

Yorinobu Takigawa

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.

172 papers	2,795 citations	24 h-index	48 g-index
176 ext. papers	3,047 ext. citations	2.2 avg, IF	4.87 L-index

#	Paper	IF	Citations
172	New dislocation dissociation accompanied by anti-phase shuffling in the β martensite phase of a Ti alloy. <i>Acta Materialia</i> , 2022 , 227, 117705	8.4	0
171	Fabrication of Ti-Alloy Powder/Solid Composite with Uniaxial Anisotropy by Introducing Unidirectional Honeycomb Structure via Electron Beam Powder Bed Fusion. <i>Crystals</i> , 2021 , 11, 1074	2.3	4
170	Fabrication of High Strength and High Ductility Alloys by Electrodeposition. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2021 , 72, 605-609	0.1	0
169	Microstructural heterogeneity in the electrodeposited Ni: insights from growth modes. <i>Scientific Reports</i> , 2020 , 10, 5548	4.9	6
168	Prediction System for Solid Solubility Limits of Ag-, Cu-, Al-, and Mg-Based Alloys Using Artificial Neural Networks and First-Principles Calculations. <i>Materials Transactions</i> , 2020 , 61, 2083-2090	1.3	0
167	Reducing sulfur to improve thermal embrittlement in electrodeposited nickel using citric acid. <i>Results in Surfaces and Interfaces</i> , 2020 , 1, 100001	0	1
166	Mechanical properties and microstructures after abnormal grain growth in electrodeposited Ni-W alloys. <i>Materialia</i> , 2019 , 8, 100481	3.2	4
165	Thermal embrittlement and microstructure change in electrodeposited Ni. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 745, 168-175	5.3	9
164	Artificial neural network assisted by first-principles calculations for predicting transformation temperatures in shape memory alloys. <i>International Journal of Modern Physics B</i> , 2019 , 33, 1950055	1.1	2
163	Al-8Mg alloy with high strength and high ductility by addition of a grain boundary strengthening element. <i>Materials Letters</i> , 2019 , 245, 218-221	3.3	9
162	Direct observation of strain-stored grains in electrodeposited nanocrystalline Ni-W alloys by low-angle annular dark field diffraction contrast imaging. <i>Scripta Materialia</i> , 2019 , 166, 29-33	5.6	3
161	Suppression of the thermal embrittlement induced by sulfur segregation to grain boundary in Ni-based electrodeposits. <i>Materialia</i> , 2019 , 6, 100312	3.2	5
160	Ductile electrodeposited Al from a dimethylsulfone bath with trace amounts of tin chloride. <i>Materials Letters</i> , 2019 , 244, 192-194	3.3	2
159	Increasing the W Content in Electrodeposited Bulk Nanocrystalline Ni-W Alloys with High Ductility. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2019 , 70, 50-52	0.1	1
158	Electrodeposition for Bulk Nanocrystalline Ni Alloys and Their Mechanical Properties. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2019 , 70, 103-108	0.1	1
157	Effects of Zr-addition on intergranular fracture of Al ₇₀ Cu ₃₀ Mg and Al ₇₀ Zn ₃₀ Mg ₁₀ Cu ₁₀ alloys. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2019 , 69, 235-241	0.3	0
156	Effect of a small amount of Fe-addition on intergranular fracture of Al ₇₀ .3 mass%Mg alloys. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2019 , 69, 457-464	0.3	2

155	Reduction of impurity contents in aluminum plates electrodeposited from a dimethylsulfone-aluminum chloride bath. <i>Journal of Alloys and Compounds</i> , 2019 , 783, 919-926	5.7	7
154	Development of Electrodeposition Process Based on Chloride Electrolytes for Bulk Pure Fe with Plastic Deformability. <i>Materials Transactions</i> , 2019 , 60, 130-135	1.3	
