Shigeharu Kamado

List of Publications by Year
in descending order

220 papers	12,794 citations	16451 64 h-index	29157 104 g-index
223 all docs	223 docs citations	223 times ranked	3379 citing authors

#	Article	IF	Citations
1	Effects of La Addition on the Microstructure, Thermal Conductivity and Mechanical Properties of Mg-3Al-0.3Mn Alloys. Materials, 2022, 15, 1078.	2.9	9
2	Effect of Al Addition on Grain Refinement and Phase Transformation of the Mg-Gd-Y-Zn-Mn Alloy Containing LPSO Phase. Materials, 2022, 15, 1632.	2.9	2
3	Development of corrosion-resistant Mg-Al-Ca-Mn-Zn alloy sheet with good tensile properties and stretch formability. Journal of Alloys and Compounds, 2022, 910, 164752.	5.5	15
4	Effect of annealing on microstructure evolution and age-hardening behavior of dilute Mgâ€"Alâ€"Caâ€"Mn alloy. Journal of Materials Research and Technology, 2022, 18, 1754-1762.	5.8	7
5	Effect of grain boundary segregation on microstructure and mechanical properties of ultra-fine grained Mgâ€"Alâ€"Caâ€"Mn alloy wires. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 848, 143423.	5.6	11
6	Effect of microalloyed Al and Ca on mechanical properties and corrosion resistance of high-speed extruded Mg-2Zn-1Mn (mass%) alloy. Materials Characterization, 2022, 191, 112121.	4.4	5
7	Quasi-in-situ observing the rare earth texture evolution in an extruded Mg-Zn-Gd alloy with bimodal microstructure. Journal of Magnesium and Alloys, 2021, 9, 1797-1805.	11.9	40
8	Effect of extrusion ratio and temperature on microstructures and tensile properties of extruded Mg-Gd-Y-Mn-Sc alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 800, 140330.	5.6	34
9	Simultaneously Enhanced Mechanical Properties and Damping Capacities of ZK60 Mg Alloys Processed by Multi-Directional Forging. Acta Metallurgica Sinica (English Letters), 2021, 34, 265-277.	2.9	8
10	Improving room-temperature stretch formability of a high-alloyed Mgâ€"Alâ€"Caâ€"Mn alloy sheet by a high-temperature solution-treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 801, 140399.	5.6	26
11	Effect of aluminum content on stress corrosion cracking of AM60B and AZ91D magnesium alloy ingots. Keikinzoku/Journal of Japan Institute of Light Metals, 2021, 71, 60-67.	0.4	3
12	Improving tensile properties of a room-temperature formable and heat-treatable Mgâ€"6Zn-0.2Ca (wt.%) alloy sheet via micro-alloying of Al and Mn. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 772, 138690.	5.6	31
13	Role of Zn on the room temperature formability and strength in Mgâ€"Alâ€"Caâ€"Mn sheetÂalloys. Journal of Alloys and Compounds, 2020, 847, 156347.	5.5	35
14	Development of high-performance Mgâ€"Znâ€"Caâ€"Mn alloy via an extrusion process at relatively low temperature. Journal of Alloys and Compounds, 2020, 825, 153942.	5.5	22
15	New Mgâ€"Al based alloy sheet with good room-temperature stretch formability and tensile properties. Scripta Materialia, 2020, 180, 16-22.	5.2	46
16	Effects of Zn Additions on the Room Temperature Formability and Strength in Mgâ€"1.2Alâ€"0.5Caâ€"0.4Mn Alloy Sheets. Minerals, Metals and Materials Series, 2020, , 105-111.	0.4	0
17	Origins of high strength and ductility combination in a Guinier-Preston zone containing Mg-Al-Ca-Mn alloy. Scripta Materialia, 2019, 163, 121-124.	5.2	24
18	Effects of extrusion ratio and temperature on the mechanical properties and microstructure of as-extruded Mg-Gd-Y-(Nd/Zn)-Zr alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 762, 138080.	5.6	52

