Toshiji Mukai

List of Publications by Year
in descending order

273	11,969	22146	32838
papers	citations	59 h-index	100 g-index

290	290	290	4889
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The activity of non-basal slip systems and dynamic recovery at room temperature in fine-grained AZ31B magnesium alloys. Acta Materialia, 2003, 51, 2055-2065.	7.9	1,220
2	Ductility enhancement in AZ31 magnesium alloy by controlling its grain structure. Scripta Materialia, 2001, 45, 89-94.	5.2	756
3	Experimental study of energy absorption in a close-celled aluminum foam under dynamic loading. Scripta Materialia, 1999, 40, 921-927.	5.2	284
4	Effect of strain rate on compressive behavior of a Pd40Ni40P20 bulk metallic glass. Intermetallics, 2002, 10, 1071-1077.	3.9	283
5	Deformation mechanism in a coarse-grained Mgâ€“Alâ€“Zn alloy at elevated temperatures. International Journal of Plasticity, 2001, 17, 387-397.	8.8	230
6	Dynamic response of a Pd40Ni40P20 bulk metallic glass in tension. Scripta Materialia, 2002, 46, 43-47.	5.2	189
7	Effect of temperature and grain size on the dominant diffusion process for superplastic flow in an AZ61 magnesium alloy. Acta Materialia, 1999, 47, 3753-3758.	7.9	186
8	Effect of grain refinement on fracture toughness in extruded pure magnesium. Scripta Materialia, 2005, 53, 1059-1064.	5.2	173
9	Low temperature superplasticity of a fine-grained ZK60 magnesium alloy processed by equal-channel-angular extrusion. Scripta Materialia, 2002, 46, 851-856.	5.2	168
10	TEM and 3DAP characterization of an age-hardened Mgâ€“Caâ€“Zn alloy. Scripta Materialia, 2005, 53, 675-679.	5.2	162
11	Grain Size Control of Commercial Wrought Mg-Al-Zn Alloys Utilizing Dynamic Recrystallization. Materials Transactions, 2001, 42, 1200-1205.	1.2	159
12	Compressive response of a closed-cell aluminum foam at high strain rate. Scripta Materialia, 2006, 54, 533-537.	5.2	158
13	High strain rate deformation behavior of an AZ91 magnesium alloy at elevated temperatures. Materials Letters, 2005, 59, 1511-1515.	2.6	153
14	Differential speed rolling of an AZ31 magnesium alloy and the resulting mechanical properties. Journal of Materials Science, 2004, 39, 1477-1480.	3.7	148
15	Effect of texture on fracture toughness in extruded AZ31 magnesium alloy. Scripta Materialia, 2005, 53, 541-545.	5.2	138
16	Plasticity and microstructure of Zrâ€“Cuâ€“Al bulk metallic glasses. Scripta Materialia, 2007, 57, 173-176.	5.2	130
17	Effect of temperature of differential speed rolling on room temperature mechanical properties and texture in an AZ31 magnesium alloy. Journal of Materials Processing Technology, 2007, 182, 644-647.	6.3	128
18	Fracture mechanism of a coarse-grained magnesium alloy during fracture toughness testing. Philosophical Magazine Letters, 2009, 89, 2-10.	1.2	128

#	Article	IF	Citations
19	Effect of Grain Refinement on Tensile Ductility in ZK60 Magnesium Alloy under Dynamic Loading. Materials Transactions, 2001, 42, 1177-1181.	1.2	114
20	Realization of high-strain-rate superplasticity at low temperatures in a Mgâ€“Znâ€“Zr alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 307, 119-128.	5.6	113
21	High strength and fracture toughness balance on the extruded Mgâ€“Caâ€“Zn alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 459, 366-370.	5.6	113
22	Grain refinement of AZ91 alloy by introducing ultrasonic vibration during solidification. Materials Letters, 2008, 62, 2872-2875.	2.6	108
23	Superplastic deformation mechanism in powder metallurgy magnesium alloys and composites. Acta Materialia, 2001, 49, 2027-2037.	7.9	107
24	Compressive strength and yield asymmetry in extruded Mgâ€“Znâ€“Ho alloys containing quasicrystal phase. Scripta Materialia, 2007, 56, 935-938.	5.2	106
