-243	5.3	60
324	Fully Depleted Ti-Nb-Ta-Zr-O Nanotubes: Interfacial Charge Dynamics and Solar Hydrogen Production. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 22997-23008	9.5	59

323	Effect of Oxygen Content on Microstructure and Mechanical Properties of Biomedical Ti-29Nb-13Ta-4.6Zr Alloy under Solutionized and Aged Conditions. <i>Materials Transactions</i> , 2009 , 50, 2716-2720	1.3	57
322	Apatite Formation on Calcium Phosphate Invert Glasses in Simulated Body Fluid. <i>Journal of the American Ceramic Society</i> , 2004 , 84, 450-52	3.8	56
321	Alloying titanium and tantalum by cold crucible levitation melting (CCLM) furnace. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000 , 280, 208-213	5.3	55
320	Mechanical characteristics and microstructure of drawn wire of Ti-29Nb-13Ta-4.6Zr for biomedical applications. <i>Materials Science and Engineering C</i> , 2007 , 27, 154-161	8.3	54
319	Changeable Young's modulus with large elongation-to-failure in β -type titanium alloys for spinal fixation applications. <i>Scripta Materialia</i> , 2014 , 82, 29-32	5.6	53
318	Micro-arc oxidation treatment to improve the hard-tissue compatibility of Ti-29Nb-13Ta-4.6Zr alloy. <i>Applied Surface Science</i> , 2012 , 262, 34-38	6.7	53
317	Effect of Ta content on mechanical properties of Ti-20Nb-8Ta-5Zr. <i>Materials Science and Engineering C</i> , 2005 , 25, 370-376	8.3	52
316	Recent titanium R&D for biomedical applications in japan. <i>Jom</i> , 1999 , 51, 32-34	2.1	52
315	Surface hardening of biomedical Ti-29Nb-13Ta-4.6Zr and Ti-6Al-4V ELI by gas nitriding. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 486, 193-201	5.3	49
314	Fabrication of low-cost beta-type Ti-Mn alloys for biomedical applications by metal injection molding process and their mechanical properties. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016 , 59, 497-507	4.1	47
313	Japanese research and development on metallic biomedical, dental, and healthcare materials. <i>Jom</i> , 2005 , 57, 18-24	2.1	47
312	Deformation-induced β phase in modified Ti-29Nb-13Ta-4.6Zr alloy by Cr addition. <i>Acta Biomaterialia</i> , 2013 , 9, 8027-35	10.8	45
311	Heterogeneous structure and mechanical hardness of biomedical β -type Ti-29Nb-13Ta-4.6Zr subjected to high-pressure torsion. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012 , 10, 235-45	4.1	44
310	Mechanical properties and cyto-toxicity of new beta type titanium alloy with low melting points for dental applications. <i>Materials Science and Engineering C</i> , 2005 , 25, 417-425	8.3	44
309	Athermal and deformation-induced β phase transformations in biomedical beta-type alloy Ti-9Cr-0.2O. <i>Acta Materialia</i> , 2016 , 106, 162-170	8.4	43
308	Influence of oxygen on omega phase stability in the Ti-29Nb-13Ta-4.6Zr alloy. <i>Scripta Materialia</i> , 2016 , 123, 144-148	5.6	43
307	Fatigue, Fretting Fatigue and Corrosion Characteristics of Biocompatible Beta Type Titanium Alloy Conducted with Various Thermo-Mechanical Treatments. <i>Materials Transactions</i> , 2004 , 45, 1540-1548	1.3	42
306	Deformation-induced changeable Young's modulus with high strength in β -type Ti-Cr-O alloys for spinal fixture. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014 , 30, 205-13	4.1	41

305	Predominant factor determining wear properties of β -type and (β)-type titanium alloys in metal-to-metal contact for biomedical applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015 , 41, 208-20	4.1	40
304	Mechanical properties and microstructures of low cost β -titanium alloys for healthcare applications. <i>Materials Science and Engineering C</i> , 2005 , 25, 304-311	8.3	40
