

Yasumasa Chino

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.

185 papers	6,054 citations	41 h-index	73 g-index
186 ext. papers	6,666 ext. citations	2.9 avg, IF	5.91 L-index

#	Paper	IF	Citations
185	Development of Flame-Retardant Wrought Magnesium Alloys and Application of the Alloys to High-Speed Railway Body. <i>Minerals, Metals and Materials Series</i> , 2022 , 29-35	0.3	1
184	Towards Improving Cold Formability of a Concentrated Mg-Al-Zn-Ca Alloy Sheet. <i>Minerals, Metals and Materials Series</i> , 2022 , 227-231	0.3	
183	Corrosion of Linear-Friction-Welded AZ91 and AZX912 Mg-Al Alloys. <i>Journal of the Electrochemical Society</i> , 2022 , 169, 031508	3.9	0
182	Simulation-aided analysis on mechanical properties of dilute Mg-Zn-Ca alloy sheets. <i>Journal of Alloys and Compounds</i> , 2022 , 906, 164285	5.7	2
181	Improvement of deep drawing formability of Mg-6Al-1Zn magnesium alloy sheets with high strength utilizing aging precipitation. <i>Scripta Materialia</i> , 2022 , 215, 114709	5.6	0
180	Effect of bending and tension deformation on the texture evolution and stretch formability of Mg-Zn-RE-Zr alloy. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2022 , 29, 1334-1342	3.1	1
179	Improving mechanical properties of an explosive-welded magnesium/aluminum clad plate by subsequent hot-rolling. <i>Journal of Alloys and Compounds</i> , 2021 , 162957	5.7	1
178	Effect of Bending-Tension Deformation on Texture Evolution and Room Temperature Formability of AZ31 Alloy Sheet Rolled at High Temperature. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2021 , 85, 129-137	0.4	1
177	Discharge Performance of Mg-6 wt%Al Alloy Anodes Containing Ca and Zn for Magnesium-Air Batteries. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 050507	3.9	3
176	Linear Friction Welding of an AZ91 Magnesium Alloy and the Effect of Ca Additions on the Weld Characteristics. <i>Materials</i> , 2021 , 14,	3.5	2
175	Effect of Rolling Temperature on Room Temperature Formability and Texture Formation of Mg-3 mass%Al-1 mass%Sn Alloy Sheet. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2021 , 85, 120-127	0.4	1
174	Solute segregation assisted grain boundary precipitation and its impact to ductility of a precipitation-hardenable magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 819, 141481	5.3	4
173	Relationship between Calculated Segregation, Texture and Room Temperature Formability of Binary Magnesium Alloys. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2021 , 85, 382-390	0.4	0
172	Substantial improvement in cold formability of concentrated Mg-Al-Zn-Ca alloy sheets by high temperature final rolling. <i>Acta Materialia</i> , 2021 , 220, 117328	8.4	10
171	Simultaneously achieving excellent mechanical properties and high thermal conductivity in a high Mn-containing Mg-Zn-Ca-Al-Mn sheet alloy. <i>Journal of Alloys and Compounds</i> , 2021 , 887, 161394	5.7	6
170	Performance of AZ31 Alloy as Anodes for Primary Magnesium-Air Batteries under High Current Discharge. <i>Materials Transactions</i> , 2020 , 61, 200-205	1.3	4
169	A combined experimental and numerical study on room temperature formable magnesium-silver-calcium alloys. <i>Journal of Alloys and Compounds</i> , 2020 , 834, 155017	5.7	15

168	Calculated Grain Boundary Segregation in Mg-Zn-Ca Alloys and Its Correlation to the Texture Formation and Formability of the Alloys. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2020 , 84, 318-325	0.4	3
167	A room temperature formable magnesium-silver-calcium sheet alloy with high ductility. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 774, 138923	5.3	15