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19	Unexpected influence of prismatic plate-shaped precipitates on strengths and yield anisotropy in an extruded Mg-0.3Ca-1.0In-0.1Al-0.2Mn (at.%) alloy. Scripta Materialia, 2019, 169, 70-75.	5.2	15
20	Enhancing strength and creep resistance of Mgâ€“Gdâ€“Yâ€“Znâ€“Zr alloy by substituting Mn for Zr. Journal of Magnesium and Alloys, 2019, 7, 388-399.	11.9	73
21	Determining the strength of GP zones in Mg alloy AXM10304, both parallel and perpendicular to the zone. Acta Materialia, 2019, 171, 231-239.	7.9	22
22	Microstructure and mechanical properties of extruded Mgâ€“Gdâ€“Yâ€“Zn alloy with Mn or Zr addition. Journal of Materials Science, 2019, 54, 10473-10488.	3.7	23
23	Role of Ga on the high coercivity of Nd-rich Ga-doped Nd-Fe-B sintered magnet. Journal of Alloys and Compounds, 2019, 790, 750-759.	5.5	52
24	Ultrahigh strength Mg-Al-Ca-Mn extrusion alloys with various aluminum contents. Journal of Alloys and Compounds, 2019, 792, 130-141.	5.5	70
25	Effect of Partially Substituting Ca with Mischmetal on the Microstructure and Mechanical Properties of Extruded Mgâ€“Alâ€“Caâ€“Mn-Based Alloys. Acta Metallurgica Sinica (English Letters), 2019, 32, 205-217.	2.9	6
26	Bio-inspired graphene-based coatings on Mg alloy surfaces and their integrations of anti-corrosive/wearable performances. Carbon, 2019, 141, 154-168.	10.3	53
27	Origin of texture weakening in a rolled ZEX4101 alloy sheet and its effect on room temperature formability and tensile property. Journal of Alloys and Compounds, 2019, 782, 304-314.	5.5	39
28	Ultra-fine grained Mg-Zn-Ca-Mn alloy with simultaneously improved strength and ductility processed by equal channel angular pressing. Journal of Alloys and Compounds, 2019, 785, 410-421.	5.5	61
29	Comparison of coercivity and squareness in hot-deformed and sintered magnets produced from a Nd-Fe-B-Cu-Ga alloy. Scripta Materialia, 2019, 160, 9-14.	5.2	31
30	Altered ageing behaviour of a nanostructured Mg-8.2Gd-3.8Y-1.0Zn-0.4Zr alloy processed by high pressure torsion. Acta Materialia, 2018, 151, 260-270.	7.9	143
31	Alloy Design for the Development of Heat Treatable High Strength Mg Sheet Alloy with Excellent Room Temperature Formability. Minerals, Metals and Materials Series, 2018, , 373-377.	0.4	0
32	Deformation Behavior of Ultra-Strong and Ductile Mg-Gd-Y-Zn-Zr Alloy with Bimodal Microstructure. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 1931-1947.	2.2	135
33	Influence of size and distribution of W phase on strength and ductility of high strength Mg-5.1Zn-3.2Y-0.4Zr-0.4Ca alloy processed by indirect extrusion. Journal of Materials Science and Technology, 2018, 34, 277-283.	10.7	42
34	The partial substitution of Y with Gd on microstructures and mechanical properties of as-cast and as-extruded Mg-10Zn-6Y-0.5Zr alloy. Materials Characterization, 2018, 135, 96-103.	4.4	18
35	Microstructure evolution and mechanical properties of as-extruded Mg-Gd-Y-Zr alloy with Zn and Nd additions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 713, 234-243.	5.6	70
36	Enhancement of current-perpendicular-to-plane giant magnetoresistive outputs by improving B2-order in polycrystalline Co2(Mn0.6Fe0.4)Ge Heusler alloy films with the insertion of amorphous CoFeBTa underlayer. Acta Materialia, 2018, 142, 49-57.	7.9	19

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37	Improving mechanical properties and yield asymmetry in high-speed extrudable Mg-1.1Al-0.24Ca (wt%) alloy by high Mn addition. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 712, 12-19.	5.6	66
38	Correlation between dynamic recrystallization and formation of rare earth texture in a Mg-Zn-Gd magnesium alloy during extrusion. Scientific Reports, 2018, 8, 16800.	3.3	49
39	Enhancing mechanical properties of rolled Mg-Al-Ca-Mn alloy sheet by Zn addition. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 737, 223-229.	5.6	35
40	Effects of rolling conditions on the microstructure and mechanical properties in a Mgâ€"Alâ€"Caâ€"Mnâ€"Zn alloy sheet. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 730, 147-154.	5.6	44
41	Microstructure of a Dy-free Nd-Fe-B sintered magnet with 2â€T coercivity. Acta Materialia, 2018, 156, 146-157.	7.9	56
42	Bake-hardenable Mgâ€"Alâ€"Znâ€"Mnâ€"Ca sheetÂalloy processed by twin-roll casting. Acta Materialia, 2018, 158, 278-288.	7.9	131
43	Unveiling the formation of basal texture variations based on twinning and dynamic recrystallization in AZ31 magnesium alloy during extrusion. Acta Materialia, 2018, 157, 53-71.	7.9	352
44	Effect of extrusion parameters on microstructure and mechanical properties of Mg-7.5Gd-2.5Y-3.5Zn-0.9Ca-0.4Zr (wt%) alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 685, 159-167.	5.6	61
45	Development of Ultra-High Strength and Ductile Mgâ€"Gdâ€"Yâ€"Znâ€"Zr Alloys by Extrusion with Forced Air Cooling. Minerals, Metals and Materials Series, 2017, , 23-28.	0.4	1
46	Effect of LPSO and SFs on microstructure evolution and mechanical properties of Mg-Gd-Y-Zn-Zr alloy. Scientific Reports, 2017, 7, 40846.	3.3	110
47	Ageing behavior of extruded Mgâ€"8.2Gdâ€"3.8Yâ€"1.0Znâ€"0.4Zr (wt.%) alloy containing LPSO phase and Î³â€² precipitates. Scientific Reports, 2017, 7, 43391.	3.3	72
48	Development of High-Strength High-Speed-Extrudable Mgâ€"Alâ€"Caâ€"Mn Alloy. Minerals, Metals and Materials Series, 2017, , 17-21.	0.4	1
49	Effect of Ca on the Microstructure, Texture and Mechanical Properties in Mgâ€"Znâ€"Mn Based Alloy. Minerals, Metals and Materials Series, 2017, , 525-531.	0.4	1
50	Magnetization reversal of exchange-coupled and exchange-decoupled Nd-Fe-B magnets observed by magneto-optical Kerr effect microscopy. Acta Materialia, 2017, 135, 68-76.	7.9	103
51	Improving creep property of Mgâ€"Gdâ€"Zn alloy via trace Ca addition. Scripta Materialia, 2017, 139, 34-38.	5.2	32
52	A heat-treatable Mgâ€"Alâ€"Caâ€"Mnâ€"Zn sheet alloy with good room temperature formability. Scripta Materialia, 2017, 138, 151-155.	5.2	104
53	Evolution of microstructure and mechanical properties of an as-cast Mg-8.2Gd-3.8Y-1.0Zn-0.4Zr alloy processed by high pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 700, 312-320.	5.6	34
54	Strong and ductile age-hardening Mg-Al-Ca-Mn alloy that can be extruded as fast as aluminum alloys. Acta Materialia, 2017, 130, 261-270.	7.9	163

