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Magnesium: Properties applications potential

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2267	Fatigue characteristics of an extruded AZ61 magnesium alloy.. 2002 , 52, 161-166		13
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2263	Creep processes in magnesium alloys and their composites. 2002 , 33, 883-889		31
2262	Microstructural evolution during high-temperature exposure in a thixocast magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002 , 333, 208-217	5.3	10
2261	Study on the semi-solid rheocasting of magnesium alloy by mechanical stirring. 2002 , 129, 431-434		32
2260	Lubrication and Friction of Magnesium Alloys in Warm Forging. 2002 , 51, 223-226		30
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2258	Characterization of oxide layers on amorphous Mg-based alloys by Auger electron spectroscopy with sputter depth profiling. 2003 , 375, 896-901		3
2257	Texture evolution during grain growth in annealed MG AZ61 alloy. 2003 , 48, 59-64		81
2256	Creep behavior of magnesium die-cast alloy ZA85. 2003 , 48, 985-990		71
2255	Analysis of valence electron structures (VES) of intermetallic compounds containing calcium in MgAl-based alloys. 2003 , 78, 88-93		23
2254	Catalytic reduction of magnesia by carbon. 2003 , 398, 265-267		17
2253	Texture evolution during large-strain hot rolling of the Mg AZ61 alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 355, 68-78	5.3	245
2252	Superplasticity and grain boundary sliding in rolled AZ91 magnesium alloy at high strain rates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 360, 107-115	5.3	101
2251	Utility of micro-indentation technique for characterization of the constitutive behavior of skin and interior microstructures of die-cast magnesium alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 361, 267-274	5.3	41

2250	Drilling a magnesium alloy using PVD coated twist drills. 2003 , 134, 287-295	47
2249	Formability of stamping magnesium-alloy AZ31 sheets. 2003 , 142, 643-647	127
2248	Impact Tensile Stress-Strain Characteristics of Wrought Magnesium Alloys. 2003 , 39, 167-175	57
2247	Deep drawing of square cups with magnesium alloy AZ31 sheets. 2003 , 43, 1553-1559	107
2246	Corrosion behaviour of the amorphous Mg ₆₅ Y ₁₀ Cu ₁₅ Ag ₁₀ alloy. 2003 , 45, 817-832	58
2245	Joint properties of friction stir welded AZ31BH24 magnesium alloy. 2003 , 19, 785-790	109
2244	Stability of the Mg ₆₅ Y ₁₀ Cu ₁₅ Ag ₁₀ metallic glass in neutral and weakly acidic media. 2003 , 18, 97-105	13
2243	Microarc Electrodeposition of Ceramic Films on Double Electrodes of AZ91D Magnesium Alloy By Symmetrical AC Pulse Method. 2003 , 19, 345-350	12
2242	Grain Refinement in a Mg AZ91 Alloy via Large Strain Hot Rolling. 2003 , 44, 2625-2630	27
2241	Magnesium alloys laser (Nd:YAG) cladding with side injection of aluminium based powder. 2004 ,	
2240	Texture Changes during Uniaxial Compression of Mg-3Al-1Zn. 2004 , 467-470, 429-434	2
2239	Grain Refinement in Magnesium Alloy AZ31 during Hot Deformation. 2004 , 467-470, 531-536	8
2238	High Temperature Deformation Behaviour of a Mg-0.8Al Alloy. 2004 , 447-448, 227-232	1
2237	Superplastic Behavior of a Fine Grained AZ61 Alloy Processed by Large Strain Hot Rolling. 2004 , 447-448, 221-226	8
2236	Microstructural evolution of AS21X HPDC alloy during thermal treatment. 2004 , 17, 370-375	4
2235	Microstructural evolution during large strain hot rolling of an AM60 Mg alloy. 2004 , 50, 661-665	173
2234	In situ measurements of texture variations during a tensile loading of Mg-alloy AM20 using synchrotron X-ray radiation. 2004 , 51, 455-460	21
2233	Grain refinement of MgAlZn alloys via accumulative roll bonding. 2004 , 51, 1093-1097	224

2232	Performance of semi-solid slurry produced by twin-screw stirring mixer and rheo-diecasting process of AZ91D alloy. 2004 , 19, 81-85		2
2231	Evaluation of toughness characteristics of a die-cast Mg-Al-Mn alloy Am60B under different microstructural conditions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 387-389, 34-40	5-3	13
2230	Microstructures and mechanical properties of Mg-Ce-Zn-Zr wrought alloy. 2004 , 11, 367-370		11
2229	Some studies on the thermal-expansion behavior of c-fiber, SiC p , and in-situ Mg ₂ Si-Reinforced AZ31 Mg alloy-Based hybrid composites. 2004 , 35, 1167-1176		2
2228	A thousandfold creep strengthening by Ca addition in die-cast AM50 magnesium alloy. 2004 , 35, 3029-3032		41
2227	Effect of Mg ₂ Si particles on the elevated temperature tensile properties of squeeze-cast Mg-Al alloys. 2004 , 35, 1629-1632		61
2226	Some studies on the thermal-expansion behavior of C-fiber, SiC p , and In-situ Mg ₂ Si-reinforced AZ31 Mg alloy-based hybrid composites. 2004 , 35, 1167-1176		23
2225	Investigation of surface fatigue microcrack growth behavior of cast Mg-Al alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 364, 11-16	5-3	39
2224	Compressive plastic deformation of an AS21X magnesium alloy produced by high pressure die casting at elevated temperatures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 367, 9-16	5-3	19
2223	Neutron diffraction study on the texture development during extrusion of magnesium alloy AZ31. 2004 , 350, E507-E509		16
2222	Global warming impact of the magnesium produced in China using the Pidgeon process. 2004 , 42, 49-64		124
2221	Study on Fe reduction in AZ91 melt by B ₂ O ₃ . <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 368, 311-317	5-3	31
2220	Magnesium alloys (WE43 and ZE41) characterisation for laser applications. 2004 , 233, 382-391		27
2219	Synthesis of TiCp reinforced magnesium matrix composites by in situ reactive infiltration process. 2004 , 58, 920-926		31
2218	Formation of fine grained structure in a magnesium alloy AZ31 during multi-directional forging with decreasing deformation temperature. 2004 , 54, 527-531		18
2217	Preparation of Mg-Li-Al-Zn Master Alloy in Air by Electrolytic Diffusing Method. 2005 , 46, 1354-1359		6
2216	Eutectic Phase Investigation in a Ca-added AM50 Magnesium Alloy Produced by Die Casting. 2005 , 46, 145-147		23
2215	Ultra-Fine Grain Development in an AZ31 Magnesium Alloy during Multi-Directional Forging under Decreasing Temperature Conditions. 2005 , 46, 1646-1650		87

2214	Mechanical Properties of Mg–Al–Ca Alloy Recycled by Solid–State Recycling. 2005 , 46, 2592-2595		30
2213	Isochronal Annealing Behavior of Magnesium Alloy AZ31 after Hot Deformation. 2005 , 46, 2981-2987		39
2212	Microstructure Stability and Creep Strength in a Die-Cast AX52 Magnesium Alloy. 2005 , 46, 1749-1752		21
2211	Comparison of the microstructure and thermal stability of an AZ31 alloy processed by ECAP and large strain hot rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 410-411, 308-311	5-3	78
2210	Surface compositional inhomogeneity and subsurface microstructures in a thin-walled AZ91D plate formed by hot-chamber die casting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 402, 193-202	5-3	22
2209	Accumulative roll bonding of a Mg-based AZ61 alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 410-411, 353-357	5-3	83
2208	Equal channel angular pressing of magnesium alloy AZ31. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 410-411, 324-327	5-3	176
2207	Development of creep resistant die cast Mg–Al–Si alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 413-414, 555-560	5-3	174
2206	Improvement of corrosion properties in an aluminum-sprayed AZ31 magnesium alloy by a post-hot pressing and anodizing treatment. 2005 , 191, 181-187		103
2205	Growth of ceramic coatings on AZ91D magnesium alloys by micro-arc oxidation in aluminate–fluoride solutions and evaluation of corrosion resistance. 2005 , 246, 229-238		245
2204	Mold-filling characteristics of AZ91 magnesium alloy in the low-pressure expendable pattern casting process. 2005 , 14, 132-135		2
2203	Fatigue crack paths in coarse-grained magnesium. 2005 , 28, 237-244		12
2202	Effects of humidity and temperature on the fatigue behaviour of an extruded AZ61 magnesium alloy. 2005 , 28, 373-379		40
2201	Superplasticity and cavitation in AZ31 Mg alloy at elevated temperatures. 2005 , 59, 1714-1718		55
2200	Creep behavior of the die-cast Mg–Al alloy AS21. 2005 , 52, 277-282		82
2199	Influence of shot peening on high cycle fatigue properties of the high-strength wrought magnesium alloy AZ80. 2005 , 52, 485-490		126
2198	Microstructural evolution of a heat-resistant magnesium alloy due to friction stir welding. 2005 , 52, 899-903		106
2197	Inverse surface macro-segregation in high-pressure die-cast AM60 magnesium alloy and its effects on fatigue behavior. 2005 , 52, 1063-1068		32

2196	Effect of roller burnishing on the high cycle fatigue performance of the high-strength wrought magnesium alloy AZ80. 2005 , 52, 1011-1015	70
2195	Variability in the tensile ductility of high-pressure die-cast AM50 Mg-alloy. 2005 , 53, 851-856	76
2194	Effect of Ca/Sr composite addition into AZ91D alloy on hot-crack mechanism. 2005 , 53, 1077-1082	33
2193	A study on stress corrosion cracking and hydrogen embrittlement of AZ31 magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 399, 308-317	5.3 111
2192	Process optimization for AZ91 Mg-alloy low-pressure EPC process. 2005 , 20, 42-44	
2191	Effect of calcium additions on the creep behavior of magnesium die-cast alloy ZA85. 2005 , 36, 1713-1719	40
2190	Deformation mechanisms responsible for the high ductility in a Mg AZ31 alloy analyzed by electron backscattered diffraction. 2005 , 36, 1427-1438	130
2189	Microstructure and mechanical properties of Si and Sb added AZ91 magnesium alloy. 2005 , 36, 2235-2243	97
2188	An investigation on hot-crack mechanism of Ca addition into AZ91D alloy. 2005 , 40, 2931-2936	19
2187	Environmental Protection of Anodizing on AZ91D Magnesium Alloy. 2005 , 56, 547-551	5
2186	Grain refining mechanism in Mg-Gd-Y alloys by zirconium. 2005 , 21, 722-726	43
2185	Effects of Zr on Microstructures and Properties of a [Matrix Mg-13Li-3Al-0.7Zr Alloy. 2005 , 488-489, 155-160	5
2184	Effect of Initial Grain Size on Deformation Behavior and Dynamic Recrystallization of Magnesium Alloy AZ31. 2005 , 488-489, 223-226	24
2183	High-Temperature Mechanical Properties of As-Extruded ZK60. 2005 , 488-489, 753-758	
2182	Investigation of Protective Cover Gas Mixtures for Prevention of Melt Ignition during Magnesium Alloy Melting. 2005 , 475-479, 2543-2546	3
2181	The Influence of Electric Current Pulses on the Microstructure of Magnesium Alloy AZ91D. 2005 , 488-489, 201-204	16
2180	Diffusion Measurements of ⁶⁷ Ga in Polycrystalline Magnesium. 2005 , 237-240, 1287-1292	
2179	The Texture Evolutions of Mg Alloy, AZ31, under Uni-Axial Loading. 2005 , 495-497, 1585-1590	2

2178	Effects of Ca Addition on Microstructure and Mechanical Properties of Mg-RE-Zn Casting Alloy. 2005 , 488-489, 107-110	18
2177	Effects of Cooling Rate on Solidification Microstructure of ZK60 Magnesium Alloy. 2005 , 488-489, 295-298	3
2176	The Effects of Grain Size on Ductility of AZ31 Magnesium Alloy. 2005 , 488-489, 535-538	12
2175	Microstructure and Mechanical Properties of Extruded Mg-Al-Ca Based Alloys. 2005 , 488-489, 275-278	2
2174	Development of Mg/Cu Nanocomposites Using Microwave Assisted Powder Metallurgy Technique. 2005 , 1	1
2173	Development of High Performance Mg/SiC Composites Containing Nano-Size SiC Using Microwave Assisted Rapid Sintering. 2005 , 511	2
2172	High temperature deformation, alloys and processing of magnesium. 2005 , 29-75	0
2171	A thermodynamic assessment of the Mg-Ni binary system using random solution and associate models for the liquid phase. 2005 , 392, 253-262	89
2170	Precipitation behavior and damping characteristic of Mg-Al-Si alloy. 2005 , 59, 2702-2705	17
2169	Mg alloy matrix composite reinforced with TiNi continuous fiber prepared by ball-milling/hot-pressing. 2005 , 36, 1590-1594	12
2168	Dissimilar Metal Joining of Magnesium Alloy to Steel by FSW. 2006 , 15-17, 393-397	8
2167	Superplasticity and superplastic instability of AZ31B magnesium alloy sheet. 2006 , 16, 327-332	12
2166	Fracture behaviors of AZ80 magnesium alloy during multiple forging processes. 2006 , 16, 922-926	20
2165	Effect of yttrium on microstructures and mechanical properties of hot rolled AZ61 wrought magnesium alloy. 2006 , 16, 1053-1058	26
2164	Preparation of AZ91D magnesium alloy semi-solid billet by new strain induced melt activated method. 2006 , 16, 1080-1085	6
2163	Microstructure Evolution of AZ91D Magnesium Alloy Semi-solid Billets Prepared by a New SIMA Method. 2006 , 116-117, 132-135	3
2162	SiC Nanoparticles Reinforced Magnesium Alloys by Semisolid Process. 2006 , 116-117, 163-166	1
2161	Fabrication, Microstructure and Mechanical Properties of a SiCw/ZK51A Mg Composite by Semi-Solid Extrusion Directly Following Liquid Infiltration. 2006 , 116-117, 354-357	

2160	Mechanical Behavior of Processed AZ91D by Equal Channel Angular Extrusion during Semi-Solid Isothermal Compression. 2006 , 116-117, 530-533	4
2159	Effect of Sr and Sb on Microstructure and Mechanical Properties of Mg-5Al-2Si Alloys. 2006 , 321-323, 1365-1369	1
2158	Thermodynamic assessment of the Ce-Ni system. 2006 , 30, 323-325	6
2157	Laser (Nd:YAG) cladding of AZ91D magnesium alloys with Al + Si + Al ₂ O ₃ . 2006 , 407, 201-207	43
2156	Effect of a low frequency electromagnetic field on the direct-chill (DC) casting of AZ80 magnesium alloy ingots. 2006 , 97, 1539-1544	7
2155	Solid State Welding of Steel and Magnesium Alloy Using a Rotating Pin-Solid State Welding of Dissimilar Metals Using a Rotating Pin (Report 3)-. 2006 , 24, 108-115	40
2154	Low Temperature Superplasticity of Fine-Grained Magnesium Alloy AZ31. 2006 , 15-17, 467-472	3
2153	Effect of Cooling Rate on Mg ₁₇ Al ₁₂ Volume Fraction and Compositional Inhomogeneity in a Sand-Cast AZ91D Magnesium Plate. 2006 , 47, 2060-2067	3
2152	Mechanical and Corrosion Properties of AZ31 Magnesium Alloy Repeatedly Recycled by Hot Extrusion. 2006 , 47, 1040-1046	31
2151	Internal Stress during Creep in a Die-Cast AM50 Magnesium Alloy at 473 K. 2006 , 47, 2493-2496	2
2150	Superplasticity of AZ31 magnesium alloy processed by severe plastic deformation. 2006 , 56, 716-720	5
2149	Effect of Die-Surface Treatment on Magnesium Alloys Fluidity. 2006 , 47, 883-888	
2148	Effect of Rare Earths on Hot Cracking Resistant Property of Mg-Al Alloys. 2006 , 24, 346-351	28
2147	Microstructures and Properties of Melt-Spun and As-Cast Mg-20Gd Binary Alloy. 2006 , 24, 466-470	14
2146	High Cycle Fatigue Properties of Die-Cast Magnesium Alloy AZ91D with Addition of Different Concentrations of Cerium. 2006 , 24, 591-595	24
2145	Preparation and Performance of Rare Earths Chemical Conversion Film on Magnesium Alloy. 2006 , 24, 397-400	13
2144	Studies of the porosity in electroless nickel deposits on magnesium alloy. 2006 , 252, 2839-2846	60
2143	Self-assembled monolayers on magnesium alloy surfaces from carboxylate ions. 2006 , 252, 3818-3827	52

2142	Kinetics of grain growth in nanocrystalline magnesium-based metal-metal composite synthesized by mechanical alloying. 2006 , 66, 531-537		34
2141	Effect of type of primary processing on the microstructure, CTE and mechanical properties of magnesium/alumina nanocomposites. 2006 , 72, 19-26		64
2140	Microstructure evolution and deformation features of AZ31 Mg-alloy during creep. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 415, 309-316	5-3	27
2139	Modeling flow stress of magnesium alloys at elevated temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 419, 202-208	5-3	70
2138	The effect of precipitates on the mechanical properties of ZK60-Y alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 420, 322-332	5-3	91
2137	Research on dynamic precipitation behavior of pre-solution treated Mg β wt.% Zn α wt.% Al(α wt.%Y) alloy during creep. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 424, 40-46	5-3	12
2136	Quantitative fractographic analysis of variability in the tensile ductility of high-pressure die-cast AE44 Mg-alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 427, 255-262	5-3	58
2135	Effect of crystallographic texture on the kinetics of hot deformation of rolled Mg β Al α Zn alloy plate. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 432, 170-177	5-3	48
2134	Effects of Mn content and texture on fatigue properties of as-cast and extruded AZ61 magnesium alloys. 2006 , 48, 198-209		112
2133	Laser (a pulsed Nd:YAG) cladding of AZ91D magnesium alloy with Al and Al ₂ O ₃ powders. 2006 , 253, 1722-1728		38
2132	A review of laser welding techniques for magnesium alloys. 2006 , 171, 188-204		414
2131	Finite element analysis and formability of non-isothermal deep drawing of AZ31B sheets. 2006 , 177, 142-145		24
2130	Forgeability of Mg β Al α Zn magnesium alloys in hot and warm closed die forging. 2006 , 177, 210-213		43
2129	Texture characterisation of hexagonal metals: Magnesium AZ91 alloy, welded by laser processing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 429, 11-17	5-3	18
2128	Effect of process parameters on porosity distributions in high-pressure die-cast AM50 Mg-alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 427, 99-111	5-3	72
2127	Reconstruction and visualization of complex 3D pore morphologies in a high-pressure die-cast magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 427, 92-98	5-3	36
2126	Microstructures and tensile properties of Mg β Gd α .6Zr α Nd α Y (x+y=3, mass%) alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 433, 133-138	5-3	62
2125	The electroless nickel-plating on magnesium alloy using NiSO ₄ ·6H ₂ O as the main salt. 2006 , 200, 3010-3015		40

2124	Effect of friction stir processing on mechanical and microstructural properties of AM60B Magnesium alloy. 2006 , 41, 3459-3464	15
2123	Observations of microstructural refinement in Mg ₂ AlSi alloys containing strontium. 2006 , 41, 6087-6089	47
2122	Effect of heat treatment on the distribution and volume fraction of Mg ₂ Si in structural aluminum alloy 6063. 2006 , 48, 205-209	7
2121	Cold piercing of magnesium alloy billet with high aspect ratio. 2006 , 46, 459-466	13
2120	Creep characteristics of a diecast AM50 magnesium alloy. 2006 , 37, 243-248	37
2119	Influence of electromagnetic stirring on microstructure of AZ91-0.8%Ce magnesium alloy. 2006 , 13, 613-617	11
2118	Preparation and characteristic research of anhydrous magnesium chloride with dehydrated ammonium carnallite. 2006 , 13, 373-378	7
2117	The role of calcium in microstructural refinement of AZ91 magnesium alloy. 2006 , 21, 45-47	7
2116	Microstructure and corrosion resistance of a chromium-free multi-elements complex coating on AZ91D magnesium alloy. 2006 , 99, 54-60	24
2115	Nugget growth characteristic for AZ31B magnesium alloy during resistance spot welding. 2006 , 11, 154-162	35
2114	Study on TIG welding of dissimilar Mg alloy and Cu with Fe as interlayer. 2006 , 11, 523-525	24
2113	Microstructure characteristics of resistance spot welds of AZ31 Mg alloy. 2006 , 11, 555-560	21
2112	Enhanced high temperature properties of low pressure cast AZ91 Mg alloy. 2006 , 19, 265-268	5
2111	Dent Resistance of Aluminium and Magnesium Alloys. 2006 , 220, 1191-1198	4
2110	Damping capacity associated with precipitation in Mg ₂ Si/Mg ₂ Al composite materials. 2006 , 22, 1223-1226	0
2109	Strain-Induced Grain Refinement in Magnesium Alloy AZ31 during Hot Forging. 2006 , 503-504, 521-526	3
2108	Mechanical Behavior of a Hybrid Reinforced Magnesium Composite Fabricated by Pressure Infiltration Method. 2006 , 313, 151-158	3
2107	Quantitative Characterization of Pore Arrangement in Pore Bands in Pressure Die Cast AZ91 Magnesium Alloy by Image Processing. 2006 , 514-516, 1477-1482	2