166	Compositional optimization of Mg-Zn-Sr sheet alloys for enhanced room temperature stretch formability. <i>Journal of Alloys and Compounds</i> , 2020 , 818, 152891	5.7	16
165	Improving flame resistance and mechanical properties of magnesium-silver-calcium sheet alloys by optimization of calcium content. <i>Journal of Alloys and Compounds</i> , 2020 , 837, 155551	5.7	9
164	Microstructures and Mechanical Properties of Precipitation-Hardenable Magnesium-Silver-Calcium Alloy Sheets. <i>Metals</i> , 2020 , 10, 1632	2.3	2
163	Effects of Ca and Sr additions on microstructure, mechanical properties, and ignition temperature of hot-rolled Mg-Zn alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 769, 138474	5.3	24
162	Effect of NaCl Concentration on the Galvanic Corrosion Behavior of a Magnesium AZX611/Aluminum A6N01 Alloy Joint. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 061501	3.9	5
161	Improvement of mechanical properties of extruded AZX912 magnesium alloy using high-temperature solution treatment. <i>Journal of Materials Research</i> , 2019 , 34, 3725-3734	2.5	5
160	Effects of alloy compositions on ignition temperature of magnesium alloys. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2019 , 69, 46-53	0.3	2
159	Development of high-performance flame-retardant wrought magnesium alloys and evolution for application of the alloys to high-speed railway body. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2019 , 69, 22-29	0.3	3
158	Effects of Bending and Tension Deformation on Texture Evolution and Room Temperature Formability of AZ31B Alloy Sheets. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2019 , 83, 212-220	0.4	4
157	Effects of Calcium Concentration on Room Temperature Formability and Damping Properties of Rolled Mg-Ca Alloys. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2018 , 82, 249-255	0.4	4
156	Effects of Solution Treatment on Corrosion Properties of Mg-8 mass%Al-1 mass%Zn-2 mass%Ca (AZX612) and Mg-8 mass%Al-1 mass%Zn (AZ61) Alloys. <i>Materials Transactions</i> , 2018 , 59, 1173-1179	1.3	0
155	Discharge Behavior of Water-Activated Magnesium Battery 2018 ,		1
154	Enhanced room temperature formability of magnesium alloy sheets by suppression of basal texture formation. <i>Journal of Physics: Conference Series</i> , 2018 , 1063, 012008	0.3	2
153	An atomistic study of Y segregation at a {101 $\bar{1}$ }[101] double twin in Mg. <i>AIP Advances</i> , 2017 , 7, 035308	1.5	2
152	Atomic simulations of the effect of Y and Al segregation on the boundary characteristics of a double twin in Mg. <i>Journal of Applied Physics</i> , 2017 , 122, 165103	2.5	3
151	Development of Room Temperature Formability of Rolled Magnesium Alloy Sheets by Texture Control. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2017 , 81, 49-54	0.4	11

150	Stress Corrosion Cracking and Corrosion Resistance of Mg ₈₅ Al ₁₀ Zn ₅ Ca Extruded Magnesium Alloys. <i>Materials Transactions</i> , 2017 , 58, 1257-1263	1.3	2
149	Static recrystallization behavior of hot-rolled Mg-Zn-Ce magnesium alloy sheet. <i>Journal of Alloys and Compounds</i> , 2017 , 724, 981-990	5.7	20
148	Microstructure and mechanical properties of AZX912 magnesium alloy extruded at different temperatures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 679, 162-171	5.3	41
147	Effect of Reduction in Thickness and Rolling Conditions on Mechanical Properties and Microstructure of Rolled Mg-8Al-1Zn-1Ca Alloy. <i>Advances in Materials Science and Engineering</i> , 2017 , 2017, 1-9	1.5	8