153	Revealing the intrinsic ductility of electrodeposited nanocrystalline metals. <i>Materials Letters</i> , 2019 , 235, 224-227	3.3	3
152	Electrodeposition with intermittent addition of trimethylamine borane to produce ductile bulk nanocrystalline NiB alloys. <i>Surface and Coatings Technology</i> , 2018 , 337, 411-417	4.4	29
151	Construction of Constitutive Equation for Elevated Temperature Deformation in FeCrSi Fiber-Reinforced Al Alloy Composites. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2018 , 67, 1000-1005	0.1	
150	Effect of low-temperature annealing on tensile behavior of electrodeposited bulk nanocrystalline NiW alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 709, 241-246	5.3	14
149	Fabrication of Electrodeposited Permalloys with High Strength and High Ductility. <i>Materials Transactions</i> , 2018 , 59, 598-601	1.3	6
148	Fabrication of Defect-Free FeMn Alloys by Using Electrodeposition. <i>Materials Transactions</i> , 2018 , 59, 935-938	1.3	4
147	Connecting Grain Boundary Stability With Tensile Behavior in Electrodeposited Bulk Nanocrystalline Ni Alloys. <i>Materia Japan</i> , 2018 , 57, 479-486	0.1	1
146	An Electrodeposition Process for Producing Ductile Bulk Nanocrystalline NiFe Alloys in a Wide Current Density Range. <i>Materials Transactions</i> , 2018 , 59, 1354-1358	1.3	3
145	First-principles study of transformation strains and phase stabilities in β and γ -Ti-Nb-X alloys. <i>Journal of Alloys and Compounds</i> , 2017 , 716, 37-45	5.7	7
144	Improvement of High Temperature Strength by Addition of Vanadium Content of NiCrMo Steel for Brake Discs. <i>ISIJ International</i> , 2017 , 57, 550-557	1.7	1
143	Relationship between grain boundary relaxation strengthening and orientation in electrodeposited bulk nanocrystalline Ni alloys. <i>Materials Letters</i> , 2017 , 205, 211-214	3.3	9
142	Reduction in sulfur content of electrodeposited bulk nanocrystalline FeNi alloys using manganese chloride. <i>Materials Letters</i> , 2016 , 175, 86-88	3.3	13
141	Effect of Solute Elements on Grain Refinement during Friction Stir Processing in High-Purity Aluminum. <i>Materials Science Forum</i> , 2016 , 838-839, 116-121	0.4	2
140	Texture Change during Superplastic Deformation in Fine-Grained Magnesium Alloys. <i>Materials Science Forum</i> , 2016 , 838-839, 59-65	0.4	2
139	Calculation of alloying effect on formation enthalpy of TiCu intermetallics from first-principles calculations for designing TiCu-system metallic glasses. <i>Philosophical Magazine Letters</i> , 2016 , 96, 27-34	1	7
138	Alloying Effects of Transition Metals on Beta Phase Stability of Ti Alloys from First-Principles Calculations 2016 , 1919-1923		1

137	Effects of Solute Fe, Zn and Mg on Recrystallization in Aluminum. <i>Materials Transactions</i> , 2016 , 57, 329-334	7
136	Effect of Alloying Element X on Transformation Strains and Phase Stabilities between α' and β ; Ti-Nb-X (X = Al, Sn, Zr, Ta) Ternary Alloys from First-Principles Calculations. <i>Materials Transactions</i> , 2016 , 57, 263-268	1.3 7
135	MIG welding of Mg $\frac{8}{100}$ Al $\frac{1}{100}$ Zn $\frac{2}{100}$ Ca alloys. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2016 , 66, 252-257	0.3 1
134	Significance of Si impurities on exceptional room-temperature superplasticity in a high-purity Zn-22%Al alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 645, 47-56	5.3 20