2106	Effect of Chrome-Free Chemical Conversion Coating on Corrosion Behavior of Magnesium Alloy AZ91D. 2006 , 15-17, 473-478	
2105	Research on Thermal Spray Al-Al ₂ O ₃ /TiO ₂ Coating and Diffusion Treatment on Magnesium Alloy. 2006 , 532-533, 217-220	
2104	Properties of AlN-Based Magnesium-Matrix Composites Produced by Pressureless Infiltration. 2006 , 509, 105-110	11
2103	Effect of Al on the Castability, Tensile and Creep Properties of Mg-xAl-Zn. 2006 , 321-323, 1370-1373	
2102	Elevated temperature compression behaviour of Mg-Al-Zn alloys. 2006 , 22, 725-729	55
2101	Castability, Tensile and Creep Properties of Mg-xAl-Zn with Variation of Al Content. 2006 , 510-511, 250-253	3
2100	An Ionic Liquid Surface Treatment for Corrosion Protection of Magnesium Alloy AZ31. 2006 , 9, B52	75
2099	RESEARCH ON WATER BASED COATING CONTAINING NANO-SILICA FOR MAGNESIUM ALLOY. 2006 , 20, 3629-3634	2
2098	THE INFLUENCE OF ANODIZED FILM ON CORROSION BEHAVIOR OF MAGNESIUM ALLOYS. 2006 , 20, 3674-3679	2
2097	Research on Water Based Coating for Magnesium Alloy. 2006 , 15-17, 485-490	2
2096	SEM In Situ Investigation of the Effects of Ca and Sr Additions on Cracking in Cast AZ91D Alloys at Different Temperatures. 2007 , 353-358, 2123-2126	1
2095	Annealing Behavior of the Compressed AZ31 Magnesium Alloy with Different Strain. 2007 , 546-549, 267-270	
2094	Characterisation and formation of boundary in laser cladding AZ91D with Al + Al ₂ O ₃ . 2007 , 23, 466-470	2
2093	A Comparative Study on Superplasticity of Mg-Zn-Y-Zr Processed by ECAE and Hot Rolling. 2007 , 551-552, 203-208	1
2092	Effect of zinc phosphate-molybdate conversion precoating on performance of cathode epoxy electrocoat on AZ91D alloy. 2007 , 23, 56-61	9
2091	Effect of welding time on microstructure and tensile shear load in resistance spot welded joints of AZ31 Mg alloy. 2007 , 12, 671-676	21
2090	Mechanical Performance Evaluation of Cast Magnesium Alloys for Automotive and Aeronautical Applications. 2007 , 129, 422-430	21
2089	Adhesive bonding between Mg alloys and polypropylene. 2007 , 22, 76-80	3

- 2088 Magnesium Alloy BiCp Reinforced Infiltrated Cast Composites. **2007**, 22, 429-432 12
- 2087 Annealing Process Optimization of a ME Wrought Magnesium Alloy. **2007**, 546-549, 351-354
- 2086 Effect of Silver Additions on the Ageing Behavior and Mechanical Properties of Mg-Al-Si-Sn-Sr Alloy. **2007**, 124-126, 1469-1472
- 2085 Prediction of the Effect of Alloying Elements on In Situ Reaction in Synthesizing (AlN+Mg₂Si)/Mg Composites. **2007**, 351, 156-160
- 2084 Effect of Aluminum on the Microstructural Characteristics and High Temperature Properties of Mg-xAl-Zn Alloys. **2007**, 539-543, 1790-1795 1
- 2083 Expulsion in Resistance Spot Welding of AZ31B Magnesium Alloy. **2007**, 546-549, 443-446 2
- 2082 Influence of Structure and Ionic Radius on Solubility Limit in the MgBe Systems. **2007**, 561-565, 143-146 4
- 2081 Study on Pressure Variations in the Mold of Magnesium Alloy Die Castings. **2007**, 353-358, 1614-1616 0
- 2080 Characteristics of Acoustic Emission during Fatigue of As-Rolled AZ31B Magnesium Alloy. **2007**, 546-549, 579-584
- 2079 Microstructure and Mechanical Properties of ZK60 Alloy Sheets during Aging. **2007**, 558-559, 159-164 13
- 2078 Effect of Hot Extrusion, Hard Drawing and Heat Treatment on Properties and Structure of MB5B Wrought Mg Alloy. **2007**, 546-549, 403-407
- 2077 Compressive Deformation of Cast AM60B Mg Alloy at Elevated Temperatures. **2007**, 546-549, 271-274
- 2076 Effect of Initial Grain Size and Strain Path on Grain Refinement in Magnesium Alloy AZ31. **2007**, 539-543, 1632-1637 3
- 2075 Effect of Rolling and Annealing on the Mechanical Properties and Microstructure of AZ31 Magnesium Alloy. **2007**, 546-549, 379-382
- 2074 Microstructure and Mechanical Properties of Low Pressure Die Cast AM50 Magnesium Alloy. **2007**, 546-549, 167-170 2
- 2073 Superior Corrosion Resistance and Mechanical Properties of a Mg Alloy Recycled by Solid-State Process. **2007**, 539-543, 1656-1661
- 2072 Development of Conductive Anodic Oxidation Coatings on AZ91D Magnesium Alloy. **2007**, 539-543, 1691-1695 4
- 2071 Microstructure and Mechanical Properties of Twin-Roll Strip Cast Mg Alloys. **2007**, 539-543, 119-126 20

2070	Study on the Effect of Cl- Concentration on the Corrosion Fatigue Damage in a Rolled AZ31B Magnesium Alloy by Acoustic Emission. 2007 , 353-358, 327-330	2
2069	Investigations on Fatigue Properties of Die Cast Magnesium Alloy AZ91HP at Very High Cycles. 2007 , 353-358, 235-238	
2068	Effects of Zn on Mechanical Properties of MZK60 Wrought Alloy. 2007 , 546-549, 391-394	
2067	Effect of High-Energy Ball Milling on the Mg Alloy Powders under Alcohol Protection. 2007 , 534-536, 785-788	
2066	Formability Analysis of the Mg-Alloy AZ31. 2007 , 353-358, 663-666	
2065	Study on the Microstructure and Mechanical Property of High Strength Mg-Nd-Zn-Zr Alloy. 2007 , 546-549, 433-436	6
2064	Microstructural Characteristics and Creep Properties of Mg-5Al-2Si Alloys Modified with Sn and Sr. 2007 , 539-543, 1784-1789	8
2063	Fabrication and Formation Mechanism of In Situ AlN and Mg ₂ Si Particles-Reinforced Mg Matrix Composites. 2007 , 351, 151-155	2
2062	Corrosion behaviour of friction stir welded AZ31B Mg in 3.5%NaCl solution. 2007 , 42, 119-122	34
2061	Corrosion Resistance of the Ceramic Coating Formed by Micro-Plasma Arc Oxidation on AZ91D Alloy. 2007 , 336-338, 2451-2453	
2060	Development of Environment-Friendly CaO Added AZ31 Mg Alloy. 2007 , 124-126, 1481-1484	1
2059	Chill-cast in situ composites in the pseudo-ternary Mg-(Cu,Ni)-Zr glass-forming system: Microstructure and compressive properties. 2007 , 22, 314-325	32
2058	Evaluation of the Twinning Behavior of Polycrystalline Magnesium at Room Temperature by Acoustic Emission. 2007 , 48, 1215-1220	24
2057	Superplasticity of Fine-Grained Magnesium Alloy AZ31 Processed by Multi-Directional Forging. 2007 , 48, 1406-1411	26
2056	New recycling process of magnesium alloy machined chips by hot extrusion. 2007 , 57, 250-255	4
2055	Role of Eutectic Intermetallic Phase on Creep Strength in a Die-Cast Mg-Al-Ca Alloy: Evaluation by Internal Stress Measurement. 2007 , 48, 97-100	5
2054	Creep Parameters in a Die-Cast Mg-Al-Ca Alloy. 2007 , 48, 2329-2335	31
2053	Grain refining by hot extrusion of AZ91D magnesium alloy machined chips and resulting high strain rate superplasticity. 2007 , 57, 391-397	1

2052	The Microstructure and Mechanical Properties of AZ31-xRE Magnesium Alloys. 2007 , 48, 1149-1156	8
2051	Microstructure and mechanical properties of AZ91D alloy prepared by a semi-solid diecasting process. 2007 , 98, 235-238	2
2050	Electronic structure and stability of MgTe intermetallic compounds from first-principles calculations. 2007 , 428, 316-321	42
2049	Microstructures and properties of MgGd alloy containing Y. 2007 , 430, 252-256	79
2048	Experimental investigation of the MgAlCa system. 2007 , 436, 131-141	43
2047	Effects and mechanism of Ca on refinement of AZ91D alloy. 2007 , 437, 317-321	108
2046	Influence of Si and Sb additions on the corrosion behavior of AZ91 magnesium alloy. 2007 , 15, 1511-1517	73
2045	Effect of temperature on mechanical behavior of AZ31 magnesium alloy. 2007 , 17, 41-45	36
2044	Thermodynamic optimization of Mg-Nd system. 2007 , 17, 77-81	24
2043	Effects of sodium tungstate on characteristics of microarc oxidation coatings formed on magnesium alloy in silicate-KOH electrolyte. 2007 , 17, 244-249	31
2042	Structural stability of intermetallic compounds of Mg-Al-Ca alloy. 2007 , 17, 250-256	23
2041	Recrystallization behaviour of fine-grained magnesium alloy after hot deformation. 2007 , 17, 1139-1142	29
2040	Microstructures and mechanical properties of double hot-extruded AZ80+xSr wrought alloys. 2007 , 17, 1143-1151	20
2039	Effect of hot plastic deformation on microstructure and mechanical property of Mg-Mn-Ce magnesium alloy. 2007 , 17, 1158-1163	12
2038	In situ ESEM study of partial melting and precipitation process of AZ91D. 2007 , 2, 493-498	1
2037	Novel Nanoparticle-Reinforced Metal Matrix Composites with Enhanced Mechanical Properties. 2007 , 9, 639-652	446
2036	Improving Overall Mechanical Performance of Magnesium Using Nano-Alumina Reinforcement and Energy Efficient Microwave Assisted Processing Route. 2007 , 9, 902-909	52
2035	Electroless plating of silver on AZ31 magnesium alloy substrate. 2007 , 201, 4512-4517	27

2034	Investigation of particle flattening behaviour and bonding mechanisms of APS sprayed coatings on magnesium alloys. 2007 , 201, 6290-6296		28
2033	A new method for electroless NiP plating on AZ31 magnesium alloy. 2007 , 202, 133-139		58
2032	The subsurface zone in magnesium alloy studied by positron annihilation techniques. 2007 , 40, 1360-1368		5
2031	Development of Mg/Cu nanocomposites using microwave assisted rapid sintering. 2007 , 67, 1541-1552		152
2030	Twinning of CaMgSi phase in a cast Mg _{0.9} Ca _{0.5} Si _{0.3} Zr alloy. 2007 , 55, 531-538		16
2029	Enhancing strength and ductility of magnesium by integrating it with aluminum nanoparticles. 2007 , 55, 6338-6344		108
2028	Preparation and characterization of oxide films containing crystalline TiO ₂ on magnesium alloy by plasma electrolytic oxidation. 2007 , 52, 4836-4840		113
2027	Life cycle inventory study on magnesium alloy substitution in vehicles. 2007 , 32, 1352-1360		140
2026	Friction stir processing of AM60B magnesium alloy sheets. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 462, 393-397	5-3	71
2025	Influence of alloy elements and pouring temperature on the fluidity of cast magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 444, 69-74	5-3	23
2024	Effects of volume fraction of alumina short fibers on high cycle fatigue properties of Al and Mg alloy composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 468-470, 230-236	5-3	24
2023	Effects of heat treatments on Microstructure and mechanical properties of Mg _{0.9} Y _{0.5} Sm _{0.5} Zr alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 448, 165-170	5-3	50
2022	Experimental investigation and thermodynamic calculation of phase relations in the Mg _{0.9} Y _{0.5} Zr ternary system. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 454-455, 266-273	5-3	23
2021	Dynamic recrystallization in AZ31 magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 456, 52-57	5-3	275
2020	Effects of ionizing radiation and thermal cycling on tensile properties of extruded Mg _{0.9} Zn _{0.5} Zr alloys containing quasicrystalline phase. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 457, 186-194	5-3	4
2019	Tribological properties of duplex MAO/DLC coatings on magnesium alloy using combined microarc oxidation and filtered cathodic arc deposition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 454-455, 164-169	5-3	51
2018	Effect of Pb and Sb additions on the precipitation kinetics of AZ91 magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 457, 275-281	5-3	44
2017	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

2016	Evolution of crystallographic texture during equal channel angular extrusion (ECAE) and its effects on secondary processing of magnesium. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 471, 1-14	5:3	136
2015	Effect of nano-particles on the creep resistance of Mg ₉₂ Ni ₈ based alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 449-451, 318-321	5:3	74
2014	Effect of Pb addition on ageing behavior of AZ91 magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 452-453, 87-92	5:3	56
2013	Effect of Y for enhanced age hardening response and mechanical properties of Mg ₉₂ Ca ₂ Zr ₈ alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 456, 78-84	5:3	146
2012	Microstructures and mechanical properties of resistance spot welded magnesium alloy joints. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 460-461, 494-498	5:3	67
2011	Superplastic behaviour of friction stir processed AZ91 magnesium alloy produced by high pressure die cast. 2007 , 184, 77-83		104
2010	Development of AZ31 Mg alloy wrought process route without protective gas. 2007 , 187-188, 757-760		41
2009	Hot compression behavior of the AZ91 magnesium alloy produced by high pressure die casting. 2007 , 189, 97-106		70
2008	Grain Coarsening Behavior of Mg-Al Alloys with Mischmetal Addition. 2007 , 25, 227-232		15
2007	Stamping Formability of ZE10 Magnesium Alloy Sheets. 2007 , 25, 480-484		6
2006	Corrosion Resistance of AZ91D Magnesium Alloy Modified by Rare Earths-Laser Surface Treatment. 2007 , 25, 201-203		6
2005	The effect of cerium on high-cycle fatigue properties of die-cast magnesium alloy. 2007 , 30, 1149-1157		5
2004	Fatigue behaviour of friction stir processed AZ91 magnesium alloy produced by high pressure die casting. 2007 , 58, 226-232		53
2003	Effect of silicon on damping capacities of pure magnesium and magnesium alloys. 2007 , 61, 231-234		31
2002	Mathematical modeling of electromagnetic separation of inclusions from magnesium melt in a rectangular channel. 2007 , 61, 2045-2049		13
2001	Microstructure and mechanical behaviour of semi-solid die-casting AZ91D magnesium alloy. 2007 , 61, 2333-2337		50
2000	Reactive brazing of Al alloy to Mg alloy using zinc-based brazing alloy. 2007 , 61, 2373-2377		50
1999	Research on the dislocation damping of Mg ₂ Si/Mg ₉ Al composite materials. 2007 , 61, 2518-2522		14

1998	In situ observation of ageing process and new morphologies of continuous precipitates in AZ91 magnesium alloy. 2007 , 61, 4707-4710		44
1997	Converting hcp Mg-Al-Zn alloy into bcc Mg-Al-Zn alloy by electrolytic deposition and diffusion of reduced lithium atoms in a molten salt electrolyte LiCl-KCl. 2007 , 56, 597-600		25
1996	Microstructures and mechanical properties of Mg ₈ Gd _{0.6} Zr _x Nd (x = 0, 1, 2 and 3 mass%) alloys. 2007 , 42, 3908-3913		31
1995	Microstructure characteristics and mechanical properties of laser weld bonding of magnesium alloy to aluminum alloy. 2007 , 42, 565-572		56
1994	Microstructure and mechanical properties of Mg-Al-Zn alloy sheets severely deformed by accumulative roll-bonding. 2007 , 42, 9256-9261		50
1993	Innovative Beiträge der Umformtechnik zum Leichtbau von Kraftfahrzeugen. 2007 , 152, 136-141		3
1992	The Role of Microstructure on Ductility of Die-Cast AM50 and AM60 Magnesium Alloys. 2007 , 38, 286-297		39
1991	Grain Boundary Sliding during Diffusion and Dislocation Creep in a Mg-0.7 Pct Al Alloy. 2007 , 38, 1743-1749		16
1990	Preparation and Characterization of Binder Less Mg/Mg Alloy Infiltrated SiCp Reinforced Composites. 2007 , 16, 527-532		1
1989	Metallurgical Evaluation of AZ31B-H24 Magnesium Alloy Friction Stir Welds. 2007 , 16, 655-662		42
1988	Generation of hydrogen from magnesium alloy scraps catalyzed by platinum-coated titanium net in NaCl aqueous solution. 2007 , 32, 2337-2343		77
1987	Surface oxidation behavior of MgNd alloys. 2007 , 253, 9017-9023		28
1986	Fabrication, microstructure and compressive behavior of ZC63 Mg μ microballoon foam composites. 2007 , 67, 1842-1853		91
1985	Fatigue life prediction of ZE41A magnesium alloy using Weibull distribution. 2008 , 29, 1549-1553		31
1984	Microstructure and mechanical properties of Mg _{12.3} Zn _{5.8} Y _{1.4} Al alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 485, 55-60	5-3	11
1983	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
1982	Effect of combined addition of Si and Sb on the microstructure and creep properties of AZ91 magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 485, 86-91	5-3	61
1981	Effect of Al addition on the elevated temperature deformation behavior of Mg ₂ Nd alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 487, 481-487	5-3	20

1980	Microscopic failure modes of hpdc AZ91HP magnesium alloy under monotonic loading. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 488, 303-310	5-3	17
1979	Microstructure and mechanical properties of as-cast AZ31 with the addition of Sb. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 497, 254-259	5-3	16
1978	Interface microstructure and diffusion kinetics in diffusion bonded Mg/Al joint. 2008 , 95, 71-79		19
1977	Influence of Mg ₃ N ₂ powder on microstructures and mechanical properties of AZ31 Mg alloy. 2008 , 15, 459-462		6
1976	Magnesium alloy applications in automotive structures. 2008 , 60, 57-62		210
1975	Phase diagrams of advanced magnesium alloys containing Al, Ca, Sn, Sr, and Mn. 2008 , 60, 32-38		23
1974	Microstructure and Elevated Temperature Properties of Die-cast AZ91-xNd Magnesium Alloys. 2008 , 17, 725-729		20
1973	Development of Forming Limit Diagrams of Aluminum and Magnesium Sheet Alloys at Elevated Temperatures. 2008 , 17, 288-296		56
1972	Effects of yttrium on recrystallization and grain growth of Mg-4.9Zn-0.7Zr alloy. 2008 , 26, 392-397		16
1971	Grain refinement of AZ31 magnesium alloy by Al-Ti-C-Y master alloy. 2008 , 26, 604-608		9
1970	Mikrostrukturelle und mechanische Eigenschaften von laserstrahlgeschweißtem Magnesiumfeinblech AZ31-HP mit und ohne Zusatzwerkstoffe. 2008 , 39, 435-447		3
1969	Electroless plating of copper on AZ31 magnesium alloy substrates. 2008 , 85, 253-258		15
1968	Microstructure and properties of friction stir butt-welded AE42 magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 477, 243-249	5-3	39
1967	Chemical composition optimization of gravity cast Mg ₀ Nd ₀ Zn ₀ Zr alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 496, 177-188	5-3	73
1966	Hot deformation behavior of ZE41A magnesium alloy. 2008 , 29, 860-866		22
1965	A novel method of electroless plating on AZ31 magnesium alloy sheet. 2008 , 203, 310-314		14
1964	Low-pressure die casting of magnesium alloy AM50: Response to process parameters. 2008 , 205, 224-234		58
1963	Effects of current frequency on the structural characteristics and corrosion property of ceramic coatings formed on magnesium alloy by PEO technology. 2008 , 208, 9-13		58