146	Effects of Measurement Conditions on Ignition Temperature of Magnesium Alloys. <i>Materials Transactions</i> , 2017 , 58, 1616-1623	1.3	9
145	Effects of microstructure on plate bending fatigue properties of rolled Mg ₈₅ Al ₁₀ Zn ₅ Ca plates. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2017 , 67, 625-631	0.3	3
144	Research and Development on High Performance of Wrought Magnesium Alloys by Plastic Forming. <i>Journal of the Japan Society for Technology of Plasticity</i> , 2017 , 58, 1074-1078	0.3	2
143	Enhanced Mechanical Properties of Extruded Mg ₈₅ mass%Al ₁₀ mass%Zn ₅ mass%Ca Alloy. <i>Minerals, Metals and Materials Series</i> , 2017 , 269-274	0.3	
142	Stress corrosion cracking and corrosion resistance of Mg ₈₅ Al ₁₀ Zn ₅ Ca extruded magnesium alloys. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2016 , 66, 266-272	0.3	3
141	Effects of measurement conditions on ignition temperature of magnesium alloys. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2016 , 66, 273-279	0.3	1
140	Effects of Al concentration and Zn addition on microstructure and mechanical properties of Mg ₈₅ Al ₁₀ (Zn) ₅ Ca series magnesium alloy plates. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2016 , 66, 246-251	0.3	4
139	Influence of aluminum content on the texture and sheet formability of AM series magnesium alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 633, 144-153	5.3	52
138	Discharge properties of Mg ₈₅ Al ₁₀ Mn ₅ Ca and Mg ₈₅ Al ₁₀ Mn alloys as anode materials for primary magnesium-air batteries. <i>Journal of Power Sources</i> , 2015 , 297, 449-456	8.9	96
137	Effects of group II elements on the cold stretch formability of Mg-Zn alloys. <i>Acta Materialia</i> , 2015 , 83, 294-303	8.4	92
136	Effect of segregated Al on (left{{10bar 12} right}) and (left{{10bar 11} right}) twinning in Mg. <i>Journal of Materials Research</i> , 2015 , 30, 3629-3641	2.5	10
135	Enhanced Room-Temperature Stretch Formability of Mg-0.2 mass%Ce Alloy Sheets Processed by Combination of High-Temperature Pre-Annealing and Warm Rolling. <i>Materials Transactions</i> , 2015 , 56, 1096-1101	1.3	7
134	Effect of segregated elements on the interactions between twin boundaries and screw dislocations in Mg. <i>Journal of Applied Physics</i> , 2015 , 118, 034304	2.5	13
133	First-principles Study of Hydrogen-induced Embrittlement in Fe Grain Boundary with Cr Segregation. <i>ISIJ International</i> , 2015 , 55, 1131-1134	1.7	8

132	Texture and stretch formability of AZ61 and AM60 magnesium alloy sheets processed by high-temperature rolling. <i>Journal of Alloys and Compounds</i> , 2015 , 632, 94-102	5.7	82
131	Development of New Magnesium Alloy Sheets with High Press Formability at Room Temperature. <i>Journal of the Japan Society for Technology of Plasticity</i> , 2015 , 50, 897-901	0.3	1
130	Microstructural and textural evolution of pure titanium during differential speed rolling and subsequent annealing. <i>Journal of Materials Science</i> , 2014 , 49, 3166-3176	4.3	10
129	Improved plastic anisotropy of Mg ₉₂ Ni ₈ alloys exhibiting high-stretch formability: A first-principles study. <i>Acta Materialia</i> , 2014 , 65, 207-214	8.4	68
128	Interaction mechanisms of screw dislocations with and twin boundaries in Mg. <i>Philosophical Magazine</i> , 2014 , 94, 285-305	1.6	22
127	Influences of grain size on mechanical properties and cold formability of Mg ₉₂ Al ₈ Zn alloy sheets with similar weak initial textures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 611, 152-161	5.3	36
126	Effects of Microstructure on Discharge Behavior of AZ91 Alloy as Anode for Mg–Air Battery. <i>Materials Transactions</i> , 2014 , 55, 1202-1207	1.3	31
