

Toshiji Mukai

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.

277 papers	10,542 citations	56 h-index	94 g-index
290 ext. papers	11,232 ext. citations	3 avg, IF	6.15 L-index

#	Paper	IF	Citations
277	Effect of Grain Refinement on Fatigue Properties of Mg0.3 at%Ca Alloy in Air and Simulated Body Fluid. <i>Materials Transactions</i> , 2022 , 63, 69-72	1.3	0
276	Biodegradation behaviors of magnesium(Mg)-based alloy nails in autologous bone grafts: In vivo study in rabbit skulls. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2022 , 20, 228080002210952	1.8	1
275	Phase transformation and morphological features in a cold-worked CrMnFeCoNi high entropy alloy with Al addition. <i>Materials Characterization</i> , 2021 , 182, 111556	3.9	0
274	Osteogenic response under the periosteum by magnesium implantation in rat tibia. <i>Dental Materials Journal</i> , 2021 , 40, 498-507	2.5	0
273	Development of bioabsorbable zinc-magnesium alloy wire and validation of its application to urinary tract surgeries. <i>World Journal of Urology</i> , 2021 , 39, 201-208	4	5
272	Control of Microstructure in Ti-6Al-4V Porous Structure Fabricated by Electron Beam Powder Bed Fusion. <i>Journal of Smart Processing</i> , 2021 , 10, 246-250	0.2	
271	Effect of Adding Third Element on Deformability of MgAl Alloy. <i>Minerals, Metals and Materials Series</i> , 2021 , 37-44	0.3	
270	Effect of initial microstructure on grain refinement under hot compression in CrMnFeCoNi high-entropy alloy with Al addition. <i>Materialia</i> , 2021 , 18, 101172	3.2	3
269	Effect of cold-working on phase formation during heat treatment in CrMnFeCoNi system high-entropy alloys with Al addition. <i>Journal of Alloys and Compounds</i> , 2021 , 872, 159668	5.7	8
268	Microstructural Evolution in Magnesium after Hyper-Velocity Impact of Alumina Projectile. <i>Materials Transactions</i> , 2021 , 62, 1401-1406	1.3	
267	Influence of Manganese on Deformation Behavior of Magnesium Under Dynamic Loading. <i>Minerals, Metals and Materials Series</i> , 2020 , 381-385	0.3	
266	Novel artifact-robust and highly visible zinc solid fiducial marker for kilovoltage x-ray image-guided radiation therapy. <i>Medical Physics</i> , 2020 , 47, 4703-4710	4.4	
265	Domain structure and lattice effects in a severely plastically deformed CoCrFeMnNi high entropy alloy. <i>Journal of Alloys and Compounds</i> , 2020 , 812, 152028	5.7	10
264	Fabrication and characterization of Mg0.2 at% Ca/tricalcium phosphate composites. <i>Materials Letters</i> , 2019 , 241, 96-99	3.3	1
263	Effect of yttrium addition on the hot deformation behaviors and microstructure development of magnesium alloy. <i>Journal of Alloys and Compounds</i> , 2019 , 786, 118-125	5.7	9
262	Processing and Mechanical Properties of a Tricalcium Phosphate-Dispersed Magnesium-Based Composite. <i>Materials Transactions</i> , 2019 , 60, 105-110	1.3	2
261	Novel biodegradable magnesium alloy clips compared with titanium clips for hepatectomy in a rat model. <i>BMC Surgery</i> , 2019 , 19, 130	2.3	3