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55	Hot compression deformation behavior of Mg-9Gd-2.9Y-1.9Zn-0.4Zr-0.2Ca (wt%) alloy. Materials Characterization, 2017, 124, 40-49.	4.4	55
56	Effects of pre-annealing on microstructure and mechanical properties of as-extruded Mg-Gd-Y-Zn-Zr alloy. Journal of Alloys and Compounds, 2017, 729, 627-637.	5.5	71
57	Influence of Ca-Ce/La synergistic alloying on the microstructure and mechanical properties of extruded Mgâ€“Zn alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 708, 11-20.	5.6	52
58	Effect of Ca/Al ratio on microstructure and mechanical properties of Mg-Al-Ca-Mn alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 682, 423-432.	5.6	96
59	Enhancing strength and ductility of Mg-Zn-Gd alloy via slow-speed extrusion combined with pre-forging. Journal of Alloys and Compounds, 2017, 694, 1214-1223.	5.5	41
60	Microstructure evolution and mechanical properties of a high strength Mg-11.7Gd-4.9Y-0.3Zr (wt%) alloy prepared by pre-deformation annealing, hot extrusion and ageing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 703, 348-358.	5.6	95
61	Microstructure and Mechanical Properties of Mgâ€“Znâ€“Gd Alloys After Rolling or Extrusion Processes. Minerals, Metals and Materials Series, 2017, , 441-448.	0.4	0
62	Microstructure and Mechanical Properties of an Extruded Mg-1.58Zn-0.52Gd Alloy. Minerals, Metals and Materials Series, 2017, , 297-301.	0.4	1
63	Newly-developed flame-retardant magnesium alloy with superior age-hardenability and extrudability. Keikinzoku/Journal of Japan Institute of Light Metals, 2016, 66, 216-220.	0.4	3
64	High-speed extrusion of dilute Mg-Zn-Ca-Mn alloys and its effect on microstructure, texture and mechanical properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 678, 329-338.	5.6	83
65	Optimization of Mn content for high strengths in high-speed extruded Mg-0.3Al-0.3Ca (wt%) dilute alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 673, 443-449.	5.6	51
66	Enhanced corrosion and wear resistances by graphene oxide coating on the surface of Mg-Zn-Ca alloy. Carbon, 2016, 109, 340-351.	10.3	87
67	Ultrahigh strength as-extruded Mgâ€“10.3Znâ€“6.4Yâ€“0.4Zrâ€“0.5Ca alloy containing W phase. Materials and Design, 2016, 108, 391-399.	7.0	79
68	Rare earth texture and improved ductility in a Mg-Zn-Gd alloy after high-speed extrusion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 667, 233-239.	5.6	138
69	Structure and chemical compositions of the grain boundary phase in Nd-Fe-B sintered magnets. Acta Materialia, 2016, 115, 269-277.	7.9	160
70	Effect of warm rolling on the microstructure, texture and mechanical properties of extruded Mgâ€“Znâ€“Caâ€“Ce/La alloy. Materials Characterization, 2016, 115, 1-7.	4.4	22
71	Development of dilute Mgâ€“Znâ€“Caâ€“Mn alloy with high performance via extrusion. Journal of Alloys and Compounds, 2016, 668, 13-21.	5.5	101
72	Formation of non-ferromagnetic grain boundary phase in a Ga-doped Nd-rich Ndâ€“Feâ€“B sintered magnet. Scripta Materialia, 2016, 113, 218-221.	5.2	164