125	Texture Formation and Room-Temperature Formability of Rolled Mg–Zn–Ce Alloys. <i>Materials Transactions</i> , 2014 , 55, 1190-1195	1.3	12
124	Microstructure and Mechanical Properties of Alternately-Compressed AZ31 Mg Alloy in Two Orthogonal Directions. <i>Materials Transactions</i> , 2014 , 55, 739-741	1.3	1
123	Mechanical and chemical effects of solute elements on generalized stacking fault energy of Mg. <i>Journal of Materials Research</i> , 2014 , 29, 2576-2586	2.5	12
122	($\{10\bar{1}0\}$ twins in the rolled Mg ₉₂ Ni ₈ alloy with high formability. <i>Journal of Materials Research</i> , 2014 , 29, 3024-3031	2.5	12
121	Atomic simulations of (101 $\bar{2}$), (101 $\bar{1}$) twinning and (101 $\bar{2}$) detwinning in magnesium. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 015003	1.8	5
120	Twinning behaviour of AZ31 Mg alloy alternately compressed in two orthogonal directions. <i>Philosophical Magazine</i> , 2014 , 94, 3960-3977	1.6	9
119	Interactions of a screw dislocation with a {101 $\bar{1}$ 02} double twin in Mg. <i>Acta Materialia</i> , 2013 , 61, 4714-4725	4.5	18
118	Fabrication of Mg alloy tubes for biodegradable stent application. <i>Materials Science and Engineering C</i> , 2013 , 33, 4746-50	8.3	44
117	Influence of initial texture on cold deep drawability of Mg ₉₂ Al ₈ Zn alloy sheets. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 565, 359-372	5.3	24
116	Variation in Texture and Lankford Value of 1070 Aluminum Sheet Rolled by Cone-shaped Roll. <i>Journal of Materials Science and Technology</i> , 2013 , 29, 175-179	9.1	5
115	Effects of initial microstructure on the microstructural evolution and stretch formability of warm rolled Mg ₉₂ Al ₈ Zn alloy sheets. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 587, 150-160	5.3	23

114	Different annealing behaviours of warm rolled Mg β Al β Zn alloy sheets with dynamic recrystallized microstructure and deformation microstructure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 560, 232-240	5.3	31
113	Softening due to disordered grain boundaries in nanocrystalline Co. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 345702	1.8	2
112	Enhancement of Room Temperature Stretch Formability of Mg–1.5 mass%Mn Alloy by Texture Control. <i>Materials Transactions</i> , 2013 , 54, 392-398	1.3	21
111	Application of the Flame-Retardant Magnesium Alloy to High Speed Rail Vehicles. <i>Materia Japan</i> , 2013 , 52, 484-490	0.1	10
110	Static recrystallization and mechanical properties of Mg β Y β RE magnesium alloy sheet processed by differential speed rolling at 823K. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 538, 281-287	5.3	50
109	Influence of rolling temperature on static recrystallization behavior of AZ31 magnesium alloy. <i>Journal of Materials Science</i> , 2012 , 47, 4561-4567	4.3	44
108	Hydrogen embrittlement in a magnesium grain boundary: a first-principles study. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 085701	1.8	8
107	Influence of initial texture on rolling and annealing textures of Mg β Al β Zn alloy sheets processed by high temperature rolling. <i>Journal of Alloys and Compounds</i> , 2012 , 537, 80-86	5.7	52
106	Annealing behaviour of Mg β Al β Zn alloy sheet obtained by a combination of high-temperature rolling and subsequent warm rolling. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 4854-4860	5.7	44
105	Improvement of stretch formability of Mg β Al β Zn alloy sheet by high temperature rolling at finishing pass. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 7579-7584	5.7	124