1962	Molybdate/phosphate composite conversion coating on magnesium alloy surface for corrosion protection. 2008 , 255, 1672-1680		101
1961	Influence of microstructure and composition on the corrosion behaviour of Mg/Al alloys in chloride media. 2008 , 53, 7890-7902		253
1960	Effect of laser surface melting on friction and wear behavior of AM50 magnesium alloy. 2008 , 202, 3175-3179	51	
1959	Wear mechanism map of uncoated HSS tools during drilling die-cast magnesium alloy. 2008 , 265, 685-691		32
1958	Modelling of CO2 laser welding of magnesium alloys. 2008 , 40, 581-588		25
1957	Constitutive modeling for anisotropic/asymmetric hardening behavior of magnesium alloy sheets. 2008 , 24, 545-582		131
1956	Effects of cerium on the microstructure and mechanical properties of Mg ₂₀ Zn ₈ Al alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 474, 317-322	5-3	45
1955	Semisolid processing AZ91 magnesium alloy by electromagnetic stirring after near-liquidus isothermal heat treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 475, 194-201	5-3	40
1954	Study on the dissimilar magnesium alloy and copper lap joint by TIG welding. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 476, 206-209	5-3	22
1953	Microstructure and mechanical property of Mg _{8.31} Gd _{1.12} Dy _{0.38} Zr alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 477, 193-197	5-3	35
1952	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
1951	Effects of heat treatments on the microstructures and mechanical properties of Mg ₈ Nd _{0.2} Zn _{0.4} Zr (wt.%) alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 486, 183-192	5-3	146
1950	Creep behaviour of the creep resistant Mg ₃ Nd ₂ Zn ₁ Mn ₁ alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 489, 93-98	5-3	24
1949	Microstructure and mechanical properties of Mg _{4.5} Al _{1.0} Zn alloy sheets produced by twin roll casting and sequential warm rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 492, 317-326	5-3	55
1948	Precipitation processes in a Mg ₂ n ₈ n alloy studied by TEM and SAXS. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 494, 158-165	5-3	38
1947	Mechanical properties and microstructures of a magnesium alloy gas tungsten arc welded with a cadmium chloride flux. 2008 , 59, 40-46		40
1946	The relationship between microstructure and properties of Mg/Al brazed joints using Zn filler metal. 2008 , 59, 479-483		46
1945	The effect of La or Ce on ageing response and mechanical properties of cast Mg ₀ d ₀ Zr alloys. 2008 , 59, 435-439		33

1944	High cycle fatigue characterization of two die-cast magnesium alloys. 2008 , 59, 567-570	16
1943	Aging behavior and mechanical properties of Mg ₉₇ Al ₃ alloys. 2008 , 59, 983-986	17
1942	Study on the weld joint of Mg alloy and steel by laser-GTA hybrid welding. 2008 , 59, 1279-1284	66
1941	Effects of heat input on microstructure and tensile properties of laser welded magnesium alloy AZ31. 2008 , 59, 1491-1497	94
1940	A first-principles study on the structural stability of Al ₂ Ca Al ₄ Ca and Mg ₂ Ca phases. 2008 , 62, 206-210	41
1939	Microstructure nanocrystallization of a Mg ₉₇ Al ₃ Zn alloy by mechanically assisted hydriding-dehydriding. 2008 , 62, 2984-2987	13
1938	Microstructure and mechanical properties of Mg ₉₇ Al ₃ Zn alloy sheet fabricated by cold extrusion. 2008 , 62, 4009-4011	20
1937	Magnesium-PVC Membrane Sensor Based on 4,5-Bis(Benzoylthio)-1,3-Dithiole-2-Thione. 2008 , 41, 2727-2742	19
1936	Thermodynamic assessment of the Zn ₂ and Al ₂ Zn ₃ systems. 2008 , 452, 283-290	10
1935	Effect of Mg-based spherical quasicrystals on microstructure and mechanical properties of AZ91 alloys. 2008 , 453, 309-315	26
1934	Effect of Y for enhanced age hardening response and mechanical properties of Mg ₉₇ Al ₃ Y alloys. 2008 , 454, 194-200	7
1933	Age hardening and mechanical properties of Mg ₉₇ Al ₃ Er alloy. 2008 , 456, 395-399	26
1932	Thermodynamic modeling of the Ce ₂ Zn and Pr ₂ Zn systems. 2008 , 458, 166-173	30
1931	Thermodynamic assessment of the Nd ₂ Zn binary system. 2008 , 458, 184-188	5
1930	Thermodynamic reevaluation of the Mg ₂ Al system. 2008 , 459, 286-290	2
1929	Thermodynamic assessment of the Pr ₂ Zn binary system. 2008 , 459, 191-195	2
1928	Quantitative characterization of Mg ₁₇ Al ₁₂ phase and grain size in HPDC AZ91 magnesium alloy. 2008 , 461, 139-146	39
1927	Refinement role of electromagnetic stirring and strontium in AZ91 magnesium alloy. 2008 , 450, 546-550	59

1926	Micromacro interactions and effect of section thickness of hpdc AZ91 Mg alloy. 2008 , 464, 133-137	8
1925	Precipitate phases in the Mg-4Y-4Sm-0.5Zr alloy. 2008 , 465, 119-126	12
1924	The microstructure and mechanical properties of Mg-3Al-3RE alloys. 2008 , 465, 412-416	50
1923	The study on the plasma arc weld bonding process of magnesium alloy. 2008 , 466, 368-372	17
1922	Phase equilibria, thermodynamics and solidification microstructures of Mg-Bi-Ca alloys, Part 1: Experimental investigation and thermodynamic modeling of the ternary Mg-Bi-Ca system. 2008 , 16, 299-315	76
1921	Thermodynamic description of the Mg-Eu binary system. 2008 , 32, 462-465	7
1920	Effect of long term annealing on the microstructure of hpdc AZ91 Mg alloy: A quantitative analysis by image processing. 2008 , 43, 759-766	11
1919	Corrosion behaviour of magnesium/aluminium alloys in 3.5 wt.% NaCl. 2008 , 50, 823-834	477
1918	Characterization and corrosion studies of ceria thin film based on fluorinated AZ91D magnesium alloy. 2008 , 50, 2304-2309	78
1917	Corrosion properties of surface-modified AZ91D magnesium alloy. 2008 , 50, 3267-3273	64
1916	Deformation behaviors of magnesium alloy AZ31 sheet in cold deep drawing. 2008 , 18, 86-91	30
1915	Improving mechanical properties of Mg-Al-Zn alloy sheets through accumulative roll-bonding. 2008 , 18, 309-314	27
1914	Flow stress and microstructure evolution of semi-continuous casting AZ70 Mg-alloy during hot compression deformation. 2008 , 18, 315-320	18
1913	Using friction stir processing to produce ultrafine-grained microstructure in AZ61 magnesium alloy. 2008 , 18, 562-565	39
1912	Effects of microstructure on creep behavior of Mg-5%Zn-2%Al(-2%Y) alloy. 2008 , 18, 580-587	12
1911	Assessing environmental impact of magnesium production using Pidgeon process in China. 2008 , 18, 749-754	37
1910	Microstructure and properties of hot extruded AZ31-0.25%Sb Mg-alloy. 2008 , 18, s17-s21	2
1909	Effects of grain refinement on mechanical properties and microstructures of AZ31 alloy. 2008 , 18, s39-s43	18

1908	Morphological evolutions of cast and melt-spun Mg ₉₇ Zn ₁ Y ₂ alloys during deformation and heat-treating. 2008 , 18, s69-s75	5
1907	Influence of sub-rapid solidification on microstructure and mechanical properties of AZ61A magnesium alloy. 2008 , 18, s86-s90	5
1906	Influence of melt superheating on microstructures of Mg-3.5Si-1Al alloys. 2008 , 18, s107-s112	7
1905	Microstructure evolution of casting Mg alloy AM60B subjected to compression deformation. 2008 , 18, s127-s131	
1904	Corrosion and mechanical properties of hot-extruded AZ31 magnesium alloys. 2008 , 18, s140-s144	17
1903	Transformation mechanism of lamellar microstructure of AZ80 wrought Mg alloy during warm deformation. 2008 , 18, s156-s159	15
1902	Microstructure and texture evolution of AZ31 magnesium alloy during rolling. 2008 , 18, s170-s174	10
1901	Analysis on flow stress of magnesium alloys during high temperature deformation. 2008 , 18, s180-s184	1
1900	FEM analysis for hot rolling process of AM60 alloy. 2008 , 18, s242-s246	6
1899	Investigation of flux containing GdCl ₃ on recycling Mg-Gd-Y-Zr scraps. 2008 , 18, s292-s298	7
1898	Microstructure, tensile properties and compressive creep resistance of Mg-(58.5)%Sn-2%La alloys. 2008 , 18, s299-s305	11
1897	Effects of increase extent of voltage on wear and corrosion resistance of micro-arc oxidation coatings on AZ91D alloy. 2008 , 18, s354-s360	15
1896	Micro-Macro-interaction. 2008 ,	4
1895	Microstructure and corrosion characteristics of laser-alloyed magnesium alloy AZ91D with Al-Si powder. 2008 , 9, 025002	13
1894	Electron Beam Surface Alloying of a Magnesium Alloy with Al. 2008 , 373-374, 326-329	
1893	Study of flux assisted TIG welding of magnesium alloy with SiC particles in flux. 2008 , 12, 47-51	14
1892	Warm deep drawing of magnesium alloy sheets Formability and process conditions. 2008 , 222, 1347-1354	6
1891	Influence of Sr and Zn additions on corrosion behaviour of Mg ₉₅ Sn ₅ Al _{0.5} Si alloys. 2008 , 21, 96-99	4

1890	High Cycle Fatigue Behavior of Magnesium Alloys under Corrosive Environment. 2008 , 378-379, 131-146	8
1889	Transport of Species during Plasma Electrolytic Oxidation of WE43-T6 Magnesium Alloy. 2008 , 155, C101	32
1888	Effects of oxide activating flux on laser welding of magnesium alloy. 2008 , 13, 305-311	23
1887	Microstructure of AlMg dissimilar weld made by cold metal transfer MIG welding. 2008 , 24, 827-831	68
1886	Thermodynamic properties and elastic constants of NdMg intermetallics: a molecular dynamics study. 2008 , 99, 42-49	1
1885	First-principles calculations of elastic constants of DO3-Mg3RE (RE = Sc, Y, La, Ce, Lu). 2008 , 78, 065601	11
1884	Achieving ultra-fine grains in AZ61 Mg alloy by friction stir processing. 2008 , 99, 1375-1378	8
1883	Relationship between Minimum Creep Rate and Rupture Life for a Die-Cast Mg-Al-Mn Alloy. 2008 , 49, 439-442	6
1882	Mechanical Properties of Magnesium Alloy AZ31 after Severe Plastic Deformation. 2008 , 49, 69-75	50
1881	Tensile Properties of Forged Mg-Al-Zn-Ca Alloy. 2008 , 49, 554-558	14
1880	Effect of T5 and T6 Tempers on a Hot-Rolled WE43 Magnesium Alloy. 2008 , 49, 1818-1821	34
1879	Effect of Calcium Additions on Creep Properties of a Die-Cast AM50 Magnesium Alloy. 2008 , 49, 1957-1962	20
1878	Experimentally and Numerical Study on Deep Drawing Process for Magnesium Alloy Sheet at Elevated Temperatures. 2008 , 49, 1101-1106	10
1877	Deformation Characteristics of Recycled AZ91 Mg Alloy Containing Oxide Contaminants. 2008 , 49, 1093-1100	8
1876	Non-Isothermal Simulation of Warm Circular Cup Deep Drawing Processing of an AZ31 Magnesium Alloy Sheet. 2008 , 49, 1120-1123	9
1875	EFFECT OF ZIRCONIUM ON HIGH TEMPERATURE TENSILE PROPERTIES OF PRECIPITATION-HARDENEDMG-ND-ZNCASTING ALLOY. 2009 , 23, 966-971	
1874	RESEARCH ON ALLOYING TECHNIQUES OF MISCHMETAL IN DIE CASTING MAGNESIUM ALLOY. 2009 , 23, 832-837	1
1873	MICROSTRUCTURE AND MECHANICAL PROPERTIES OF AZ31 MAGNESIUM ALLOY SHEET BY HOT ROLLING. 2009 , 23, 984-989	12

1872	Effects of KF, NaOH, and KOH Electrolytes on Properties of Microarc-Oxidized Coatings on AZ91D Magnesium Alloy. 2009 , 156, C298	22
1871	Enhancement of ductility in Mg-3Al-1Zn alloy with tilted basal texture by electropulsing. 2009 , 24, 3674-3679	16
1870	Effects of medium-frequency electromagnetic field on solidification process of semi-continuous casting AZ31 magnesium alloy. 2009 , 13, 107-111	2
1869	Weld porosity in fibre laser weld of thixomolded heat resistant Mg alloys. 2009 , 14, 554-558	18
1868	Influence of Conversion Coating Conditions with Rare Earth Elements on Corrosion Resistance of Mg Alloys. 2009 , 16, 39-46	1
1867	Thermal Cycle Characteristics of AM 50 Magnesium Alloy Welded by FSW. 2009 , 419-420, 533-536	2
1866	Tensile mechanical properties and failure behaviors with the ductile-to-brittle transition of the Mg-1Al-1Zn alloy. 2009 , 61, 1141-1144	44
1865	Microstructure and mechanical properties of spray-formed AZ91 magnesium alloy. 2009 , 60, 240-245	27
1864	Evolution of the microstructure and hardness of a rapidly solidified/melt-spun AZ91 alloy upon aging at different temperatures. 2009 , 60, 316-321	8
1863	A study on the effect of plasma electrolytic oxidation on the stress corrosion cracking behaviour of a wrought AZ61 magnesium alloy and its friction stir weldment. 2009 , 60, 389-396	33
1862	Research on microstructures of sub-rapidly solidified AZ61 Magnesium Alloy. 2009 , 60, 482-486	26
1861	Effect of heat input on the microstructure and mechanical properties of tungsten inert gas arc butt-welded AZ61 magnesium alloy plates. 2009 , 60, 1583-1590	62
1860	Creep rupture properties of die-cast Mg-1Al-1Ca alloys. 2009 , 113, 503-506	14
1859	Dislocation movements during creep in a die-cast AM50 magnesium alloy. 2009 , 117, 331-334	4
1858	Mechanical properties of the hot-rolled Mg-2Gd-1Y magnesium alloy. 2009 , 118, 453-458	16
1857	Texture and its effect on mechanical properties in fiber laser weld of a fine-grained Mg alloy. 2009 , 63, 870-872	21
1856	Rare earth metals used in biodegradable magnesium-based stents do not interfere with proliferation of smooth muscle cells but do induce the upregulation of inflammatory genes. 2009 , 91, 360-9	95
1855	Study on laser-tungsten inert gas hybrid welding of dissimilar Mg alloy and steel with Ni as interlayer. 2009 , 40, 780-783	3

1854	Properties of CO2 laser-welded butt joints of dissimilar magnesium alloys. 2009 , 209, 1122-1128		25
1853	The effect of adhesive layer on variable polarity plasma arc weld bonding process of magnesium alloy. 2009 , 209, 2864-2870		19
1852	Polymer plating on AZ31 magnesium alloy surface and film evaluation of corrosion property. 2009 , 209, 4590-4594		16
1851	Effect of milling and reinforcement on mechanical properties of nanostructured magnesium composite. 2009 , 209, 4439-4443		28
1850	Hot forging process design and parameters determination of magnesium alloy AZ31B spur bevel gear. 2009 , 209, 5871-5880		39
1849	Performance of wrought aluminium and magnesium alloy tubes in three-point bending. 2009 , 30, 2316-2322		42
1848	Influence of transverse load on the high cycle fatigue behaviour of low pressure cast AZ91 magnesium alloy. 2009 , 30, 4211-4217		13
1847	Flow stress of wrought magnesium alloys during hot compression deformation at medium and high temperatures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 499, 238-241	5-3	65
1846	Microstructure and mechanical properties of AZ80 magnesium alloy sheet processed by differential speed rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 508, 226-233	5-3	95
1845	Stress corrosion cracking behaviors of AZ91 magnesium alloy in deicer solutions using constant load. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 515, 79-84	5-3	21
1844	Microstructure and mechanical property of the ECAPed Mg ₂ Si/Mg composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 516, 283-289	5-3	38
1843	Microstructure and mechanical property of Mg ₂ 0Ga alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 526, 7-10	5-3	20
1842	High cycle fatigue behavior of as-extruded ZK60 magnesium alloy. 2009 , 44, 2916-2924		46
1841	Effects of samarium on microstructure and mechanical properties of Mg ₉₇ Sm ₃ Zr alloys during thermo-mechanical treatments. 2009 , 44, 3049-3056		13
1840	Mold-filling characteristics and solidification behavior of magnesium alloy in vacuum suction casting process. 2009 , 44, 5644-5653		4
1839	Effects of copper addition on microstructure and strength of the hybrid laser-TIG welded joints between magnesium alloy and mild steel. 2009 , 44, 5725-5731		36
1838	Life cycle assessment of primary magnesium production using the Pidgeon process in China. 2009 , 14, 480-489		30
1837	An improved neural network model for prediction of mechanical properties of magnesium alloys. 2009 , 52, 155-160		3

1836	Microstructure and texture evolution during warm compression of the magnesium alloy AZ31. 2009 , 52, 186-189		3
1835	Behavior of stress corrosion cracking in a magnesium alloy. 2009 , 24, 111-113		9
1834	Particle Hardening in Creep-Resistant Mg-Alloy MRI 230D Probed by Nanoindenting Atomic Force Microscopy. 2009 , 40, 257-261		13
1833	Impression Creep Characteristics of a Cast Mg Alloy. 2009 , 40, 2007-2015		82
1832	Effect of Friction Stir Processing Procedures on Microstructure and Mechanical Properties of Mg-Al-Zn Casting. 2009 , 40, 2447-2456		58
1831	The Serrated Flow Behavior of Mg-Gd(-Mn-Sc) Alloys. 2009 , 40, 2761-2771		26
1830	Microstructure and Mechanical Properties of AZ91 Alloys by Addition of Yttrium. 2009 , 18, 137-144		23
1829	Prediction of tensile variability by simulations of microstructures having controlled variations of porosity in Mg-alloy pressure die-castings. 2009 , 15, 585-589		2
1828	Hot deformation behavior of a spray-deposited AZ31 magnesium alloy. 2009 , 28, 91-97		8
1827	Optimization of die casting conditions for wear properties of alloy AZ91D components using the Taguchi method and design of experiments analysis. 2009 , 41, 430-439		21
1826	Different Underlying Corrosion Mechanism for Mg Bulk Alloys and Mg Thin Films. 2009 , 6, S690-S694		12
1825	Effects of Nd on Microstructures and Mechanical Properties of AM60 Magnesium Alloy in Vacuum Melting. 2009 , 38, 1141-1145		13
1824	Effect of shot peening on the fatigue behaviour of cast magnesium A8. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 507, 50-57	5-3	30
1823	Study on mechanical properties of Mg ₉₇ Al ₂ Zn ₁ Mn alloys cast by two different methods. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 507, 1-5	5-3	0
1822	Effect of ultrasonic power on microstructure and mechanical properties of AZ91 alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 502, 2-5	5-3	86
1821	Microstructure and porosity in thixomolded Mg alloys and minimizing adverse effects on formability. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 512, 10-18	5-3	15
1820	Effect of Mg ₁₇ Al ₁₂ precipitates on the microstructural changes and mechanical properties of hot compressed AZ91 magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 523, 47-52	5-3	85
1819	Elevated temperature mechanical properties and microstructures of high pressure die cast magnesium AZ91 alloy cast with different section thicknesses. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 523, 282-288	5-3	25

1818	Effects of rare-earth elements and Ca additions on the microstructure and mechanical properties of AZ31 magnesium alloy processed by ECAP. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 526, 22-30	5.3	75
1817	Electrochemical corrosion behaviour of plasma electrolytic oxidation coatings on AM50 magnesium alloy formed in silicate and phosphate based electrolytes. 2009 , 54, 3842-3850		240
1816	Producing hydrogen in an aqueous NaCl solution by the hydrolysis of metallic couples of low-grade magnesium scrap and noble metal net. 2009 , 34, 1677-1687		40
1815	Corrosion protection of AZ31 magnesium alloy by a TiO ₂ coating prepared by LPD method. 2009 , 203, 2017-2020		48
1814	Numerical simulation on warm deep drawing of magnesium alloy AZ31 sheets. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 499, 40-44	5.3	15
1813	Enhanced properties of Mg-based nano-composites reinforced with Al ₂ O ₃ nano-particles. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 519, 198-203	5.3	271
1812	Dislocation analysis of die-cast Mg ₉₂ Al ₈ Ca alloy after creep deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 523, 214-219	5.3	25
1811	Refinement effect of cerium, calcium and strontium in AZ91 magnesium alloy. 2009 , 209, 3999-4004		72
1810	Microstructure and mechanical properties of high performance Mg ₉₂ Al ₈ based alloys. 2009 , 30, 292-296		106
1809	Compressive strain-rate sensitivity of magnesium-aluminum die casting alloys. 2009 , 30, 642-648		74
1808	Precipitation behaviors of spray formed AZ91 magnesium alloy during heat treatment and their strengthening effect. 2009 , 30, 440-444		27
1807	Selection of FSW tool pin profile, shoulder diameter and material for joining AZ31B magnesium alloy [An experimental approach. 2009 , 30, 2647-2656		165
1806	Enhanced plasticity of twin-roll cast ZK60 magnesium alloy through differential speed rolling. 2009 , 30, 3345-3350		72
1805	Electrodeposition of Al-Mn alloy on AZ31B magnesium alloy in molten salts. 2009 , 255, 4926-4932		47
1804	Influence of phytic acid concentration on coating properties obtained by MAO treatment on magnesium alloys. 2009 , 255, 7893-7897		69
1803	Microstructure and wear resistance of Al ₂ SiC composites coatings on ZE41 magnesium alloy. 2009 , 255, 9174-9181		50
1802	Influence of rare earth Y on the corrosion behavior of as-cast AZ91 alloy. 2009 , 54, 6433-6437		63
1801	Formation process of bright spots on surfaces of die-cast magnesium alloy components after chemical conversion treatment. 2009 , 16, 19-25		10

