

Mitsuo Niinomi

List of Publications by Year in Descending Order

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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
citations

46
h-index

110
g-index

368
ext. papers

14,520
ext. citations

2.4
avg, IF

7.1
L-index

#	Paper	IF	Citations
358	Facile formation with HA/SrTiO ₃ -based composite coatings via green hydrothermal treatment on E-type TiNbTaZr alloys: Morphological and electrochemical insights. <i>Journal of Materials Research</i> , 2022 , 1	2.5	0
357	Microstructure and mechanical properties of TiNbBeZr alloys with high strength and low elastic modulus. <i>Transactions of Nonferrous Metals Society of China</i> , 2022 , 32, 503-512	3.3	1
356	Microstructure, mechanical properties, and cytotoxicity of low Young's modulus TiNbBeSn alloys. <i>Journal of Materials Science</i> , 2022 , 57, 5634-5644	4.3	2
355	Phenomenological law and process of β -phase evolution in a E-type bio-Titanium alloy TNTZ during aging. <i>Materials Characterization</i> , 2021 , 182, 111576	3.9	
354	Further development of mechanically biocompatible metallic biomaterials. <i>Materia Japan</i> , 2021 , 60, 273-280		280
353	Influence of Sintering Temperature on Mechanical Properties of Ti-Nb-Zr-Fe Alloys Prepared by Spark Plasma Sintering. <i>Journal of Materials Engineering and Performance</i> , 2021 , 30, 5719-5727	1.6	1
352	Hydroxyapatite coating on titanium alloy TNTZ for increasing osseointegration and reducing inflammatory response in vivo on Rattus norvegicus Wistar rats. <i>Ceramics International</i> , 2021 , 47, 16094-16100 ³	5.1	100 ³
351	CoCr-based alloys 2021 , 103-126		
350	Antibacterial Cu-Doped Calcium Phosphate Coating on Pure Titanium. <i>Materials Transactions</i> , 2021 , 62, 1052-1055	1.3	0
349	Low Young's Modulus and High Strength Obtained in Ti-Nb-Zr-Cr Alloys by Optimizing Zr Content. <i>Journal of Materials Engineering and Performance</i> , 2020 , 29, 2871-2878	1.6	6
348	Factors Leading to Low Elastic Modulus and Current Status of Medically Applied Research of E-type Ti-Nb-based Alloys. <i>Materia Japan</i> , 2020 , 59, 588-593	0.1	2
347	Fatigue Property and Cytocompatibility of a Biomedical CoCrMo Alloy Subjected to a High Pressure Torsion and a Subsequent Short Time Annealing. <i>Materials Transactions</i> , 2020 , 61, 361-367	1.3	4
346	Relationship between Microstructure and Fatigue Properties of Forged Ti5Al2Sn2Zr4Mo4Cr for Aircraft Applications. <i>Materials Transactions</i> , 2020 , 61, 2017-2024	1.3	1
345	Application of atmospheric-pressure plasma treatment to coat Ti-alloy orthodontic wire with white oxide layer. <i>Japanese Journal of Applied Physics</i> , 2020 , 59, SAAC09	1.4	1
344	Relationship between Microstructure and Fatigue Properties of Forged Ti-5Al-2Sn-2Zr-4Mo-4Cr for Aircraft Applications. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2020 , 84, 200-207 ^{9,4}		9,4
343	Microstructure, Mechanical Properties, and Springback of Ti-Nb Alloys Modified by Mo Addition. <i>Journal of Materials Engineering and Performance</i> , 2020 , 29, 5366-5373	1.6	1
342	Fatigue failure of metallic biomaterials 2019 , 153-188		1

341	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
340	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
339	Titanium Alloys 2019 , 213-224		7
338	Effect of Nb Content on Microstructures and Mechanical Properties of Ti-xNb-2Fe Alloys. <i>Journal of Materials Engineering and Performance</i> , 2019 , 28, 5501-5508	1-6	9
337	Low-Young's-Modulus Materials for Biomedical Applications 2019 , 435-457		
336	Functional Materials Developed in IMR 2019 , 89-103		
335	The plasma electrolytic oxidation (PEO) coatings to enhance in-vitro corrosion resistance of Ti ₂₉ Nb ₁₃ Ta _{4.6} Zr alloys: The combined effect of duty cycle and the deposition frequency. <i>Surface and Coatings Technology</i> , 2019 , 374, 345-354	4-4	24
334	Ti-Based Biomedical Alloys 2019 , 61-76		1
333	Development of Strengthening and Toughening of β -type Titanium Alloys. <i>Materia Japan</i> , 2019 , 58, 193-200		1
332	Suppression of Grain Boundary β -Formation by Addition of Silicon in a Near- α -Titanium Alloy. <i>Materials Transactions</i> , 2019 , 60, 1749-1754	1-3	
331	Low Springback and Low Young's Modulus in Ti ₂₉ Nb ₁₃ Ta _{4.6} Zr Alloy Modified by Mo Addition. <i>Materials Transactions</i> , 2019 , 60, 1755-1762	1-3	3
330	Effects of Fe on Microstructures and Mechanical Properties of Ti ₁₅ Nb _{2.5} Zr _(0, 2, 4, 8) Fe Alloys Prepared by Spark Plasma Sintering. <i>Materials Transactions</i> , 2019 , 60, 1763-1768	1-3	3
329	High-cycle fatigue properties of an easily hot-workable (β)-type titanium alloy butt joint prepared by friction stir welding below $T_{transus}$ temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 742, 553-563	5-3	5
328	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
327	Synthesis of biphasic calcium phosphate (BCP) coatings on β -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
326	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
325	In vivo osteoconductivity of surface modified Ti-29Nb-13Ta-4.6Zr alloy with low dissolution of toxic trace elements. <i>PLoS ONE</i> , 2018 , 13, e0189967	3-7	5
324	Mechanical Performance of Titanium Alloys with Added Lightweight Interstitial Element for Biomedical Applications. <i>Materials Science Forum</i> , 2018 , 941, 2458-2464	0-4	