104	Formation of Nanoporous Structure on Pt Plate Surface by Alloying/Dealloying Technique. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2011 , 75, 42-46	0.4	3
103	Effects of Zinc Concentration on the Stretch Formability at Room Temperature of the Rolled Mg-Zn-Ca Alloys. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2011 , 75, 35-41	0.4	28
102	Elastic and Damping Properties of AZ31 Magnesium Alloy Sheet Processed by High-Temperature Rolling. <i>Materials Transactions</i> , 2011 , 52, 2040-2044	1.3	9
101	Solid Solution Softening Mechanisms in Mg-Ca Alloy. <i>Materials Transactions</i> , 2011 , 52, 1840-1843	1.3	8
100	Effects of Hydrogen on the Mechanical Properties of Pure Magnesium. <i>Materials Transactions</i> , 2011 , 52, 1123-1126	1.3	11
99	Electronic Structure and Solid Solution Softening in Iron Alloys. <i>Materials Transactions</i> , 2011 , 52, 1324-1326	1.3	2
98	Effects of Ca on Tensile Properties and Stretch Formability at Room Temperature in Mg-Zn and Mg-Al Alloys. <i>Materials Transactions</i> , 2011 , 52, 1477-1482	1.3	144
97	Microstructure, Texture and Mechanical Properties of Mg-Zn-Ce Alloy Extruded at Different Temperatures. <i>Materials Transactions</i> , 2011 , 52, 1104-1107	1.3	8

96	Solid Solution Strengthening for Mg-3.0 Mass Pct (2.71 At. Pct)Al and Mg-0.06 Mass Pct (0.036 At. Pct)Ca Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011 , 42, 1965-1973	2.3	22
95	Electrochemical stability of self-assembled monolayers on nanoporous Au. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 12277-84	3.6	20
94	Solid/electrolyte interface phenomena during anodic polarization of Pd _{0.2} M _{0.8} (M=Fe, Co, Ni) alloys in H ₂ SO ₄ . <i>Journal of Alloys and Compounds</i> , 2010 , 494, 309-314	5.7	26
93	Texture and Mechanical Properties of Mg-3Al-1Zn-0.5Mn-1.5Ca Alloy Produced by Torsion Extrusion. <i>Materials Transactions</i> , 2010 , 51, 872-877	1.3	4
92	Enhancement of Stretch Formability at Room Temperature by Addition of Ca in Mg-Zn Alloy. <i>Materials Transactions</i> , 2010 , 51, 818-821	1.3	78
91	Influence of Zn concentration on stretch formability at room temperature of Mg ₉₇ Zn ₃ alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 528, 566-572	5.3	96
90	Nanoporous surface fabricated on metal sheets by alloying/dealloying technique. <i>Materials Letters</i> , 2010 , 64, 2341-2343	3.3	11
89	Influences of initial texture on microstructure and stretch formability of Mg ₉₇ Al ₃ Zn alloy sheet obtained by a combination of high temperature and subsequent warm rolling. <i>Scripta Materialia</i> , 2010 , 63, 395-398	5.6	48
88	Improvement of stretch formability of pure titanium sheet by differential speed rolling. <i>Scripta Materialia</i> , 2010 , 63, 473-476	5.6	48
87	Nanoporous Ni and Ni-Cu Fabricated by Dealloying. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1228, 60201		
86	Enhanced stretch formability of Mg ₉₇ Al ₃ Zn alloy sheets rolled at high temperature (723K). <i>Scripta Materialia</i> , 2009 , 60, 447-450	5.6	95
85	Creating Aligned, Elongated Pores in Titanium Foams by Swaging of Preforms with Ductile Space-Holder. <i>Advanced Engineering Materials</i> , 2009 , 11, 52-55	3.5	18
84	Enhanced stretch formability of Mn-free AZ31 Mg alloy rolled by cross-roll rolling. <i>Journal of Materials Science</i> , 2009 , 44, 1821-1827	4.3	28
83	Stretch formability of Mn-free AZ31 Mg alloy rolled at high temperature (723 K). <i>Journal of Materials Science</i> , 2009 , 44, 4593-4598	4.3	11
82	Texture and stretch formability of a rolled Mg ₉₇ Zn alloy containing dilute content of Y. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 513-514, 394-400	5.3	163