1800	Investigation of plasma electrolytic oxidation process on AZ91D magnesium alloy. 2009 , 9, 126-130	72
1799	Surface nanocrystallization mechanism of a rare earth magnesium alloy induced by HVOF supersonic microparticles bombarding. 2009 , 256, 619-626	14
1798	Anisotropy of low temperature superplasticity of fine grained magnesium alloy AZ31 processed by multidirectional forging. 2009 , 25, 1442-1447	8
1797	Effect of cooling rate on oxidation resistance and powder ignition temperature of AM50 alloy with addition of yttrium. 2009 , 51, 301-308	11
1796	The role of Ca microalloying on the microstructure and corrosion behavior of Mg ₉₅ Zn ₄ Mn ₁ (0.5%)Si alloys. 2009 , 51, 776-784	37
1795	Effect of yttrium addition on the oxide scale of AM50 magnesium alloy. 2009 , 51, 1128-1133	20
1794	SiO ₂ based hybrid inorganic-organic films doped with TiO ₂ /FeO ₂ nanoparticles for corrosion protection of AA2024 and Mg-AZ31B alloys. 2009 , 51, 1998-2005	66
1793	Comparison of electrochemical corrosion behaviour of MgO and ZrO ₂ coatings on AM50 magnesium alloy formed by plasma electrolytic oxidation. 2009 , 51, 2483-2492	194
1792	Formation of micro-arc oxidation coatings on AZ91HP magnesium alloys. 2009 , 51, 2820-2825	83
1791	Effect of mischmetal on the corrosion properties of Mg ₉₅ Al alloy. 2009 , 51, 2942-2949	37
1790	First-principles calculations of mechanical and thermodynamic properties of the Laves C15-Mg ₂ RE (RE = La, Ce, Pr, Nd, Pm, Sm, Gd). 2009 , 47, 297-301	17
1789	Investigation of the photo-catalytic coating on AZ91 alloy. 2009 , 467, 257-260	7
1788	Thermodynamic assessments of the Sm ₂ Nd and Nd ₂ Nd systems. 2009 , 468, 115-121	13
1787	Solidification pathways and constituent phases of Mg ₉₅ Ni ₅ Zr alloys. 2009 , 468, 170-178	86
1786	The relation between severe plastic deformation microstructure and corrosion behavior of AZ31 magnesium alloy. 2009 , 468, 222-229	315
1785	Effect of position on the tensile properties in high-pressure die cast Mg alloy. 2009 , 470, 111-116	13
1784	Effect of Zr, Mn and Sc additions on the grain size of Mg ₉₅ Gd alloy. 2009 , 470, 311-316	71
1783	Effect of strontium on the grain refining efficiency of Mg ₉₅ Al alloy refined by carbon inoculation. 2009 , 470, 228-232	36

1782	Thermodynamic assessment of the Ag-Ni system. 2009 , 471, 176-179	3
1781	Mechanical properties and texture evolution during rolling process of an AZ31 Mg alloy. 2009 , 472, 127-132	41
1780	Thermodynamic assessment of the Sm-Zn binary system. 2009 , 473, 176-179	6
1779	Effects of cathode current density on structure and corrosion resistance of plasma electrolytic oxidation coatings formed on ZK60 Mg alloy. 2009 , 475, 773-777	87
1778	Effect of heat treatment on microstructure and mechanical properties of twin roll cast and sequential warm rolled ZK60 alloy sheets. 2009 , 476, 324-328	46
1777	Liquid segregation behavior of semi-solid AZ91 alloy during back extrusion test. 2009 , 477, 822-827	17
1776	Discontinuous and continuous precipitation in magnesium-aluminum type alloys. 2009 , 477, 870-876	172
1775	Isothermal section of the Mg-Al-Mn ternary system at 400°C. 2009 , 479, 237-241	17
1774	Microstructural evolution behavior of Mg-Si-Al alloy modified with Sr-Bi during isothermal heat treatment. 2009 , 480, L25-L28	26
1773	Influence of flux containing YCl ₃ additions on purifying effectiveness and properties of Mg-0.5Zr alloy. 2009 , 480, 386-391	23
1772	The microstructures and mechanical properties of cast Mg-Zn-Al-RE alloys. 2009 , 480, L33-L36	23
1771	Isothermal sections of the Mg-rich corner in the Mg-Sn-Zn ternary system at 300 and 400 °C. 2009 , 481, 140-143	22
1770	Thermodynamic assessments of the Ag-Bi and Ag-Te systems. 2009 , 484, 102-107	7
1769	Superplasticity and microstructure in Mg-Cd-Zr rolled sheet. 2009 , 485, 295-299	45
1768	Influence of solution treatments on the age-hardening response of Mg-Cd-(Mn-Bi) alloys. 2009 , 486, 900-904	11
1767	Spherical shape of Mg ₁₇ Al ₁₂ precipitates in AZ91 magnesium alloy processed by equal-channel angular pressing. 2009 , 487, 263-268	49
1766	Morphology of Mg ₃ Sb ₂ Precipitates in Mg-Sb Binary Alloys. 2009 , 610-613, 892-898	1
1765	Dislocation motion in magnesium: a study by molecular statics and molecular dynamics. 2009 , 17, 075009	86

1764	Effect of the Pulse Duty Cycle on Characteristics of Plasma Electrolytic Oxidation Coatings Formed on AZ31 Magnesium Alloy. 2009 , 26, 096802	4
1763	Surface Properties of AZ31B Magnesium Alloy by Oxygen Plasma Immersion Ion Implantation. 2009 , 11, 33-37	3
1762	Corrosion action and passivation mechanism of magnesium alloy in fluoride solution. 2009 , 19, 50-54	34
1761	Texture evolution of extruded AZ31 magnesium alloy sheets. 2009 , 19, 511-516	16
1760	Corrosion behavior of as-cast Mg68Zn28Y4 alloy with I-phase. 2009 , 19, 1093-1097	19
1759	Grain refining and property improvement of AZ31 Mg alloy by hot rolling. 2009 , 19, s326-s330	23
1758	Mechanical properties and texture evolution during hot rolling of AZ31 magnesium alloy. 2009 , 19, s349-s354	25
1757	Effect of Al and Zn additives on grain size of Mg-3Ni-2MnO2 alloy. 2009 , 19, s355-s358	2
1756	Change-Channel Angular Extrusion of Magnesium Alloy AZ31. 2009 , 50, 765-770	10
1755	The Effect of Trace Addition of Strontium and Zinc on the Creep Properties of Mg-6Sn-5Al-2Si Alloys. 2009 , 50, 1404-1410	3
1754	Tension/Compression Anisotropy in Hot Forged Mg-Al-Ca-RE Alloy. 2009 , 50, 1898-1901	7
1753	Modification of Primary Mg ₂ Si Crystals in Hypereutectic Mg-Si Alloy by Application Alternating Current. 2009 , 50, 562-569	9
1752	Effects of Operating Parameters on Modification of Primary Mg ₂ Si Crystals in Hypereutectic Mg-Si Alloy Treated by Imposition of Alternating Current. 2009 , 50, 1467-1476	2
1751	Spectral Analysis of Welding Plasma of Magnesium Alloy Using Flux Coated Wire. 2009 , 50, 1909-1914	34
1750	Effect of Prior Deformation on Creep Behavior of a Die-Cast Mg-Al-Ca Alloy. 2009 , 50, 2351-2354	3
1749	Forgeability and Flow Stress of Mg-Zn-Y Alloys with Long Period Stacking Ordered Structure at Elevated Temperatures. 2009 , 50, 841-846	24
1748	Effect of Temperature Ranges of Alternating Current Imposition on Modification of Primary Mg ₂ Si Crystals in Hypereutectic Mg-Si Alloy. 2009 , 50, 622-630	5
1747	Grain Refinement and Superplasticity Induced by Hot Compression of Continuously-Casted Mg-9Al-1Zn-1Ca and Mg-9Al-1Zn Alloys. 2009 , 50, 711-718	9

1746	Preparation of bcc Mg-Li-Al-Zn Alloy by Electrolysis in Molten Salt LiCl-KCl and the Alloy's Electrochemical Performance as Anode Material for Magnesium Batteries. 2009 , 77, 604-607	3
1745	Microstructure and mechanical properties of an as-cast AZ91 magnesium alloy processed by equal channel angular pressing. 2009 , 4, 012012	19
1744	Hybrid welding of magnesium alloys. 2009 , 143-177	0
1743	Electrochemical properties of fine-grained AZ31 magnesium alloy. 2009 , 100, 1213-1216	15
1742	Optimization of Annealing Treatment Parameters in a Twin Roll Cast and Warm Rolled Mg-4.5Al-1.0Zn Alloy. 2009 , 79-82, 2139-2142	3
1741	Fluoride treatment and sol film composite technology for AZ91D magnesium alloy. 2010 , 88, 41-46	7
1740	Microstructure and mechanical properties of as cast AZ31 with addition of germanium. 2010 , 14, 342-347	4
1739	Microstructure evolution and mechanical properties of Mg ₇₁ Ca binary magnesium alloys. 2010 , 14, 154-159	5
1738	Crystal Plasticity Finite Element Analysis of Loading-Unloading Behaviour in Magnesium Alloy Sheet. 2010 ,	4
1737	Effect of Cold Forging and Static Recrystallization on Microstructure and Mechanical Property of Magnesium Alloy AZ31. 2010 , 51, 341-346	12
1736	Microstructure and Corrosion Properties of Mg-xSn-5Al-1Zn (x=0, 1, 5 and 9 mass%) Alloys. 2010 , 51, 472-476	41
1735	Fatigue Crack Propagation Behavior of Textured Polycrystalline Magnesium Alloys. 2010 , 51, 1543-1546	6
1734	Springback Characteristics of Magnesium Alloy Sheet AZ31B in Draw-Bending. 2010 , 51, 685-693	28
1733	Creep Behavior of Hypoeutectic Mg-Ca Binary Alloys. 2010 , 51, 2284-2288	7
1732	Friction Stir Processing: A Novel Approach for Microstructure Refinement of Magnesium Alloys. 2010 , 638-642, 1191-1196	15
1731	Introduction to Magnesium. 2010 , 1-12	0
1730	An experimental investigation on friction stir welding of AZ31B magnesium alloy. 2010 , 49, 111-121	40
1729	Oxidation and ignition behavior of a magnesium alloy containing rare earth elements. 2010 , 51, 225-231	14

1728	Corrosion resistance and chemical stability of super-hydrophobic film deposited on magnesium alloy AZ31 by microwave plasma-enhanced chemical vapor deposition. 2010 , 55, 7094-7101		232
1727	Comparison of coating properties obtained by MAO on magnesium alloys in silicate and phytic acid electrolytes. 2010 , 10, 255-259		42
1726	Effects of laser shock processing on stress corrosion cracking susceptibility of AZ31B magnesium alloy. 2010 , 204, 3947-3953		82
1725	Corrosion performance of plasma electrolytic oxidized AZ31 magnesium alloy in silicate solutions with different additives. 2010 , 205, S32-S35		56
1724	Effect of additives on structure and corrosion resistance of plasma electrolytic oxidation coatings on AZ91D magnesium alloy in phosphate based electrolyte. 2010 , 205, S36-S40		46
1723	Influence of post-treatment on the corrosion resistance of PEO coated AM50B and AM60B Mg alloys. 2010 , 205, 1793-1798		105
1722	Sol-gel silica coatings on ZE41 magnesium alloy for corrosion protection. 2010 , 205, 2375-2385		22
1721	Formation of an aluminum-alloyed coating on AZ91D magnesium alloy in molten salts at lower temperature. 2010 , 205, 2412-2418		33
1720	Ductility of a magnesium alloy in warm forging with controlled forming speed using a CNC servo press. 2010 , 210, 2029-2035		12
1719	Microstructures and mechanical properties of as-cast Mg ₉₇ Y ₂ Nd ₁ Zr _{0.5} Gd _x (x=0, 2 and 4wt.%) alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 1891-1895	5-3	23
1718	Effect of Al ₂ O ₃ nano-particles on the microstructural stability of AZ31 Mg alloy after equal channel angular pressing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 2764-2771	5-3	53
1717	Effects of rare earth elements and Ca additions on high temperature mechanical properties of AZ31 magnesium alloy processed by ECAP. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 3685-3689	5-3	20
1716	Microstructure characteristics during the multi-pass hot rolling and their effect on the mechanical properties of AM50 magnesium alloy sheet. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 3379-3385	5-3	20
1715	Effects of aging treatment on microstructure and mechanical property of an AZ80N magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 4076-4081	5-3	14
1714	Development of processing maps for 3 vol.% TiCp/AZ91D composites material. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 4687-4693	5-3	12
1713	Finite Element Optimization of Deep Drawing Process Forming Parameters for Magnesium Alloys. 2010 , 3, 97-100		5
1712	Characteristics of butt-welded joints on AZ31 magnesium alloy using a Nd:YAG laser. 2010 , 11, 369-373		8
1711	Preparation of biomimetic hydrophobic coatings on AZ91D magnesium alloy surface. 2010 , 53, 2972-2975		8

1710	Effect of middle-frequency electromagnetic field on the semi-continuous casting for ZK60 billets. 2010 , 25, 449-453		2
1709	Microstructure evolution of AS41 magnesium alloy fabricated by ultrasonic vibration. 2010 , 25, 820-823		3
1708	The stamping formability of AZ31 magnesium alloy sheet improved by equal-channel angular pressing. 2010 , 25, 234-237		3
1707	Constitutive analysis of AZ31 magnesium alloy plate. 2010 , 17, 7-12		7
1706	Effect of Ca and Rare Earth Elements on Impression Creep Properties of AZ91 Magnesium Alloy. 2010 , 41, 1973-1982		68
1705	Influence of Electrolyte Chemistry on Morphology and Corrosion Resistance of Micro Arc Oxidation Coatings Deposited on Magnesium. 2010 , 41, 3499-3508		48
1704	Effect of initial microstructures on hot forging of Ca-containing cast Mg alloys. 2010 , 45, 719-724		14
1703	A preliminary study of calcium containing plasma electrolytic oxidation coatings on AM50 magnesium alloy. 2010 , 45, 1406-1410		23
1702	Nanostructured materials by mechanical alloying: new results on property enhancement. 2010 , 45, 4725-4732	31	
1701	Microstructure and mechanical properties of spray-deposited Mg ₉₂ Al ₃ Zn _{0.5} Ca ₁ Nd alloy. 2010 , 61, 756-760		6
1700	Effect of roller burnishing on fatigue properties of the hot-rolled Mg ₉₂ Gd ₃ Y magnesium alloy. 2010 , 124, 835-840		25
1699	Role of twinning and slip in cyclic deformation of extruded Mg ₉₃ Al ₃ Zn alloys. 2010 , 63, 1077-1080		48
1698	Using Ab Initio Calculations in Designing bcc MgLi _x Alloys for Ultra-Lightweight Applications. 2010 , 12, 1198-1205		17
1697	Ab Initio Guided Design of bcc Ternary MgLi _x (X = Ca, Al, Si, Zn, Cu) Alloys for Ultra-Lightweight Applications. 2010 , 12, 572-576		15
1696	Optimization of annealing treatment parameters in a twin roll cast and warm rolled ZK60 alloy sheet. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 1236-1242	5-3	41
1695	Tensile and creep behaviors of Mg ₉₅ Zn _{2.5} Er alloy improved by icosahedral quasicrystal. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 1255-1259	5-3	17
1694	Corrosion fatigue behavior of conversion coated AZ61 magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 4978-4984	5-3	27
1693	Effects of Sn content on the microstructure and mechanical properties of Mg ₉₇ Zn ₃ Al based alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 7002-7007	5-3	38

1692	Microstructure and mechanical properties of twin-roll cast Mg ₉₅ Al ₃ 0.02Zn sheets processed by differential speed rolling. 2010 , 31, 1581-1587		59
1691	Microstructures and mechanical responses of powder metallurgy non-combustive magnesium extruded alloy by rapid solidification process in mass production. 2010 , 31, 1540-1546		29
1690	Laser assisted self-pierce riveting of AZ31 magnesium alloy strips. 2010 , 31, S13-S16		78
1689	The influences of rare earth content on the microstructure and mechanical properties of Mg ₉₅ Zn ₃ Al alloy. 2010 , 31, 3542-3549		25
1688	The microstructure, tensile, and shear deformation behavior of an AZ31 magnesium alloy after extrusion and equal channel angular pressing. 2010 , 31, 3512-3517		89
1687	Thermal stability and elastic properties of Mg ₃ Sb ₂ and Mg ₃ Bi ₂ phases from first-principles calculations. 2010 , 405, 2863-2868		45
1686	Effect of anisotropy on the low-cycle fatigue behavior of rolled AZ31 magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 417-423	5-3	94
1685	Effect of recrystallization and grain growth on the mechanical properties of an extruded AZ21 Mg alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 898-903	5-3	20
1684	Effects of flux containing YCl ₃ on the yttrium loss, mechanical and corrosion properties of Mg ₉₀ Gd ₅ Y _{0.5} Zr alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 1510-1515	5-3	10
1683	Microstructure and mechanical properties of extruded and ECAPed AZ31 Mg alloy, grain refined with Al-Ti-C master alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 3515-3520	5-3	29
1682	Hot deformation behavior and microstructure evolution of ZK21 magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 3670-3675	5-3	30
1681	Mechanical properties as a function of microstructure in the new Mg ₉₀ Al ₇ Ca alloy solidified under different conditions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 4624-4632	5-3	10
1680	Microstructures and mechanical properties of Mg ₉₀ Y ₅ Mn ₃ Nd alloys fabricated by extrusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 4383-4388	5-3	12
1679	Dynamic recrystallization during hot compression of as-cast and homogenized noncombustible Mg ₉₅ Al ₃ Zn ₁ Ca (in mass%) alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 7143-7146	5-3	21
1678	Effect of Bi, Sb, and Ca additions on the hot hardness and microstructure of cast Mg ₉₅ Sn alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 7714-7718	5-3	22
1677	Direct strip casting and hot rolling of an AZ31 magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 528, 559-565	5-3	10
1676	Corrosion fatigue behavior of extruded magnesium alloy AZ80-T5 in a 5% NaCl environment. 2010 , 77, 1567-1576		38
1675	A study of atomic layer deposited LiAl _x O _y films on Mg ₉₀ Li alloys. 2010 , 518, 7501-7504		19

1674	Surface coatings for improving the corrosion resistance and cell adhesion of AZ91D magnesium alloy through environmentally clean methods. 2010 , 518, 7563-7567	21
1673	Improvement of wear and cavitation erosion by ALD-deposited LiAlxOy films on an Mg-0Li-0.5Zn alloy. 2010 , 204, 3707-3712	9
1672	Tribological behavior of pure Mg and AZ31 magnesium alloy strengthened by Al2O3 nano-particles. 2010 , 268, 405-412	127
1671	Development of novel grain morphology during hot extrusion of magnesium AZ21 alloy. 2010 , 58, 1495-1502	65
1670	Deformation twinning in AZ31: Influence on strain hardening and texture evolution. 2010 , 58, 6230-6242	490
1669	Effect of long-period stacking ordered phase on mechanical properties of Mg97Zn1Y2 extruded alloy. 2010 , 58, 6282-6293	439
1668	Assessing the biocompatibility of degradable metallic materials: state-of-the-art and focus on the potential of genetic regulation. 2010 , 6, 1800-7	106
1667	Electrochemical behaviors of the magnesium alloy substrates in various pretreatment solutions. 2010 , 256, 2988-2994	27
1666	Characterization of calcium containing plasma electrolytic oxidation coatings on AM50 magnesium alloy. 2010 , 256, 4017-4022	76
1665	Electrochemical behavior of Mg and some Mg alloys in aqueous solutions of different pH. 2010 , 55, 1880-1887	51
1664	Influence of chloride ion concentration on the electrochemical corrosion behaviour of plasma electrolytic oxidation coated AM50 magnesium alloy. 2010 , 55, 6802-6811	108
1663	Influence of neodymium on high cycle fatigue behavior of die cast AZ91D magnesium alloy. 2010 , 28, 456-460	12
1662	Microstructure and mechanical properties of Mg-10Y-2.5Sm alloy. 2010 , 28, 375-377	11
1661	Study on microstructure and mechanical properties of as-cast Mg-Sn-Nd alloys. 2010 , 28, 790-793	22
1660	Study on solid solution and aging process of AZ91D magnesium alloy with cerium. 2010 , 28, 948-951	8
1659	Microstructure and Properties of Magnesium Alloy by Equal Channel Angular Processing. 2010 , 146-147, 814-817	
1658	Effect of Heat Treatment on the Corrosion Behaviour of a Mg-Y Alloy in Chloride Medium. 2010 , 636-637, 491-496	2
1657	The Study of Electrochemical Property of Organic Coating on Magnesium Alloy. 2010 , 146-147, 433-436	