260	Microstructural evolution in magnesium after hyper-velocity impact of alumina projectile. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2019 , 69, 287-292	0.3	1
259	In vitro and in vivo analysis of the biodegradable behavior of a magnesium alloy for biomedical applications. <i>Dental Materials Journal</i> , 2019 , 38, 11-21	2.5	10
258	Fabrication of biodegradable materials with high strength by grain refinement of Mg0.3 at.% Ca alloys. <i>Materials Letters</i> , 2018 , 223, 65-68	3.3	31
257	Dynamic deformation behavior of a face-centered cubic FeCoNiCrMn high-entropy alloy. <i>Science Bulletin</i> , 2018 , 63, 362-368	10.6	43
256	Initial organ distribution and biological safety of Mg released from a Mg alloy implant. <i>Biomedical Materials (Bristol)</i> , 2018 , 13, 035006	3.5	2
255	Material Design for Enhancing Toughness of Mg Alloy and Application for Biodegradable Devices. <i>Minerals, Metals and Materials Series</i> , 2018 , 87-89	0.3	
254	In-situ neutron diffraction of a quasicrystal-containing Mg alloy interpreted using a new polycrystal plasticity model of hardening due to {10.2} tensile twinning. <i>International Journal of Plasticity</i> , 2018 , 100, 34-51	7.6	29
253	Effect of Solidification Cooling Rate on Microstructure and Mechanical Properties of an Extruded Mg-Zn-Y Alloy. <i>Metals</i> , 2018 , 8, 337	2.3	2
252	Hydroxyapatite Dispersed Magnesium-Based Composite Produced from Pulverized Magnesium Alloy Powder and Its Mechanical Properties. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2018 , 82, 18-24	0.4	1
251	Development of a new biodegradable operative clip made of a magnesium alloy: Evaluation of its safety and tolerability for canine cholecystectomy. <i>Surgery</i> , 2017 , 161, 1553-1560	3.6	13
250	Mechanical and damping properties of equal channel angular extrusion-processed MgCa alloys. <i>Materials Letters</i> , 2017 , 201, 144-147	3.3	12
249	Dislocation structures in a near-isotropic Mg-Y extruded alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 698, 238-248	5.3	15
248	Deformation behavior of ultra-fine-grained Mg-0.3at% Al alloy in compression. <i>Journal of Alloys and Compounds</i> , 2017 , 726, 651-657	5.7	10
247	Evaluation of In Vitro Fatigue Properties of Biodegradable Mg0.3at.%Ca Alloy. <i>Minerals, Metals and Materials Series</i> , 2017 , 533-535	0.3	1
246	Fabrication of a magnesium alloy with excellent ductility for biodegradable clips. <i>Acta Biomaterialia</i> , 2016 , 29, 468-476	10.8	31
245	Superplastic Deformation Behavior in Dual-Phase Mg-Ca Alloy. <i>Materials Science Forum</i> , 2016 , 838-839, 256-260	0.4	0
244	Effect of aluminum or zinc solute addition on enhancing impact fracture toughness in MgCa alloys. <i>Acta Materialia</i> , 2016 , 104, 283-294	8.4	42
243	Lattice Ordering and Microstructure of Ultra-high Strength Mg-Ca-Zn Alloys 2016 , 83-88		

242	Lattice Ordering and Microstructure of Ultra-high trength Mg-Ca-Zn lloys 2016 , 83-88		1
241	Development of Small-Scale Impact Three-Point Bending Test Apparatus and Evaluation of Impact Fracture Properties of Mg-6%Al-1%Zn-2%Ca Alloy. <i>Materials Transactions</i> , 2016 , 57, 1872-1879	1.3	
240	Mechanical properties of hydroxyapatite-dispersed magnesium composites. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2016 , 66, 318-323	0.3	4
239	Development of small-scale impact three-point bending test apparatus and evaluation of impact fracture properties of Mg8%Al1%Zn2%Ca alloy. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2016 , 66, 258-265	0.3	1
238	Fabrication and mechanical properties of biodegradable magnesium stent. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2016 , 66, 312-317	0.3	3
237	In vivo corrosion behaviour of magnesium alloy in association with surrounding tissue response in rats. <i>Biomedical Materials (Bristol)</i> , 2016 , 11, 025001	3.5	14
236	Effect of alloying elements on room temperature tensile ductility in magnesium alloys. <i>Philosophical Magazine</i> , 2016 , 96, 2671-2685	1.6	39
235	Material design for magnesium alloys with high deformability. <i>Philosophical Magazine</i> , 2015 , 95, 869-885	1.6	24
234	Effect of deformation twins on damping capacity in extruded pure magnesium. <i>Journal of Alloys and Compounds</i> , 2015 , 626, 60-64	5.7	37
233	HallPetch Breakdown in Fine-Grained Pure Magnesium at Low Strain Rates. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 894-902	2.3	73
232	Effect of Micro-Alloying Elements on Deformation Behavior in Mg-Y Binary Alloys. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2015 , 79, 35-40	0.4	2
231	Degradation Behavior of Mg-Ca Nail After Penetration Into Artificial Bone 2015 , 399-402		1
230	Effect of Solute Segregation on Fracture Behavior of Mg Alloy 2015 , 197-200		
229	Deformation Response of Mg-Y Alloys under Dynamic Loading 2015 , 189-189		
228	Effect of Alloy Composition on Microstructure and Strength of Fine Grained Extruded Mg-Zn-Y Alloys Containing Quasicrystal Phase 2015 , 215-220		
227	Effect of Alloy Composition on Microstructure and Strength of Fine Grained Extruded Mg-Zn-Y Alloys Containing Quasicrystal Phase 2015 , 215-220		
226	Deformation Response of Mg-Y Alloys under Dynamic Loading 2015 , 189-189		
225	Effect of Solute Segregation on Fracture Behavior of Mg Alloy 2015 , 197-200		