133	The evaluation parameters for glass-forming ability in TiCu system metallic glasses. <i>Materials Letters</i> , 2015 , 139, 73-76	3.3 2
132	Mechanical Behavior of Electrodeposited Bulk Nanocrystalline Fe-Ni Alloys. <i>Materials Research</i> , 2015 , 18, 95-100	1.5 7
131	Enhancement in mechanical properties of bulk nanocrystalline FeNi alloys electrodeposited using propionic acid. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 607, 505-510	5.3 32
130	Contribution of interstitial solute strengthening in aluminum. <i>Philosophical Magazine Letters</i> , 2014 , 94, 63-71	1 11
129	Fabrication of bulk nanocrystalline FeNi alloys with high strength and high ductility by an electrodeposition. <i>Materials Letters</i> , 2014 , 116, 71-74	3.3 34
128	Prediction and fabrication of TiZrCu ternary metallic glasses based on effective atomic radius in Ti solid solution from first-principles calculations. <i>Journal of Non-Crystalline Solids</i> , 2014 , 400, 67-71	3.9 6
127	Strategy for Electrodeposition of Highly Ductile Bulk Nanocrystalline Metals with a Face-Centered Cubic Structure. <i>Materials Transactions</i> , 2014 , 55, 1859-1866	1.3 24
126	Influence of Filler Rod Composition on the Strength of Tungsten Inert Gas Welded Magnesium Alloy Joint. <i>Advanced Materials Research</i> , 2014 , 922, 663-666	0.5 0
125	Dislocation Creep in Al-22.2, 53.6 and 101 at.ppm Fe Solid Solution Alloys. <i>Advanced Materials Research</i> , 2014 , 922, 749-754	0.5 2
124	Influence of Impurities on Mechanical Properties of Electrodeposited Bulk Nanocrystalline Al. <i>Advanced Materials Research</i> , 2014 , 922, 574-579	0.5
123	Design and Fabrication of New Ti-Based Ternary Metallic Glasses Based on Effective Atomic Radius in the Ti Solid Solution Calculated by Ab Initio Calculation. <i>Advanced Materials Research</i> , 2014 , 922, 671-675	0.5
122	Development of Highly Efficient Saving Processes of Rare Earth in R-T-B Permanent Magnet. <i>Physics Procedia</i> , 2014 , 54, 168-173	2
121	Effect of Small Addition of Si on Superplastic Elongation at Room Temperature in Zn-Al Eutectoid Superplastic Alloy. <i>Advanced Materials Research</i> , 2014 , 922, 328-331	0.5 1
120	Preparatory Electrodeposition Process for High Purity Bulk Aluminum. <i>Advanced Materials Research</i> , 2014 , 922, 237-241	0.5

119	Relationship between Strength and Grain Size of Friction Stir Processed and Annealed High Purity Aluminum. <i>Advanced Materials Research</i> , 2014 , 922, 372-375	0.5	1
118	High Tensile Ductility in Electrodeposited Bulk Nanocrystalline Ni ₄ W Alloys. <i>Advanced Materials Research</i> , 2014 , 922, 497-502	0.5	4
117	Development of New High-Strength and Heat-Resistant Mg-Zn-Y-X (X=Zr and Ag) Casting Alloys. <i>Materials Science Forum</i> , 2014 , 783-786, 384-389	0.4	1
116	Accommodation mechanisms for grain boundary sliding as inferred from texture evolution during superplastic deformation. <i>Philosophical Magazine</i> , 2013 , 93, 2913-2931	1.6	21
115	Pre-electrodeposition process for improving tensile ductility of Al electrodeposited from a dimethylsulfone bath. <i>Materials Letters</i> , 2013 , 109, 229-232	3.3	11
114	Fabrication of Bulk Nanocrystalline Ni-W with Plastic Deformability Electrodeposited from a Sulfamate Bath 2013 , 3291-3296		
113	Effect of additives on tensile properties of bulk nanocrystalline Ni ₄ W alloys electrodeposited from a sulfamate bath. <i>Materials Letters</i> , 2013 , 99, 65-67	3.3	25