1656	Characterization of AM60 Magnesium Alloy Prepared by Rapid Solidification and Plastic Consolidation Technique. 2010 , 667-669, 997-1002	
1655	Microstructure and Tensile Properties of an Mg-5Sn-5Zn Alloy. 2010 , 654-656, 639-642	4
1654	Cyclic Deformation and Fatigue Crack Behavior of Extruded AZ31B Magnesium Alloy. 2010 , 638-642, 3056-3061	7
1653	SCC (Stress Corrosion Cracking) Behaviors of Mg-7Al Alloy. 2010 , 650, 272-278	
1652	Characterization of Composite Coatings Produced by Plasma Electrolytic Oxidation Plus Cathodic Electrophoretic Deposition on Magnesium Alloy. 2010 , 146-147, 1126-1131	
1651	Effect of Electromagnetic Vibration on Microstructures of Semi-Continuous Casting AZ80 Magnesium Alloy Billet. 2010 , 146-147, 1797-1800	
1650	Study on Electron Beam Welding of AZ61 Magnesium Alloy. 2010 , 34-35, 1516-1520	1
1649	Effect of Rare-Earth Elements on the Ignition-Proof Behavior of Industrial Pure Magnesium. 2010 , 654-656, 1464-1467	4
1648	DSC and Microstructural Investigations of the Elektron 21 Magnesium Alloy. 2010 , 638-642, 1447-1452	14
1647	Finite Element Simulation of Effects of Mould Angle and Friction on ECAP for AZ80 Magnesium Alloy. 2010 , 667-669, 81-86	2
1646	Effect of Heat Treatment on Microstructure and Mechanical Properties of Semi-Solid Formed Magnesium Alloy AZ91D. 2010 , 148-149, 346-352	
1645	Crystallographic Orientation Dependence of Fatigue Crack Propagation Behavior in Rolled AZ31 Magnesium Alloy. 2010 , 654-656, 723-726	2
1644	Influence of Aging on Microstructure and Mechanical Properties of Wrought Magnesium Alloys. 2010 , 152-153, 560-565	
1643	Influence of Laser Surface Melting on Wear Resistance of AZ91D Magnesium Alloy. 2010 , 33, 607-611	2
1642	The Research on Anti-Corrosion Property of Epoxy/Polyurethane Coating of Magnesium Alloys. 2010 , 152-153, 1262-1266	
1641	Study on Microstructure of Semi-Solid Magnesium Alloy Manufactured by Gas Bubbles Stirring. 2010 , 129-131, 728-732	1
1640	Enhancing Strength and Maintaining Ductility of Mg-3%Li-1%Sc Alloy by Equal Channel Angular Pressing. 2010 , 667-669, 839-844	1
1639	Microstructure and Mechanical Properties of Magnesium Alloy AZ81 with Yttrium. 2010 , 152-153, 197-201	1

1638	Fatigue behavior of hot-extruded Mg ₉₇ Gd ₃ Y magnesium alloy. 2010 , 25, 773-783	12
1637	Smooth and notched fatigue performance of aging treated and shot peened ZK60 magnesium alloy. 2010 , 25, 1375-1387	3
1636	Corrosion and protection of magnesium alloy welds. 2010 , 79-94	1
1635	Effects of Ultrasound Power on Microstructure and Mechanical Properties of AZ91 Alloy. 2010 , 154-155, 1361-1365	
1634	Phase Diagram Calculation and Experimental Study on the New Type Mg-Al-Zn-Ca-Sr Alloy in the Mg-Rich Region. 2010 , 650, 246-252	1
1633	The Influences of Anticipated Heat Treatment on the Electroless Nickel Plating on Magnesium Alloys. 2010 , 139-141, 452-455	
1632	Thermal Stability and Mechanical Properties of Extruded Mg-Zn-Y Alloys with Long-Period Stacking Order Phase. 2010 , 654-656, 611-614	2
1631	Creep Behavior of an AZ91 Magnesium Alloy Reinforced with Aluminum Silicate Short Fibers. 2010 , 97-101, 492-495	1
1630	Modeling and Simulation of Microstructure Evolution of Cast Mg Alloy. 2010 , 638-642, 1562-1568	8
1629	Influence of Dynamic Recrystallization on Tensile Properties of AZ31B Magnesium Alloy Sheet. 2010 , 25, 880-887	20
1628	Friction stir welding of magnesium alloys. 2010 , 274-305	8
1627	Temperature Influences on Springback of AZ31 Sheet. 2010 , 102-104, 484-487	1
1626	CO ₂ laser beam welding of AM60 magnesium-based alloy. 2010 , 22, 56-61	2
1625	CORROSION MECHANISM AND MODEL OF ANODIZED FILM ON AZ91D MAGNESIUM ALLOY. 2010 , 24, 3077-3082	2
1624	Degradable metallic biomaterials for cardiovascular applications. 2010 , 379-404	6
1623	Local Mechanical Properties of a Magnesium Hood Inner Component Formed at Elevated Temperature. 2010 , 132,	6
1622	Keyhole stability in disc laser welding of AZ31B and AZ61A magnesium alloys and weld metal properties. 2010 , 15, 559-566	23
1621	Creep resistance in magnesium alloys. 2010 , 55, 197-217	182

1620	Investigating influence of hybrid (yttria + copper) nanoparticulate reinforcements on microstructural development and tensile response of magnesium. 2010 , 26, 87-94	27
1619	Bending Mechanisms in AM30 Alloy Tube Using a Rotary Draw Bender. 2010 , 25, 1359-1364	10
1618	Influence of temperature on oxidation behaviour of ZE41 magnesium alloy. 2010 , 491, 131-136	12
1617	Corrosion of Mg, AS31 and AZ91 alloys in nitrate solutions. 2010 , 492, 69-76	10
1616	Effects of composition and microstructure on behaviors of electrical resistivity during continuous heating above room temperature in Mg-based alloys. 2010 , 492, 153-159	9
1615	Inhomogeneous evolution of microstructure in AZ91 Mg-alloy during high temperature equal-channel angular pressing. 2010 , 492, 166-172	23
1614	Grain growth kinetics of a fine-grained AZ31 magnesium alloy produced by hot rolling. 2010 , 493, 87-90	80
1613	Thermodynamic optimization of LaZn and LaMgZn systems. 2010 , 497, 336-343	24
1612	Effects of Fe addition and addition sequence on carbon inoculation of MgB%Al alloy. 2010 , 502, 74-79	19
1611	Assessment of creep rupture life of heat resistant MgAlCa alloys. 2010 , 504, 261-264	10
1610	Effect of submicron size SiC particulates on microstructure and mechanical properties of AZ91 magnesium matrix composites. 2010 , 504, 542-547	125
1609	Corrosion behaviour of die-cast AZ91D magnesium alloy in aqueous sulphate solutions. 2010 , 52, 345-351	60
1608	Influence of pH on the deterioration of plasma electrolytic oxidation coated AM50 magnesium alloy in NaCl solutions. 2010 , 52, 540-547	78
1607	Corrosion behaviour of thermally sprayed Al and Al/SiCp composite coatings on ZE41 magnesium alloy in chloride medium. 2010 , 52, 761-768	48
1606	Film formation in the second step of micro-arc oxidation on magnesium alloys. 2010 , 52, 1285-1290	68
1605	Atmospheric corrosion of field-exposed AZ91D Mg alloys in a polluted environment. 2010 , 52, 2188-2196	38
1604	Some particularities of the corrosion behaviour of MgZnMnSiCa alloys in alkaline chloride solutions. 2010 , 52, 2280-2290	23
1603	Corrosion performance of laser-remelted AlBi coating on magnesium alloy AZ91D. 2010 , 52, 3554-3560	55

1602	Coupled thermo-mechanical FE simulation of the hot splitting spinning process of magnesium alloy AZ31. 2010 , 47, 857-866	34
1601	Fatigue crack growth in magnesium single crystals under cyclic loading: Molecular dynamics simulation. 2010 , 48, 426-439	75
1600	Numerical formability assessment in single crystals of magnesium. 2010 , 50, 571-585	17
1599	Corrosion Resistance and Antibacterial Properties of Ag-Containing MAO Coatings on AZ31 Magnesium Alloy Formed by Microarc Oxidation. 2010 , 157, C131	31
1598	Microstructure and mechanical properties of friction stir welding of AZ31B magnesium alloy added with cerium. 2010 , 28, 316-320	55
1597	Microstructure transformation of deformed AZ91D during isothermal holding. 2010 , 20, 14-21	5
1596	Tensile properties and microstructure of AZ31B magnesium alloy sheet processed by repeated unidirectional bending. 2010 , 20, 28-33	19
1595	Effect of graphite content on wear property of graphite/Al ₂ O ₃ /Mg-9Al-1Zn-0.8Ce composites. 2010 , 20, 207-211	11
1594	Microstructure and mechanical properties of Mg-6Al-0.3Mn-xY alloys prepared by casting and hot rolling. 2010 , 20, 383-389	12
1593	Preparation of AZ31 magnesium alloy strips using vertical twin-roll caster. 2010 , 20, 973-979	7
1592	Microstructure and creep properties of Mg-4Al-2Sn-1(Ca,Sr) alloys. 2010 , 20, 1184-1191	16
1591	Evaluation of microstructure and mechanical properties of Mg-xCe-0.5Zn alloys by nano-indentation. 2010 , 20, 1240-1243	7
1590	Ductility improvement methods for commercial AZ31B magnesium alloy in cold forging. 2010 , 20, 1275-1281	12
1589	Influence of impurities on microstructure and mechanical properties of ZK60 magnesium alloy. 2010 , 20, 1299-1304	16
1588	Nanocrystalline Mg and Mg alloy powders by hydriding-dehydriding processing. 2010 , 20, 1326-1330	6
1587	Microstructure evolution during reheating of extruded Mg-Gd-Y-Zr alloy into semisolid state. 2010 , 20, 1585-1590	4
1586	Structure and properties of AZ31B magnesium alloy sheets processed by repeatedly unidirectional bending at different temperatures. 2010 , 20, 1815-1821	4
1585	Effect of rolling temperature on microstructure and texture of twin roll cast ZK60 magnesium alloy. 2010 , 20, 2086-2091	11

1584	Growth process and corrosion resistance of micro-arc oxidation coating on Mg-Zn-Gd magnesium alloys. 2010 , 20, 2198-2203	12
1583	Effects of combined addition of Y and Ca on microstructure and mechanical properties of die casting AZ91 alloy. 2010 , 20, s311-s317	25
1582	Effects of Ce on microstructure of semi-continuously cast Mg-1.5Zn-0.2Zr magnesium alloy ingots. 2010 , 20, s324-s330	2
1581	Microstructures and mechanical properties of Mg-2%Zn-0.4%RE alloys. 2010 , 20, s352-s356	26
1580	Effects of yttrium on microstructure and mechanical properties of Mg-Zn-Cu-Zr alloys. 2010 , 20, s357-s360	13
1579	Effects of trace element and purification on properties of AZ80 magnesium alloy. 2010 , 20, s407-s410	8
1578	Effects of second phases on fracture behavior of Mg-10Gd-3Y-0.6Zr alloy. 2010 , 20, s421-s425	10
1577	Influence of homogenizing on mechanical properties of as-cast AZ31 magnesium alloy. 2010 , 20, s439-s443	3
1576	Microstructures and wear properties of graphite and Al ₂ O ₃ reinforced AZ91D-Cex composites. 2010 , 20, s471-s475	12
1575	Tensile fracture of as-cast and hot rolled Mg-Zn-Y alloy with long-period stacking phase. 2010 , 20, s488-s492	11
1574	Microstructure and tensile properties of as-extruded Mg-Sn-Y alloys. 2010 , 20, s493-s497	39
1573	Microstructural evolution of rolled Mg-5Zn-3Nd(-Zr) alloy. 2010 , 20, s498-s502	4
1572	Fatigue properties of rolled AZ31B magnesium alloy plate. 2010 , 20, s523-s526	21
1571	Creep behavior of ageing hardened Mg-10Gd-3Y alloy. 2010 , 20, s545-s549	11
1570	Microstructures and mechanical properties of extruded Mg-1Mn-3.5Y and Mg-1Mn-1Y-2.5Nd alloys. 2010 , 20, s555-s560	3
1569	Recycling of AZ91 Mg alloy through consolidation of machined chips by extrusion and ECAP. 2010 , 20, s604-s607	40
1568	Progress of electroplating and electroless plating on magnesium alloy. 2010 , 20, s630-s637	63
1567	SiC nanoparticles reinforced magnesium matrix composites fabricated by ultrasonic method. 2010 , 20, s1029-s1032	45

1566	Grain refinement of DC cast AZ91D Mg alloy by intensive melt shearing. 2011 , 27, 101-107	21
1565	Microstructure and Properties of TiAlN Compound Films Fabricated on AZ91D Alloy by Magnetron Sputtering. 2011 , 686, 589-594	1
1564	Comparison of Different Content of Cd and Sb Element on the Microstructure, Mechanical Properties of As-Cast AZ31 Magnesium Alloy. 2011 , 189-193, 197-201	
1563	Effect of Mg/nano-Al ₂ O ₃ interaction time during stirring on microstructure and mechanical properties of Mg/Al ₂ O ₃ composite. 2011 , 27, 1341-1346	3
1562	Microstructure evolution of ZK40 magnesium alloy during high strain rate compression deformation at elevated temperatures. 2011 , 27, 1416-1421	6
1561	Microstructural features of spray-formed AZ31 magnesium alloy. 2011 , 27, 1275-1280	3
1560	Thixoformability of a Mg/Cd magnesium alloy and its mechanical properties. 2011 , 27, 1084-1091	7
1559	Effect of Rare Earth and Silicium Elements on Microstructure of AZ31 Magnesium Alloy. 2011 , 101-102, 1047-1050	
1558	Process, Microstructure and Properties of Plasma-Sprayed Ceramic Coating on AZ91D Magnesium Alloy. 2011 , 189-193, 1292-1295	3
1557	Effect of Forming Process on Microstructure and Mechanical Properties of ZK60 Alloy Sheet. 2011 , 40, 1708-1712	6
1556	Effects of AlN Particles and Electromagnetic Stirring on As-Cast Structure of AZ31 Alloys. 2011 , 675-677, 771-774	1
1555	Corrosion resistant performances of alkanolic and phosphonic acids derived self-assembled monolayers on magnesium alloy AZ31 by vapor-phase method. 2011 , 27, 6009-17	79
1554	Mechanical Property of Friction Stir Welded Retardant Magnesium Alloy Joint. 2011 , 295-297, 1929-1932	
1553	Effect of CO ₂ Laser Surface Melting on the Microstructure of AZ91D Magnesium Alloy. 2011 , 464, 461-464	
1552	The microstructure, mechanical and friction properties of protective diamond like carbon films on magnesium alloy. 2011 , 258, 1624-1629	39
1551	Corrosion protection of magnesium AZ31 alloy using poly(ether imide) [PEI] coatings prepared by the dip coating method: Influence of solvent and substrate pre-treatment. 2011 , 53, 338-346	47
1550	Electrochemical behaviour of the Mg alloy AZ91D in borate solutions. 2011 , 53, 1174-1185	47
1549	Electrochemical investigation of the influence of laser surface melting on the microstructure and corrosion behaviour of ZE41 magnesium alloy [An EIS based study. 2011 , 53, 1505-1514	54

1548	The effect of epoxy coating containing emeraldine base and hydrofluoric acid doped polyaniline on the corrosion protection of AZ91D magnesium alloy. 2011 , 53, 3747-3755	110
1547	Thermodynamic assessments of the Bi-Pb and Lu-Sb systems. 2011 , 35, 421-426	5
1546	Thermodynamic assessments of the Er-Sb and Sb-Bi systems. 2011 , 35, 473-478	1
1545	Thermodynamic description of the Mg-Al-Zn ternary system. 2011 , 509, 3274-3281	31
1544	Microstructure and mechanical properties of Mg-Al-Mn-Ca alloy sheet produced by twin roll casting and sequential warm rolling. 2011 , 509, 704-711	49
1543	Microstructure characterization on the formation of in situ Mg ₂ Si and MgO reinforcements in AZ91D/Flyash composites. 2011 , 509, 311-315	34
1542	Effect of heat treatment on the microstructures and damping properties of biomedical Mg-Zr alloy. 2011 , 509, 813-819	45
1541	An electrochemical analysis of AZ91 Mg alloy processed by plasma electrolytic oxidation followed by static annealing. 2011 , 509, S468-S472	13
1540	Microstructure and mechanical properties of Mg-Zn-Cu-0.6Zr (wt.%) alloys. 2011 , 509, 3526-3531	44
1539	Flow stress modeling of AZ91 magnesium alloys at elevated temperature. 2011 , 509, 4992-4998	43
1538	Corrosion resistance of Mg-Al-Sr alloys. 2011 , 509, 4839-4847	28
1537	Influence of silver addition on the microstructure and mechanical properties of squeeze cast Mg-Al-Sn-0.3Mn-0.3Ti. 2011 , 509, 7368-7372	12
1536	Double-peak ageing behavior of Mg-Dy-0.5Zn alloy. 2011 , 509, 8268-8275	29
1535	Development of new magnesium based alloys and their nanocomposites. 2011 , 509, 8522-8529	66
1534	Effects of ultrasonic treatment on the tensile properties and microstructure of twin roll casting Mg-3%Al-1%Zn-0.8%Ce-0.3%Mn (wt%) alloy strips. 2011 , 509, 8607-8613	15
1533	Processing, microstructure and mechanical properties of magnesium matrix nanocomposites fabricated by semisolid stirring assisted ultrasonic vibration. 2011 , 509, 8664-8669	95
1532	Gas-tungsten arc welding of AZ91 magnesium alloy. 2011 , 509, 9951-9958	26
1531	The isothermal section of the La-Mg phase diagram at 400 °C. 2011 , 19, 671-681	30

1530	Microstructure characteristics and solidification behavior of thixomolded Mg-9%Al-1%Zn alloy. 2011 , 21, 250-256	3
1529	Influence of electric parameters on MAO of AZ91D magnesium alloy using alternative square-wave power source. 2011 , 21, 307-316	24
1528	Effect of Bi addition on microstructures and mechanical properties of AZ80 magnesium alloy. 2011 , 21, 711-716	24
1527	Effects of Sr and Y on microstructure and corrosion resistance of AZ31 magnesium alloy. 2011 , 21, 725-731	23
1526	Influence of aging on microstructure and mechanical properties of AZ80 and ZK60 magnesium alloys. 2011 , 21, 739-744	22
1525	Effects of heat treatment on microstructure and mechanical properties of ZK60 Mg alloy. 2011 , 21, 754-760	26
1524	Effects of ultrasonic treatment on microstructure and mechanical properties of Mg-5Zn-2Er alloy. 2011 , 21, 773-777	6
1523	Microstructure and properties of WE93 alloy. 2011 , 21, 790-794	9
1522	Influence of microstructure and texture on formability of AZ31B magnesium alloy sheets. 2011 , 21, 844-850	14
1521	Establishment and application of flow stress models of Mg-Y-MM-Zr alloy. 2011 , 21, 857-862	4
1520	Improvement and application of neural network models in development of wrought magnesium alloys. 2011 , 21, 885-891	9
1519	Effect of axial force on microstructure and tensile properties of friction stir welded AZ61A magnesium alloy. 2011 , 21, 974-984	57
1518	Fatigue fracture mechanism of AZ31B magnesium alloy and its welded joint. 2011 , 21, 1225-1233	10
1517	Effect of Sr addition on microstructure of as-cast Mg-Al-Ca alloy. 2011 , 21, 1247-1252	15
1516	Superplasticity of AZ31 magnesium alloy prepared by friction stir processing. 2011 , 21, 1911-1916	38
1515	Effect of stannum addition on microstructure of as-cast and as-extruded Mg-5Li alloys. 2011 , 21, 2378-2383	12
1514	Numerical simulation of acoustic pressure field for ultrasonic grain refinement of AZ80 magnesium alloy. 2011 , 21, 2476-2483	16
1513	Effect of CaO composition on oxidation and burning behaviors of AM50 Mg alloy. 2011 , 21, s23-s27	28