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73	Enhancement of L2 1 order and spin-polarization of Heusler alloy Co 2 MnSi thin film by Ag alloying. Scripta Materialia, 2016, 110, 70-73.	5.2	5
74	Microstructure, texture and mechanical properties of extruded Mgâ€“5Alâ€“2Ndâ€“0.2Mn alloy. Journal of Alloys and Compounds, 2015, 653, 100-107.	5.5	25
75	Texture weakening and ductility variation of Mgâ€“2Zn alloy with CA or RE addition. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 645, 196-204.	5.6	113
76	Reducing the tensionâ€“compression yield asymmetry of extruded Mgâ€“Znâ€“Ca alloy via equal channel angular pressing. Journal of Magnesium and Alloys, 2015, 3, 302-308.	11.9	51
77	Improving tensile properties of dilute Mg-0.27Al-0.13Ca-0.21Mn (at.%) alloy by low temperature high speed extrusion. Journal of Alloys and Compounds, 2015, 648, 428-437.	5.5	69
78	Effect of carbon on the coercivity and microstructure in fine-grained Ndâ€“Feâ€“B sintered magnet. Acta Materialia, 2015, 84, 506-514.	7.9	54
79	High-speed extrusion of heat-treatable Mgâ€“Alâ€“Caâ€“Mn dilute alloy. Scripta Materialia, 2015, 101, 28-31.	5.2	89
80	Influence of deformation rate on microstructure, texture and mechanical properties of indirect-extruded Mgâ€“Znâ€“Ca alloy. Materials Characterization, 2015, 104, 66-72.	4.4	60
81	Effect of calcium addition on microstructure and texture modification of Mg rolled sheets. Transactions of Nonferrous Metals Society of China, 2015, 25, 2875-2883.	4.2	16
82	Strong and ductile heat-treatable Mgâ€“Snâ€“Znâ€“Al wrought alloys. Acta Materialia, 2015, 99, 176-186.	7.9	146
83	Improving strength and ductility of Mgâ€“Gdâ€“Yâ€“Znâ€“Zr alloy simultaneously via extrusion, hot rolling and ageing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 643, 137-141.	5.6	100
84	Solute clustering and grain boundary segregation in extruded dilute Mgâ€“Gd alloys. Scripta Materialia, 2014, 93, 28-31.	5.2	150
85	Fatigue Behavior of Extruded Mg-Al-Ca-Mn Alloy with T6 Treatment at Elevated Temperature. Key Engineering Materials, 2014, 627, 417-420.	0.4	1
86	Effect of microalloyed Zr on the extruded microstructure of Mgâ€“6.2Zn-based alloys. Scripta Materialia, 2014, 90-91, 37-40.	5.2	54
87	Effect of finish-rolling conditions on mechanical properties and texture characteristics of AM50 alloy sheet. Transactions of Nonferrous Metals Society of China, 2014, 24, 2761-2766.	4.2	7
88	High strength and formable Mgâ€“6.2Znâ€“0.5Zrâ€“0.2Ca alloy sheet processed by twin roll casting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 609, 154-160.	5.6	67
89	Effect of extrusion ratio on microstructure, texture and mechanical properties of indirectly extruded Mgâ€“Znâ€“Ca alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 569, 48-53.	5.6	74
90	Effect of extrusion conditions on microstructure and mechanical properties of microalloyed Mgâ€“Snâ€“Alâ€“Zn alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 588, 318-328.	5.6	181

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91	FEM modeling of dynamical recrystallization during multi-pass hot rolling of AM50 alloy and experimental verification. Transactions of Nonferrous Metals Society of China, 2013, 23, 2678-2685.	4.2	13
92	Effects of trace Gd concentration on texture and mechanical properties ofÂhot-rolled Mgâ€“2Znâ€“xGd sheets. Journal of Magnesium and Alloys, 2013, 1, 23-30.	11.9	73
93	Effect of ageing treatment on the precipitation behaviour of Mgâ€“Gdâ€“Yâ€“Znâ€“Zr alloy. Journal of Alloys and Compounds, 2013, 550, 50-56.	5.5	69
94	Activation of {1 0<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:mover accent="true"><mml:mrow><mml:mn>1</mml:mn></mml:mrow><mml:mrow><mml:mo>Â¯</mml:mo></mml:mrow></mml:mover></m twinning and slip in high ductile Mgâ€“2.0Znâ€“0.8Gd rolled sheet with non-basal texture during tensile deformation at room temperature. Journal of Alloys and Compounds, 2013, 566, 98-107.	5.5	72
95	Effect of final rolling reduction on the microstructure and mechanical properties of Mgâ€“Gdâ€“Yâ€“Znâ€“Zr alloy sheets. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 559, 232-240.	5.6	49
96	Effect of cooling rate on the microstructure evolution and mechanical properties of homogenized Mgâ€“Gdâ€“Yâ€“Znâ€“Zr alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 559, 364-370.	5.6	61
97	Influence of rolling temperature on the microstructure and mechanical properties of Mgâ€“Gdâ€“Yâ€“Znâ€“Zr alloy sheets. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 559, 615-622.	5.6	63
98	Microstructure and mechanical properties of Mgâ€“Gdâ€“Yâ€“Znâ€“Zr alloy sheets processed by combined processes of extrusion, hot rolling and ageing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 559, 844-851.	5.6	51
99	Joining strength of AM50 magnesium alloy sheet jointed by in-situ heating self pierce riveting process. Keikinzoku/Journal of Japan Institute of Light Metals, 2012, 62, 237-243.	0.4	1
100	Effect of Cu addition on mechanical properties of Mg^|^ndash;Gd^|^ndash;Zn^|^ndash;Zr casting alloy. Keikinzoku/Journal of Japan Institute of Light Metals, 2012, 62, 272-277.	0.4	7
101	Development of an extruded Mgâ€“Znâ€“Ca-based alloy: new insight on the role of Mn addition in precipitation. Philosophical Magazine, 2012, 92, 1569-1582.	1.6	16
102	Intermetallic compounds and antiphase domains in Al/Mg compound casting. Intermetallics, 2012, 23, 182-186.	3.9	40
103	Microstructures and mechanical properties of high-strength Mgâ€“Gdâ€“Yâ€“Znâ€“Zr alloy sheets processed by severe hot rolling. Journal of Alloys and Compounds, 2012, 524, 46-52.	5.5	101
104	Microstructure and mechanical properties of rolled sheets of Mgâ€“Gdâ€“Yâ€“Znâ€“Zr alloy: As-cast versus as-homogenized. Journal of Alloys and Compounds, 2012, 528, 40-44.	5.5	38
105	Extruded Mgâ€“Znâ€“Caâ€“Mn alloys with low yield anisotropy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 558, 356-365.	5.6	86
106	Microstructure Characteristics and Mechanical Properties of Al 413/Mg Joint in Compound Casting Process. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 4667-4677.	2.2	34
107	Room and elevated temperature mechanical properties in the as-extruded Mgâ€“Alâ€“Caâ€“Mn alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 539, 163-169.	5.6	54
108	Effects of different cooling rates during two casting processes on the microstructures and mechanical properties of extruded Mgâ€“Alâ€“Caâ€“Mn alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 542, 71-78.	5.6	59