224	Micromechanisms of grain refinement during extrusion of Mg0.3 at.% Al at low homologous temperature. <i>Materials Characterization</i> , 2014 , 93, 102-109	3.9	9
223	Formation of nano-twin domains by nucleation and multiplication of twins during fracture of a magnesium alloy. <i>Philosophical Magazine</i> , 2014 , 94, 898-913	1.6	12
222	Evaluation of Impact Fracture Toughness of AZ31 Magnesium Alloy. <i>Applied Mechanics and Materials</i> , 2014 , 566, 316-321	0.3	5
221	Effect of solute atoms on grain boundary sliding in magnesium alloys. <i>Philosophical Magazine</i> , 2014 , 94, 1345-1360	1.6	35
220	Microyielding and damping capacity in magnesium. <i>Scripta Materialia</i> , 2014 , 87, 1-4	5.6	21
219	Development of Very High Strength and Ductile Dilute Magnesium Alloys by Dispersion of Quasicrystal Phase. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 3232-3240	2.3	18
218	Deformation Behavior of Binary Mg-Y Alloy Under Dynamic Compression Loading. <i>Jom</i> , 2014 , 66, 305-311	1.1	13
217	Effect of microstructure on strength and ductility of high strength quasicrystal phase dispersed MgZnY alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 611, 242-251	5.3	40
216	Effect of Micro-Alloying Elements on Deformation Behavior in Mg-Y Binary Alloys. <i>Materials Transactions</i> , 2014 , 55, 182-187	1.3	31
215	Mechanical Behavior at Low Strains in Pure Magnesium and Mg-Ca Alloy. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2014 , 78, 230-234	0.4	5
214	Wear and Friction Properties of Mg-Zn-Y Alloy with Dispersion of Quasi-Crystalline Phase. <i>Materials Transactions</i> , 2014 , 55, 216-219	1.3	7
213	Impact Energy Absorption Capability of Magnesium Alloy Pipe. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2014 , 78, 142-148	0.4	
212	Directionally Controlled Precipitation on Twin-Boundaries in Mg-Zn-Y Alloys 2014 , 319-324		
211	1C42 Fabrication of biodegradable Mg-0.3at.%Ca alloy with high strength. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME</i> , 2014 , 2014.26, 99-100	0	
210	Molecular dynamics simulation of grain boundary plasticity in magnesium and solid-solution magnesium alloys. <i>Computational Materials Science</i> , 2013 , 77, 424-429	3.2	17
209	Effect of precipitation on strength and ductility in a MgZnY alloy. <i>Journal of Alloys and Compounds</i> , 2013 , 550, 114-123	5.7	61
208	Microstructural evolution during dry wear test in magnesium and MgY alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 561, 371-377	5.3	31
207	Hall-Petch relation for deformation twinning in solid solution magnesium alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 561, 378-385	5.3	77