323	Relationship between Microstructure and Mechanical Strength of Dental Semiprecious Alloys Subjected to Solution Treatment. <i>Materials Science Forum</i> , 2018 , 941, 1105-1110	0.4	
322	Low Young's Modulus Ti-Nb with High Strength and Good Plasticity. <i>Materials Transactions</i> , 2018 , 59, 858-860	1.3	6
321	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
320	Change in Mechanical Properties of Biomechanical Ti-2Cr Subjected to Heat Treatment and Surface Modification Processing. <i>Materials Transactions</i> , 2017 , 58, 951-957	1.3	
319	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
318	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
317	Development and Performance of Low-Cost Beta-Type Ti-Based Alloys for Biomedical Applications Using Mn Additions 2017 , 229-245		
316	Low-Modulus Ti Alloys Suitable for Rods in Spinal Fixation Devices 2017 , 3-21		1
315	Corrosion Behavior of MgZnCa Bulk Amorphous Alloys Fabricated by Spark Plasma Sintering. <i>Acta Metallurgica Sinica (English Letters)</i> , 2016 , 29, 793-799	2.5	12
314	Enhancement of Mechanical Biocompatibility of Titanium Alloys by Deformation-Induced Transformation. <i>Materials Science Forum</i> , 2016 , 879, 125-130	0.4	1
313	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
312	Current Situation and Challenges and Prospects of the Design and Manufacturing Process of the Spinal Implants. <i>Materia Japan</i> , 2016 , 55, 142-146	0.1	1
311	Optimization of Microstructure and Mechanical Properties of Co-Cr-Mo Alloys by High-Pressure Torsion and Subsequent Short Annealing. <i>Materials Transactions</i> , 2016 , 57, 1887-1896	1.3	7
310	A β -Type Titanium Alloy With Significantly Changeable Young's Modulus and Good Mechanical Properties Used for Spinal Fixation Applications 2016 , 1685-1689		
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	Corrosion behavior, mechanical properties and cell cytotoxicity of Zr-based bulk metallic glasses. <i>Intermetallics</i> , 2016 , 72, 69-75	3.5	16
307	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
306	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

305	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
304	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
303	Improvement in mechanical strength of low-cost β -type TiMn alloys fabricated by metal injection molding through cold rolling. <i>Journal of Alloys and Compounds</i> , 2016 , 664, 272-283	5.7	34
302	Beta-Type Titanium Alloys for use as Rods in Spinal Fixation Devices 2016 , 215-221		1
301	Beta-Type Titanium Alloys for use as Rods in Spinal Fixation Devices 2016 , 213-221		
300	Grain Refinement Mechanism and Evolution of Dislocation Structure of CoCrMo Alloy Subjected to High-Pressure Torsion. <i>Materials Transactions</i> , 2016 , 57, 1109-1118	1.3	12
299	Electrochemical Surface Treatment of a β -titanium Alloy to Realize an Antibacterial Property and Bioactivity. <i>Metals</i> , 2016 , 6, 76	2.3	17
298	Osteoanabolic Implant Materials for Orthopedic Treatment. <i>Advanced Healthcare Materials</i> , 2016 , 5, 1740-52	10.1	20
297	Wear Behaviors of Combinations Comprised of Titanium Alloys in Air and Ringer's Solution 2016 , 1707-1710		
296	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
295	Development of Biomedical Titanium Alloys with a Focus on Controlling Young's Modulus 2016 , 1655-1663		
294	Change in Mechanical Properties of Biomechanical Ti-12Cr Subjected to Heat Treatment and Surface Modification Processing. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2016 , 80, 764-771	0.4	
293	Osteoanabolic Implants: Osteoanabolic Implant Materials for Orthopedic Treatment (Adv. Healthcare Mater. 14/2016). <i>Advanced Healthcare Materials</i> , 2016 , 5, 1682-1682	10.1	2
292	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
291	Enhancing the durability of spinal implant fixture applications made of Ti-6Al-4V ELI by means of cavitation peening. <i>International Journal of Fatigue</i> , 2016 , 92, 360-367	5	6
290	Effect of heterogeneous precipitation caused by segregation of substitutional and interstitial elements on mechanical properties of a β -type Ti alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 643, 109-118	5.3	7
289	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
288	Titanium Alloys for Biomedical Applications. <i>Springer Series in Biomaterials Science and Engineering</i> , 2015 , 179-213	0.6	36

287	Wear transition of solid-solution-strengthened Ti-29Nb-13Ta-4.6Zr alloys by interstitial oxygen for biomedical applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015 , 51, 398-408	4.1	12
286	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
285	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
284	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
283	Predominant factor determining wear properties of β -type and (α + 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
282	Change in Mechanical Strength and Bone Contactability of Biomedical Titanium Alloy with Low Young's Modulus Subjected to Fine Particle Bombarding Process. <i>Materials Transactions</i> , 2015 , 56, 218-223	1.3	2
281	Differences in Wear Behaviors at Sliding Contacts for β -Type and (α + β)-Type Titanium Alloys in Ringer's Solution and Air. <i>Materials Transactions</i> , 2015 , 56, 317-326	1.3	14
280	Evaluation of Adhesion of Hydroxyapatite Films Fabricated on Biomedical β -Type Titanium Alloy after Immersion in Ringer's Solution. <i>Materials Transactions</i> , 2015 , 56, 1703-1710	1.3	1
279	Fatigue characteristics of a biomedical β -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
278	Enhancing Functionalities of Metallic Materials by Controlling Phase Stability for Use in Orthopedic Implants 2015 , 79-91		4
277	Phase transformation and its effect on mechanical characteristics in warm-deformed Ti-29Nb-13Ta-4.6Zr alloy. <i>Metals and Materials International</i> , 2015 , 21, 202-207	2.4	10
276	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, 244-51	8.3	15
275	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
274	Microstructure and fatigue behaviors of a biomedical TiNbTaZr 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
273	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
272	Contribution of β and β' precipitates to hardening in as-solutionized Ag-20Pd-12Au-14.5Cu alloys for dental prosthesis applications. <i>Materials Science and Engineering C</i> , 2014 , 37, 204-9	8.3	4
271	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
270	Bending springback behavior related to deformation-induced phase transformations in Ti-12Cr and Ti-29Nb-13Ta-4.6Zr alloys for spinal fixation applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014 , 34, 66-74	4.1	11