112	Effect of interstitial carbon on the mechanical properties of electrodeposited bulk nanocrystalline Ni. <i>Acta Materialia</i> , 2013 , 61, 3360-3369	8.4	64
111	Effect of orientation on tensile ductility of electrodeposited bulk nanocrystalline Ni ₄ W alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 578, 318-322	5.3	39
110	Evaluation of elastic modulus of Li ₂ S ₂ B ₂ S ₅ glassy solid electrolyte by ultrasonic sound velocity measurement and compression test. <i>Journal of the Ceramic Society of Japan</i> , 2013 , 121, 946-949	1	100
109	Effect of Addition of Small Amount of Zinc on Microstructural Evolution and Thermal Shock Behavior in Low-Ag Sn–Ag–Cu Solder Joints during Thermal Cycling. <i>Materials Transactions</i> , 2013 , 54, 796-805	1.3	11
108	Fabrication of bulk nanocrystalline Ni-W with plastic deformability electrodeposited from a sulfamate bath 2013 , 3291-3296		
107	Improvement in tensile ductility of electrodeposited bulk nanocrystalline Ni ₄ W by sulfamate bath using propionic acid. <i>Microelectronic Engineering</i> , 2012 , 91, 98-101	2.5	15
106	Fabrication of bulk nanocrystalline Al electrodeposited from a dimethylsulfone bath. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 550, 363-366	5.3	25
105	Threshold stress for superplasticity in solid solution magnesium alloys. <i>Philosophical Magazine</i> , 2012 , 92, 787-803	1.6	23
104	Optimization of the Mg ₉₈ Al ₂ Zn ₁ Ca ₁ Br alloy composition based on the parameter A? in the constitutive equation for the climb-controlled dislocation creep including the stacking fault energy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 551, 19-24	5.3	7
103	Effects of Zn addition and aging treatment on tensile properties of Sn–Ag–Cu alloys. <i>Journal of Alloys and Compounds</i> , 2012 , 527, 226-232	5.7	35
102	Isotropic superplastic flow in textured magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 558, 656-662	5.3	20

101	Influence of Gloss Agent Types on Tensile Properties of Bulk Nanocrystalline Ni Electrodeposited from Sulfamate Bath. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2011 , 62, 686	0.1	15
100	Influence of Bath Composition on Tensile Ductility in Electrodeposited Bulk Nanocrystalline Nickel. <i>Materials Transactions</i> , 2011 , 52, 142-146	1.3	14
99	Dynamic Friction Properties and Microstructural Evolution in AZ31 Magnesium Alloy at Elevated Temperature during Ring Compression Test. <i>Materials Transactions</i> , 2011 , 52, 1575-1580	1.3	1
98	Application of Electroforming Process to Bulk Amorphous Ni-W Alloy. <i>Materials Transactions</i> , 2011 , 52, 37-40	1.3	19
97	Effect of Mg content on the minimum grain size of AlMg alloys obtained by friction stir processing. <i>Scripta Materialia</i> , 2011 , 64, 355-358	5.6	73
96	Enhanced tensile ductility in bulk nanocrystalline nickel electrodeposited by sulfamate bath. <i>Materials Letters</i> , 2011 , 65, 2351-2353	3.3	26
95	Grain boundary relaxation in fine-grained magnesium solid solutions. <i>Philosophical Magazine</i> , 2011 , 91, 4158-4171	1.6	20
94	OS19-1-3 Influence of Gloss Agents on Mechanical properties of Electrodeposited Bulk Nanocrystalline Ni. <i>The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics</i> , 2011 , 2011.10, _OS19-1-3-	0	
93	OS19-1-4 Fabrication of Bulk Nanocrystalline Ni-W with Plastic Deformability by Electrodeposition. <i>The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics</i> , 2011 , 2011.10, _OS19-1-4-	0	