81	Deformation characteristics at room temperature under biaxial tensile stress in textured AZ31 Mg alloy sheets. <i>Acta Materialia</i> , 2009 , 57, 1476-1485	8.4	104
80	Enhancement of tensile ductility of magnesium alloy produced by torsion extrusion. <i>Scripta Materialia</i> , 2008 , 59, 399-402	5.6	75
79	Tensile Properties and Stretch Formability of Mg-1.5 mass%-0.2 mass%Ce Sheet Rolled at 723 K. <i>Materials Transactions</i> , 2008 , 49, 1710-1712	1.3	40

78	Deformation Characteristics of Recycled AZ91 Mg Alloy Containing Oxide Contaminants. <i>Materials Transactions</i> , 2008 , 49, 1093-1100	1.3	8
77	Texture and Stretch Formability of Mg-1.5 mass%Zn-0.2 mass%Ce Alloy Rolled at Different Rolling Temperatures. <i>Materials Transactions</i> , 2008 , 49, 2916-2918	1.3	66
76	Direction Dependence of Compressive Properties of Mg Processed by Directional Solidification. <i>Materials Transactions</i> , 2008 , 49, 393-397	1.3	3
75	Twinning behavior and deformation mechanisms of extruded AZ31 Mg alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 486, 481-488	5.3	181
74	Enhancement of tensile ductility and stretch formability of magnesium by addition of 0.2 wt%(0.035 at%)Ce. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 494, 343-349	5.3	205
73	Directionally freeze-cast titanium foam with aligned, elongated pores. <i>Acta Materialia</i> , 2008 , 56, 105-113	3.4	198
72	Compressive deformation behavior at room temperature [773 K in Mg-0.2 mass%(0.035at.%)Ce alloy. <i>Acta Materialia</i> , 2008 , 56, 387-394	8.4	180
71	Stretch formability at elevated temperature of a cross-rolled AZ31 Mg alloy sheet with different rolling routes. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 473, 195-200	5.3	73
70	Mechanical anisotropy due to twinning in an extruded AZ31 Mg alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 485, 311-317	5.3	116
69	Life cycle inventory study on magnesium alloy substitution in vehicles. <i>Energy</i> , 2007 , 32, 1352-1360	7.9	140
68	Stretch formability of AZ31 Mg alloy sheets at different testing temperatures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 466, 90-95	5.3	87
67	Mechanical properties at elevated temperature of a hot-deformed Mg ₉₂ Al ₇ Ca ₁ Mn ₁ Si ₁ alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 452-453, 31-36	5.3	16
66	Monotonic and cyclic compressive properties of porous aluminum fabricated by spacer method. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 459, 286-293	5.3	35
65	Microstructure and press formability of a cross-rolled magnesium alloy sheet. <i>Materials Letters</i> , 2007 , 61, 1504-1506	3.3	33
64	Mechanical Properties and Press Formability of Mg Alloy Processed by Cross-Roll Rolling. <i>Materials Science Forum</i> , 2007 , 561-565, 179-182	0.4	
63	Enhancement of Press Formability of Rolled Mg Alloy Sheet by Using Cross Rolling Processes. <i>Materials Science Forum</i> , 2007 , 539-543, 1615-1619	0.4	
62	Superior Corrosion Resistance and Mechanical Properties of a Mg Alloy Recycled by Solid-State Process. <i>Materials Science Forum</i> , 2007 , 539-543, 1656-1661	0.4	
61	New recycling process of magnesium alloy machined chips by hot extrusion. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2007 , 57, 250-255	0.3	4

60	Press formability of a rolled AZ31 Mg alloy sheet with controlled texture. <i>Materials Letters</i> , 2006 , 60, 173-176	3.3	73
59	Mechanical and Corrosion Properties of AZ31 Magnesium Alloy Repeatedly Recycled by Hot Extrusion. <i>Materials Transactions</i> , 2006 , 47, 1040-1046	1.3	31