1512	A first-principles study on electronic structure and elastic properties of Al ₄ Sr, Mg ₂ Sr and Mg ₂₃ Sr ₆ phases. 2011 , 21, 2677-2683	10
1511	Effect of hot rolling on grain refining and mechanical properties of AZ40 magnesium alloy. 2011 , 21, s229-s234	6
1510	Microstructure refining and property improvement of ZK60 magnesium alloy by hot rolling. 2011 , 21, s242-s246	13
1509	Microstructural Evolution of Rapidly Solidified ZK60 Powders during Extrusion. 2011 , 27, 159-164	7
1508	A Rate-Dependent Crystal Plasticity Analysis of Orientation Stability in Biaxial Tension of Magnesium. 2011 , 27, 175-182	7
1507	Hot Cracking in AZ31 and AZ61 Magnesium Alloy. 2011 , 27, 633-640	18
1506	Effects of Sc Addition and Annealing Treatment on the Microstructure and Mechanical Properties of the As-rolled Mg-3Li alloy. 2011 , 27, 753-758	25
1505	Microstructure Characteristics of the Eutectics of Die Cast AM60B Magnesium Alloy. 2011 , 27, 1150-1156	38
1504	Microstructures, mechanical properties and compressive creep behaviors of as-cast Mg-5%Sn-(0-1.0)%Pb alloys. 2011 , 18, 290-295	7
1503	Hot Forming Characteristics of Magnesium Alloy AZ31 and Three-Dimensional FE Modeling and Simulation of the Hot Splitting Spinning Process. 2011 ,	2
1502	The Microstructure and Mechanical Properties of Cast Mg-5Sn Based Alloys. 2011 , 571-575	
1501	Efficiency and Stability of Solid Oxide Membrane Electrolyzers for Magnesium Production. 2011 , 39-42	5
1500	Microstructural Evolution during Roller Hemming of AZ31 Magnesium Sheet. 2011 , 389-393	1
1499	Fatigue Cracking Behaviors and Influence Factors of Cast Magnesium Alloys. 2011 ,	2
1498	Composite Coatings Combining PEO layer and EPD Layer on Magnesium Alloy. 2011 , 543-546	1
1497	Transition in Deformation Mechanism of AZ31 Magnesium Alloy during High-Temperature Tensile Deformation. 2011 , 2011, 1-10	3
1496	Surface Characteristics and High Cycle Fatigue Performance of Shot Peened Magnesium Alloy ZK60. 2011 , 2011, 1-9	6
1495	Optimization of Magnesium-Aluminum-Tin Alloys for As-Cast Microstructure And Mechanical Properties. 2011 , 161-165	

1494	Growth Kinetics of $\text{Al}_{12}\text{Mg}_{17}$ and Al_3Mg_2 Intermetallic Phases in Mg vs. Al Diffusion Couples. 2011 , 547-552		
1493	Microwave Heating of Metal-Based Materials. 2011 , 65-157		1
1492	Microstructure Evaluation of Friction Stir Welded AZ91 with CaO Mg Alloy. 2011 , 52, 802-805		10
1491	Effect of reaction heat on microstructure of composite fabricated by combustion reaction and reactive infiltration between SiO_2 and Mg. 2011 , 61, 310-315		
1490	Microstructures and Texture Development of the Cross-Roll Rolled AZ31 Alloy Sheet at High Temperature. 2011 , 52, 2250-2253		2
1489	Microstructure and Mechanical Properties of Magnesium Alloy AZ31 Processed by Compound Channel Extrusion. 2011 , 52, 1082-1087		11
1488	Reactive Transient Liquid Phase Bonding between AZ31 Magnesium Alloy and Low Carbon Steel. 2011 , 52, 568-571		18
1487	Effects of T5 Treatment on the Microstructure and Mechanical Properties of Mg-8Al-2Li Alloy. 2011 , 52, 1363-1368		3
1486	Electrochemical Corrosion Properties of AZ91 Mg Alloy via Plasma Electrolytic Oxidation and Subsequent Annealing. 2011 , 52, 1697-1700		8
1485	Effect of Cross-Roll Angle on Microstructures and Mechanical Properties during Cross-Roll Rolling in AZ31 Alloys. 2011 , 52, 2274-2277		3
1484	Formability of Magnesium Sheet ZE10 and AZ31 with Respect to Initial Texture. 2011 , 373-378		2
1483	Microstructure and mechanical properties of Mg-xY-1.5MM-0.4Zr alloys. 2011 , 29, 454-459		9
1482	Synthesis and protection of AM50 magnesium alloy and its composites using environmentally pretreatment electrolyte. 2011 , 206, 1041-1050		11
1481	A fundamental study of laser welding of hot extruded powder metallurgy (P/M) AZ31B magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 529, 143-150	5-3	8
1480	Effects of heat treatments on laser welded Mg-rare earth alloy NZ30K. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 529, 401-405	5-3	12
1479	Influence of texture on the recrystallization mechanisms in an AZ31 Mg sheet alloy at dynamic rates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 ,	5-3	2
1478	Effect of texture on the mechanical behavior of ultrafine grained magnesium alloy. 2011 , 64, 580-583		93
1477	Creep characteristics of a hypoeutectic Mg-Ca binary alloy with a near-fully lamellar microstructure. 2011 , 64, 1039-1042		4

1476	Impression creep properties of a semi-solid processed magnesium-aluminum alloy containing calcium and rare earth elements. 2011 , 65, 221-224	25
1475	Effect of heat treatments on oxidation kinetics in AZ91 and AM60 magnesium alloys. 2011 , 62, 982-986	10
1474	The effects of alloying elements on microstructure and properties of gravity casting Mg-Sn-Al-Si alloy. 2011 , 128, 208-213	12
1473	Analysis of creep rupture life of Mg-Al-Mn alloy produced by die-casting. 2011 , 128, 32-34	5
1472	Corrosion properties and corrosion evolution of as-cast AZ91 alloy with rare earth yttrium. 2011 , 32, 5043-5048	30
1471	Effects of heating process on the microstructures and tensile properties of friction stir spot welded AZ31 magnesium alloy plates. 2011 , 32, 5033-5037	25
1470	Microstructure and mechanical properties of in situ Mg ₂ Si/AZ91D composites through incorporating fly ash cenospheres. 2011 , 32, 4714-4719	37
1469	Elevated-temperature plasticity and mechanical properties of a rare earth-modified Mg-Zn-Al alloy. 2011 , 65, 944-947	12
1468	Microstructure and mechanical properties of Mg-Gd-Y-0.6Zr alloy upon conventional and hydrostatic extrusion. 2011 , 65, 1726-1729	27
1467	Cyclic softening of ultrafine-grained AZ31 magnesium alloy processed by equal-channel angular pressing. 2011 , 65, 3593-3596	17
1466	Wear behavior of plasma electrolytic oxidation (PEO) and hybrid coatings of PEO and laser on MRI 230D magnesium alloy. 2011 , 271, 1987-1997	40
1465	Dry sliding wear behaviour of ZE41A magnesium alloy. 2011 , 271, 2836-2844	52
1464	Continuum modeling of the response of a Mg alloy AZ31 rolled sheet during uniaxial deformation. 2011 , 27, 1739-1757	84
1463	Effect of TiO ₂ nanoparticles on the microstructure and corrosion behavior of MAO coatings on magnesium alloy. 2011 , 63, n/a-n/a	2
1462	Enhanced corrosion resistance of Mg alloy ZK60 after processing by integrated extrusion and equal channel angular pressing. 2011 , 59, 6176-6186	186
1461	Twinning and grain subdivision during dynamic deformation of a Mg AZ31 sheet alloy at room temperature. 2011 , 59, 6949-6962	143
1460	Unexpected influence of Mn addition on the creep properties of a cast Mg-Al-Ca (mass%) alloy. 2011 , 59, 7662-7672	57
1459	Fabrication and thermal expansion behavior of a magnesium-matrix composite with a high content of reinforcing SiC particles. 2011 , 47, 427-434	5

1458	Laser direct joining of AZ91D thixomolded Mg alloy and amorphous polyethylene terephthalate. 2011 , 211, 1166-1174		95
1457	High-strength magnesium alloys for degradable implant applications. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 1047-1054	5-3	73
1456	Effect of isothermal aging on the microstructure and properties of as-cast Mg ₉₇ Al ₂ Zr alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 1589-1595	5-3	24
1455	Crystal-plasticity finite-element analysis of inelastic behavior during unloading in a magnesium alloy sheet. 2011 , 27, 1072-1092		112
1454	Effect of heat treatment on the intermetallic layer of cold sprayed aluminum coatings on magnesium alloy. 2011 , 205, 4665-4671		51
1453	High temperature deformation behavior of Mg-Sn(-Zn) alloy. 2011 , 17, 383-388		19
1452	Experimental study of electron beam welding of magnesium alloys. 2011 , 30, 364-369		2
1451	Structure and mechanical properties of AZ31 magnesium alloy billets by different hot-top semi-continuous casting technology. 2011 , 30, 414-418		2
1450	Electronic origin of the anomalous solid solution hardening of Y and Gd in Mg: A first-principles study. 2011 , 56, 1038-1042		18
1449	New Mg ₂ Si based alloy for automobile engine cylinder liner. 2011 , 26, 797-800		1
1448	Study of Mechanical Properties of AZ91 Magnesium Alloy Welded by Laser Process Taking into Account the Anisotropy Microhardness and Residual Stresses by X-Ray Diffraction. 2011 , 42, 1815-1826		8
1447	Laminated Metal Composites by Infiltration. 2011 , 42, 3509-3520		14
1446	Deformation Microstructures of Mg-3Al-1Zn Magnesium Alloy Compressed Over Wide Regions of Temperature and Strain Rate. 2011 , 20, 133-138		6
1445	Room Temperature Ductility and Microstructure of Magnesium AZ31B Sheet. 2011 , 20, 1357-1363		8
1444	The high strain rate compressive response of Mg-Al alloy/fly Ash cenosphere composites. 2011 , 63, 48-52		33
1443	Phase transformations in MgTbNd alloy. 2011 , 208, 2741-2748		5
1442	Elastic properties and electronic structures of Mg ₂ Ce intermetallic compounds from first-principles calculations. 2011 , 248, n/a-n/a		
1441	Effects of Y and Zn atoms on the elastic properties of Mg solid solution from first-principles calculations. 2011 , 248, 2809-2815		10

1440	Hot workability of Mg-9Y-1MM-0.6Zr alloy. 2011 , 29, 460-465		12
1439	First-Principles Study on the Stabilities of the Intermetallic Compounds in Mg-Nd Alloys. 2011 , 40, 590-594		5
1438	Preparation and characterization of inorganic and organic coatings on AZ91D magnesium alloy with electroless plating pretreatment. 2011 , 62, 841-847		4
1437	Characterization of High-Strain Rate Mechanical Behavior of AZ31 Magnesium Alloy Using 3D Digital Image Correlation. 2011 , 13, 943-948		3
1436	Effect of multimodal microstructure evolution on mechanical properties of Mg ₉₇ Nd ₃ extruded alloy. 2011 , 59, 3646-3658		332
1435	Formation and evolution of the hardening precipitates in a Mg ₉₇ Nd ₃ alloy. 2011 , 59, 4151-4158		74
1434	The preparation and corrosion behaviors of MAO coating on AZ91D with rare earth conversion precursor film. 2011 , 257, 3804-3811		120
1433	Experimental determination of solid-liquid interfacial energy for solid Sn in the Sn-Mg system. 2011 , 257, 6518-6526		9
1432	Electrochemical behavior of antimony and electrodeposition of Mg ₉₅ Bi ₅ alloys from chloride melts. 2011 , 56, 4159-4166		21
1431	Environmentally safe corrosion inhibition of Mg ₉₅ Al ₅ alloy in chloride free neutral solutions by amino acids. 2011 , 56, 6581-6587		53
1430	On the coupling of plastic slip and deformation-induced twinning in magnesium: A variationally consistent approach based on energy minimization. 2011 , 27, 983-1003		31
1429	Role of initial texture on the plastic anisotropy of Mg ₉₅ Al ₅ Zn alloy at various temperatures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 1162-1172	5-3	36
1428	Enhancing strength and ductility of Mg ₉₂ Gd ₈ Y _{0.5} Zr alloy by forming a bi-ultrafine microstructure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 4300-4311	5-3	24
1427	Orientation dependencies of mechanical response, microstructure and texture evolution in hot compression of AZ31 magnesium alloy processed by equal channel angular extrusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 4333-4337	5-3	11
1426	Microstructure and mechanical properties of SiC nanoparticles reinforced magnesium matrix composites fabricated by ultrasonic vibration. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 5278-5282	5-3	101
1425	Effect of primary processing techniques on the microstructure and mechanical properties of nano-Y ₂ O ₃ reinforced magnesium nanocomposites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 5484-5490	5-3	24
1424	Effects of TiO ₂ coating on the microstructures and mechanical properties of tungsten inert gas welded AZ31 magnesium alloy joints. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 7276-7284	5-3	27
1423	High hardness in a nanocrystalline Mg ₉₇ Y ₂ Zn ₁ alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 7494-7499	5-3	13

1422	Effects of heat input on the low power Nd:YAG pulse laser conduction weldability of magnesium alloy AZ61. 2011 , 49, 89-96		30
1421	Magnesium nitride phase formation by means of ion beam implantation technique. 2011 , 257, 5626-5633		23
1420	Precipitation and its effect on age-hardening behavior of as-cast Mg ₉₂ Zn ₈ alloy. 2011 , 32, 361-364		54
1419	Feasibility of joining AZ31B magnesium metal matrix composite by friction welding. 2011 , 32, 1672-1676		14
1418	Effect of heat treatment on strain hardening of ZK60 Mg alloy. 2011 , 32, 1526-1530		92
1417	The relation between heat treatment and corrosion behavior of Mg ₉₂ Zn ₈ alloy. 2011 , 32, 1194-1199		41
1416	An investigation into the mechanical behavior and microstructural evolution of the accumulative roll bonded AZ31 Mg alloy upon annealing. 2011 , 32, 2963-2968		50
1415	Tensile properties of hot rolled Mg ₉₂ Sn ₈ Ca alloy sheets at elevated temperatures. 2011 , 32, 3736-3741		40
1414	A new method of semi-continuous casting of AZ80 Mg alloy billets by a combination of electromagnetic and ultrasonic fields. 2011 , 32, 4216-4224		39
1413	Effect of yttrium addition on lattice parameter, Young's modulus and vacancy of magnesium. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 2106-2109	5-3	33
1412	On the feasibility of friction spot joining in magnesium/fiber-reinforced polymer composite hybrid structures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 3841-3848	5-3	185
1411	Deformation behavior of as-rolled and strip-cast AZ31 magnesium alloy sheets. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 5356-5365	5-3	35
1410	Investigation on microstructure and creep properties of as-cast and aging-treated Mg ₉₂ Sn ₈ Al ₂ Si alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 5394-5399	5-3	7
1409	Liquid phase formation of alkyl- and perfluoro-phosphonic acid derived monolayers on magnesium alloy AZ31 and their chemical properties. 2011 , 360, 280-8		26
1408	Microstructure and corrosion resistance of magnesium alloys with galvanic coatings. 2011 , 10, 1841-1846		2
1407	Preparation of high-strength Mg ₉₂ Al ₈ Zn alloy with ultrafine-grained microstructure by powder metallurgy. 2011 , 212, 161-165		25
1406	Electrochemical response of ZrO ₂ -incorporated oxide layer on AZ91 Mg alloy processed by plasma electrolytic oxidation. 2011 , 205, 3779-3784		128
1405	Sol-gel coatings of low sintering temperature for corrosion protection of ZE41 magnesium alloy. 2011 , 205, 4183-4191		31

- 1404 Study of the structural, elastic and electronic properties of ordered $\text{Ca}(\text{Mg}_{1-x}\text{Li}_x)_2$ alloys from first-principles calculations. **2011**, 84, 055603 4
- 1403 Microstructure and Properties of Sand Casting Magnesium Alloys for Elevated Temperature Applications. **2011**, 176, 63-74 5
- 1402 Experimental investigation and thermodynamic calculation of the FeMgMn and FeMgNi systems. **2011**, 102, 6-16 21
- 1401 A method for intermediate strain rate compression testing and study of compressive failure mechanism of Mg-Al-Zn alloy. **2011**, 109, 103512 24
- 1400 Microstructures and Mechanical Properties of As-Cast and Extruded Mg-2wt.%Zn Alloy Containing Dilute Content of Misch Metal. **2011**, 686, 260-264
- 1399 Deposition Mechanism Study of a Novel Electroless Nickel Plating Technique on AZ91D Magnesium Alloy. **2011**, 393-395, 40-43
- 1398 Hot Deformation Microstructure and Mechanical Properties of Mg-Zn-Nd-Cd-Zr Alloy. **2011**, 311-313, 690-696
- 1397 Effects of Nd on Microstructure and Properties of Spray Deposited Mg-Al-Zn Alloy. **2011**, 189-193, 1194-1198 2
- 1396 Microstructure and Mechanical Properties of AZ81 Alloy with Gd. **2011**, 117-119, 1125-1128
- 1395 The Numerical Simulation and Optimization of Squeeze Casting Process for Producing Magnesium Wheels. **2011**, 299-300, 955-961 0
- 1394 Effects of Erbium Addition on the Corrosion Resistance and Microstructure of AZ91 Magnesium Alloy. **2011**, 194-196, 1221-1224 3
- 1393 Microstructure and Tensile Properties of a Mg-5Sn-4Al Alloy. **2011**, 287-290, 343-347 2
- 1392 Laser Hybrid Welding Processing of Mg-Rare Earth Alloy. **2011**, 311-313, 2367-2370
- 1391 Investigation on Sub-Rapid Solidification Behavior of Semi-Solid Magnesium Alloy Metal. **2011**, 320, 156-162 1
- 1390 Wear Resistance Property of AM60 Magnesium Alloy Modified by Plasma Surface Treatment. **2011**, 686, 382-387
- 1389 Processing of Wrought Magnesium Alloys to Produce Small Tubes for Biomedical Applications: Investigation about the Extrusion Process by a Laboratory Test Rig. **2011**, 491, 75-80
- 1388 High Cycle Fatigue Behavior of Gravity Cast AZ91D Magnesium Alloy. **2011**, 686, 157-161 1
- 1387 Effect of Y on Microstructure and Corrosion Resistance of AZ61 Magnesium Alloy. **2011**, 284-286, 1529-1532

- 1386 Effect of Additives on Structure and Corrosion Resistance of Molybdate Conversion Coatings Deposited on AZ31B Mg Alloy. **2011**, 308-310, 2458-2462 2
- 1385 Tensile Creep Damage and Rupture of Al₂O₃-SiO₂(sf)/AZ91 Composite. **2011**, 55-57, 257-261
- 1384 Effects of Bi on Mechanical Properties of Magnesium Alloy AZ81. **2011**, 284-286, 1693-1696 3
- 1383 A Research on the Influence of Sr/Al Ratio on Microstructure of Mg-Al-Sr Alloy. **2011**, 239-242, 2201-2205
- 1382 Effects of Strain Rate and Heat Treatment on the Tensile Property of 1Mn1Zn4Y Magnesium Alloy. **2011**, 311-313, 583-586
- 1381 Temperature and Strain Rate Dependence of Deformation Microstructures of AZ31 Magnesium Alloy under Uniaxial Tension. **2011**, 217-218, 93-96 2
- 1380 Microstructure and Mechanical Properties of Mg-9Al-6.5Ca-3Zn-0.6Mn-XNd Alloys Prepared by Spray Forming. **2011**, 117-119, 1447-1452
- 1379 Effects of Processing, Texture and Temperature on the Formability of AZ31 and ZE10 Sheets. **2011**, 690, 298-301 5
- 1378 Effect of Electrode Tip Shape on Strength and Microstructure in Resistance Spot Welding of AZ31B Magnesium Alloy. **2011**, 239-242, 2528-2532 1
- 1377 Microstructure and Mechanical Properties of Mg-1Mn-0.6Ce Alloy Containing Yttrium. **2011**, 391-392, 638-641
- 1376 Mechanism of the Flux Improving the Microstructure and Mechanical Properties of AZ91D Magnesium Alloy. **2011**, 194-196, 1309-1313
- 1375 Elastic and Electronic Properties of Mg₂Ca and Mg₂Y Phases. **2011**, 233-235, 2231-2238 2
- 1374 Influence of the Strain Rates on Tensile Properties and Fracture Interfaces for Mg-Al Alloys Containing Y. **2011**, 284-286, 1671-1677 3
- 1373 Influence of Laser Processing Parameters on Microstructure and Corrosion of Laser Surface Melted ZE41 Magnesium Alloy. **2011**, 690, 401-404
- 1372 Effect of La-Rich Misch Metal on Microstructure and Mechanical Properties of As-Extruded Mg-14Li-3Al Alloy. **2011**, 391-392, 32-36
- 1371 Effect of Physical Fields on Solidification Structures of DC Casting AZ80 Magnesium Alloy Billets. **2011**, 105-107, 1616-1619
- 1370 Effects of Sr Addition on Mechanical Properties and Microstructure of Mg-6Al Magnesium Alloy. **2011**, 686, 120-124 0
- 1369 Microstructures and Properties of FSW Joints of AZ31B Mg Alloy. **2011**, 291-294, 855-859 1