303	Calcium phosphate invert glass-ceramic coatings joined by self-development of compositionally gradient layers on a titanium alloy. <i>Biomaterials</i> , 2001 , 22, 577-82	15.6	40
302	Development of thermo-mechanical processing for fabricating highly durable β -type Ti-Nb-Ta-Zr rod for use in spinal fixation devices. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012 , 9, 207-16	4.1	39
301	In situ X-ray analysis of mechanism of nonlinear super elastic behavior of Ti-Nb-Ta-Zr system beta-type titanium alloy for biomedical applications. <i>Materials Science and Engineering C</i> , 2008 , 28, 406-413	8.3	39
300	Changes in mechanical properties of Ti alloys in relation to alloying additions of Ta and Hf. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 483-484, 153-156	5.3	39
299	Isothermal Aging Behavior of Beta Titanium‐Manganese Alloys. <i>Materials Transactions</i> , 2009 , 50, 2737-2743	1.3	38
298	Design and development of metallic biomaterials with biological and mechanical biocompatibility. <i>Journal of Biomedical Materials Research - Part A</i> , 2019 , 107, 944-954	5.4	37
297	β -type titanium alloys for spinal fixation surgery with high Young's modulus variability and good mechanical properties. <i>Acta Biomaterialia</i> , 2015 , 24, 361-9	10.8	37
296	Mechanical properties and cytocompatibility of oxygen-modified β -type Ti-Cr alloys for spinal fixation devices. <i>Acta Biomaterialia</i> , 2015 , 12, 352-361	10.8	37
295	Improvement of microstructure, mechanical and corrosion properties of biomedical Ti-Mn alloys by Mo addition. <i>Materials and Design</i> , 2016 , 110, 414-424	8.1	37
294	Titanium Alloys for Biomedical Applications. <i>Springer Series in Biomaterials Science and Engineering</i> , 2015 , 179-213	0.6	36
293	Effect of Nb on Microstructural Characteristics of Ti-Nb-Ta-Zr Alloy for Biomedical Applications. <i>Materials Transactions</i> , 2002 , 43, 2964-2969	1.3	36
292	Improvement in mechanical strength of low-cost β -type Ti-Mn alloys fabricated by metal injection molding through cold rolling. <i>Journal of Alloys and Compounds</i> , 2016 , 664, 272-283	5.7	34
291	Improved fatigue properties with maintaining low Young's modulus achieved in biomedical beta-type titanium alloy by oxygen addition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 704, 10-17	5.3	34
290	Relationship between various deformation-induced products and mechanical properties in metastable Ti-30Zr-Mo alloys for biomedical applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2011 , 4, 2009-16	4.1	32
289	Toughness and Strength of Microstructurally Controlled Titanium Alloys.. <i>ISIJ International</i> , 1991 , 31, 848-855	1.7	28
288	Inhibited grain growth in hydroxyapatite-graphene nanocomposites during high temperature treatment and their enhanced mechanical properties. <i>Ceramics International</i> , 2016 , 42, 11248-11255	5.1	28

287	Effect of Deformation-Induced ω ; Phase on the Mechanical Properties of Metastable β -Type Ti-V Alloys. <i>Materials Transactions</i> , 2012 , 53, 1379-1384	1.3	27
286	Anomalous Thermal Expansion of Cold-Rolled Ti-Nb-Ta-Zr Alloy. <i>Materials Transactions</i> , 2009 , 50, 423-426.	6.3	27
285	Effects of Thermomechanical Processings on Fatigue Properties of Ti-29Nb-13Ta-4.6Zr for Biomedical Applications. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2003 , 67, 652-660	0.4	27
284	Improvement in fatigue strength while keeping low Young's modulus of a β -type titanium alloy through yttrium oxide dispersion. <i>Materials Science and Engineering C</i> , 2012 , 32, 542-549	8.3	25
283	An investigation of the effect of fatigue deformation on the residual mechanical properties of Ti-6Al-4V ELI. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2000 , 31, 1937-1948	2.3	25