269	Developments of titanium alloys with high mechanical biocompatibility for biomedical applications. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2014 , 64, 374-381	0.3	1
268	Mechanical Properties, Microstructures, and Biocompatibility of Low-Cost β -Type Ti-Mn Alloys for Biomedical Applications. <i>Ceramic Transactions</i> , 2014 , 21-30	0.1	3
267	Endurance of Low-Modulus β -Type Titanium Alloys for Spinal Fixation 2014 , 205-212		
266	Microstructural Analysis of Biomedical Co-Cr-Mo Alloy Subjected to High-Pressure Torsion Processing. <i>Key Engineering Materials</i> , 2014 , 616, 263-269	0.4	1
265	Effect of Subsurface Deformation on Sliding Wear Behavior of Ti-29Nb-13Ta-4.6Zr Alloys for Biomedical Applications. <i>Key Engineering Materials</i> , 2014 , 616, 270-274	0.4	
264	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	1	7
263	Biomedical Polymer Surface Modification of Beta-Type Titanium Alloy for Implants through Anodic Oxide Nanostructures. <i>Materials Science Forum</i> , 2014 , 783-786, 1261-1264	0.4	2
262	Wear Properties of Ti-6Al-4V/Ti-29Nb-13Ta-4.6Zr Combination for Spinal Implants. <i>Advanced Materials Research</i> , 2014 , 922, 424-428	0.5	2
261	Mechanical Performance and Biocompatibility of Biomedical Beta-Type Titanium Alloy Subjected to Micro-Shot Peening. <i>Materials Science Forum</i> , 2014 , 783-786, 1215-1220	0.4	
260	Optimization of Mo Content in Beta-Type Ti-Mo Alloys for Obtaining Larger Changeable Young's Modulus during Deformation for Use in Spinal Fixation Applications. <i>Materials Science Forum</i> , 2014 , 783-786, 1307-1312	0.4	1
259	Relationship between Heterogeneous Microstructure and Fatigue Strength of Ti-Nb-Ta-Zr Alloy for Biomedical Materials Subjected to Aging Treatments. <i>Materials Science Forum</i> , 2014 , 783-786, 1313-1319	0.4	
258	Color tone and interfacial microstructure of white oxide layer on commercially pure Ti and Ti-Nb-Ta-Zr alloys. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 11RD02	1.4	12
257	Nanostructure and Fatigue Behavior of β -Type Titanium Alloy Subjected to High-Pressure Torsion after Aging Treatment. <i>Advanced Materials Research</i> , 2014 , 891-892, 9-14	0.5	
256	Precipitation of β -phase and hardening in dental-casting Ag-20Pd-12Au-14.5Cu alloys subjected to aging treatments. <i>Materials Science and Engineering C</i> , 2014 , 36, 329-35	8.3	2
255	Hardening behavior after high-temperature solution treatment of Ag-20Pd-12Au-xCu alloys with different Cu contents for dental prosthetic restorations. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014 , 35, 123-31	4.1	3
254	Reduction in anisotropy of mechanical properties of coilable β -type titanium alloy thin sheet through simple heat treatment for use in next-generation aircraft applications. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 594, 103-110	5.3	12
253	Nanostructure Of β -Type Titanium Alloys Through Severe Plastic Deformation. <i>Advanced Materials Letters</i> , 2014 , 5, 378-383	2.4	9
252	Mechanical Properties of Biomedical β -Type Titanium Alloy with Rare-Earth Metal Oxide Particles Formed by Rare-Earth Metal Addition 2014 , 129-135		1

251	Endurance of Low-Modulus β -Type Titanium Alloys for Spinal Fixation 2014 , 205-212		
250	Deformation Induced Changeable Young's Modulus in Ternary Ti-Cr-O Alloys for Spinal Fixation Applications 2013 , 1635-1641		
249	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
248	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
247	Experimental application of pulsed laser-induced water jet for endoscopic submucosal dissection: mechanical investigation and preliminary experiment in swine. <i>Digestive Endoscopy</i> , 2013 , 25, 255-63	3.7	12
246	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
245	Phase Constitution and Heat Treatment Behavior of Low Cost Ti-Mn System Alloys. <i>Key Engineering Materials</i> , 2013 , 551, 217-222	0.4	1
244	Research and Development of Low-Cost Titanium Alloys for Biomedical Applications. <i>Key Engineering Materials</i> , 2013 , 551, 133-139	0.4	7
243	Comparison of Mechanical Properties of a Biomedical β Titanium Alloy Added with Pure Rare Earth and Rare Earth Oxides. <i>Materials Science Forum</i> , 2013 , 750, 147-151	0.4	
242	Advances in Development of Titanium Alloys for Spinal Fixation Applications-Titanium Alloys with High Fatigue Strength and Low Springback for Spinal Fixation Applications-. <i>Key Engineering Materials</i> , 2013 , 575-576, 446-452	0.4	1
241	Development of Changeable Young's Modulus with Good Mechanical Properties in β -Type Ti-Cr-O Alloys. <i>Key Engineering Materials</i> , 2013 , 575-576, 453-460	0.4	
240	White-Ceramic Conversion on Ti-29Nb-13Ta-4.6Zr Surface for Dental Applications. <i>Advances in Materials Science and Engineering</i> , 2013 , 2013, 1-9	1.5	9
239	Improvement of adhesive strength of segmented polyurethane on Ti-29Nb-13Ta-4.6Zr alloy through HDI-treatment for biomedical applications. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2013 , 101, 776-83	3.5	7
238	Mechanical Properties of Ti-12Cr Alloy with Self-Tunable Young's Modulus for Use in Spinal Fixation Devices 2013 , 1551-1556		
237	Effects of Alloying Elements on the HAp Formability on Ti Alloys after Alkali Treatment. <i>Materials Transactions</i> , 2013 , 54, 1295-1301	1.3	3
236	Mechanical Properties and Biocompatibility of Low Cost-Type Ti-Mn System Binary Alloys for Biomedical Applications. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2013 , 77, 253-258	0.4	9
235	Development of Titanium Alloys with High Mechanical Biocompatibility with Focusing on Controlling Elastic Modulus. <i>Materia Japan</i> , 2013 , 52, 219-228	0.1	8
234	Effect of Oxide Particles Formed through Addition of Rare-Earth Metal on Mechanical Properties of Biomedical β -Type Titanium Alloy. <i>Materials Transactions</i> , 2013 , 54, 1361-1367	1.3	6