92	OS19-4-4 Mechanical loss at elevated temperatures associated with grain boundary relaxation in fine-grained magnesium solid solutions. <i>The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics</i> , 2011 , 2011.10, _OS19-4-4-	0	
91	Determination of Dynamic Friction Coefficients of Aluminum Alloys at Elevated Temperatures by Using Ring-Compression Tests. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2011 , 60, 838-843 ^{9.1}	9.1	
90	OS18-1-2 Effect of trace silicon on high temperature ductility in Al-8Mg and Al-8Mg-0.2Zr alloys. <i>The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics</i> , 2011 , 2011.10, _OS18-1-2-	0	
89	Tensile Properties of Bulk Nanocrystalline Ni and Ni-W Fabricated by Sulfamate Bath. <i>Materials Science Forum</i> , 2010 , 654-656, 1114-1117	0.4	9
88	Effect of Grain Boundary Segregated Dopant on Phase Stability in Tetragonal Zirconia Polycrystal. <i>Materials Science Forum</i> , 2010 , 654-656, 2208-2211	0.4	
87	Effect of Tool Materials on Dynamic Friction Characteristics and Microstructural Evolution at Elevated Temperature in Extruded AZ31 Magnesium Alloy. <i>Materials Transactions</i> , 2010 , 51, 477-481	1.3	3
86	Investigation on Dynamic Friction Properties of Extruded AZ31 Magnesium Alloy Using by Ring Upsetting Method. <i>Materials Transactions</i> , 2010 , 51, 1249-1254	1.3	9
85	Relationship between Specular Reflectance in Visible Light Range and Surface Roughness in AZ31 Magnesium Alloy Subjected to Acidic Aqueous Solution Treatment. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2010 , 74, 788-793	0.4	2
84	Effect of Small Addition of Zinc on Creep Behavior of Tin. <i>Materials Transactions</i> , 2010 , 51, 1747-1752	1.3	15

83	Effect of surface roughness on specular gloss in AZ31 magnesium alloy. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2010 , 60, 259-263	0.3	5
82	Acid aqueous solution treatment method in AZ31 magnesium alloy. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2010 , 60, 117-123	0.3	4
81	Development of Surface Treatment in Industrial Scale for Components with Metallic Luster on AZ31 Sheets. <i>Materials Science Forum</i> , 2009 , 610-613, 999-1002	0.4	5
80	Direct observation of radial distribution change during tensile deformation of metallic glass by high energy X-ray diffraction method. <i>Journal of Alloys and Compounds</i> , 2009 , 483, 589-592	5.7	4
79	Effect of Small Amount of Insoluble Dopant on Tetragonal to Monoclinic Phase Transformation in Tetragonal Zirconia Polycrystal. <i>Materials Transactions</i> , 2009 , 50, 1091-1095	1.3	7
78	Effect of Pre-Introduced Shear Bands Direction on Deformation Behavior in Zr55Al10Ni5Cu30 Bulk Metallic Glass. <i>Materials Transactions</i> , 2009 , 50, 2355-2358	1.3	18
77	Change in Microstructure and Mechanical Properties by Friction Stir Processing in Zr-Cu-Al-Ni Bulk Metallic Glass. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2009 , 58, 215-218	0.1	
76	Effect of temperature on the cavity nucleation rate for fine-grained Zn22 wt.% Al alloy. <i>Scripta Materialia</i> , 2008 , 58, 643-646	5.6	5
75	Low-cycle fatigue properties of ultrafine-grained zinc22 wt.% aluminum alloy during room-temperature superplastic flow. <i>Scripta Materialia</i> , 2008 , 59, 215-218	5.6	8
74	LOW CYCLE FATIGUE BEHAVIOR OF Zn-22Al ALLOY IN SUPERPLASTIC REGION AND NON-SUPERPLASTIC REGION. <i>International Journal of Modern Physics B</i> , 2008 , 22, 5477-5482	1.1	1