282	The plasma electrolytic oxidation (PEO) coatings to enhance in-vitro corrosion resistance of Ti-29Nb-13Ta-4.6Zr alloys: The combined effect of duty cycle and the deposition frequency. <i>Surface and Coatings Technology</i> , 2019 , 374, 345-354	4.4	24
281	Dynamic Young's Modulus and Mechanical Properties of Ti-Hf Alloys. <i>Materials Transactions</i> , 2004 , 45, 1549-1554	1.3	24
280	Relationship between fracture toughness and microstructure of Ti-6Al-2Sn-0.5Zr-Mo alloy reinforced with TiB particles. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1999 , 263, 319-325	5.3	24
279	Fracture characteristics and microstructural factors in single and duplex annealed Ti-5Al-0.5V-0.2Mo-0.2Fe. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 308, 216-224	5.3	23
278	Effect of terminal functional groups of silane layers on adhesive strength between biomedical Ti-29Nb-13Ta-4.6Zr alloy and segment polyurethanes. <i>Surface and Coatings Technology</i> , 2012 , 206, 3137-3141	4.4	22
277	Creation of Functionality by Ubiquitous Elements in Titanium Alloys. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2011 , 75, 21-28	0.4	21
276	Improvements in the Superelasticity and Change in Deformation Mode of β -Type TiNb ₂₄ Zr ₂ Alloys Caused by Aging Treatments. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011 , 42, 2843-2849	2.3	21
275	Tensile Properties and Cyto-toxicity of New Biomedical β -type Titanium Alloys. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2000 , 86, 602-609	0.5	21
274	Abnormal Deformation Behavior of Oxygen-Modified β -Type Ti-29Nb-13Ta-4.6Zr Alloys for Biomedical Applications. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017 , 48, 139-149	2.3	20
273	Effects of TiB on the mechanical properties of Ti-29Nb-13Ta-4.6Zr alloy for use in biomedical applications. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 5600-5609	5.3	20
272	Influence of Fe Content of Ti-Mn-Fe Alloys on Phase Constitution and Heat Treatment Behavior. <i>Materials Science Forum</i> , 2012 , 706-709, 1893-1898	0.4	20
271	Recent Research and Development in Metallic Materials for Biomedical, Dental and Healthcare Products Applications. <i>Materials Science Forum</i> , 2007 , 539-543, 193-200	0.4	20
270	Wear Characteristics of Surface Oxidation Treated New Biomedical β -type Titanium Alloy in Simulated Body Environment. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2002 , 88, 567-574	0.5	20

269	Development of .BETA. Type Titanium Alloys for Impant Materials.. <i>Materia Japan</i> , 1998 , 37, 843-846	0.1	20
268	Evaluation of dynamic crack initiation and growth toughness by computer aided charpy impact testing system. <i>Nuclear Engineering and Design</i> , 1989 , 111, 27-33	1.8	20
267	Osteoanabolic Implant Materials for Orthopedic Treatment. <i>Advanced Healthcare Materials</i> , 2016 , 5, 1740-52	10.1	20
266	Developing biomedical nano-grained β type titanium alloys using high pressure torsion for improved cell adherence. <i>RSC Advances</i> , 2016 , 6, 7426-7430	3.7	19
265	Passive films and corrosion resistance of Ti-Ni alloys in 5% HCl solution. <i>Surface and Coatings Technology</i> , 2009 , 204, 180-186	4.4	19
264	Bioactive Ceramic Surface Modification of β -Type Ti-Nb-Ta-Zr System Alloy by Alkali Solution Treatment. <i>Materials Transactions</i> , 2007 , 48, 293-300	1.3	19
263	Fatigue Properties and Microstructure of Newly Developed Ti-29Nb-14Ta-4.6Zr for Biomedical Applications. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2002 , 66, 715-722	0.4	19
262	Microstructural evolution and mechanical properties of biomedical Co-Cr-Mo alloy subjected to high-pressure torsion. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016 , 59, 226-235	4.1	18