233	Mechanical Properties of Ti-12Cr Alloy with Self-Tunable Young's Modulus for Use in Spinal Fixation Devices 2013 , 1551-1556		
232	Deformation Induced Changeable Young's Modulus in Ternary Ti-Cr-O Alloys for Spinal Fixation Applications 2013 , 1635-1641		
231	Effect of Zr on super-elasticity and mechanical properties of Ti ₂ 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
230	Microstructural factors determining mechanical properties of laser-welded Ti ₂ .5Al ₂ .5Cr ₁ .2Fe _{0.1} C 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
229	Formation of L10-type ordered η phase in as-solutionized dental Ag ₂ PdAuCu alloys and hardening behavior. <i>Materials Science and Engineering C</i> , 2012 , 32, 503-509	8.3	8
228	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
227	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
226	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
225	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
224	Improvement in Fatigue Strength of Biomedical β type TiNbTaZr 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
223	Development of New Titanium-Molybdenum Alloys with Changeable Young's Modulus for Spinal Fixture Devices. <i>Journal of Solid Mechanics and Materials Engineering</i> , 2012 , 6, 695-700		
222	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
221	Mechanism of unique hardening of dental Ag ₂ PdAuCu alloys in relation with constitutional phases. <i>Journal of Alloys and Compounds</i> , 2012 , 519, 15-24	5.7	13
220	Development of new metallic alloys for biomedical applications. <i>Acta Biomaterialia</i> , 2012 , 8, 3888-903	10.8	974
219	Micro-arc oxidation treatment to improve the hard-tissue compatibility of Ti ₂ 9Nb ₁ 3Ta ₂ .6Zr alloy. <i>Applied Surface Science</i> , 2012 , 262, 34-38	6.7	53
218	Difference of Microstructure and Fatigue Properties between Forged and Rolled Ti-6Al-4V. <i>Key Engineering Materials</i> , 2012 , 508, 161-165	0.4	2
217	PHOSPHATE GLASSES AND GLASS-CERAMICS FOR BIOMEDICAL APPLICATIONS. <i>Phosphorus Research Bulletin</i> , 2012 , 26, 8-15	0.3	18
216	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

215	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
214	Microstructure and Mechanical Properties of a Biomedical β -type Titanium Alloy Subjected to Severe Plastic Deformation after Aging Treatment. <i>Key Engineering Materials</i> , 2012 , 508, 152-160	0.4	6
213	Microstructural Change of β -Phase and Hardness Change in As-Solutionized Dental Ag-20Pd-12Au-14.5Cu Alloy. <i>Key Engineering Materials</i> , 2012 , 508, 166-171	0.4	
212	Young's Modulus Changeable Titanium Alloys for Orthopaedic Applications. <i>Materials Science Forum</i> , 2012 , 706-709, 557-560	0.4	1
211	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
210	Young's Modulus Changeable β -Type Binary Ti-Cr Alloys for Spinal Fixation Applications. <i>Key Engineering Materials</i> , 2012 , 508, 117-123	0.4	2
209	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
208	Microstructures and Mechanical Properties of Ternary Ti-Cr-(V, Fe, Mo) Alloys with Self-tunable Young's Moduli for Biomedical Applications. <i>ISIJ International</i> , 2012 , 52, 1655-1660	1.7	2
207	Titanium and Its Alloys. <i>Journal of the Japan Society for Technology of Plasticity</i> , 2012 , 53, 983-988	0.3	
206	Low Modulus Titanium Alloys for Inhibiting Bone Atrophy 2011 ,		13
205	High mechanical functionalization of Ti-Al-Cr-Be system alloy for next-generation aircraft applications through microstructural control. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2011 , 61, 705-710	0.3	5
204	Fabrication of hydroxyapatite film on Ti-9Nb-3Ta-6Zr using a MOCVD technique. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2011 , 61, 24-29	0.3	
203	Improvement in Fatigue Strength of Biomedical β -Type Ti-Nb-Ta-Zr Alloy while Maintaining Low Young's Modulus through Optimizing ω -Phase Precipitation. <i>Materials Transactions</i> , 2011 ,	1.3	1
202	Heterogeneous β -Phase Precipitation and Peculiar Aging Strengthening in Biomedical β -Type Ti-Nb-Ta-Zr Alloy Having Vortical Structure. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2011 , 75, 198-206	0.4	8
201	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
200	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
199	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
198	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

197	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
196	Self-adjustment of Young's modulus in biomedical titanium alloys during orthopaedic operation. <i>Materials Letters</i> , 2011 , 65, 688-690	3.3	105
195	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
194	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
193	Effects of TiB on the mechanical properties of Ti ₂₉ Nb ₁₃ Ta _{4.6} Zr 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
192	Relationship between microstructures and mechanical properties of Ti _{4.5} Al _{0.6} Mo _{0.6} V _{0.5} Fe _{0.3} Si _{0.03} C for next-generation aircraft applications. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2011 , 61, 711-717	0.3	1
191	Effect of Oxygen on Phase Precipitation and Mechanical Functionality in Ti-29Nb-13Ta-4.6Zr. <i>Key Engineering Materials</i> , 2010 , 436, 179-184	0.4	1
190	Bending Fatigue and Spring Back Properties of Implant Rods Made of β -Type Titanium Alloy for Spinal Fixture. <i>Advanced Materials Research</i> , 2010 , 89-91, 400-404	0.5	5
189	Preparation of Ti-Based and Zr-Based Bio-Metallic Wires by Arc-Melting Type Melt-Extraction Method. <i>Materials Science Forum</i> , 2010 , 638-642, 2127-2132	0.4	
188	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
187	Effect of Y ₂ O ₃ on Mechanical Properties of Ti-29Nb-13Ta-4.6Zr for Biomedical Applications. <i>Materials Science Forum</i> , 2010 , 654-656, 2138-2141	0.4	4
186	Formability of Ti ₂₉ Nb ₁₃ Ta _{4.6} Zr Biomaterial at High Temperatures. <i>Key Engineering Materials</i> , 2010 , 443, 620-625	0.4	1
185	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
184	Relationship between Unique Hardening Behavior and Microstructure of Dental Silver Alloy Subjected to Solution Treatment. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2010 , 74, 337-344	0.4	11
183	Structure and Mechanical Properties of Melt-Extracted Beta-Ti-Type Ti-Nb-Ta-Zr (TNTZ) Wire with High Bending Ductility. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2010 , 74, 515-519	0.4	
182	Fabrication of Beta-Ti-Type Ti-Nb-Ta-Zr (TNTZ) Wire with High-Ductility by Arc-Melt-Type Melt-Extraction Method. <i>Materials Transactions</i> , 2010 , 51, 377-380	1.3	
181	Quality improvement of a β -type titanium alloy cast for biomedical applications by using a calcia mold. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2010 , 60, 170-176	0.3	
180	Effects of Nb and O Contents on Microstructures and Mechanical Functionalities of Biomedical Ti ₁₈ Nb ₁₀ Ta ₄ Zr ₈ System Alloys. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2010 , 96, 93-100	0.5	