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109	Ultra high-strength Mgâ€“Gdâ€“Yâ€“Znâ€“Zr alloy sheets processed by large-strain hot rolling and ageing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 547, 93-98.	5.6	214
110	The microstructural evolution and superplastic behavior at low temperatures of Mgâ€“5.00Znâ€“0.92Yâ€“0.16Zr (wt.%) alloys after hot extrusion and ECAP process. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 549, 60-68.	5.6	36
111	Microstructure and mechanical properties of the Mgâ€“Gdâ€“Yâ€“Znâ€“Zr alloy fabricated by semi-continuous casting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 549, 128-135.	5.6	61
112	Microstructures and Mechanical Properties of As-Cast and Hot-Rolled Mg-8.43Li-0.353Ymm (Y-riched) Tj ETQq0 0 0 rgBT /Overlock 10 Tf Science, 2012, 43, 709-715.	2.2	14
113	Twins, shear bands and recrystallization of a Mgâ€“2.0%Znâ€“0.8%Gd alloy during rolling. Scripta Materialia, 2011, 64, 141-144.	5.2	127
114	High-strength extruded Mgâ€“Alâ€“Caâ€“Mn alloy. Scripta Materialia, 2011, 65, 269-272.	5.2	214
115	Twins, recrystallization and texture evolution of a Mgâ€“5.99Znâ€“1.76Caâ€“0.35Mn (wt.%) alloy during indirect extrusion process. Scripta Materialia, 2011, 65, 875-878.	5.2	62
116	Unexpected influence of Mn addition on the creep properties of a cast Mgâ€“2Alâ€“2Ca (mass%) alloy. Acta Materialia, 2011, 59, 7662-7672.	7.9	75
117	Dissimilar joining of Al/Mg light metals by compound casting process. Journal of Materials Science, 2011, 46, 6491-6499.	3.7	114
118	Effect of Mn addition on microstructure, texture and mechanical properties of Mgâ€“Znâ€“Ca alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 3741-3747.	5.6	98
119	Estimation of the transient interfacial heat flux between substrate/melt at the initiation of magnesium solidification on aluminum substrates using the lumped capacitance method. Applied Surface Science, 2011, 257, 5077-5082.	6.1	7
120	Effect of homogenization on microstructures and mechanical properties of hot compressed Mgâ€“9Alâ€“1Zn alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 2385-2393.	5.6	47
121	Microstructure and mechanical properties of extruded Mgâ€“8Gdâ€“2Yâ€“1Ndâ€“0.3Znâ€“0.6Zr alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 7805-7810.	5.6	31
122	Dynamic microstructural changes during hot extrusion and mechanical properties of a Mgâ€“5.0 Znâ€“0.9 Yâ€“0.16 Zr (wt.%) alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 4055-4067.	5.6	121
123	Improvement of the mechanical properties of Mg-Gd-Y-Zn alloy castings by grain refinement. IOP Conference Series: Materials Science and Engineering, 2011, 21, 012017.	0.6	0
124	International Symposium on Global Multidisciplinary Engineering 2011 (S-GME2011). IOP Conference Series: Materials Science and Engineering, 2011, 21, 011001.	0.6	0
125	Microstructure characteristics during the multi-pass hot rolling and their effect on the mechanical properties of AM50 magnesium alloy sheet. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 3379-3385.	5.6	22
126	Towards the development of heat-treatable high-strength wrought Mg alloys. Scripta Materialia, 2010, 63, 710-715.	5.2	274