73	High Cycle Fatigue Property of Extruded Non-Combustible Mg Alloy AMCa602. <i>Materials Transactions</i> , 2008 , 49, 1148-1156	1.3	11
72	Clarification of the Necessary Value of Surface Roughness for Developing Luster on an AZ31 Magnesium Alloy Surface with or without Acid Aqueous Solution Treatment. <i>Materials Transactions</i> , 2008 , 49, 909-912	1.3	11
71	Suppression of Macroscopic Defects through the Control of Friction between Workpiece and Dies in a Forged Magnesium Alloy Part with Ribs. <i>Materials Transactions</i> , 2008 , 49, 898-902	1.3	5
70	Softening by Coarsening of Ni-Al B2 Phase Particles in Fe-Cr-Ni-Al-Zr Alloy. <i>Materials Transactions</i> , 2008 , 49, 489-493	1.3	2
69	Optimization of Rolling Conditions in Mg–Al–Ca Alloy Containing Insoluble Second Phase Particles. <i>Materials Transactions</i> , 2008 , 49, 1262-1269	1.3	8
68	Effect of Initial Grain Size on Dynamically Recrystallized Grain Size in AZ31 Magnesium Alloy. <i>Materials Transactions</i> , 2008 , 49, 1979-1982	1.3	25
67	Effect of Mn on fracture toughness in Mg&Al&wt.%Zn alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 479, 117-124	5.3	5
66	Cavitation during grain-boundary-sliding deformation in an AZ61 magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 497, 139-146	5.3	19

65	High-Hardening Processing by Equal-Channel Angular Extrusion in Fe-13.5Cr-1.3Mo-0.4C Stainless Steel. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2008 , 57, 105-111	0.1	1
64	Optimizing on Hardening Behavior in Rapidly Solidified Processed Fe-13.5Cr-1.3Mo-0.4C Stainless Steel. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2008 , 57, 704-711	0.1	
63	Influence of friction stir welding parameters on grain size and formability in 5083 aluminum alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 456, 344-349	5.3	163
62	Mechanical properties of MgAlCa alloy processed by hot extrusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 454-455, 384-388	5.3	68
61	Nanoscale amorphous Band-like structure induced by friction stir processing in Zr55Cu30Al10Ni5 bulk metallic glass. <i>Materials Letters</i> , 2007 , 61, 3771-3773	3.3	18
60	Superplastic forging with dynamic recrystallization of MgAlZn alloys cast by thixo-molding. <i>Scripta Materialia</i> , 2007 , 56, 237-240	5.6	33
59	Relationship between deformation behavior and microstructural evolution of friction stir processed Zn2wt.% Al alloy. <i>Scripta Materialia</i> , 2007 , 56, 477-480	5.6	24
58	Application of High-Strain-Rate Superplastic Zn-Al Alloy to Seismic Dampers and its Optimised Shape Design. <i>Materials Science Forum</i> , 2007 , 551-552, 583-590	0.4	5
57	First-Principles Studies on Grain Boundary Energies of [110] Tilt Grain Boundaries in Aluminum. <i>Materials Science Forum</i> , 2007 , 561-565, 1837-1840	0.4	11
56	Effect of Ca and Sr Content on Elevated Temperatures Mechanical Properties of a Cast AZ91 Magnesium Alloy. <i>Advanced Materials Research</i> , 2007 , 26-28, 141-144	0.5	
55	Effect of Second Phase Particles on Phase Stability of Zirconia in Hot Water. <i>Advanced Materials Research</i> , 2007 , 26-28, 781-784	0.5	1
54	Fabrication of the Bulk Amorphous Ni-W Alloy by an Electroforming Process. <i>Materials Science Forum</i> , 2007 , 561-565, 1375-1378	0.4	7