25	High fracture toughness of extruded Mgâ€“Znâ€“Y alloy by the synergistic effect of grain refinement and dispersion of quasicrystalline phase. Scripta Materialia, 2007, 56, 1091-1094.	5.2	105
26	Superplasticity in a ZK60 magnesium alloy at low temperatures. Scripta Materialia, 1999, 40, 477-484.	5.2	103
27	Low temperature diffusion bonding in a superplastic AZ31 magnesium alloy. Scripta Materialia, 2003, 48, 1249-1254.	5.2	103
28	Ultra-fine grain size and isotropic very high strength by direct extrusion of chill-cast Mgâ€“Znâ€“Y alloys containing quasicrystal phase. Scripta Materialia, 2011, 64, 661-664.	5.2	102
29	Elastic and damping properties from room temperature to 673 K in an AZ31 magnesium alloy. Scripta Materialia, 2004, 51, 291-295.	5.2	101
30	A high-strength bulk nanocrystalline Alâ€“Fe alloy processed by mechanical alloying and spark plasma sintering. Scripta Materialia, 2007, 57, 189-192.	5.2	100
31	Effect of texture on tensile properties at elevated temperatures in an AZ31 magnesium alloy. Scripta Materialia, 2005, 52, 449-454.	5.2	98
32	Fabrication of bulk nanocrystalline Feâ€“C alloy by spark plasma sintering of mechanically milled powder. Scripta Materialia, 2005, 53, 863-868.	5.2	97
33	Hallâ€“Petch relation for deformation twinning in solid solution magnesium alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 561, 378-385.	5.6	97
34	Precipitation control of calcium phosphate on pure magnesium by anodization. Corrosion Science, 2008, 50, 2906-2913.	6.6	95
35	High temperature compressive properties over a wide range of strain rates in an AZ31 magnesium alloy. Journal of Materials Science, 2005, 40, 1577-1582.	3.7	94
36	Hallâ€“Petch Breakdown in Fine-Grained Pure Magnesium at Low Strain Rates. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 894-902.	2.2	92

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37	Application of superplasticity in commercial magnesium alloy for fabrication of structural components. Materials Science and Technology, 2000, 16, 1314-1319.	1.6	90
38	Compressive properties of a closed-cell aluminum foam as a function of strain rate and temperature. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 525, 1-6.	5.6	89
39	Superplastic behavior of a Zrâ€“10Alâ€“5Ti-â€“17.9Cuâ€“14.6Ni metallic glass in the supercooled liquid region. Scripta Materialia, 1999, 40, 1021-1027.	5.2	87
40	Dynamic deformation behavior of a face-centered cubic FeCoNiCrMn high-entropy alloy. Science Bulletin, 2018, 63, 362-368.	9.0	86
41	Microstructure and mechanical properties of AZ91 alloy produced with ultrasonic vibration. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 487, 120-123.	5.6	85
42	Fracture toughness in Mgâ€“Alâ€“Zn alloy processed by equal-channel-angular extrusion. Scripta Materialia, 2006, 54, 633-638.	5.2	83
43	Enhancement of energy absorption in a closed-cell aluminum by the modification of cellular structures. Scripta Materialia, 1999, 41, 1055-1060.	5.2	82
44	Effect of solid-solution strengthening on fracture toughness in extruded Mgâ€“Zn alloys. Scripta Materialia, 2006, 55, 593-596.	5.2	81
45	High-strain-rate superplasticity at low temperature in a ZK61 magnesium alloy produced by powder metallurgy. Scripta Materialia, 1999, 41, 209-213.	5.2	78
46	Processing of an open-cellular AZ91 magnesium alloy with a low density of 0.05 g/cm3. Journal of Materials Science Letters, 1999, 18, 1477-1480.	0.5	77
47	Nanostructured Alâ€“Fe alloys produced by e-beam deposition: static and dynamic tensile properties. Acta Materialia, 2003, 51, 4197-4208.	7.9	76
48	Rate-dependent hardening due to twinning in an ultrafine-grained magnesium alloy. Acta Materialia, 2012, 60, 1818-1826.	7.9	74