206	Increasing Volume Fraction of Precipitates and Strength of a Mg-Zn-Y Alloy by Pre-Aging Deformation 2013 , 323-328		
205	Grain Refinement and Superplasticity in Magnesium Alloys 2013 , 469-478		2
204	Pure-Shear Test for Investigation of Non-Basal Slip System Operation of Mg Alloy Single Crystal with and without Y. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2013 , 77, 466-472	0.4	16
203	Increasing volume fraction of precipitates and strength of a Mg-Zn-Y alloy by pre-ageing deformation 2013 , 323-328		1
202	Evolution of microstructure during caliber rolling of AZ31 alloy 2013 , 317-322		
201	Effect of grain boundary structures on grain boundary sliding in magnesium. <i>Materials Letters</i> , 2012 , 76, 32-35	3.3	34
200	The effect of size and distribution of rod-shaped precipitates on the strength and ductility of a MgZn alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 539, 230-237	5.3	47
199	Evaluating the Effect of Pre-Ageing Deformation on η Precipitate Size and Distribution in Mg-Zn(-Y) Alloys 2012 , 191-196		
198	Rate-dependent hardening due to twinning in an ultrafine-grained magnesium alloy. <i>Acta Materialia</i> , 2012 , 60, 1818-1826	8.4	67
197	Development of High Strength and Toughness Magnesium Alloy by Grain Boundary Control 2012 , 345-347		1
196	Evaluating the effect of pre-ageing deformation on η precipitate size and distribution in Mg-Zn(-Y) Alloys 2012 , 191-196		
195	Formation of Nano-Scale Twins and Low Angle Grain Boundaries during Fracture of a Fine Grained Magnesium Alloys 2012 , 93-97		
194	Orientation relationships between icosahedral clusters in hexagonal MgZn ₂ and monoclinic Mg ₄ Zn ₇ phases in Mg-Zn(-Y) alloys. <i>Philosophical Magazine</i> , 2011 , 91, 2634-2644	1.6	22
193	Crystallographic relationship of orthorhombic ϵ -Al ₅ Mg ₁₁ Zn ₄ phase to icosahedral quasicrystalline phase. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 4676-4681	5.7	6
192	Strengthening Mg-Al-Zn Alloy by Repetitive Oblique Shear Strain 2011 , 211-214		2
191	Fracture Mechanism and Toughness in Fine- and Coarse-Grained Magnesium Alloys 2011 , 25-28		2
190	Effect of Quasicrystal Phase Particle Dispersion on Mechanical Properties in Mg-Zn-Al Alloys. <i>Materials Transactions</i> , 2011 , 52, 1111-1115	1.3	1
189	Ultra-fine grain size and isotropic very high strength by direct extrusion of chill-cast MgZn alloys containing quasicrystal phase. <i>Scripta Materialia</i> , 2011 , 64, 661-664	5.6	86