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127	Recrystallization mechanism and the relationship between grain size and Zenerâ€“Hollomon parameter of Mgâ€“Alâ€“Znâ€“Ca alloys during hot compression. Scripta Materialia, 2010, 63, 293-296.	5.2	151
128	Improvement in creep property of a cast Mgâ€“6Alâ€“3Ca alloy by Mn addition. Scripta Materialia, 2010, 63, 1173-1176.	5.2	54
129	Effect of Zr addition on the mechanical properties of as-extruded Mgâ€“Znâ€“Caâ€“Zr alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 2356-2362.	5.6	114
130	Influence of ECAP routes on microstructure and mechanical properties of Mgâ€“Znâ€“Ca alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 4250-4256.	5.6	97
131	Room-temperature compressive deformation behavior of Mgâ€“Znâ€“Ca alloy processed by equal channel angular pressing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 528, 672-679.	5.6	20
132	Microstructure and Mechanical Properties of Extruded Mg-Zn-Ca Alloy. Materials Science Forum, 2010, 654-656, 703-706.	0.3	3
133	Microstructure and Compression Properties of Al-Si Alloy Foams by Spark Plasma Sintering Technique. Materials Science Forum, 2010, 638-642, 1890-1895.	0.3	1
134	Numerical simulation for microstructure evolution in AM50 Mg alloy during hot rolling. Computational Materials Science, 2010, 47, 919-925.	3.0	38
135	Microstructure and mechanical properties of extruded Mg-6.5Gd-1.3Nd-0.7Y-0.3Zn alloy. Transactions of Nonferrous Metals Society of China, 2010, 20, s508-s512.	4.2	8
136	Kinds of magnesium alloys and their application. Keikinzoku/Journal of Japan Institute of Light Metals, 2010, 60, 100-105.	0.4	4
137	Investigation of the hot compression behavior of the Mgâ€“9Alâ€“1Zn alloy using EBSP analysis and a cellular automata simulation. Modelling and Simulation in Materials Science and Engineering, 2009, 17, 025009.	2.0	13
138	Synthesis of high-strength magnesium alloy composites reinforced with Si-coated carbon nanofibres. Scripta Materialia, 2009, 60, 451-454.	5.2	22
139	Dynamic microstructural changes in Mgâ€“9Alâ€“1Zn alloy during hot compression. Scripta Materialia, 2009, 61, 249-252.	5.2	111
140	Enhanced age-hardening and formation of plate precipitates in Mgâ€“Gdâ€“Ag alloys. Scripta Materialia, 2009, 61, 636-639.	5.2	126
141	Fabrication of extraordinary high-strength magnesium alloy by hot extrusion. Scripta Materialia, 2009, 61, 644-647.	5.2	495
142	High temperature tensile properties of as-cast Mgâ€“Alâ€“Ca alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 509, 105-110.	5.6	73
143	Effect of pre-aging treatment on microstructure and mechanical properties of hot compressed Mgâ€“9Alâ€“1Zn alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 517, 354-360.	5.6	38
144	Effect of Mg17Al12 precipitates on the microstructural changes and mechanical properties of hot compressed AZ91 magnesium alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 523, 47-52.	5.6	100

#	Article	IF	Citations
145	Structure and mechanical properties of extruded Mgâ€"Gd based alloy sheet. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 520, 162-167.	5.6	55
146	Microstructure and mechanical properties of Mgâ€"Znâ€"Ca alloy processed by equal channel angular pressing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 523, 289-294.	5.6	74
147	Recrystallization mechanism of as-cast AZ91 magnesium alloy during hot compressive deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 527, 52-60.	5.6	193
148	Precipitation-hardenable Mgâ€"2.4Znâ€"0.1Agâ€"0.1Caâ€"0.16Zr (at.%) wrought magnesium alloy. Acta Materialia, 2009, 57, 749-760.	7.9	211
149	Bimodally grained microstructure development during hot extrusion of Mgâ€"2.4 Znâ€"0.1 Agâ€"0.1 Caâ€"0.16 Zr (at.%) alloys. Acta Materialia, 2009, 57, 5593-5604.	7.9	202
150	In-situ EBSD observation of recrystallization behavior in magnesium alloy. Keikinzoku/Journal of Japan Institute of Light Metals, 2009, 59, 333-338.	0.4	3
151	Microstructures and mechanical properties of porous Tiâ€"6%Alâ€"4%V alloy fabricated by spark plasma sintering technique. Keikinzoku/Journal of Japan Institute of Light Metals, 2009, 59, 491-497.	0.4	2
152	Physical and chemical properties of magnesium. Keikinzoku/Journal of Japan Institute of Light Metals, 2009, 59, 216-224.	0.4	8
153	Compressive deformation of Mgâ€"Znâ€"Yâ€"Zr alloy processed by equal channel angular pressing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 483-484, 564-567.	5.6	47
154	A high-strength Mgâ€"Snâ€"Znâ€"Al alloy extruded at low temperature. Scripta Materialia, 2008, 59, 1111-1114.	5.2	312
155	Study of the microstructure, texture and tensile properties of as-extruded AZ91 magnesium alloy. Journal of Alloys and Compounds, 2008, 456, 400-406.	5.5	121
156	FEM analysis for hot rolling process of AM60 alloy. Transactions of Nonferrous Metals Society of China, 2008, 18, s242-s246.	4.2	7
157	Mechanical properties of SiC particleâ€"AZ31B magnesium alloy machined chips composites prepared by hot extrusion after ECAP. Keikinzoku/Journal of Japan Institute of Light Metals, 2008, 58, 104-110.	0.4	10
158	Experimentally and Numerical Study on Deep Drawing Process for Magnesium Alloy Sheet at Elevated Temperatures. Materials Transactions, 2008, 49, 1101-1106.	1.2	11
159	HRTEM Observation of Age Hardening Precipitates in Mg-8.3%Gd-3.7%Y-0.76%Zr Alloy. Materials Transactions, 2007, 48, 954-959.	1.2	10
160	Grain refining by hot extrusion of AZ91D magnesium alloy machined chips and resulting high strain rate superplasticity. Keikinzoku/Journal of Japan Institute of Light Metals, 2007, 57, 391-397.	0.4	1
161	Effect of Zn additions on the age-hardening of Mgâ€"2.0Gdâ€"1.2Yâ€"0.2Zr alloys. Acta Materialia, 2007, 55, 4137-4150.	7.9	441
162	Evolution of microstructure and texture of AZ91 alloy during hot compression. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 452-453, 503-507.	5.6	27