49	Effect of precipitation on strength and ductility in a Mgâ€“Znâ€“Y alloy. Journal of Alloys and Compounds, 2013, 550, 114-123.	5.5	72
50	Superplastic behavior in a mechanically alloyed aluminum composite reinforced with SiC particulates. Scripta Metallurgica Et Materialia, 1992, 26, 185-190.	1.0	71
51	Dynamic mechanical properties of a near-nano aluminum alloy processed by equal-channel-angular-extrusion. Scripta Materialia, 1998, 10, 755-765.	0.5	71
52	Processing of Cellular Magnesium Materials. Advanced Engineering Materials, 2000, 2, 184-187.	3.5	71
53	Experimental study of a structural magnesium alloy with high absorption energy under dynamic loading. Scripta Materialia, 1998, 39, 1249-1253.	5.2	70
54	Influence of pH and flow on the polarisation behaviour of pure magnesium in borate buffer solutions. Corrosion Science, 2008, 50, 3561-3568.	6.6	69

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55	Positive exponent strain-rate superplasticity in mechanically alloyed aluminum IN9021. Scripta Metallurgica Et Materialia, 1991, 25, 2053-2057.	1.0	67
56	Influence of the magnesium concentration on the relationship between fracture mechanism and strain rate in high purity Alî—¸Mg alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1994, 176, 181-189.	5.6	67
57	Synthesis of high-strength bimodally grained iron by mechanical alloying and spark plasma sintering. Scripta Materialia, 2008, 58, 759-762.	5.2	67
58	Effect of precipitate shapes on fracture toughness in extruded Mgâ€“Znâ€“Zr magnesium alloys. Journal of Materials Research, 2007, 22, 965-973.	2.6	63
59	Dynamic compressive behavior of an ultra-lightweight magnesium foam. Scripta Materialia, 1999, 41, 365-371.	5.2	61
60	The effect of size and distribution of rod-shaped precipitates on the strength and ductility of a Mgâ€“Zn alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 539, 230-237.	5.6	58
61	Effect of alloying elements on room temperature tensile ductility in magnesium alloys. Philosophical Magazine, 2016, 96, 2671-2685.	1.6	58
62	Effects of heat treatment on compressive properties of AZ91 Mg and SG91A Al foams with open-cell structure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 280, 225-228.	5.6	56
63	Elevated temperature mechanical properties of A 5056 Al-Mg alloy processed by equal-channel-angular-extrusion. Scripta Materialia, 1997, 36, 699-705.	5.2	55
64	Effect of aluminum or zinc solute addition on enhancing impact fracture toughness in Mgâ€“Ca alloys. Acta Materialia, 2016, 104, 283-294.	7.9	55
65	Fracture toughness in a rolled AZ31 magnesium alloy. Journal of Alloys and Compounds, 2006, 417, 209-213.	5.5	54
66	Microstructure evolution of Mgâ€“Zn binary alloy during a direct extrusion process. Scripta Materialia, 2009, 60, 411-414.	5.2	54
67	Nanoindentation creep behavior of grain boundary in pure magnesium. Philosophical Magazine Letters, 2010, 90, 883-890.	1.2	54
68	Structure of shear bands in Pd₄₀Ni₄₀P₂₀bulk metallic glass. Journal of Materials Research, 2009, 24, 1-9.	2.6	53
69	Consolidation of machined magnesium alloy chips by hot extrusion utilizing superplastic flow. Journal of Materials Science, 2001, 36, 5007-5011.	3.7	52
70	Strengthening Mgâ€“Alâ€“Zn alloy by repetitive oblique shear strain with caliber roll. Scripta Materialia, 2010, 62, 113-116.	5.2	52
71	Influence of strain rate on the mechanical properties in fine-grained aluminum alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1995, 204, 12-18.	5.6	51
72	High temperature processing of Mgâ€“Znâ€“Y alloys containing quasicrystal phase for high strength. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 6647-6651.	5.6	50