- 1368 Degradation of Micro-Arc Oxidation Coatings on the Surface of Magnesium Alloy under NaCl Droplet. **2011**, 480-481, 437-442
- 1367 Fe-Based Amorphous/Nanocrystalline Coating on AZ91 Magnesium Alloy Substrate Deposited by Automatic High Velocity Arc Spraying. **2011**, 418-420, 786-791 1
- 1366 Effects of Thermomechanical Treatment Process on the Microstructure and Properties of AZ80 Magnesium Alloy. **2011**, 179-180, 354-358
- 1365 Electrochemical Corrosion Properties of Nanostructured YSZ Coated AZ31 Magnesium Alloy Prepared by Aerosol Deposition. **2011**, 158, C23 18
- 1364 The Creep Behaviour of Extruded Mg-5Li-3Al-1.5Zn-2RE Alloy. **2011**, 213, 492-496 2
- 1363 Treatments of Magnesium Slag to Recycle Waste from Pidgeon Process. **2011**, 418-420, 1657-1667 6
- 1362 Critical Stress Intensity Factor Determination for AZ61 Magnesium Alloy. **2011**, 462-463, 1121-1126
- 1361 Effects of Ca on Mechanical Properties of Mg-6Zn-3Al Alloy. **2011**, 117-119, 1243-1246 1
- 1360 High Cycle Fatigue Behavior of MB8 Magnesium Alloy. **2011**, 314-316, 945-948
- 1359 Study on Interfacial Tension and Flammability of Mg-Ca-Ce Alloy Melt. **2011**, 418-420, 383-386 2
- 1358 An Improved Magnesium Alloy Heater Controller Based on the Smith Predictor. **2011**, 109, 51-55
- 1357 Effects of Sb on Microstructure and Mechanical Properties of Magnesium Alloy ZA63. **2011**, 120, 475-478 1
- 1356 Reasons and Prevention Measures of Crack at the Bottom of the Extruded Magnesium Alloy Tube. **2011**, 217-218, 1625-1628
- 1355 Innovative Design and Static Analysis of Magnesium Alloy Automobile Wheel. **2011**, 120, 85-88 1
- 1354 The Effect of Zn on Microstructures and Properties of Extruded Mg-Gd-Y Alloys. **2011**, 66-68, 289-294
- 1353 Structure and Properties of Anodized Films Formed on AZ91D Magnesium Alloy. **2011**, 66-68, 1586-1591
- 1352 Influencing Factors of AZ31B Sheet Deep Drawing. **2011**, 189-193, 88-91
- 1351 Shearing Patterns of AZ31 Mg Alloy Processed by Equal-Channel Angular Pressing via Various Route. **2011**, 682, 33-39 1

- 1350 Deep Drawing Formability Analysis of AZ31 Mg-Alloy. **2011**, 337, 701-704 1
- 1349 Effects of Gadolinium on Aging Behavior and Mechanical Properties of Mg-5Y-3Nd-Zr Alloy. **2011**, 295-297, 1183-1187
- 1348 Microstructure and Mechanical Properties of Mg-Y Alloys. **2011**, 239-242, 352-355
- 1347 Corrosion behaviour of pure Mg, AS31 and AZ91 in buffered and unbuffered sulphate and chloride solutions. **2011**, 46, 481-492 9
- 1346 Environmentally assisted cracking behaviour of plasma electrolytic oxidation coated AZ31 magnesium alloy. **2011**, 46, 706-711 11
- 1345 Novel fabrication process of AlN ceramic matrix composites at low temperatures. **2011**, 18, 1
- 1344 Poisoning Effect of Combined Addition of Fe and Mn on Carbon Inoculation of Mg-3%Al Alloy. **2011**, 393-395, 226-230 1
- 1343 Microstructure and Mechanical Properties of Lost Foam Casting AZ91D Alloy Produced with Mechanical Vibration. **2011**, 213, 5-8 5
- 1342 Solid Solution Strengthening of Sm in Mg-10Y-1.5Sm Alloy. **2011**, 194-196, 1378-1381 1
- 1341 Analysis the Dynamic Strain of AM60 Magnesium Alloy by Means of a Single Laser Shock Processing. **2011**, 314-316, 1876-1880
- 1340 Effect of Low-Voltage Electric Current Pulse on Semi-Solid Microstructure of Magnesium Alloy AZ91D. **2011**, 399-401, 1613-1619
- 1339 Effects of Homogenization Treatment on Microstructure and Properties of Mg-Zn-Nd-Cd-Zr Alloy. **2011**, 399-401, 76-79 1
- 1338 Study on the Filling Particle for Foam Ferrous Metalmaking Needed. **2011**, 415-417, 532-536
- 1337 Effect of Cryogenic Treatment on the Microstructure and Mechanical Properties of AZ31 Magnesium Alloy. **2011**, 686, 53-56 4
- 1336 Influence of Hot Extrusion on Microstructure and Mechanical Properties of As-Cast AZ91 Magnesium Alloy. **2011**, 704-705, 892-896
- 1335 Microstructure and Creep Properties of Casting Mg-8Al-0.3Mn Alloy Containing Ca and Sr. **2011**, 189-193, 1386-1392
- 1334 Influence of the Processing of Magnesium Alloys AZ31 and ZE10 on the Sheet Formability at Elevated Temperature. **2011**, 473, 335-342 25
- 1333 Gas blow forming of AZ31 magnesium alloy sheet in a heart-shaped closed die. **2011**, 1

- 1332 Novel process of electroless NiP plating with replacement pretreatment on magnesium alloys. **2011**, 89, 109-112 8
- 1331 Microstructure and Performance of Four Casting Processes for Magnesium Alloy AZ91. **2011**, 5, 37-46 12
- 1330 Influence of Laser Surface Modification on Bonding Strength of Al/Mg Adhesive Joints. **2011**, 25, 1261-1276 30
- 1329 The Influence of Aluminum Content of AZ61 and AZ80 Magnesium Alloys on Hot Cracking. **2011**, 26, 1179-1187 8
- 1328 Sheet Orientation Effects on the Hot Formability Limits of Lightweight Alloys. **2011**, 133, 4
- 1327 AZ80 Mg Alloy Synthesized by Spray Forming and its Extrudability. **2011**, 479, 27-33
- 1326 Prediction of Yield Loci for a Magnesium Alloy Sheet using Crystal-Plasticity Finite-Element Method. **2011**,
- 1325 Structural Stability of Mg₉₅Al₃Sr Magnesium Alloy. **2011**, 176, 75-82 4
- 1324 Study on Metal Flowing Law for Isothermal Extrusion Deformation of AZ31 Magnesium Alloy. **2011**, 314-316, 448-451 0
- 1323 Environmental Effect on Fatigue Properties of Die-Cast Magnesium Alloys. **2012**, 152-154, 548-553
- 1322 Filling Characteristics of Magnesium Alloy Molten Metal in Squeeze Casting. **2012**, 502, 335-341
- 1321 Finite Element Analyses and Model of Squeeze Casting Process for Producing Magnesium Wheels. **2012**, 557-559, 2299-2302
- 1320 Effect of Exercising Pressure during Solid Solution on Microstructure and Mechanical Properties of AM60 Magnesium Alloy. **2012**, 182-183, 311-314
- 1319 Effects of Sn on Mechanical Properties of Magnesium Alloy AZ61. **2012**, 204-208, 4161-4164 1
- 1318 Effects of Mn Addition and Addition Sequence on Carbon Inoculation of Mg-3%Al Alloy. **2012**, 430-432, 681-686 1
- 1317 Oxide Layer Modification of Mg-Al Alloy Coated by Plasma Electrolytic Oxidation Using Zirconia Particles. **2012**, 463-464, 406-409 1
- 1316 Influence of Annealing Treatment on Precipitation of ϵ Mg₁₇Al₁₂ Phase of AZ80 Magnesium Alloy. **2012**, 476-478, 55-58 1
- 1315 Study on Warm and Hot Tensile Deformation Behavior and Flow Stress of AZ31B Magnesium Alloy Sheet. **2012**, 488-489, 51-56 2

1314	Microstructure characteristics and corrosion resistance of NiTi alloy coating prepared on AZ91D magnesium alloy. 2012 , 28, 480-485	7
1313	Influence of melt purification on mechanical properties of AZ31 magnesium alloy. 2012 , 25, 165-169	2
1312	Microstructure of AM60 Magnesium Alloy by High-Pressure Solution and Subsequent Atmospheric-Pressure Aging Treatment. 2012 , 182-183, 315-318	
1311	Study on Mechanism of Welding Hot Crack for Magnesium Alloys. 2012 , 233, 384-387	
1310	Research on Low Cycle Fatigue Behavior and Life Prediction of Magnesium Alloy AZ91D. 2012 , 482-484, 575-580	1
1309	Effect of Low Content Ca on the Microstructures and Mechanical Properties of AZ63 Alloys. 2012 , 472-475, 579-582	2
1308	Effect of High-Pressure Solution Temperature on Corrosion Resistance of AM60 Magnesium Alloy. 2012 , 580, 560-563	
1307	Numerical and Experimental Studies on Extrusion of Fan-Shaped Shell of Magnesium Alloy. 2012 , 626, 381-385	
1306	Effect of Warm Deforming and Heat Treating on Microstructure and Mechanical Properties of Mg-Zn-Zr Magnesium Alloy. 2012 , 472-475, 707-711	
1305	Effects of Temperature, Strain Rate and Grain Size on Superplastic Behavior of Magnesium. 2012 , 488-489, 27-34	1
1304	Investigations on the Mechanical Properties of Friction Stir Processed AZ31B Magnesium Alloy. 2012 , 622-623, 210-214	
1303	Effect of pH values, chloride ion concentration and exposure time on pitting corrosion rates of friction stir welded AZ61A magnesium alloy in sodium chloride solution using surface response methodology. 2012 , 47, 425-440	5
1302	Computationally Efficient, Fully Coupled Multiscale Modeling of Materials Phenomena Using Calibrated Localization Linkages. 2012 , 2012, 1-13	19
1301	Effects of Y on microstructure and property of heat treated AZ91D magnesium alloy prepared by lost foam casting process. 2012 , 25, 341-346	3
1300	Density Functional Theory Study of Magnesium Surface. 2012 , 554-556, 1609-1612	
1299	Evolution of Precipitated Phases during Ageing in High Alloyed Mg-Al Based Alloys. 2012 , 706-709, 1285-1290	1
1298	Characterizing the Cyclic Behaviour of Extruded AZ31 Magnesium Alloy. 2012 , 730-732, 727-732	
1297	Preliminary Investigation on Friction Spot Welding of AZ31 Magnesium Alloy. 2012 , 706-709, 3016-3021	8

1296	A Time-Dependent Material Model for the Simulation of Hot Gas-Pressure Forming of Magnesium Alloy AZ31. 2012 , 735, 198-203	2
1295	Study of Duplex Ageing Treatment of AZ80 Magnesium Alloy after Deformation at Room Temperature. 2012 , 476-478, 11-15	1
1294	Investigations on the Effect of Tool Speed and Feed Rate on the Friction Stir Processed AZ31B Magnesium Alloys. 2012 , 622-623, 700-704	
1293	Magnesium Alloys a Promising Option as Protection Materials. 2012 , 185, 116-118	1
1292	Anisotropy of Mechanical Properties and Microstructure Evolutions of Tensile AZ80 Magnesium at Room Temperature. 2012 , 560-561, 1000-1004	1
1291	Study on metal transfer behaviour in metal inert gas arc welding with activating flux for magnesium alloy. 2012 , 17, 550-555	8
1290	Tribological Properties of Magnesium Nano-Alumina Composites under Nano-Graphite Lubrication. 2012 , 55, 334-344	20
1289	Ultrasoft-X-ray emission spectroscopy using a newly designed wavelength-dispersive spectrometer attached to a transmission electron microscope. 2012 , 61, 1-8	48
1288	Orbital-free density functional theory simulations of dislocations in magnesium. 2012 , 20, 015006	41
1287	Inserts Selection for Intermittent Turning of Magnesium Pieces. 2012 , 217-219, 1581-1591	7
1286	Friction Stir Processed Rare Earth Containing Magnesium Alloy for High Temperature Application. 2012 , 710, 235-240	7
1285	Mechanical and Creep Properties of the Cast Magnesium Alloy. 2012 , 152-154, 1207-1210	4
1284	Damage Study on AZ31 Mg Alloy under Bending Load. 2012 , 430-432, 285-288	
1283	Structural, Physical and Mechanical Properties of Mg-Al Alloys Processed under CO ₂ Atmosphere. 2012 , 545, 247-250	1
1282	Effect of High-Pressure Solution Temperature on Microstructure and Mechanical Properties of AZ61 Magnesium Alloy. 2012 , 580, 505-508	1
1281	The Corrosion Resistance of the Mg-Al-Ca-Sr Sand Casting Magnesium Alloys. 2012 , 326-328, 255-260	2
1280	Influence of Solution Treatment on Atomic Diffusion and Mechanical Properties of AZ80 Magnesium Alloy. 2012 , 479-481, 27-30	
1279	Effect of Extrusion Ratio on Microstructure and Mechanical Properties of As-Cast AZ91D Magnesium Alloy. 2012 , 445, 237-240	

1278	Microstructure and Mechanical Property along 3D Directions of AZ31 Magnesium Joint Welded by FSW. 2012 , 567, 187-191	1
1277	Influences of welding parameters on mechanical properties of AZ31 friction stir spot welds. 2012 , 17, 304-308	2
1276	Effect of rare earth elements on tribological behaviour of magnesium alloys. 2012 , 6, 147-154	2
1275	MICROSTRUCTURE EVOLUTION AND DEFORMATION FEATURE OF AZ31 MAGNESIUM ALLOY DURING SEVERE PLASTIC DEFORMATION. 2012 , 06, 503-508	
1274	Influences of tool rotational speed on tensile properties of friction stir welded AZ61A magnesium alloy. 2012 , 226, 649-663	2
1273	Magnesium Matrix Composite Foams Density, Mechanical Properties, and Applications. 2012 , 2, 238-252	50
1272	Upsetting properties in continuous casting and extruded bars of AZ91 magnesium alloy. 2012 , 62, 21-24	1
1271	Microstructure and Damping Capacity of Mg ₂ Si/Mg–Al–Si–(Bi) Composites. 2012 , 53, 2064-2066	3
1270	Creep Behavior of Hypoeutectic Mg-Ca Binary Alloys. 2012 , 76, 251-255	1
1269	Effect of Ca Addition on Precipitation Behavior of Mg–6.0 mass%Zn–3.0 mass%Al Alloy. 2012 , 53, 1371-1378	2
1268	Improvement of corrosion resistance of magnesium alloy by sputter coating with stainless steel. 2012 , 90, 125-128	4
1267	Electrochemical behaviour of Mg–Zn system. 2012 , 27, 73-75	1
1266	Grain refinement of DC cast magnesium alloys with intensive melt shearing. 2012 , 27, 012043	9
1265	Effects of pretreatments of magnesium alloys on direct electroless nickel plating. 2012 , 90, 209-214	20
1264	Magnesium As an ISRU-Derived Resource for Lunar Structures. 2012 ,	
1263	Compressive Viscoplastic Response of 6082-T6 and 7075-T6 Aluminium Alloys Under Wide Range of Strain Rate at Room Temperature: Experiments and Modelling. 2012 , 48, 498-509	34
1262	Microstructure and mechanical properties of Mg-7Zn-3Al alloy with Nd and Y additions. 2012 , 30, 486-491	10
1261	Sliding wear behaviour of AZ31B magnesium alloy and nano-composite. 2012 , 22, 60-65	47

1260	Characterization of microstructure and deformation behaviour of resistance spot welded AZ31 magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 549, 149-156	5.3	20
1259	Analysis of Sheet Metal Formability Studies of Friction Stir Processed Mg AZ31B Alloy using Response Surface Methodology. 2012 , 38, 2228-2236		2
1258	Low temperature mechanical properties of as-extruded Mg ₉₀ Gd ₅ Y ₂ .5Zr magnesium alloy. 2012 , 22, 2883-2890		10
1257	Microstructures and mechanical properties of pure magnesium bars by high ratio extrusion and its subsequent annealing treatment. 2012 , 22, s445-s449		29
1256	Microstructure and properties of AZ80 alloy semisolid billets fabricated by new strain induced melt activated method. 2012 , 22, s422-s427		9
1255	Grain refinement of solidified MgAl alloys by limited angular oscillation. 2012 , 28, 941-947		1
1254	SHS DieCasting (SHS-DC) of Magnesium Metal Matrix Composites (MMCs). 2012 , 71-79		
1253	Effect of grain size on prismatic slip in MgAlZn alloy. 2012 , 67, 439-442		100
1252	Improved formability of MgAlZn alloy by pre-stretching and annealing. 2012 , 67, 495-498		62
1251	Ceria/stannate multilayer coatings on AZ91D Mg alloy. 2012 , 206, 4855-4863		18
1250	Effects of ultrasonic nanocrystalline surface modification on the tribological properties of AZ91D magnesium alloy. 2012 , 54, 106-113		108
1249	First-principles prediction of yield stress for basal slip in MgAl alloys. 2012 , 60, 5197-5203		61
1248	Microstructure and tensile behavior of a friction stir processed magnesium alloy. 2012 , 60, 5079-5088		62
1247	In vitro corrosion behavior of Ti-O film deposited on fluoride-treated MgZnNd alloy. 2012 , 258, 3571-3577		22
1246	Effect of heat treatment on electromagnetic shielding effectiveness of ZK60 magnesium alloy. 2012 , 42, 327-333		54
1245	The influence of initial microstructure and temperature on the deformation behavior of AZ91 magnesium alloy. 2012 , 42, 411-417		17
1244	Innovative processing of lotus-type porous magnesium through thermal decomposition of wood. 2012 , 85, 14-17		8
1243	Work-hardening behaviors of magnesium alloy sheet during in-plane cyclic loading. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 551, 209-217	5.3	60

1242	Effect of initial texture on deformation behavior of AZ31 magnesium alloy sheets under biaxial loading. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 552, 245-251	5-3	17
1241	Thermodynamic properties of Laves phases in the Mg ₂ Al ₃ system at finite temperature from first-principles. 2012 , 22, 17-23		23
1240	An alternative DFT-based model for calculating structural and elastic properties of random binary HCP, FCC and BCC alloys: Mg ₂ Li system as test case. 2012 , 21, 88-96		11
1239	Effect of niobium particulate addition on the microstructure and mechanical properties of pure magnesium. 2012 , 513, 202-207		26
1238	Hydrogenation kinetics of ZK60 Mg alloy during solid ₂ gas reaction milling in hydrogen. 2012 , 513, 343-346		9
1237	Protective diffusion coatings on magnesium alloys: A review of recent developments. 2012 , 520, 11-21		112
1236	Effects of Zn on the glass forming ability and mechanical properties of MgLi-based bulk metallic glasses. 2012 , 358, 8-13		10
1235	Elastic, phonon and thermodynamic properties of Mg ₂ Al ₃ compounds from first-principles calculations. 2012 , 37, 137-144		11
1234	Enhanced corrosion resistance of magnesium alloy AM60 by cerium(III) in chloride solution. 2012 , 56, 86-95		47
1233	Corrosion behavior of a friction stir processed rare-earth added magnesium alloy. 2012 , 58, 321-326		113
1232	Effects of grain size on the corrosion resistance of wrought magnesium alloys containing neodymium. 2012 , 58, 145-151		280
1231	Electrochemical corrosion properties of CeO ₂ -containing coatings on AZ31 magnesium alloys prepared by plasma electrolytic oxidation. 2012 , 62, 104-111		220
1230	Crystal plasticity finite-element simulation of work-hardening behavior in a magnesium alloy sheet under biaxial tension. 2012 , 51, 156-164		63
1229	Structural, electronic, elastic and thermodynamic properties of CaAl ₂ Zn ₂ compound under different pressures. 2012 , 59, 33-40		3
1228	Natural aging of Mg ₂ Li and Mg ₂ Li alloys. 2012 , 209, 2135-2141		6
1227	Interdiffusion in the Mg-Al System and Intrinsic Diffusion in EMg ₂ Al ₃ . 2012 , 43, 4043-4052		80
1226	Effect of Nd addition on microstructures and mechanical properties of AZ80 magnesium alloys. 2012 , 22, 1322-1328		32
1225	Microstructure and mechanical properties of AZ31B magnesium alloy gas metal arc weld. 2012 , 22, 1336-1341		18