#	Article	IF	Citations
163	Superplasticity of Mgâ€"Znâ€"Y alloy containing quasicrystal phase processed by equal channel angular pressing. Materials Letters, 2007, 61, 4406-4408.	2.6	53
164	Semi-solid Forming of New Mg-Zn-Al-Ca Alloys. , 2006, , 651-656.		0
165	Effect of extrusion speed on properties of the extruded AZ31B magnesium alloy machined chip. Keikinzoku/Journal of Japan Institute of Light Metals, 2006, 56, 166-171.	0.4	14
166	Hot deformation characteristics and formabilities of Mg-(2.0-4.5)%Al-(0.7-1.5)%Zn alloys. Keikinzoku/Journal of Japan Institute of Light Metals, 2006, 56, 8-14.	0.4	2
167	HRTEM Observation of Age Hardening Precipitates in Mg-12.0%Gd-1.9%Y-0.7%Zr. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2006, 70, 828-834.	0.4	4
168	Alloy Development of High Toughness Mg-Gd-Y-Zn-Zr Alloys. Materials Transactions, 2006, 47, 1066-1070.	1.2	140
169	Improvement in surface properties of extrusions from Mg-Al-Zn based alloy machined chips. Keikinzoku/Journal of Japan Institute of Light Metals, 2005, 55, 400-404.	0.4	7
170	Effects of Al and Zn contents and heat treatment on microstructures and tensile properties of Mg-Al-Zn alloys. Keikinzoku/Journal of Japan Institute of Light Metals, 2005, 55, 456-462.	0.4	5
171	Chemistry of nanoscale precipitates in Mgâ€"2.1Gdâ€"0.6Yâ€"0.2Zr (at.%) alloy investigated by the atom probe technique. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 395, 301-306.	5.6	235
172	Realization of high strength and high ductility for AZ61 magnesium alloy by severe warm working. Science and Technology of Advanced Materials, 2005, 6, 185-194.	6.1	69
173	In-situ quasicrystal-reinforced magnesium matrix composite processed by equal channel angular extrusion (ECAE). Journal of Materials Science, 2005, 40, 2587-2590.	3.7	41
174	Tensile deformation characteristics of a nano-structured 5083 Al alloy. Journal of Alloys and Compounds, 2005, 386, 197-201.	5.5	50
175	Effect of substituting cerium-rich mischmetal with lanthanum on high temperature properties of die-cast Mgâ€"Znâ€"Alâ€"Caâ€"RE alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 380, 93-99.	5.6	77
176	The effect of thermal exposure on the interface and mechanical properties of Al18B4O33w/AZ91 magnesium matrix composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 372, 66-74.	5.6	63
177	Superplastic Deformation of AZ61 Magnesium Alloy having Fine Grains. Materials Transactions, 2004, 45, 2537-2541.	1.2	37
178	Effect of Mn Content on Tensile Properties of Rolled AZ31 Magnesium Alloy Sheet. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2004, 68, 412-417.	0.4	17
179	Improvement of Mechanical Characteristics in Severely Plastic-deformed Mg Alloys. Materials Transactions, 2004, 45, 488-492.	1.2	57
180	Interface of Al₁₈B₄O₃₃w/AZ91 magnesium matrix composite after thermal exposure at 600 Â°C. Journal of Materials Science Letters, 2003, 22, 1709-1712.	0.5	7

#	Article	IF	Citations
181	Aging behavior of squeeze cast SiCw/AZ91 magnesium matrix composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 348, 67-75.	5.6	77
182	Mechanical Properties of Mg-Y-Zn Alloy Processed by Equal-Channel-Angular Extrusion. Materials Transactions, 2003, 44, 463-467.	1.2	31
183	Improvement of Wear Resistance of Magnesium by Laser-Alloying with Silicon. Materials Transactions, 2003, 44, 531-538.	1.2	3
184	Fabrication of Porous Magnesium Alloys by Pulse Electric Current Sintering Process Using Machined Chips. Materials Transactions, 2003, 44, 595-600.	1.2	9
185	Effect of Microstructural Factors on Tensile Properties of an ECAE-Processed AZ31 Magnesium Alloy. Materials Transactions, 2003, 44, 468-475.	1.2	130
186	Microstructures and Tensile Properties of ECAE-Processed and Forged AZ31 Magnesium Alloy. Materials Transactions, 2003, 44, 476-483.	1.2	30
187	Improvement of Protium Absorption/Desorption Characteristics of Mg-x mass%LaNi₅ (x=50, 70) Composites by Interface-control. Materials Transactions, 2003, 44, 589-594.	1.2	0
188	Development of New Die-castable Mg-Zn-Al-Ca-RE Alloys for High Temperature Applications. Materials Transactions, 2003, 44, 562-570.	1.2	42
189	Grain Size Dependence of Active Slip Systems in an AZ31 Magnesium Alloy. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2003, 67, 149-152.	0.4	34
190	OS02W0241 Development of ultrasonic on-line sensors for molten metal monitoring. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2003, 2003.2, _OS02W0241-_OS02W0241.	0.0	0
191	Effects of the shielding gas and laser wavelength in laser welding magnesium alloy sheets. Welding International, 2002, 16, 442-450.	0.7	3
192	Protium Absorption/Desorption Characteristics of Mg₂Ni/LaNi₅ Composite. Materials Transactions, 2002, 43, 2728-2733.	1.2	4
193	Microstructure and mechanical properties of aluminum borate whisker-reinforced magnesium matrix composites. Materials Letters, 2002, 57, 558-564.	2.6	48
194	Squeeze cast Al18B4O33 whisker-reinforced magnesium matrix composite. Journal of Materials Science Letters, 2002, 21, 533-535.	0.5	13
195	Microstructure and Protium Absorbing/Desorbing Characteristics of Mg₂Ni-Mn Alloys. Materials Transactions, 2001, 42, 1305-1311.	1.2	4
196	Aging Characteristics and High Temperature Tensile Properties of Mg-Gd-Y-Zr Alloys. Materials Transactions, 2001, 42, 1206-1211.	1.2	278
197	Creep Properties of Mg-Gd-Y-Zr Alloys. Materials Transactions, 2001, 42, 1212-1218.	1.2	220
198	Improving the Wear Resistance of a Magnesium Alloy by Laser Melt Injection. Materials Transactions, 2001, 42, 1322-1325.	1.2	10