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73	Experimental study for the improvement of crashworthiness in AZ91 magnesium foam controlling its microstructure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 308, 283-287.	5.6	49
74	Ductile fracture mechanism in fine-grained magnesium alloy. Philosophical Magazine Letters, 2010, 90, 831-839.	1.2	49
75	Effect of deformation twins on damping capacity in extruded pure magnesium. Journal of Alloys and Compounds, 2015, 626, 60-64.	5.5	47
76	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. International Journal of Plasticity, 2018, 100, 34-51.	8.8	47
77	Materials Processing for Structural Stability in a ZK60 Magnesium Alloy. Materials Transactions, 2003, 44, 775-781.	1.2	46
78	Superplasticity of a Particle-Strengthened WE43 Magnesium Alloy. Materials Transactions, 2001, 42, 157-162.	1.2	45
79	High-Strain-Rate Superplasticity in an AZ91 Magnesium Alloy Processed by Ingot Metallurgy Route. Materials Transactions, 2002, 43, 78-80.	1.2	45
80	High strain rate superplasticity in an Alî—¸Ni-misch metal alloy produced from its amorphous powders. Scripta Metallurgica Et Materialia, 1992, 26, 191-196.	1.0	44
81	Effect of microstructure on strength and ductility of high strength quasicrystal phase dispersed Mgâ€“Znâ€“Y alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 611, 242-251.	5.6	44
82	Fabrication of biodegradable materials with high strength by grain refinement of Mgâ€“0.3â€¯at.% Ca alloys. Materials Letters, 2018, 223, 65-68.	2.6	44
83	Low temperature superplasticity in a magnesium-based composite. Scripta Materialia, 2000, 42, 249-255.	5.2	43
84	Structural relationships among MgZn₂and Mg₄Zn₇phases and transition structures in Mg-Zn-Y alloys. Philosophical Magazine, 2010, 90, 3355-3374.	1.6	42
85	Effect of grain boundary structures on grain boundary sliding in magnesium. Materials Letters, 2012, 76, 32-35.	2.6	42
86	Effect of solute atoms on grain boundary sliding in magnesium alloys. Philosophical Magazine, 2014, 94, 1345-1360.	1.6	42
87	Superplastic characteristics in an extruded AZ31 magnesium alloy.. Keikinzoku/Journal of Japan Institute of Light Metals, 1999, 49, 401-404.	0.4	41
88	Room temperature creep of fine-grained pure Mg: A direct comparison between nanoindentation and uniaxial tension. Journal of Materials Research, 2009, 24, 1615-1618.	2.6	41
89	Deformation structure after fracture-toughness test of Mgâ€“Alâ€“Zn alloys processed by equal-channel-angular extrusion. Philosophical Magazine Letters, 2006, 86, 195-204.	1.2	40
90	Compressive properties of open-cellular SG91A Al and AZ91 Mg. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1999, 272, 455-458.	5.6	39

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91	Fabrication of a magnesium alloy with excellent ductility for biodegradable clips. Acta Biomaterialia, 2016, 29, 468-476.	8.3	36
92	Fracture Toughness in an Extruded ZK60 Magnesium Alloy. Materials Transactions, 2006, 47, 995-998.	1.2	35
93	High Strength and Fracture Toughness Balances in Extruded Mg-Zn-RE Alloys by Dispersion of Quasicrystalline Phase Particles. Materials Transactions, 2008, 49, 1947-1952.	1.2	34
94	Rare-earth free wrought-processed magnesium alloy with dispersion of quasicrystal phase. Scripta Materialia, 2009, 61, 705-708.	5.2	34
95	Microstructural evolution during dry wear test in magnesium and Mgâ€“Y alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 561, 371-377.	5.6	34
96	Effect of Micro-Alloying Elements on Deformation Behavior in Mg–Y Binary Alloys. Materials Transactions, 2014, 55, 182-187.	1.2	34
97	Characterization of Nanocrystal Dispersed Cu₆₀Zr₃₀Ti₁₀ Metallic Glass. Materials Transactions, 2005, 46, 1264-1270.	1.2	33
98	Compressive deformation behavior of Al2O3 foam. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 277, 213-217.	5.6	32