188	Damping properties in Mg ₂ Ni alloy with dispersion of quasicrystal phase particle. <i>Materials Letters</i> , 2011 , 65, 3251-3253	3.3	13
187	Deformation Mechanism in the Crack-Tip Region of Fine-Grained Magnesium Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011 , 42, 2475-2480	2.3	3
186	High temperature processing of Mg ₂ Ni alloys containing quasicrystal phase for high strength. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 6647-6651	5.3	47
185	Strengthening Mg-Al-Zn Alloy by Repetitive Oblique Shear Strain 2011 , 211-214		
184	Fracture Mechanism and Toughness in Fine- and Coarse-Grained Magnesium Alloys 2011 , 25-28		
183	Improved Processing of Mg-Zn-Y Alloys Containing Quasicrystal Phase for Isotropic High Strength and Ductility 2011 , 239-244		
182	OS19-3-2 Production of ultra fine grain size by direct extrusion of a chill cast Mg-Zn-Y alloy containing quasicrystal phase with a very high isotropic strength. <i>The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics</i> , 2011 , 2011.10, _OS19-3-2-	0	
181	OS19-3-4 Strengthening Mg-Al-Zn Alloys by Severe Plastic Rolling. <i>The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics</i> , 2011 , 2011.10, _OS19-3-4-	0	
180	Superplastic Behavior in Magnesium Alloy with Dispersion of Quasicrystal Phase Particle. <i>Key Engineering Materials</i> , 2010 , 433, 291-295	0.4	
179	Medical application of magnesium and its alloys as degradable biomaterials 2010 , 318-320		4
178	The structure of precipitates in Mg ₂ Ni alloys. <i>Philosophical Magazine Letters</i> , 2010 , 90, 641-651	1	19
177	Structural relationships among MgZn ₂ and Mg ₄ Zn ₇ phases and transition structures in Mg-Zn-Y alloys. <i>Philosophical Magazine</i> , 2010 , 90, 3355-3374	1.6	37
176	Nanoindentation creep behavior of grain boundary in pure magnesium. <i>Philosophical Magazine Letters</i> , 2010 , 90, 883-890	1	50
175	Ductile fracture mechanism in fine-grained magnesium alloy. <i>Philosophical Magazine Letters</i> , 2010 , 90, 831-839	1	38
174	Texture and mechanical properties of superplastically deformed magnesium alloy rod. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 6350-6358	5.3	20
173	Strengthening Mg ₂ Al ₃ Zn alloy by repetitive oblique shear strain with caliber roll. <i>Scripta Materialia</i> , 2010 , 62, 113-116	5.6	48
172	Enhancing Fracture Toughness of Magnesium Alloy by Formation of Low-Angle Grain Boundary Structure. <i>Advanced Engineering Materials</i> , 2010 , 12, 837-842	3.5	15
171	Deformation mechanism near crack-tip by finite element analysis and microstructure observation in magnesium alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 1761-1768	5.3	23

170	Deformation Behavior of Bulk Metallic Glasses at High Strain Rates. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2010 , 59, 98-103	0.1	
169	Fracture mechanism of a coarse-grained magnesium alloy during fracture toughness testing. <i>Philosophical Magazine Letters</i> , 2009 , 89, 2-10	1	113
168	Grain refinement of magnesium alloy sheets by ARB using high-speed rolling mill. <i>Journal of Physics: Conference Series</i> , 2009 , 165, 012011	0.3	1
167	Structure of shear bands in Pd40Ni40P20 bulk metallic glass. <i>Journal of Materials Research</i> , 2009 , 24, 1-9	2.5	48
166	Microstructure evolution of Mg ₂ Zn binary alloy during a direct extrusion process. <i>Scripta Materialia</i> , 2009 , 60, 411-414	5.6	49
165	Rare-earth free wrought-processed magnesium alloy with dispersion of quasicrystal phase. <i>Scripta Materialia</i> , 2009 , 61, 705-708	5.6	25
164	Texture and mechanical properties of a superplastically deformed Mg ₉₂ Al ₈ Zn alloy sheet. <i>Scripta Materialia</i> , 2009 , 61, 883-886	5.6	8
163	Hardness Variation and Strain Distribution in Magnesium Alloy AZ31 Processed by Multi-pass Caliber Rolling. <i>Advanced Engineering Materials</i> , 2009 , 11, 654-658	3.5	29
162	Superplastic Behavior in Mg ₉₂ Zn ₈ Y Alloy with Dispersed Quasicrystal Phase Particles. <i>Advanced Engineering Materials</i> , 2009 , 11, 782-787	3.5	18
161	Microstructure evolution of Mg ₉₂ Al ₈ Zn alloys during compression test at low strain and temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 527, 370-375	5.3	5
160	Compressive properties of a closed-cell aluminum foam as a function of strain rate and temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 525, 1-6	5.3	84
159	Room temperature creep of fine-grained pure Mg: A direct comparison between nanoindentation and uniaxial tension. <i>Journal of Materials Research</i> , 2009 , 24, 1615-1618	2.5	34
158	Development of Fine-Grained Structure Caused by Friction Stir Welding Process of a ZK60A Magnesium Alloy. <i>Materials Transactions</i> , 2009 , 50, 610-617	1.3	16
157	Development of High Performance Magnesium Alloys to Structural Parts. <i>Journal of the Japan Society for Technology of Plasticity</i> , 2009 , 50, 291-295	0.3	
156	323 Influence of Morphology of Dispersed Quasi-crystalline Phase in Mg-Zn-Y Alloys on Their Wear Property. <i>The Proceedings of Conference of Kansai Branch</i> , 2009 , 2009.84, _3-23_	0	
155	Synthesis of high-strength bimodally grained iron by mechanical alloying and spark plasma sintering. <i>Scripta Materialia</i> , 2008 , 58, 759-762	5.6	57
154	Grain refinement of AZ91 alloy by introducing ultrasonic vibration during solidification. <i>Materials Letters</i> , 2008 , 62, 2872-2875	3.3	97
153	Precipitation control of calcium phosphate on pure magnesium by anodization. <i>Corrosion Science</i> , 2008 , 50, 2906-2913	6.8	86