261	Effects of micro- and nano-scale wave-like structures on fatigue strength of a beta-type titanium alloy developed as a biomaterial. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014 , 29, 393-402	4.1	18
260	PHOSPHATE GLASSES AND GLASS-CERAMICS FOR BIOMEDICAL APPLICATIONS. <i>Phosphorus Research Bulletin</i> , 2012 , 26, 8-15	0.3	18
259	Improvement of the fatigue life of titanium alloys for biomedical devices through microstructural control. <i>Expert Review of Medical Devices</i> , 2010 , 7, 481-8	3.5	18
258	????????Ti-29Nb-13Ta-4.6Zr???. <i>Materia Japan</i> , 2002 , 41, 221-223	0.1	18
257	Fracture characteristics, microstructure, and tissue reaction of Ti-5Al-2.5Fe for orthopedic surgery. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1996 , 27, 3925-3935	2.3	18
256	On the accuracy of measurement of dynamic elastic-plastic fracture toughness parameters by the instrumented charpy test. <i>Engineering Fracture Mechanics</i> , 1987 , 26, 83-94	4.2	18
255	Microstructural factors determining mechanical properties of laser-welded Ti-5Al-0.5Cr-0.2Fe-0.1C alloy for use in next-generation aircraft. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 550, 55-65	5.3	17
254	Fretting Fatigue Characteristics of New Biomedical β -type Titanium Alloy in Air and Simulated Body Environment. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2002 , 88, 553-560	0.5	17
253	Mechanical Properties of Biocompatible Beta-Type Titanium Alloy Coated with Calcium Phosphate Invert Glass-Ceramic Layer. <i>Materials Transactions</i> , 2005 , 46, 1564-1569	1.3	17
252	Effect of Cooling Rate on Microstructure and Fracture Characteristics of β -Rich α + β Type Ti-4.5Al-3V-2Mo-2Fe Alloy. <i>Materials Transactions</i> , 2001 , 42, 1339-1348	1.3	17

251	Fatigue characteristics of ultra high molecular weight polyethylene with different molecular weight for implant material. <i>Journal of Materials Science: Materials in Medicine</i> , 2001 , 12, 267-72	4.5	17
250	Electrochemical Surface Treatment of a Titanium Alloy to Realize an Antibacterial Property and Bioactivity. <i>Metals</i> , 2016 , 6, 76	2.3	17
249	Development of low-Young's modulus Ti-Nb-based alloys with Cr addition. <i>Journal of Materials Science</i> , 2019 , 54, 8675-8683	4.3	16
248	Corrosion behavior, mechanical properties and cell cytotoxicity of Zr-based bulk metallic glasses. <i>Intermetallics</i> , 2016 , 72, 69-75	3.5	16
247	Synthesis of biphasic calcium phosphate (BCP) coatings on beta type titanium alloys reinforced with rutile-TiO ₂ compounds: adhesion resistance and in-vitro corrosion. <i>Journal of Sol-Gel Science and Technology</i> , 2018 , 87, 713-724	2.3	16
246	Recent Progress in Research and Development of Metallic Structural Biomaterials with Mainly Focusing on Mechanical Biocompatibility. <i>Materials Transactions</i> , 2018 , 59, 1-13	1.3	16
245	Fatigue characteristics of a biomedical beta type titanium alloy with titanium boride. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 640, 154-164	5.3	16
244	Mechanical and biodegradable properties of porous titanium filled with poly-L-lactic acid by modified in situ polymerization technique. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2011 , 4, 1206-18	4.1	16
243	Wear and Mechanical Properties, and Cell Viability of Gas-Nitrided Beta-Type Ti-Nb-Ta-Zr System Alloy for Biomedical Applications. <i>Materials Transactions</i> , 2008 , 49, 166-174	1.3	16
242	Machinable calcium pyrophosphate glass-ceramics. <i>Journal of Materials Research</i> , 2001 , 16, 876-880	2.5	16
241	Dissolution of Ferrous Alloys into Molten Aluminium. <i>Transactions of the Japan Institute of Metals</i> , 1982 , 23, 780-787		16