53	Industrial Application in 2014 T6 Aluminum Alloys Having High Corrosion and Weather Resistant by Anionic Resin Coating with Mirror Luster. <i>Materials Science Forum</i> , 2007 , 561-565, 127-130	0.4	
52	Stacking Fault Energy of Cu-Ga Alloys from First Principles. <i>Materials Science Forum</i> , 2007 , 561-565, 1915-1918	0.4	1
51	Atomistic Studies of Deformation Mechanism of Nanocrystalline Al-Ti and Al-Fe Alloys from First-Principles. <i>Materials Science Forum</i> , 2007 , 561-565, 977-980	0.4	4
50	Formability of Friction Stir Welded and Arc Welded 5083 Aluminum Alloy Sheets. <i>Key Engineering Materials</i> , 2007 , 340-341, 1473-1478	0.4	10
49	Effect of Crystallization on High-Temperature Plastic Flow and Ductility in Pre-Annealed Zr-Al-Ni-Cu Bulk Metallic Glass. <i>Materials Science Forum</i> , 2007 , 558-559, 1449-1452	0.4	1
48	Dynamic Recrystallization during Hot Extrusion in AZ31 and AZ80 Alloys. <i>Advanced Materials Research</i> , 2007 , 26-28, 449-452	0.5	3

47	Dynamic Recrystallization during Hot Extrusion in Mg-3Al-0.1Y Alloy. <i>Advanced Materials Research</i> , 2007 , 26-28, 433-436	0.5	2
46	Superplastic Properties and Microstructure of Friction Stir Welded Joints of Zn-22wt.%Al Alloy. <i>Key Engineering Materials</i> , 2007 , 340-341, 1417-1424	0.4	1
45	Effect of Co-Doping Cation on Phase Stability of Zirconia Bioceramics in Hot Water. <i>Advanced Materials Research</i> , 2007 , 26-28, 773-776	0.5	
44	Effect of Small Amount of Dopant on Phase Stability of Zirconia Bioceramics. <i>Materials Science Forum</i> , 2007 , 561-565, 1561-1564	0.4	
43	Mechanical Properties of Twin Roll Cast AZ91 Magnesium Alloy at Room Temperature. <i>Advanced Materials Research</i> , 2007 , 26-28, 145-148	0.5	1
42	Superplastic Joining of TZP Enhanced by Titania-Doping in the Insert Material. <i>Materials Science Forum</i> , 2007 , 551-552, 513-517	0.4	4
41	Microstructure and Mechanical Properties in Friction Stir Processed Zr-Al-Ni-Cu Bulk Metallic Glass. <i>Materials Science Forum</i> , 2007 , 561-565, 1345-1348	0.4	1
40	Fabrication of Homogeneous Bulk Nanocrystalline Ni-W Alloys by an Electroforming Process. <i>Advanced Materials Research</i> , 2007 , 26-28, 691-694	0.5	7
39	First-Principles Calculations of Grain Boundary-Surface for Various Grain Boundaries with Different Energies in Aluminum. <i>Materials Science Forum</i> , 2007 , 551-552, 331-336	0.4	3
38	Effects of Size and Volume Fraction of Precipitated Crystalline Phase Induced by Friction Stir Processing on Hardness in Zr–Al–Ni–Cu Bulk Metallic Glass. <i>Materials Transactions</i> , 2007 , 48, 2409-2413	1.3	8
37	Novel Electroforming Process for Bulk Nanocrystalline Ni-W Alloys with Minimizing W-Concentration Gradient and Fluctuation. <i>Materials Transactions</i> , 2007 , 48, 1483-1491	1.3	15
36	Ni-W Amorphous/Nanocrystalline Duplex Composite Produced by Electrodeposition. <i>Materials Transactions</i> , 2007 , 48, 996-1000	1.3	19
35	Microstructural Change by Friction Stir Processing in Zr-Al-Cu-Ni Bulk Metallic Glass. <i>Materials Transactions</i> , 2007 , 48, 1580-1583	1.3	8
34	Environmentally Friendly Composite Film of Anodizing and Electrodeposition Coating Having a High Corrosion Resistance on Magnesium Alloy AZ91D. <i>Materials Transactions</i> , 2007 , 48, 3118-3125	1.3	10
33	Effect of Titania Doping on Phase Stability of Zirconia Bioceramics in Hot Water. <i>Materials Transactions</i> , 2007 , 48, 332-336	1.3	10