152	Influence of pH and flow on the polarisation behaviour of pure magnesium in borate buffer solutions. <i>Corrosion Science</i> , 2008 , 50, 3561-3568	6.8	62
151	Effect of precipitate volume fraction on fracture toughness of extruded Mg ₉₂ Zn alloys. <i>Journal of Materials Research</i> , 2008 , 23, 1128-1135	2.5	23
150	High Strength and Fracture Toughness Balances in Extruded Mg-Zn-RE Alloys by Dispersion of Quasicrystalline Phase Particles. <i>Materials Transactions</i> , 2008 , 49, 1947-1952	1.3	32
149	Casting Surface of AZ91 Alloy and Its Reaction with Sand Mold. <i>Materials Transactions</i> , 2008 , 49, 1089-1093	0.3	1
148	Polarization Behavior of Pure Magnesium under a Controlled Flow in a NaCl Solution. <i>Materials Transactions</i> , 2008 , 49, 1456-1461	1.3	20
147	Fatigue Behaviors and Microstructures in an Extruded Mg-Al-Zn Alloy. <i>Materials Transactions</i> , 2008 , 49, 681-684	1.3	19
146	Effect of Ultrasonic Vibration Pretreatment on Microstructural Evolution and Mechanical Properties of Extruded AZ91 Alloy. <i>Materials Transactions</i> , 2008 , 49, 972-975	1.3	13
145	Influence of Temperature and Grain Size on Threshold Stress for Superplastic Flow in a Fine-Grained Magnesium Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2008 , 39, 2351-2362	2.3	21
144	Microstructure and mechanical properties of AZ91 alloy produced with ultrasonic vibration. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 487, 120-123	5.3	68
143	High strength and fracture toughness balance on the extruded Mg ₉₂ Al ₈ Zn alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 459, 366-370	5.3	102
142	Effect of temperature of differential speed rolling on room temperature mechanical properties and texture in an AZ31 magnesium alloy. <i>Journal of Materials Processing Technology</i> , 2007 , 182, 644-647	5.3	113
141	Plasticity and microstructure of Zr ₄₀ Ti ₄₀ Al bulk metallic glasses. <i>Scripta Materialia</i> , 2007 , 57, 173-176	5.6	112
140	Compressive strength and yield asymmetry in extruded Mg ₉₂ Ni ₈ alloys containing quasicrystal phase. <i>Scripta Materialia</i> , 2007 , 56, 935-938	5.6	98
139	High fracture toughness of extruded Mg ₉₂ Ni alloy by the synergistic effect of grain refinement and dispersion of quasicrystalline phase. <i>Scripta Materialia</i> , 2007 , 56, 1091-1094	5.6	91
138	A high-strength bulk nanocrystalline Al ₈₅ Fe alloy processed by mechanical alloying and spark plasma sintering. <i>Scripta Materialia</i> , 2007 , 57, 189-192	5.6	90
137	Effect of dominant diffusion process on cavitation behavior in superplastic Mg ₉₂ Al ₈ Zn alloy. <i>Scripta Materialia</i> , 2007 , 57, 1008-1011	5.6	16
136	Stress-strain behaviors of Ti-based bulk metallic glass and their nanostructures. <i>Journal of Materials Research</i> , 2007 , 22, 1406-1413	2.5	30
135	High Strain Rate Deformation Behavior of Mg ₉₂ Al ₈ Zn Alloys at Elevated Temperatures. <i>Key Engineering Materials</i> , 2007 , 340-341, 107-112	0.4	16