99	Grain Refinement of Commercial Magnesium Alloys for High-Strain-Rate-Superplastic Forming. Materials Science Forum, 2000, 350-351, 159-170.	0.3	32
100	Stressâ€“strain behaviors of Ti-based bulk metallic glass and their nanostructures. Journal of Materials Research, 2007, 22, 1406-1413.	2.6	32
101	Fracture toughness in direct extruded Mgâ€“Alâ€“Zn alloys. Journal of Materials Research, 2007, 22, 2598-2607.	2.6	32
102	Hardness Variation and Strain Distribution in Magnesium Alloy AZ31 Processed by Multiâ€pass Caliber Rolling. Advanced Engineering Materials, 2009, 11, 654-658.	3.5	32
103	Superplasticity in doubly extruded magnesium composite ZK60/SiC/17p. Materials Science and Technology, 1998, 14, 32-35.	1.6	31
104	Superplastic Behavior in Commercial Wrought Magnesium Alloys. Materials Science Forum, 2000, 350-351, 171-176.	0.3	31
105	Effect of Cell Size on the Dynamic Compressive Properties of Open-Celled Aluminum Foams. Materials Transactions, 2002, 43, 2548-2553.	1.2	31
106	Mechanical Properties of Mg-Y-Zn Alloy Processed by Equal-Channel-Angular Extrusion. Materials Transactions, 2003, 44, 463-467.	1.2	31
107	Secondary Processing of AZ31 Magnesium Alloy Concomitant with Grain Growth or Dynamic Recrystallization. Materials Transactions, 2004, 45, 2377-2382.	1.2	31
108	Superplastic behavior at high strain rates of a mechanically alloyed Alî—¸Mgî—¸Li alloy. Scripta Metallurgica Et Materialia, 1992, 26, 761-766.	1.0	30

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109	Deformation Mechanism of Fine-Grained Superplasticity in Metallic Materials Expected from the Phenomenological Constitutive Equation. Materials Transactions, 2004, 45, 2497-2502.	1.2	30
110	Strain-rate dependence of mechanical properties in AA5056 Alâ€“Mg alloy processed by equal-channel-angular-extrusion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1998, 247, 270-274.	5.6	29
111	Development of a Closed Cell Aluminum Alloy Foam with Enhancement of the Compressive Strength. Materials Transactions, 2001, 42, 2118-2123.	1.2	29
112	Material design for magnesium alloys with high deformability. Philosophical Magazine, 2015, 95, 869-885.	1.6	29
113	Ductility enhancement of ultra fine-grained aluminum under dynamic loading. Scripta Materialia, 2001, 44, 1493-1496.	5.2	28
114	Synergetic Effect of Grain Refinement and Spherical Shaped Precipitate Dispersions in Fracture Toughness of a Mg-Zn-Zr Alloy. Materials Transactions, 2007, 48, 1422-1426.	1.2	28
115	Microyielding and damping capacity in magnesium. Scripta Materialia, 2014, 87, 1-4.	5.2	28
116	Processing of Ductile Magnesium Alloy under Dynamic Tensile Loading. Materials Transactions, 2001, 42, 2652-2654.	1.2	27
117	Effect of precipitate volume fraction on fracture toughness of extruded Mgâ€“Zn alloys. Journal of Materials Research, 2008, 23, 1128-1135.	2.6	27
118	The Processing and Properties of Superplastic Magnesium Alloys and Their Composites. Materia Japan, 2000, 39, 347-354.	0.1	26
119	Glass Forming Ability and Mechanical Properties of Quinary Zr-Based Bulk Metallic Glasses. Materials Transactions, 2007, 48, 1322-1326.	1.2	26
120	In vivo corrosion behaviour of magnesium alloy in association with surrounding tissue response in rats. Biomedical Materials (Bristol), 2016, 11, 025001.	3.3	26
121	Low Temperature Superplasticity in a ZK60 Magnesium Alloy. Materials Transactions, JIM, 1999, 40, 809-814.	0.9	25
122	Deformation mechanism near crack-tip by finite element analysis and microstructure observation in magnesium alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 1761-1768.	5.6	25
123	Orientation relationships between icosahedral clusters in hexagonal MgZn2 and monoclinic Mg4Zn7 phases in Mg-Zn(-Y) alloys. Philosophical Magazine, 2011, 91, 2634-2644.	1.6	25