179	Effect of Young's modulus in metallic implants on atrophy and bone remodeling 2010 , 90-99		4
178	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
177	The commercial potential of MIM titanium alloy. <i>Metal Powder Report</i> , 2009 , 64, 17-20	2	5
176	Ti-5Ta 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
175	Passive films and corrosion resistance of Ti alloys in 5% HCl solution. <i>Surface and Coatings Technology</i> , 2009 , 204, 180-186	4.4	19
174	Effects of Nd Content on the Dynamic Elastic Modulus and Mechanical Properties of Titanium-Neodymium Alloys. <i>Materials Transactions</i> , 2009 , 50, 368-372	1.3	4
173	Isothermal Aging Behavior of Beta Titanium-Manganese Alloys. <i>Materials Transactions</i> , 2009 , 50, 2737-2743	1.3	38
172	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	20 ⁵⁷
171	High Mechanical Functionalization of Metallic Biomaterials through Thermomechanical Treatments. <i>Journal of Biomechanical Science and Engineering</i> , 2009 , 4, 345-355	0.8	3
170	Anomalous Thermal Expansion of Cold-Rolled Ti-Nb-Ta-Zr Alloy. <i>Materials Transactions</i> , 2009 , 50, 423-426	1.3	27
169	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
168	Development of allergy-free titanium alloys for brass instruments and their characteristics. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2008 , 58, 604-610	0.3	
167	Mechanical Properties of Implant Rods made of Low-Modulus β -Type Titanium Alloy, Ti-29Nb-13Ta-4.6Zr, for Spinal Fixture. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2008 , 72, 674-678	0.4	11
166	Strategy for Ubiquitous Titanium Alloys. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2008 , 72, 915	0.4	2
165	Biologically and Mechanically Biocompatible Titanium Alloys. <i>Materials Transactions</i> , 2008 , 49, 2170-2178	1.3	128
164	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
163	Fretting-Fatigue Properties and Fracture Mechanism of Semi-Precious Alloy for Dental Applications. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2008 , 72, 63-71	0.4	4
162	Change in Fatigue Strength of Biomedical β -Type Titanium Alloy through Heat Treatment Processes. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2008 , 57, 893-898	0.1	2

161	Metallic biomaterials. <i>Journal of Artificial Organs</i> , 2008 , 11, 105-10	1.8	204
160	Surface hardening of biomedical Ti ₂₉ Nb ₁₃ Ta _{4.6} Zr and Ti ₃₅ Al ₅ V ELI by gas nitriding. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 486, 193-201	5.3	49
159	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
158	In situ X-ray analysis of mechanism of nonlinear super elastic behavior of Ti ₃₅ Nb ₁₀ Zr system beta-type titanium alloy for biomedical applications. <i>Materials Science and Engineering C</i> , 2008 , 28, 406-413	8.3	39
157	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
156	Titanium and Its Alloys 2008 , 2876-2892		1
155	Mechanical characteristics and microstructure of drawn wire of Ti ₂₉ Nb ₁₃ Ta _{4.6} Zr for biomedical applications. <i>Materials Science and Engineering C</i> , 2007 , 27, 154-161	8.3	54
154	Formability of Hydroxyapatite on Beta-Type Ti-Nb-Ta-Zr Alloy for Biomedical Applications through Alkaline Treatment Process. <i>Key Engineering Materials</i> , 2007 , 352, 297-300	0.4	
153	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
152	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
151	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
150	Multifunctional low-rigidity β-type Ti-Nb-Ta-Zr system alloys as biomaterials 2007 , 75-84		1
149	Nanotube oxide coating on Ti ₂₉ Nb ₁₃ Ta _{4.6} Zr alloy prepared by self-organizing anodization. <i>Electrochimica Acta</i> , 2006 , 52, 94-101	6.7	88
148	Feasibility Study on Smart Coating for Failure Prevention under Thermo-mechanical Fatigue Loading. <i>Journal of Intelligent Material Systems and Structures</i> , 2006 , 17, 1099-1103	2.3	2
147	Effect of loading rate on absorbed energy and fracture surface area in wrought aluminum alloys. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2006 , 56, 15-20	0.3	
146	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
145	Analysis of Tensile Deformation Behaviors of Ti-XNb-10Ta-5Zr Alloys for Biomedical Applications. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2006 , 70, 572-578	0.4	4
144	Effect of Microstructure on Tensile Properties and Static Fracture Toughness of Dental Gold Alloy. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2006 , 70, 337-342	0.4	1