134	Effect of precipitate shapes on fracture toughness in extruded Mg-Zn-Zr magnesium alloys. <i>Journal of Materials Research</i> , 2007 , 22, 965-973	2.5	55
133	Fracture toughness in direct extruded MgAlZn alloys. <i>Journal of Materials Research</i> , 2007 , 22, 2598-2607	2.5	28
132	Synergetic Effect of Grain Refinement and Spherical Shaped Precipitate Dispersions in Fracture Toughness of a Mg-Zn-Zr Alloy. <i>Materials Transactions</i> , 2007 , 48, 1422-1426	1.3	25
131	Glass Forming Ability and Mechanical Properties of Quinary Zr-Based Bulk Metallic Glasses. <i>Materials Transactions</i> , 2007 , 48, 1322-1326	1.3	25
130	Large apparent compressive strain of metallic glasses. <i>Philosophical Magazine Letters</i> , 2007 , 87, 625-635	1	23
129	2304 Crack propagation and fracture toughness of Magnesium alloys. <i>The Proceedings of the JSME Annual Meeting</i> , 2007 , 2007.1, 325-326		
128	Fracture toughness in MgAlZn alloy processed by equal-channel-angular extrusion. <i>Scripta Materialia</i> , 2006 , 54, 633-638	5.6	76
127	Compressive response of a closed-cell aluminum foam at high strain rate. <i>Scripta Materialia</i> , 2006 , 54, 533-537	5.6	140
126	Effect of solid-solution strengthening on fracture toughness in extruded MgZn alloys. <i>Scripta Materialia</i> , 2006 , 55, 593-596	5.6	72
125	Deformation structure after fracture-toughness test of MgAlZn alloys processed by equal-channel-angular extrusion. <i>Philosophical Magazine Letters</i> , 2006 , 86, 195-204	1	37
124	Fracture Toughness in Ultra Fine-Grained Magnesium Alloy. <i>Materials Science Forum</i> , 2006 , 503-504, 155-160	1.4	18
123	Fracture toughness in a rolled AZ31 magnesium alloy. <i>Journal of Alloys and Compounds</i> , 2006 , 417, 209-213	1.3	42
122	Fracture Toughness in an Extruded ZK60 Magnesium Alloy. <i>Materials Transactions</i> , 2006 , 47, 995-998	1.3	28
121	Computational Study of Compressive Mechanical Response in Two-dimensional Cellular Solids under Microstructural Control. <i>Materials Transactions</i> , 2005 , 46, 1221-1229	1.3	1
120	Characterization of Nanocrystal Dispersed Cu60Zr30Ti10 Metallic Glass. <i>Materials Transactions</i> , 2005 , 46, 1264-1270	1.3	32
119	Symmetric and asymmetric deformation transition in the regularly cell-structured materials. Part II: Theoretical study. <i>International Journal of Solids and Structures</i> , 2005 , 42, 2211-2224	3.1	8
118	Symmetric and asymmetric deformation transition in the regularly cell-structured materials. Part I: experimental study. <i>International Journal of Solids and Structures</i> , 2005 , 42, 2199-2210	3.1	17
117	High strain rate deformation behavior of an AZ91 magnesium alloy at elevated temperatures. <i>Materials Letters</i> , 2005 , 59, 1511-1515	3.3	135

116	Effect of texture on tensile properties at elevated temperatures in an AZ31 magnesium alloy. <i>Scripta Materialia</i> , 2005 , 52, 449-454	5.6	94
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112	Effect of grain refinement on fracture toughness in extruded pure magnesium. <i>Scripta Materialia</i> , 2005 , 53, 1059-1064	5.6	151
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