124	Influence of Temperature and Grain Size on Threshold Stress for Superplastic Flow in a Fine-Grained Magnesium Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2008, 39, 2351-2362.	2.2	24
125	Very high strain rate superplasticity in a mechanically alloyed IN9052 aluminum alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1992, 159, L1-L4.	5.6	23
126	High-strain-rate superplastic behavior in a super-rapidly-solidified Al-Si system alloy. Scripta Materialia, 1997, 37, 673-678.	5.2	23

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127	ãƒžã‚°ãƒã‚·ã‚¦ãƒ è¬…å¡‘æ€§ãªç”©ç©¶. Keikinzoku/Journal of Japan Institute of Light Metals, 2001, 51, 503-508.	0.4	23
128	Guide for Enhancement of Room Temperature Ductility in Mg Alloys at High Strain Rates. Materials Science Forum, 2003, 419-422, 171-176.	0.3	23
129	Large apparent compressive strain of metallic glasses. Philosophical Magazine Letters, 2007, 87, 625-635.	1.2	23
130	Texture and mechanical properties of superplastically deformed magnesium alloy rod. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 6350-6358.	5.6	23
131	Development of a new biodegradable operative clip made of a magnesium alloy: Evaluation of its safety and tolerability for canine cholecystectomy. Surgery, 2017, 161, 1553-1560.	1.9	23
132	The structure of precipitates in Mgâ€“Znâ€“Y alloys. Philosophical Magazine Letters, 2010, 90, 641-651.	1.2	22
133	Polarization Behavior of Pure Magnesium under a Controlled Flow in a NaCl Solution. Materials Transactions, 2008, 49, 1456-1461.	1.2	21
134	Fatigue Behaviors and Microstructures in an Extruded Mg-Al-Zn Alloy. Materials Transactions, 2008, 49, 681-684.	1.2	21
135	Superplastic Behavior in Mgï£¿Znï£¿Y Alloy with Dispersed Quasicrystal Phase Particles. Advanced Engineering Materials, 2009, 11, 782-787.	3.5	21
136	Dislocation structures in a near-isotropic Mg-Y extruded alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 698, 238-248.	5.6	21
137	Mechanisms of High Strain-Rate Superplasticity of Al-14 mass%Ni-14 mass%Mm (Misch Metal) Alloy Produced from Amorphous Powder. Materials Transactions, JIM, 1995, 36, 1467-1475.	0.9	20
138	New Forming Process of Three-Dimensionally Shaped Magnesium Parts Utilizing High-Strain-Rate Superplasticity. Materials Transactions, 2004, 45, 2531-2536.	1.2	20
139	Symmetric and asymmetric deformation transition in the regularly cell-structured materials. Part I: experimental study. International Journal of Solids and Structures, 2005, 42, 2199-2210.	2.7	20
140	Effect of dominant diffusion process on cavitation behavior in superplastic Mgâ€“Alâ€“Zn alloy. Scripta Materialia, 2007, 57, 1008-1011.	5.2	20
141	Energy Absorption in Closed-Cell Al-Zn-Mg-Ca-Ti Foam. Materials Transactions, 2002, 43, 1778-1781.	1.2	19
142	Fracture Toughness in Ultra Fine-Grained Magnesium Alloy. Materials Science Forum, 2006, 503-504, 155-160.	0.3	19
143	Development of Fine-Grained Structure Caused by Friction Stir Welding Process of a ZK60A Magnesium Alloy. Materials Transactions, 2009, 50, 610-617.	1.2	19
144	Enhancing Fracture Toughness of Magnesium Alloy by Formation of Lowâ€Angle Grain Boundary Structure. Advanced Engineering Materials, 2010, 12, 837-842.	3.5	19

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145	Damping properties in Mgâ€“Znâ€“Y alloy with dispersion of quasicrystal phase particle. Materials Letters, 2011, 65, 3251-3253.	2.6	19
146	Molecular dynamics simulation of grain boundary plasticity in magnesium and solid-solution magnesium alloys. Computational Materials Science, 2013, 77, 424-429.	3.0	19
147	Ductility Enhancement in Magnesium Alloys under Dynamic Loading. Materials Science Forum, 2000, 350-351, 97-104.	0.3	18