143	Tensile Deformation Behavior of Ti-30Nb-10Ta-XZr Alloys for Biomedical Applications. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2006 , 70, 89-95	0.4	7
142	Microstructural Modification in a Beta Titanium Alloy for Implant Applications. <i>Materials Transactions</i> , 2006 , 47, 90-95	1.3	10
141	Notch fatigue properties of a Ti-29Nb-13Ta-4.6Zr alloy for biomedical applications. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2005 , 55, 575-581	0.3	11
140	Effect of Microstructure on Tensile Properties and Static Fracture Toughness of Dental Gold Alloy. <i>Materials Transactions</i> , 2005 , 46, 1540-1544	1.3	1
139	Contact pressure and fretting fatigue characteristics of highly workable titanium alloy with equiaxed .ALPHA. and Widmanstaetten .ALPHA. structure. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2005 , 55, 661-667	0.3	5
138	Mechanical Properties and Cyto-Toxicity of Newly Designed .BETA. Type Ti Alloys for Dental Applications. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2005 , 69, 96-102	0.4	
137	Assessment of Thermo-Mechanical Fatigue Behaviors of Cast Al-Si Alloys by Experiments and Multi-Step Numerical Simulation. <i>Materials Transactions</i> , 2005 , 46, 111-117	1.3	6
136	Image-Based Mechanical Analysis of Multifilamentary Microstructure Formation in Al–Fe Heavily Deformed In-Situ Composites. <i>Materials Transactions</i> , 2005 , 46, 2229-2236	1.3	10
135	Influences of spatial distribution of Si particles on crack propagation in model Al-Si cast alloys. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2005 , 55, 75-81	0.3	2
134	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
133	Fatigue Characteristics of Low Cost β Titanium Alloys for Healthcare and Medical Applications. <i>Materials Transactions</i> , 2005 , 46, 1570-1577	1.3	13
132	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
131	Microstructure and fretting fatigue characteristics of highly workable titanium alloy with equiaxed .ALPHA. and Widmanstaetten .ALPHA. structure. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2005 , 55, 654-660	0.3	
130	Corrosion resistance and biocompatibility of Ti alloys for biomedical applications. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 398, 28-36	5.3	191
129	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
128	Mechanical properties of Ti-5Al-3V-2Mo-2Fe and possibility for healthcare applications. <i>Materials Science and Engineering C</i> , 2005 , 25, 296-303	8.3	15
127	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
126	Mechanical properties and microstructures of low cost titanium alloys for healthcare applications. <i>Materials Science and Engineering C</i> , 2005 , 25, 304-311	8.3	40

125	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
124	Effect of Ta content on mechanical properties of Ti ₆₀ Nb ₃₀ Ta ₁₀ Zr. <i>Materials Science and Engineering C</i> , 2005 , 25, 370-376	8.3	52
123	Japanese research and development on metallic biomedical, dental, and healthcare materials. <i>Jom</i> , 2005 , 57, 18-24	2.1	47
122	Numerical simulation of fracture of model Al-Si alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2005 , 36, 2979-2992	2.3	4
121	Dental Precision Casting of Ti-29Nb-13Ta-4.6Zr Using Calcia Mold. <i>Materials Science Forum</i> , 2005 , 475-479, 2303-2308	0.4	6
120	Effects of Striker Edge Radius on Load-Deflection Curve and Absorbed Energy in Instrumented Charpy Impact Test. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2005 , 91, 485-492	0.5	2
119	Assessment of Fracture Toughness by CT and Round Bar Specimens in a HT780 Steel. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2005 , 91, 415-420	0.5	
118	Recent Applications, Research and Development in Titanium and Its Alloys. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2004 , 90, 462-471	0.5	10
117	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
116	Effects of Ta content on Young's modulus and tensile properties of binary Ti ₆₀ Al alloys for biomedical applications. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 371, 283-290	5.3	267
115	Decomposition of martensite β during aging treatments and resulting mechanical properties of Ti ₆₀ Al alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 384, 92-101	5.3	94
114	NOVEL METHOD FOR APATITE COATING ON Ti-29Nb-13Ta-4.6Zr ALLOY. <i>Phosphorus Research Bulletin</i> , 2004 , 17, 258-261	0.3	2
113	CALCIUM PHOSPHATE GLASS-CERAMIC COATING ON A TITANIUM ALLOY. <i>Phosphorus Research Bulletin</i> , 2004 , 17, 29-36	0.3	4
112	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
111	Tensile Deformation Behavior of Ti-Nb-Ta-Zr Biomedical Alloys. <i>Materials Transactions</i> , 2004 , 45, 1113-1119	1.3	77
110	Dynamic Young's Modulus and Mechanical Properties of Ti-Hf Alloys. <i>Materials Transactions</i> , 2004 , 45, 1549-1554	1.3	24
109	Fretting Fatigue Characteristics with Relating Contact Pressure and Surface Roughness of Highly Workable Titanium Alloy, Ti-4.5Al-3V-2Mo-2Fe. <i>Materials Transactions</i> , 2004 , 45, 1586-1593	1.3	5
108	Tensile Properties and Surface Reaction Layer of Biomaterial, Ti-29Nb-13Ta-4.6Zr, Cast by Dental Precision Casting Process Using Various Investment Materials. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2004 , 90, 154-161	0.5	12

107	Morphology of Calcium Phosphate Invert Glass-Ceramic Layer Coated on Surface of Beta Type Titanium Alloy for Biomedical Applications. <i>Materia Japan</i> , 2004 , 43, 1034-1034	0.1	
106	Relationship between Tensile Properties and Casting Defect of Ti-29Nb-13Ta-4.6Zr for Biomedical Applications Cast by Dental Precision Casting Process Using Various Investment Materials. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2004 , 90, 827-834	0.5	
105	Effects of contact pressure and surface roughness on fretting fatigue characteristics of a high workable Ti-4.5%Al-3%V-2%Mo-2%Fe alloy. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2003 , 53, 563-569	0.3	3
104	Fretting fatigue and frictional wear characteristics of a high workable Ti-4.5%Al-3%V-2%Mo-Fe alloy. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2003 , 53, 251-257	0.3	
103	Aging Characteristics and Mechanical Properties of Ti-29Nb-13Ta-4.6Zr Coated with Calcium Phosphate Invert Glass-Ceramic for Biomedical Applications. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2003 , 67, 604-613	0.4	13
102	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
101	Microstructures and Mechanical Properties of Ti-Ni and Ti-Ni-Co Type Shape Memory Alloys. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2003 , 67, 595-603	0.4	4
100	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
99	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
98	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
97	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
96	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
95	OS11W0187 Effects of frictional wear characteristics and microstructure on fretting fatigue strength of high workable titanium alloy, Ti-4.5Al-3V-2Mo-2Fe. <i>The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics</i> , 2003 , 2003.2, _OS11W0187- OS11W0187	0	
94	OS07W0159 Effects of microstructures on fatigue properties of dental drawn and cast Ag-Pd-Cu-Au-Zn alloys. <i>The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics</i> , 2003 , 2003.2, _OS07W0159- OS07W0159	0	
93	OS07W0157 Effect of Nb content on mechanical properties of Ti-Nb-Ta-Zr quaternary alloys fabricated by powder metallurgy processing for biomedical applications. <i>The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics</i> , 2003 , 2003.2, _OS07W0157- OS07W0157	0	
92	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
91	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
90	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