32	Microstructural Evolution of Friction Stir Processed Cast Mg-5.9 mass%Y-2.6 mass%Zn Alloy in High Temperature Deformation. <i>Materials Transactions</i> , 2007 , 48, 618-621	1.3	8
31	Demonstration of an inverse Hall-Petch relationship in electrodeposited nanocrystalline Ni-W alloys through tensile testing. <i>Scripta Materialia</i> , 2006 , 55, 143-146	5.6	117
30	Effect of Manganese Addition on Strength and Fracture Toughness in Mg-6Al-1Zn Alloy. <i>Key Engineering Materials</i> , 2006 , 306-308, 857-862	0.4	1

29	Effect of Dopant on Phase Stability of Zirconia in Hot Water. <i>Key Engineering Materials</i> , 2006 , 309-311, 1231-1234	0.4	10
28	Effect of Cation Dopant on Phase Stability of Zirconia Bioceramics in Hot Water. <i>Advances in Science and Technology</i> , 2006 , 49, 97-102	0.1	5
27	Deformation Mechanism of Nanocrystalline Al-Fe Alloys by Analysis from Ab-Initio Calculations. <i>Materials Science Forum</i> , 2006 , 503-504, 209-214	0.4	7
26	Addition of an Aminic Antioxidant to a Hindered Ester-Based Heat Resisting Oil to Improve Lubrication for Press Forming of Magnesium Alloy Sheets. <i>Materials Transactions</i> , 2006 , 47, 1782-1787	1.3	5
25	Optimization of Environmentally Friendly Anodic Oxide Film for Magnesium Alloys. <i>Materials Transactions</i> , 2006 , 47, 1013-1019	1.3	10
24	Optimization of Die Material and Its Surface Coating for Press Forming Magnesium Alloy. <i>Materials Transactions</i> , 2006 , 47, 954-958	1.3	11
23	Tribological Properties of Hybrid Process DLC Coating against Magnesium Alloy. <i>Materials Transactions</i> , 2006 , 47, 1008-1012	1.3	5
22	High Corrosion and Weather Resistant Anionic Resin Coating for 2014 T6 Aluminum Alloys Which Maintains Mirror Luster. <i>Materials Transactions</i> , 2006 , 47, 2786-2790	1.3	1
21	High Cycle Fatigue Property and Micro Crack Propagation Behavior in Extruded AZ31 Magnesium Alloys. <i>Materials Transactions</i> , 2006 , 47, 989-994	1.3	26
20	High-Strengthening of Mg–5.5 mass%Y–4.3 mass%Zn Cast Alloy by Friction Stir Processing. <i>Materials Transactions</i> , 2005 , 46, 3081-3084	1.3	28
19	High-Temperature Plastic Flow in Pre-Annealed Zr-Al-Ni-Cu Bulk Metallic Glass in a Supercooled Liquid Region. <i>Materials Transactions</i> , 2005 , 46, 199-202	1.3	8
18	Elastic Constants of AlLi from First Principles. <i>Materials Transactions</i> , 2005 , 46, 1117-1121	1.3	25
17	Effect of Microstructural Change on High-Temperature Deformation in Pre-Annealed Zr65Al10Ni10Cu15 Bulk Metallic Glass. <i>Materials Transactions</i> , 2005 , 46, 2864-2869	1.3	7
16	Experimental Investigation of Cavitation Behavior in AZ61 Magnesium Alloy. <i>Materials Transactions</i> , 2005 , 46, 626-630	1.3	7
15	Effects of Ca and Sr addition on mechanical properties of a cast AZ91 magnesium alloy at room and elevated temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 403, 276-280	5.3	195
14	Dislocation creep behavior in Mg&Al&Zn alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 407, 53-61	5.3	222
13	Low cycle fatigue behavior of Zn&2mass%Al alloy exhibiting high-strain-rate superplasticity at room temperature. <i>Scripta Materialia</i> , 2005 , 52, 231-236	5.6	22
12	Tensile creep behavior in lutetia-doped silicon nitride ceramics. <i>Journal of Materials Research</i> , 2005 , 20, 2213-2217	2.5	5

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1	Fabrication of Homogeneous Bulk Nanocrystalline Ni-W Alloys by an Electroforming Process. <i>Advanced Materials Research</i> , 691-694	0.5	2