148	Development of Very High Strength and Ductile Dilute Magnesium Alloys by Dispersion of Quasicrystal Phase. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 3232-3240.	2.2	18
149	Domain structure and lattice effects in a severely plastically deformed CoCrFeMnNi high entropy alloy. Journal of Alloys and Compounds, 2020, 812, 152028.	5.5	18
150	High Strain Rate Deformation Behavior of Mgâ€“Alâ€“Zn Alloys at Elevated Temperatures. Key Engineering Materials, 2007, 340-341, 107-112.	0.4	17
151	Deformation Behavior of Binary Mg-Y Alloy Under Dynamic Compression Loading. Jom, 2014, 66, 305-311.	1.9	17
152	The role of dislocations in high-strain-rate superplasticity of an Alâ€“Niâ€“misch metal alloy. Acta Materialia, 1998, 46, 4469-4478.	7.9	16
153	<i>In vitro</i> and <i>in vivo</i> analysis of the biodegradable behavior of a magnesium alloy for biomedical applications. Dental Materials Journal, 2019, 38, 11-21.	1.8	16
154	Pure-Shear Test for Investigation of Non-Basal Slip System Operation of Mg Alloy Single Crystal with and without Y. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2013, 77, 466-472.	0.4	16
155	Mechanical and damping properties of equal channel angular extrusion-processed Mgâ€“Ca alloys. Materials Letters, 2017, 201, 144-147.	2.6	15
156	Deformation behavior of ultra-fine-grained Mg-0.3Âat% Al alloy in compression. Journal of Alloys and Compounds, 2017, 726, 651-657.	5.5	15
157	Effect of yttrium addition on the hot deformation behaviors and microstructure development of magnesium alloy. Journal of Alloys and Compounds, 2019, 786, 118-125.	5.5	15
158	Effect of cold-working on phase formation during heat treatment in CrMnFeCoNi system high-entropy alloys with Al addition. Journal of Alloys and Compounds, 2021, 872, 159668.	5.5	15
159	Thermomechanical processing and superplastic behaviour in aluminium-based alloys produced from amorphous or nanocrystalline powders. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1994, 181-182, 1068-1071.	5.6	14
160	Improvement of Crashworthiness in Ultra Lightweight Metallic Foam by Heat-Treatment for Microstructural Modification of Base Material. Materials Transactions, 2001, 42, 2087-2092.	1.2	14
161	Title is missing!. Journal of Materials Science, 2003, 38, 3925-3932.	3.7	14
162	Effect of Ultrasonic Vibration Pretreatment on Microstructural Evolution and Mechanical Properties of Extruded AZ91 Alloy. Materials Transactions, 2008, 49, 972-975.	1.2	14

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163	Superplastic Deformation Behavior in Commercial Magnesium Alloy AZ61. Materials Transactions, JIM, 1999, 40, 931-934.	0.9	13
164	Formation of nano-twin domains by nucleation and multiplication of twins during fracture of a magnesium alloy. Philosophical Magazine, 2014, 94, 898-913.	1.6	13
165	Strength and ductility under dynamic loading in fine- grained IN905XL aluminum alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1995, 26, 2521.	2.2	11
166	Experimental Study of the Mechanical Properties at Elevated Temperatures in Commercial Mg-Al-Zn Alloys for Superplastic Forming. Key Engineering Materials, 2000, 171-174, 337-342.	0.4	11
167	The Effect of Temperature and Flow Stress for Climb-Controlled Dislocation Creep in Magnesium Alloy. Materials Science Forum, 2003, 426-432, 605-610.	0.3	11
168	Effects of grain size on deep drawability of AZ31 magnesium alloy sheets into square cup.. Keikinzoku/Journal of Japan Institute of Light Metals, 2003, 53, 50-54.	0.4	11
169	Influence of strain rate on tensile properties in some commercial aluminum alloys.. Keikinzoku/Journal of Japan Institute of Light Metals, 1993, 43, 252-257.	0.4	10
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