#	Article	IF	Citations
199	Fabrication of NiTi intermetallic compound coating made by laser plasma hybrid spraying of mechanically alloyed powders. Surface and Coatings Technology, 2001, 139, 93-100.	4.8	49
200	Rapidly Solidified Structures of Al-0.5 mass%Cu Alloy Obtained by High Power CO₂ Laser Grazing. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1998, 62, 577-585.	0.4	2
201	New Magnesium Alloys with High Tensile Strength at High Temperatures can be Hot Forged. Materials Technology, 1996, 11, 45-47.	3.0	0
202	Fluidity of AZ91D magnesium alloy chips stirred at semi-solid state and mechanical properties after press-forming.. Keikinzoku/Journal of Japan Institute of Light Metals, 1995, 45, 516-521.	0.4	2
203	Effect of yttrium and neodymium additions on aging characteristics and high temperature tensile properties of Mg-10 mass%Gd and Mg-10 mass%Dy alloys.. Keikinzoku/Journal of Japan Institute of Light Metals, 1994, 44, 549-554.	0.4	10
204	Age hardening characteristics and high temperature tensile properties of Mg-Gd and Mg-Dy alloys.. Keikinzoku/Journal of Japan Institute of Light Metals, 1994, 44, 3-8.	0.4	34
205	Structure, fluidity and mechanical property of semi-solid AZ91D magnesium alloy fabricated by pressure casting.. Keikinzoku/Journal of Japan Institute of Light Metals, 1994, 44, 9-15.	0.4	1
206	International symposium on "Light metals processing and applications" in 32nd annual conference of metallurgists. Keikinzoku/Journal of Japan Institute of Light Metals, 1994, 44, 194-196.	0.4	0
207	Aging characteristics and tensile properties of Mg-Gd-Nd-Zr and Mg-Dy-Nd-Zr alloys.. Keikinzoku/Journal of Japan Institute of Light Metals, 1994, 44, 555-561.	0.4	25
208	My encounter with magnesium alloys. Keikinzoku/Journal of Japan Institute of Light Metals, 1992, 42, 481-482.	0.4	1
209	Electronic structure of magnesium containing various alloying elements. Journal of the Less Common Metals, 1988, 141, 295-307.	0.8	8
210	Effect of solidification conditions on mechanical properties of unidirectionally solidified EZ33A alloy.. Keikinzoku/Journal of Japan Institute of Light Metals, 1988, 38, 140-146.	0.4	1
211	Effects of cooling rate and Zn content on microstructures and mechanical properties of Mg-4.0%RE-0.7%Zr alloy.. Keikinzoku/Journal of Japan Institute of Light Metals, 1988, 38, 251-256.	0.4	0
212	Effect of cooling rate and chemical composition on the mechanical properties of Mg-RE-Zn-Zr alloys.. Keikinzoku/Journal of Japan Institute of Light Metals, 1988, 38, 311-318.	0.4	0
213	Effect of solidification conditions on structures of unidirectionally solidified EZ33A alloy.. Keikinzoku/Journal of Japan Institute of Light Metals, 1988, 38, 134-139.	0.4	0
214	Effects of solidification variables on microstructures of Mg-2.4%Ag-1.5%RE-0.65%Zr alloy unidirectionally solidified.. Keikinzoku/Journal of Japan Institute of Light Metals, 1988, 38, 449-454.	0.4	0
215	Effects of solidification variables on mechanical properties of Mg-2.4%Ag-1.5%RE-0.65%Zr alloy unidirectionally solidified.. Keikinzoku/Journal of Japan Institute of Light Metals, 1988, 38, 455-461.	0.4	0
216	Effects of cooling rate and Zr content on microstructures and mechanical properties of Mg-3.9%RE-3.1%Zn alloys.. Keikinzoku/Journal of Japan Institute of Light Metals, 1987, 37, 784-791.	0.4	0

#	Article	IF	Citations
217	Effect of solidification conditions on microstructure of directionally solidified 356 aluminum alloy.. Keikinzoku/Journal of Japan Institute of Light Metals, 1987, 37, 261-267.	0.4	4
218	Effect of solidification conditions on mechanical properties of directionally soilidified 356 aluminum alloy.. Keikinzoku/Journal of Japan Institute of Light Metals, 1987, 37, 268-276.	0.4	3
219	Effect of solidification conditions on mechanical properties of unidirectionally solidified AZ91C alloy.. Keikinzoku/Journal of Japan Institute of Light Metals, 1987, 37, 721-728.	0.4	1
220	Effects of cooling rate and RE content on microstructures and mechanical properties of Mg-3.2%Zn-0.7%Zr alloys.. Keikinzoku/Journal of Japan Institute of Light Metals, 1987, 37, 792-799.	0.4	0