58	Influence of Rolling Routes on Press Formability of a Rolled AZ31 Mg Alloy Sheet. <i>Materials Transactions</i> , 2006 , 47, 2555-2560	1.3	14
57	Enhanced corrosion properties of pure Mg and AZ31 Mg alloy recycled by solid-state process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 435-436, 275-281	5.3	28
56	Enhanced formability at elevated temperature of a cross-rolled magnesium alloy sheet. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 441, 349-356	5.3	133
55	Processing and mechanical properties of a porous low carbon steel with a controlled porous structure by imposition of a static magnetic field. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 417, 281-286	5.3	5
54	Influence of distribution of oxide contaminants on fatigue behavior in AZ31 Mg alloy recycled by solid-state processing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 424, 355-360	5.3	21
53	Mechanical properties of AZ31 Mg alloy recycled by severe deformation. <i>Journal of Materials Research</i> , 2006 , 21, 754-760	2.5	39
52	Fatigue behavior of AZ31 magnesium alloy produced by solid-state recycling. <i>Journal of Materials Science</i> , 2006 , 41, 3229-3232	4.3	12
51	Study on New Recycling Process of Magnesium Alloys Using Plastic Deformation. <i>Journal of the Japan Society for Technology of Plasticity</i> , 2006 , 47, 1212-1213	0.3	
50	Theoretical Analysis on Crystal Alignment of Feeble Magnetic Materials under High Magnetic Field. <i>Materials Transactions</i> , 2005 , 46, 1311-1317	1.3	33
49	Deformation Characteristics at Elevated Temperature in Recycled 5083 Aluminum Alloy by Solid State Recycling. <i>Materials Transactions</i> , 2005 , 46, 2637-2640	1.3	7
48	Compressive Deformation Behavior at Elevated Temperatures in a Closed-Cell Aluminum Foam. <i>Materials Transactions</i> , 2005 , 46, 1677-1680	1.3	27
47	Mechanical Properties of Mg–Al–Ca Alloy Recycled by Solid–State Recycling. <i>Materials Transactions</i> , 2005 , 46, 2592-2595	1.3	30
46	Compressive properties at elevated temperatures of porous aluminum processed by the spacer method. <i>Journal of Materials Research</i> , 2005 , 20, 3385-3390	2.5	11
45	Superplastic Forming of AZ31 Mg Alloy Recycled by Solid-State Processing. <i>Materials Science Forum</i> , 2005 , 488-489, 567-570	0.4	4
44	An Investigation of Cavity Growth Rate in Superplastic Al and Mg Alloys. <i>Materials Science Forum</i> , 2005 , 475-479, 2945-2948	0.4	1
43	Blow Forming of Recycled 5083 Al Alloy and AZ31 Mg Alloy by Solid State Recycling. <i>Materials Science Forum</i> , 2005 , 475-479, 2919-2922	0.4	1

42	Cavity growth rate in superplastic 5083 Al and AZ31 Mg alloys. <i>Journal of Materials Research</i> , 2004 , 19, 3382-3388	2.5	13
41	Solid-state recycling for machined chips of iron by hot extrusion and annealing. <i>Journal of Materials Research</i> , 2004 , 19, 1524-1530	2.5	17
40	Novel equilibrium two phase Mg alloy with the long-period ordered structure. <i>Scripta Materialia</i> , 2004 , 51, 711-714	5.6	119
39	Effect of metal powder size on the gas expansion behavior of 7075 Al alloy in a semisolid state. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 382, 35-40	5.3	8
38	Blow Forming of Mg Alloy Recycled by Solid-State Recycling. <i>Materials Transactions</i> , 2004 , 45, 361-364	1.3	29
37	Tensile Properties and Blow Forming of 5083 Aluminum Alloy Recycled by Solid-State Recycling. <i>Materials Transactions</i> , 2004 , 45, 2509-2515	1.3	14
36	Corrosion and Mechanical Properties of Recycled 5083 Aluminum Alloy by Solid State Recycling. <i>Materials Transactions</i> , 2003 , 44, 1284-1289	1.3	19