89	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
88	Improvement in mechanical properties of dental cast Ti-6Al-7Nb by thermochemical processing. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2002 , 33, 503-510	2.3	13
87	Microstructure and fretting fatigue characteristics of a Ti-4.5%Al-3% V-2%Mo-2%Fe alloy.. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2002 , 52, 371-377	0.3	3
86	Fatigue Properties of Cast Ag-Pd-Cu-Au-Zn Alloy for Dental Applications in the Relation with Casting Defects. <i>Materials Transactions</i> , 2002 , 43, 3160-3166	1.3	6
85	????????Ti??Ti-29Nb-13Ta-4.6Zr???. <i>Materia Japan</i> , 2002 , 41, 221-223	0.1	18
84	Development of Low Rigidity β-type Titanium Alloy for Biomedical Applications. <i>Materials Transactions</i> , 2002 , 43, 2970-2977	1.3	264
83	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
82	Microstructure and Fatigue Crack Initiation and Propagation Characteristics of Cast α+β-Type Titanium Alloys Conducted with Thermochemical Heat Processing for Dental Applications. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2002 , 66, 1098-1106	0.4	3
81	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
80	Effect of .BETA. Phase Stability at Room Temperature on Mechanical Properties in .BETA.-Rich .ALPHA.+BETA. Type Ti-4.5Al-3V-2Mo-2Fe Alloy.. <i>ISIJ International</i> , 2002 , 42, 191-199	1.7	14
79	605 Fretting Fatigue Characteristics and Microstructure of Ti-4.5Al-3V-2Mo-2Fe for Aircraft Applications. <i>The Proceedings of the JSME Materials and Processing Conference (M&P)</i> , 2002 , 10.2, 452-457		
78	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
77	BIOMIMETIC APATITE FORMATION ON CALCIUM PHOSPHATE INVERT GLASSES. <i>Phosphorus Research Bulletin</i> , 2001 , 12, 39-44	0.3	6
76	Effect of microstructure on fracture characteristics of Ti-6Al-2Sn-2Zr-2Mo-2Cr-Si. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2001 , 32, 2795-2804	2.3	13
75	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
74	Fracture characteristics and microstructural factors in single and duplex annealed Ti-4.5Al-3V-2Mo-2Fe. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 308, 216-224	5.3	23
73	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
72	Machinable calcium pyrophosphate glass-ceramics. <i>Journal of Materials Research</i> , 2001 , 16, 876-880	2.5	16

71	Cold crucible levitation melting of biomedical Ti-30 wt%Ta alloy. <i>Dental Materials Journal</i> , 2001 , 20, 156-63		2
70	Friction Wear Property of Newly Designed β -type Biomedical Titanium Alloys in Air and Ringer's Solution. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2001 , 87, 500-507	0.5	2
69	Effect of Microstructure on Fracture Characteristics of Ti-6Al-2Sn-2Mo-2Zr-2Cr-Si Alloy. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2001 , 87, 55-62	0.5	
68	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
67	The role of microstructures on the strengthening mechanisms of a thermomechanically processed 2091 AlTi alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000 , 284, 14-24	5.3	10
66	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
65	Effects of microstructure on the short fatigue crack initiation and propagation characteristics of biomedical β titanium alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2000 , 31, 1949-1958	2.3	63
64	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	0.5	14
63	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
62	Effects of Thermochemical Treatment on Mechanical Properties of Cast Ti-6Al-7Nb Alloy for Dental Applications. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2000 , 64, 895-902	0.4	3
61	Effects of Microstructure and Simulated Body Environment on Fatigue Crack Propagation Behavior of Ti-5Al-2.5Fe for Biomedical Use. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2000 , 86, 492-498	0.5	
60	Effect of Molecular Weight on Fatigue Characteristics of Ultra-High Molecular Weight Polyethylene for Implant Material. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2000 , 49, 35-40	0.1	
59	Relationship between fracture toughness and microstructure of Ti β Al β Sn β Zr β 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
58	Corrosion wear fracture of new β -type biomedical titanium alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1999 , 263, 193-199	5.3	141
57	Recent titanium R&D for biomedical applications in japan. <i>Jom</i> , 1999 , 51, 32-34	2.1	52
56	Relationship between Fatigue Life, Changing of Mechanical Properties and Dislocation Structure during Fatigue in Pure Titanium. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 1999 , 63, 1527-1534	0.4	3
55	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
54	Fracture characteristics of fatigued Ti β Al β V ELI as an implant material. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1998 , 243, 237-243	5.3	60

53	Design and mechanical properties of new β -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
52	Effect of Microstructure on Fracture Characteristics of Compact Bone.. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , 1998 , 64, 312-318		8
51	Development of .BETA. Type Titanium Alloys for Impant Materials.. <i>Materia Japan</i> , 1998 , 37, 843-846	0.1	20
50	Change in Mechanical Properties of Ti-6Al-4V ELI during Fatigue Failure Process. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 1998 , 62, 140-149	0.4	7
49	Fracture Toughness and Microstructure in TiB Particulate-reinforced Ti-6Al-2Sn-4Zr-2Mo Composites. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 1998 , 84, 452-457	0.5	1
48	Effect of Microstructure on Small Fatigue Crack Initiation and Propagation Characteristics of Ti-6Al-7Nb Alloy. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 1998 , 62, 952-960	0.4	7
47	Microstructure and fracture characteristics in reactive sintering TiAl intermetallic compound.. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 1997 , 47, 521-526	0.3	3
46	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
45	Practure characteristics of light alloys. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 1996 , 46, 352-360	0.3	
44	Strength, toughness and microstructural parameters in 2091 Al-Li system alloy.. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 1995 , 45, 127-132	0.3	2
43	Effects of Fe and Ca on impact fatigue characteristics of AC2B-T6 aluminum casting alloys.. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 1995 , 45, 88-94	0.3	2
42	Effect of stress triaxiality on fracture behavior of 2091 aluminum alloys.. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 1995 , 45, 654-659	0.3	3
41	Fracture Characteristics and Microstructures of Intermetallic Compound Ti-24Al-11Nb(at%). <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 1995 , 59, 708-716	0.4	4
40	Effects of Aging Treatments on Fracture Characteristics of 6061 Aluminum Alloy Reinforced with SiC Whisker. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 1994 , 58, 468-475	0.4	12
39	Microstructural Control by Retrogression and Reaging Treatment in SiC Whisker Reinforced Aluminum Alloy Composite. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 1994 , 58, 1086-1094	0.4	1
38	Strength and toughness of microstructurally controlled .ALPHA.+BETA. type titanium alloys by thermochemical processings with hydrogen.. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 1992 , 42, 638-643	0.3	3
37	Strength, Toughness and Thermomechanical Processings in Ti-15V-3Cr-3Sn-3Al Alloys. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 1992 , 78, 1862-1869	0.5	6
36	Toughness and Strength of Microstructurally Controlled Titanium Alloys.. <i>ISIJ International</i> , 1991 , 31, 848-855	1.7	28