240	Adhesive strength of medical polymer on anodic oxide nanostructures fabricated on biomedical beta type titanium alloy. <i>Materials Science and Engineering C</i> , 2014 , 36, 244-51	8.3	15
239	Effect of Nb Content on Microstructure, Tensile Properties and Elastic Modulus of Ti-XNb-10Ta-5Zr Alloys for Biomedical Applications. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2003 , 67, 681-687	0.4	15
238	Mechanical properties of Ti-4.5Al-3V-0.5Mo-0.5Fe and possibility for healthcare applications. <i>Materials Science and Engineering C</i> , 2005 , 25, 296-303	8.3	15
237	Microstructure and fatigue behaviors of a biomedical Ti-Nb-Ta-Zr alloy with trace CeO ₂ additions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 619, 112-118	5.3	14
236	Enhancement of adhesive strength of hydroxyapatite films on Ti-29Nb-13Ta-4.6Zr by surface morphology control. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013 , 18, 232-9	4.1	14
235	Differences in Wear Behaviors at Sliding Contacts for beta-Type and (alpha; + beta)-Type Titanium Alloys in Ringer's Solution and Air. <i>Materials Transactions</i> , 2015 , 56, 317-326	1.3	14
234	Phase Constitution and Heat Treatment Behavior of Ti-7mass% Mn-Al Alloys. <i>Materials Science Forum</i> , 2010 , 654-656, 855-858	0.4	14

233	Development of biomedical porous titanium filled with medical polymer by in-situ polymerization of monomer solution infiltrated into pores. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2010 , 3, 41-50	4.1	14
232	Frictional wear characteristics of biomedical Ti-29Nb-13Ta-4.6Zr alloy with various microstructures in air and simulated body fluid. <i>Biomedical Materials (Bristol)</i> , 2007 , 2, S167-74	3.5	14
231	Joining of Calcium Phosphate Invert Glass-Ceramics on a β -Type Titanium Alloy. <i>Journal of the American Ceramic Society</i> , 2003 , 86, 1031-1033	3.8	14
230	Effect of Microstructure on Fatigue Strength of Bovine Compact Bones. <i>JSME International Journal Series A-Solid Mechanics and Material Engineering</i> , 2005 , 48, 472-480		14
229	Heat Treatment Processes and Mechanical Properties of New β -type Biomedical Ti-29Nb-13Ta-4.6Zr Alloy. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2000 , 86, 610-616	8.5	14
228	Instrumented Impact Testing of Ceramics. <i>Transactions of the Japan Institute of Metals</i> , 1986 , 27, 775-783		14
227	Effect of β -Phase Stability at Room Temperature on Mechanical Properties in β -Rich α - β Type Ti-4.5Al-3V-2Mo-2Fe Alloy. <i>ISIJ International</i> , 2002 , 42, 191-199	1.7	14
226	In vitro biocompatibility of Ti-Mg alloys fabricated by direct current magnetron sputtering. <i>Materials Science and Engineering C</i> , 2015 , 54, 1-7	8.3	13
225	Effects of Mo Addition on the Mechanical Properties and Microstructures of Ti-Mn Alloys Fabricated by Metal Injection Molding for Biomedical Applications. <i>Materials Transactions</i> , 2017 , 58, 271-279	1.3	13
224	Specific characteristics of mechanically and biologically compatible titanium alloy rods for use in spinal fixation applications. <i>Materials Letters</i> , 2012 , 86, 178-181	3.3	13
223	Mechanism of unique hardening of dental AgPdAuTi alloys in relation with constitutional phases. <i>Journal of Alloys and Compounds</i> , 2012 , 519, 15-24	5.7	13
222	Low Modulus Titanium Alloys for Inhibiting Bone Atrophy 2011 ,		13
221	Mechanical Properties and Biocompatibilities of Zr-Nb System Alloys with Different Nb Contents for Biomedical Applications. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2011 , 75, 445-451	0.4	13
220	Effect of Aging Treatment on Mechanical Properties of Ti-29Nb-13Ta-4.6Zr Alloy for Biomedical Applications. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2006 , 70, 295-303	0.4	13
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