35	Influence of Grain Size on Elongation at Elevated Temperatures in AZ31 Mg Alloy. <i>Materials Transactions</i> , 2003 , 44, 490-495	1.3	26
34	Solid Recycling of an AZ31 Mg Alloy with a Vapor Deposition Coating Layer of High Purity Mg. <i>Materials Transactions</i> , 2003 , 44, 578-582	1.3	3
33	An Experimental Investigation of Effects of Specimen Size Parameters on Compressive and Tensile Properties in a Closed Cell Al Foam. <i>Materials Transactions</i> , 2003 , 44, 633-636	1.3	12
32	Tensile Properties of Directionally Solidified AZ91 Mg Alloy. <i>Materials Transactions</i> , 2003 , 44, 436-439	1.3	23
31	Mechanical Properties and Blow Forming of Rolled AZ31 Mg Alloy Sheet. <i>Materials Transactions</i> , 2003 , 44, 484-489	1.3	14
30	Processing of fine-grained aluminum foam by spark plasma sintering. <i>Journal of Materials Science Letters</i> , 2003 , 22, 1407-1409		45
29	Fabrication of nanoscale Ti honeycombs by focused ion beam. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 344, 365-367	5.3	17
28	An investigation of compressive deformation behaviour for AZ91 Mg alloy containing a small volume of liquid. <i>Acta Materialia</i> , 2003 , 51, 3309-3318	8.4	79
27	Compressive Behavior and Energy Absorption of Constructed Cellular Aluminum. <i>Materials Science Forum</i> , 2003 , 426-432, 441-446	0.4	
26	Simulation of Mg Sheet Press Cell Materials. <i>Materials Science Forum</i> , 2003 , 426-432, 587-592	0.4	
25	Processing and Mechanical Properties of Open-Cell Mg Alloys. <i>Materials Science Forum</i> , 2003 , 419-422, 1013-1018	0.4	5

24	Recycling of AZ31 Mg Alloy with High Purity Mg Deposition Layer by Hot Working (Solid Recycling). <i>Materials Science Forum</i> , 2003 , 419-422, 671-676	0.4	4
23	Recycling of Iron and Steel by Solid State Processes. <i>Materials Science Forum</i> , 2003 , 426-432, 3317-3322	0.4	
22	Processing and Characterization of Porous Aluminum. <i>Materials Science Forum</i> , 2003 , 426-432, 417-422	0.4	4
21	High Performance Mg Alloy by Grain Refinement. <i>Materials Science Forum</i> , 2003 , 426-432, 3299-3304	0.4	
20	Processing of a porous 7075 Al alloy by bubble expansion in a semi-solid state. <i>Scripta Materialia</i> , 2002 , 47, 769-773	5.6	19
19	Processing and mechanical properties of autogenous titanium implant materials. <i>Journal of Materials Science: Materials in Medicine</i> , 2002 , 13, 397-401	4.5	192
18	Focused ion beam fabrication of amorphous and polycrystalline Fe ₇₈ B ₁₃ Si ₉ alloys. <i>Journal of Materials Science Letters</i> , 2002 , 21, 837-839		5
17	Mechanical and corrosion properties of a medium carbon steel (S45C) recycled by solid recycling process. <i>Journal of Materials Science Letters</i> , 2002 , 21, 1695-1697		6
16	Compressive Deformation Characteristics of Open-Cell Mg Alloys with Controlled Cell Structure. <i>Materials Transactions</i> , 2002 , 43, 1298-1305	1.3	32
15	Superplasticity and Cavitation of Recycled AZ31 Magnesium Alloy Fabricated by Solid Recycling Process. <i>Materials Transactions</i> , 2002 , 43, 2437-2442	1.3	50
14	Mechanical Properties and Press Formability at Room Temperature of AZ31 Mg Alloy Processed by Single Roller Drive Rolling. <i>Materials Transactions</i> , 2002 , 43, 2554-2560	1.3	98
13	Corrosion Resistance and Adhesion Properties of the Chromium-Free Coating Using an Urethane-Base Resin for AZ91E Magnesium Alloy. <i>Materials Transactions</i> , 2002 , 43, 340-342	1.3	1
12	Tensile Properties from Room Temperature to 673 K of Mg-0.9 mass%Ca Alloy Containing Lamella Mg ₂ Ca. <i>Materials Transactions</i> , 2002 , 43, 2643-2646	1.3	23
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