35	Fatigue Crack Propagation Characteristics in SiCp/6061-T6 Composite. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 1991 , 55, 72-78	0.4	7
34	Fracture Characteristics of Titanium-based Intermetallic Compound Ti3Al. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 1991 , 55, 1023-1030	0.4	1
33	Impact Fatigue Properties of Carburized SCM415 Steels. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 1991 , 77, 155-162	0.5	2
32	Effect of Thermomechanical Treatment Conditions on Mechanical Properties of Ti-10V-2Fe-3Al Alloys. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 1990 , 76, 1712-1719	0.5	1
31	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
30	Effects of Strain-induced Transformation and Temperature on Fracture Toughness of Titanium Alloys. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 1989 , 75, 537-544	0.5	1
29	Mechanical properties of SiC whisker reinforced aluminum alloys.. <i>Keikinzoiku/Journal of Japan Institute of Light Metals</i> , 1988 , 38, 593-599	0.3	4
28	Evaluation of fracture toughness of aluminum alloys by tear test.. <i>Keikinzoiku/Journal of Japan Institute of Light Metals</i> , 1988 , 38, 9-15	0.3	8
27	Effects of Triaxiality and Microstructure on the Ductile Fracture Morphology of Al-Zn-Mg-Cu-Zr Alloys. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 1988 , 52, 26-33	0.4	6
26	Effect of Microstructure on Impact Toughness of Al-Li Alloys. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 1988 , 52, 34-42	0.4	1
25	Effect of Substructure Formed in Prior β ; Grain on Crack Initiation and Propagation Toughness of Ti-6 Al-2 Sn-4 Zr-6 Mo Alloy. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 1988 , 74, 543-550	0.5	5
24	Impact toughness of Al-Li system alloys at low temperatures.. <i>Keikinzoiku/Journal of Japan Institute of Light Metals</i> , 1987 , 37, 816-823	0.3	5
23	Fatigue crack propagation in Al-Si alloy castings.. <i>Keikinzoiku/Journal of Japan Institute of Light Metals</i> , 1987 , 37, 824-830	0.3	11
22	Effect of Microstructural Factor on Impact Toughness of Ti-6Al-2Sn-4Zr-6Mo Alloy. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 1987 , 73, 1397-1404	0.5	3
21	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
20	Impact Toughness of Hydrogen Charged Ti-6Al-2Sn-4Zr-6Mo Alloy. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 1987 , 73, 1405-1412	0.5	1
19	Toughness and Microstructural Factor of Ti-6Al-4V Alloy. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 1986 , 72, 633-640	0.5	4
18	Mechanical properties and Portevin-Le Chatelier effect in Al-Si alloy.. <i>Keikinzoiku/Journal of Japan Institute of Light Metals</i> , 1986 , 36, 555-561	0.3	8

17	Instrumented Impact Testing of Ceramics. <i>Transactions of the Japan Institute of Metals</i> , 1986 , 27, 775-783		14
16	Effect of Hydrogen Charging on the Impact Toughness of Ti-6Al-4V Alloys. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 1986 , 50, 449-455	0.4	1
15	On Accuracy of Measurement of Dynamic Elastic-Plastic Fracture Toughness by Instrumented Charpy Test. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 1986 , 72, 2133-2140	0.5	6
14	Evaluation of Dynamic Fracture Toughness Parameters by Instrumented Charpy Test. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 1985 , 71, 1934-1940	0.5	2
13	Dissolution of Ferrous Alloys into Molten Pure Aluminium under Forced Flow. <i>Transactions of the Japan Institute of Metals</i> , 1984 , 25, 429-439		3
12	Dissolution of Ferrous Alloys into Molten Aluminium. <i>Transactions of the Japan Institute of Metals</i> , 1982 , 23, 780-787		16
11	On the Alloy Layers Formed by the Reaction between Ferrous Alloys and Molten Aluminium. <i>Transactions of the Japan Institute of Metals</i> , 1982 , 23, 709-717		8
10	Dissolution of Ferrous Alloys into Molten Aluminium. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 1978 , 42, 549-555	0.4	3
9	Recent Progress in Mechanically Biocompatible Titanium-Based Materials. <i>Advances in Bioinformatics and Biomedical Engineering Book Series</i> , 206-212	0.4	
8	Strengthening Behaviors of Low-Precious Ag-Pd-Au-Zn Alloys for Dental Applications. <i>Ceramic Transactions</i> , 63-71	0.1	
7	Evaluation of Long-Term Mechanical and Biological Biocompatibility of Low-Cost β -Type Ti-Mn Alloys for Biomedical Applications. <i>Ceramic Transactions</i> , 1-12	0.1	
6	Metal-polymer Hybrid Biomaterials with High Mechanical and Biological Compatibilities 397-408		
5	Titanium Alloys with Changeable Young's Modulus For Preventing Stress Shielding and Springback. <i>Ceramic Transactions</i> , 65-72	0.1	1
4	Mechanical Properties of Biomedical β -Type Titanium Alloy with Rare-Earth Metal Oxide Particles Formed by Rare-Earth Metal Addition 129-135		
3	Functionality of Porous Titanium Improved by Biopolymer Filling. <i>Ceramic Transactions</i> , 91-101	0.1	1
2	Effect of TiB ₂ or Y ₂ O ₃ Additions on Mechanical Biofunctionality of Ti-29Nb-13Ta-4.6Zr for Biomedical Applications. <i>Ceramic Transactions</i> , 75-81	0.1	4
1	Microstructure, Mechanical Properties, and Cytotoxicity of β -Type Ti-Nb-Cr Alloys Designed by Electron Parameter. <i>Journal of Materials Engineering and Performance</i> , 1	1.6	0