1224	Effect of heat treatment on microstructures and mechanical properties of sand-cast Mg ₉₂ Y ₂ Nd ₁ Gd _{0.4} Zr magnesium alloy. 2012 , 22, 1540-1548		19
1223	Effect of Y on age hardening response and mechanical properties of Mg-xY _{0.5} LPc _{0.4} Zr alloys. 2012 , 22, 1549-1555		6
1222	Anodizing of AZ91D magnesium alloy using environmental friendly alkaline borate-biphthalate electrolyte. 2012 , 22, 1778-1785		16
1221	Dry sliding wear behavior of cast Mg ₉₁ Y ₅ Gd ₂ Zn magnesium alloy. 2012 , 22, 1918-1923		14
1220	Effects of isothermal process parameters on semisolid microstructure of Mg-8%Al-1%Si alloy. 2012 , 22, 2364-2369		10
1219	Effects of on-line solution and off-line heat treatment on microstructure and hardness of die-cast AZ91D alloy. 2012 , 22, 2652-2658		0
1218	Corrosion Behavior of Mg ₉₂ Ni Alloy with Long-period Stacking Ordered Structures. 2012 , 28, 1157-1162		66
1217	Biodegradation behavior of micro-arc oxidized AZ31 magnesium alloys formed in two different electrolytes. 2012 , 261, 92-100		64
1216	A thermodynamic assessment of the Bi-Mg-N ternary system. 2012 , 39, 37-46		8
1215	Evaluation of corrosion resistance of magnesium alloy ZK10 coated with hybrid organic-organic film including containers. 2012 , 65, 481-493		61
1214	Effect of Annealing Process on Microstructure and Properties of Roll-Casting AZ31B Mg Alloy Sheet. 2012 , 27, 895-902		4
1213	Improved bending fatigue and corrosion properties of a Mg ₉₂ Al ₁ Mn alloy by super vacuum die casting. 2012 , 67, 879-882		28
1212	Superplastic tensile behavior of a fine-grained AZ91 magnesium alloy prepared by friction stir processing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 556, 100-106	5-3	44
1211	Microstructure and mechanical properties of ZK21 magnesium alloy fabricated by multiple forging at different strain rates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 556, 164-169	5-3	26
1210	Twinning-detwinning behavior during fatigue-crack propagation in a wrought magnesium alloy AZ31B. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 556, 278-286	5-3	56
1209	Fatigue behavior and microstructure of 0001 and 1 014 magnesium single crystals under compression-compression cyclic loading. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 556, 301-308	5-3	7
1208	Microstructure and mechanical properties of conventional cast and rheocast Mg ₉₂ Ni based alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 556, 891-905	5-3	20
1207	On the strength and strain to failure in particle-reinforced magnesium metal-matrix nanocomposites (Mg MMNCs). <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 558, 193-204	5-3	112

1206	The effect of processing routes on the structure and properties of magnesiumTiNi composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 558, 632-640	5-3	13
1205	Grain size and texture effects on deformation behavior of AZ31 magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 558, 716-724	5-3	97
1204	Microstructural Evolution in Partially Homogenized AZ91 Alloy during Hot Rolling and Interpass Annealing. 2012 , 626, 445-448		1
1203	The Application of Magnesium Alloys to the Lightweighting of Automotive Structures. 2012 , 17-23		9
1202	Diffusion Couple Investigation of the Mg-Zn System. 2012 , 323-327		2
1201	Biodegradable Metals for Cardiovascular Applications. 2012 , 23-37		6
1200	Low-cycle fatigue properties of an ultrafine-grained magnesium alloy processed by equal-channel angular pressing. 2012 , 27, 1029-1032		3
1199	A feasibility study to replace steel made hood panels by magnesium alloy made hood panels. 2012 , 13, 2011-2016		8
1198	Improving Corrosion Resistance of MRI 230D Mg Alloy by Hybrid Coating of Laser Surface Alloying and Plasma Electrolytic Oxidation. 2012 , 706-709, 1209-1214		2
1197	R-HPDC of Magnesium Alloys. 2012 , 192-193, 225-230		8
1196	Influence of Zn Coating on Interfacial Reactions and Mechanical Properties During Laser Welding-Brazing of Mg to Steel. 2012 , 43, 4740-4754		45
1195	Microstructure Evolution during Roller Hemming of AZ31B Magnesium Sheet. 2012 , 43, 3824-3833		4
1194	Investigation on the Mechanical Properties of Mg-Al Alloys (AZ41 and AZ51) and Its Composites. 2012 , 2, 313-328		6
1193	Phase field simulation of precipitation in a Mg-Al alloy using two techniques of approximation. 2012 , 33, 012110		1
1192	Influence of Micron-Ti and Nano-Cu Additions on the Microstructure and Mechanical Properties of Pure Magnesium. 2012 , 2, 274-291		15
1191	Effect of TiN nano-coating on the interface microstructure of carbon fibres-AZ91 alloy composite. 2012 , 32, 012019		1
1190	Aluminum Impurity Diffusion in Magnesium. 2012 , 33, 121-125		36
1189	Corrosion and self-healing behaviour of AZ91D magnesium alloy in ethylene glycol/water solutions. 2012 , 63, 713-719		5

1188	Effects of various parameters on ultrasonic separation of inclusions from magnesium alloy melt. 2012 , 43, 220-225	5
1187	Variational constitutive updates for microstructure evolution in hcp metals. 2012 , 35, 43-58	2
1186	Influence of Die Lubricants on Pickling and Conversion Treatment of High-Pressure Die-Cast AM30 Magnesium Alloy. 2012 , 14, 227-235	4
1185	Creep and fracture behavior of as-cast Mg _{0.1} Y _{0.1} Gd _{0.1} Zn _{0.5} Zr (wt%). 2012 , 47, 6263-6275	18
1184	Stress corrosion cracking susceptibility of ultrafine grained AZ31. 2012 , 47, 6812-6822	25
1183	The Effect of Alloying Elements on the Shear Strength of the Lap Joint of AZ31B Magnesium Alloy to Q235 Steel by Hybrid Laser-TIG Welding Technique. 2012 , 43, 1976-1988	10
1182	Influence of Process Parameters on Microstructure and Mechanical Properties of Friction-Stir-Processed Mg-Gd-Y-Zr Casting. 2012 , 43, 2094-2109	33
1181	Creep and Fracture Behavior of Peak-Aged Mg-11Y-5Gd-2Zn-0.5Zr (wt pct). 2012 , 43, 3338-3350	30
1180	Behavior Analysis of CaF ₂ in Magnesia Carbothermic Reduction Process in Vacuum. 2012 , 43, 657-661	27
1179	Microstructures and Properties of Extruded Mg-Gd-Y-Zr Alloys Containing Zn. 2012 , 21, 1056-1060	3
1178	Post-heat Treatment Effects on Cold-Sprayed Aluminum Coatings on AZ91D Magnesium Substrates. 2012 , 21, 731-739	13
1177	Structural, thermodynamics and elastic properties of Mg ₁₇ Al ₁₂ , Al ₂ Y and Al ₄ Ba phases by first-principles calculations. 2012 , 19, 1475-1481	18
1176	Grain refining mechanism of carbon inoculation on Mg-Al alloy. 2012 , 17, 301-305	5
1175	Texture development and deformation behavior of a statically recrystallized Mg-Al-Zn alloy sheet. 2012 , 18, 23-27	11
1174	Effect of ultrasonic power on grain refinement and purification processing of AZ80 alloy by ultrasonic treatment. 2012 , 18, 209-215	10
1173	Comparative Evaluation of Corrosion Behavior of Friction Stir Welded AZ61A Magnesium Alloy Weldments in Immersion Corrosion Tests and Salt Spray Corrosion Tests Using Response Surface Methodology. 2012 , 65, 275-287	
1172	In situ analysis of the tensile and tensile-creep deformation mechanisms in rolled AZ31. 2012 , 60, 1889-1904	118
1171	On the importance of a connected hard-phase skeleton for the creep resistance of Mg alloys. 2012 , 60, 2277-2289	70

1170	Calcium phosphate coatings on magnesium alloys for biomedical applications: a review. 2012 , 8, 20-30	463
1169	Investigation on the corrosion and hydrogen evolution for AZ91D magnesium alloy in single and anion-containing oxalate solutions. 2012 , 37, 84-94	26
1168	Efficient modeling of microstructure evolution in magnesium by energy minimization. 2012 , 28, 1-20	30
1167	Luminescence during anodization of magnesium alloy AZ31. 2012 , 59, 354-359	34
1166	Corrosion resistance of multilayered magnesium phosphate/magnesium hydroxide film formed on magnesium alloy using steam-curing assisted chemical conversion method. 2012 , 62, 19-29	33
1165	Evaluation of plasma temperature during plasma oxidation processing of AZ91 Mg alloy through analysis of the melting behavior of incorporated particles. 2012 , 67, 6-11	77
1164	Microstructural characterization of high pressure die cast Mg-Zn-Al-RE alloys. 2012 , 65, 28-36	28
1163	Understanding the reaction mechanism of in-situ synthesized (TiC/B ₂)/AZ91 magnesium matrix composites. 2012 , 135, 193-205	27
1162	Effect of high-frequency induction heat sintering conditions on the microstructure and mechanical properties of nanostructured magnesium/hydroxyapatite nanocomposites. 2012 , 36, 58-68	47
1161	Microstructure and mechanical properties of as-cast Mg-Al-Sn-Nd alloy. 2012 , 36, 432-437	32
1160	Annealing of a magnesium alloy AZ31 after interrupted cold deformation. 2012 , 36, 626-632	24
1159	Microstructure and mechanical property of rolled-weld magnesium alloy AZ31. 2012 , 36, 577-583	6
1158	Effect of individual and combined addition of micro/nano-sized metallic elements on the microstructure and mechanical properties of pure Mg. 2012 , 37, 274-284	35
1157	Microstructure and mechanical properties of the motorcycle cylinder body of AM60B magnesium alloy formed by combining die casting and forging. 2012 , 37, 202-210	26
1156	Effect of bonding time on microstructure and mechanical properties of transient liquid phase bonded magnesium AZ31 alloy. 2012 , 38, 32-37	37
1155	Experimental study on influence of section thickness on mechanical behavior of die-cast AM60 magnesium alloy. 2012 , 38, 124-132	11
1154	Artificial neural network modeling to predict the high temperature flow behavior of an AZ81 magnesium alloy. 2012 , 39, 390-396	105
1153	Fabrication of ZK60 magnesium alloy thin sheets with improved ductility by cold rolling and annealing treatment. 2012 , 40, 319-323	32

1152	Comparison of mechanical properties and microstructure of AZ91D alloy motorcycle wheels formed by die casting and double control forming. 2012 , 40, 541-549		28
1151	Evolution of microstructure and texture during planar simple shear of magnesium alloy. 2012 , 66, 654-657		43
1150	Hot shear deformation constitutive analysis of an extruded Mg ₉₅ Li ₃ Zn alloy. 2012 , 81, 235-238		32
1149	Twinning behavior of pure magnesium quantitatively investigated by acoustic emission. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 536, 8-13	5-3	28
1148	Refining microstructure of AZ91 magnesium alloy by introducing limited angular oscillation during initial stage of solidification. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 532, 221-229	5-3	17
1147	Microstructure and mechanical properties of weld-bonded and resistance spot welded magnesium-to-steel dissimilar joints. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 537, 11-24	5-3	58
1146	Effect of strontium on flow behavior and texture evolution during the hot deformation of Mg ₉₅ wt%Mn alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 537, 49-57	5-3	28
1145	Evolution of precipitation during non-isothermal ageing of an Mg ₉₅ Ca ₂ Zn alloy with high Ca content. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 538, 246-251	5-3	18
1144	The influence of Zn additions on the microstructure and creep resistance of high pressure die cast magnesium alloy AE44. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 539, 177-184	5-3	26
1143	Development of SiCp/AZ91 magnesium matrix nanocomposites using ultrasonic vibration. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 540, 123-129	5-3	73
1142	Effects of lattice parameter changes on critical resolved shear stress and mechanical properties of magnesium binary single crystals. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 540, 198-206	5-3	25
1141	Microstructure and damping behaviour of consolidated magnesium chips. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 542, 94-103	5-3	18
1140	Creep behavior of Mg ₉₅ Y ₃ Gd ₂ Zn _{0.5} Zr (wt.%) at 573K. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 546, 239-247	5-3	27
1139	Microstructure and mechanical properties of the Mg ₉₅ Gd ₃ Zn ₂ Zr alloy fabricated by semi-continuous casting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 549, 128-135	5-3	46
1138	Effect of strontium on the texture and mechanical properties of extruded Mg ₉₅ %Mn alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 549, 168-175	5-3	40
1137	Luminescence of the B ₁ band system of MgO during plasma electrolytic oxidation of magnesium alloy. 2012 , 206, 2905-2913		20
1136	Hydrothermal synthesis of protective coating on magnesium alloy using de-ionized water. 2012 , 206, 2961-2966		52
1135	Recent progress in corrosion protection of magnesium alloys by organic coatings. 2012 , 73, 129-141		270

1134	Coextrusion of Mg/Al macro composites. 2012 , 212, 1954-1962	29
1133	Investigation of the mechanical and degradation properties of Mg-Sr and Mg-Zn-Sr alloys for use as potential biodegradable implant materials. 2012 , 7, 87-95	163
1132	Solidification Microstructure and Mechanical Properties of Cast Magnesium-Aluminum-Tin Alloys. 2012 , 43, 360-368	59
1131	The Impact of Melt-Conditioned Twin-Roll Casting on the Downstream Processing of an AZ31 Magnesium Alloy. 2012 , 43, 1035-1047	20
1130	Research on Laser Welding of Mg-Rare Earth Alloy Mg-3Nd-0.2Zn-0.4Zr. 2012 , 21, 208-212	3
1129	Effect of impurity reduction on rollability of AZ31 magnesium alloy. 2012 , 47, 514-520	10
1128	Experimental investigation and thermodynamic assessment of the Mg-Ni-Cd system focused on Mg-rich corner. 2012 , 47, 1319-1330	21
1127	An investigation on hot-cracking mechanism of Sr addition into Mg/Al/0.5Mn alloy. 2012 , 47, 2000-2004	13
1126	Microstructure evolution of Mg-3%Al-1%Zn alloy tube during warm bending. 2012 , 47, 3801-3807	9
1125	Plasma anodized ZE41 magnesium alloy sealed with hybrid epoxy-silane coating. 2013 , 73, 300-308	67
1124	Erosion process analysis of die-casting inserts for magnesium alloy components. 2013 , 33, 457-464	16
1123	Creep life assessment of a die-cast Mg/Al/0.3Mn alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 584, 63-66	5-3 3
1122	A Review of Liquid Forging Process. 2013 , 690-693, 2275-2279	1
1121	The Microstructural, Textural, and Mechanical Properties of Extruded and Equal Channel Angularly Pressed Mg-Li-Zn Alloys. 2013 , 44, 3934-3946	33
1120	A phase field model for simulating the precipitation of multi-variant β Mg ₁₇ Al ₁₂ in Mg/Al-based alloys. 2013 , 68, 691-694	20
1119	Effect of process parameters on semi-solid TLP bonding of Ti/Al/V to Mg/AZ31. 2013 , 48, 6737-6745	32
1118	Influence of strain and strain rate on microstructural evolution during superplasticity of Mg/Al/Zn sheet. 2013 , 48, 5633-5644	8
1117	Dry sliding wear of an AZ31 magnesium alloy processed by equal-channel angular pressing. 2013 , 48, 4117-4127	30

1116	Notch root strain measurement of WE43-T6 magnesium alloy using electronic speckle pattern interferometry. 2013 , 51, 206-211		6
1115	Solution softening in magnesium alloys: the effect of solid solutions on the dislocation core structure and nonbasal slip. 2013 , 25, 022202		50
1114	Influence of deformation twinning on static annealing of AZ31 Mg alloy. 2013 , 61, 5966-5978		119
1113	An Environmentally Friendly Process Involving Refining and Membrane-Based Electrolysis for Magnesium Recovery from Partially Oxidized Scrap Alloy. 2013 , 65, 1285-1292		16
1112	Ductility improvement in AZ31 magnesium alloy using constrained compression testing technique. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 576, 74-81	5-3	7
1111	Hardness homogeneity and micro-tensile behavior in a magnesium AZ31 alloy processed by equal-channel angular pressing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 586, 108-114	5-3	42
1110	Effect of rare earth elements on the structures and mechanical properties of magnesium alloys. 2013 , 58, 816-820		10
1109	Effect of high temperature annealing and subsequent hot rolling on microstructural evolution at the bond-interface of Al/Mg/Al alloy laminated composites. 2013 , 84, 34-40		63
1108	Improvement in impression creep property of as-cast AC515 Mg alloy by Mn addition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 587, 213-220	5-3	4
1107	Fatigue behavior of friction stir spot welded AZ31 Mg alloy sheet joints. 2013 , 23, 1949-1956		6
1106	Relationship Between the 3D Porosity and Phase Distributions and the Mechanical Properties of a High Pressure Die Cast AZ91 Mg Alloy. 2013 , 44, 4391-4403		29
1105	Microstructure and Fatigue Properties of a Friction Stir Lap Welded Magnesium Alloy. 2013 , 44, 3732-3746		34
1104	The Small Fatigue Crack Growth Behavior of an AM60 Magnesium Alloy. 2013 , 44, 1045-1058		7
1103	Microstructure, thermal and mechanical response of AZ51/Al ₂ O ₃ nanocomposite with 2wt.% Ca addition. 2013 , 50, 1-6		14
1102	Microstructural Aspects of Damage and Fracture in AZ31 Sheet Materials. 2013 , 22, 1386-1395		12
1101	Effect of twinning and detwinning on inelastic behavior during unloading in a magnesium alloy sheet. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 583, 232-241	5-3	69
1100	Effect of Pressure on Microstructure and Mechanical Properties of AM60B Alloy Used for Motorcycle Wheels Formed by Double Control Forming. 2013 , 29, 439-445		5
1099	Influence of solution and aging on the microstructures and mechanical properties of complex deformed WE93 alloy. 2013 , 51, 73-78		21

1098	Microstructure and mechanical properties of thin-wall and high-rib parts of AM60B Mg alloy formed by double control forming and die casting under the optimal conditions. 2013 , 552, 44-54		8
1097	Preparation of Mg and Ca metal by carbothermic reduction method [A]thermodynamics approach. 2013 , 1, 263-266		10
1096	Compositionally modulated CGDS+MAO duplex coatings for corrosion protection of AZ91 magnesium alloy. 2013 , 578, 355-361		24
1095	Effects of welding speed on the microstructures and mechanical properties of laser welded AZ61 magnesium alloy joints. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 578, 303-309	5-3	31
1094	Mechanical properties and corrosion resistance of Mg ₉₀ Gd ₅ Y ₅ .5Zr alloy by hot extrusion solid-state recycling. 2013 , 561, 184-192		12
1093	A temperature-dependent elasto-plastic constitutive model for magnesium alloy AZ31 sheets. 2013 , 50, 66-93		68
1092	Composite film formed on magnesium alloy AZ31 by chemical conversion from molybdate/phosphate/fluorinate aqueous solution toward corrosion protection. 2013 , 217, 76-83		52
1091	Wear Behavior of Multiwalled Carbon Nanotube/AZ31 Composite Obtained by Friction Stir Processing. 2013 , 56, 827-832		32
1090	Dynamic properties of an ultrafine-grained Mg ₉₀ Zn ₁₀ alloy. 2013 , 93, 541-549		5
1089	Ultrastrong Mg Alloy via Nano-spaced Stacking Faults. 2013 , 1, 61-66		204
1088	Fine grained Mg ₉₀ Al ₁₀ Zn alloy with randomized texture in the double-sided friction stir welded joints. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 580, 83-91	5-3	54
1087	Microstructure and mechanical properties of Mg ₉₀ Y ₁₀ Cu alloy with long period stacking ordered phase. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 580, 196-201	5-3	17
1086	Improved ductility of magnesium alloys by a simple shear process followed by annealing. 2013 , 69, 49-52		46
1085	Investigation of uniaxial low-cycle fatigue failure behavior of hot-rolled AZ91 magnesium alloy. 2013 , 48, 122-132		91
1084	Electrochemical behavior of plasma electrolytic oxide coatings on rare earth element containing Mg alloys. 2013 , 236, 540-549		34
1083	Microarc oxidation coating fabricated on AZ91D Mg alloy in an optimized dual electrolyte. 2013 , 23, 412-419		9
1082	Effect of ammonium metavanadate on surface characteristics of oxide layer formed on Mg alloy via plasma electrolytic oxidation. 2013 , 236, 70-74		9
1081	Comparative analysis for corrosion resistance of micro-arc oxidation coatings on coarse-grained and ultra-fine grained AZ91D Mg alloy. 2013 , 216, 259-266		37

1080 Ab Initio Guided Design of Materials. **2013**, 481-495

1079 Effect of equal channel angular pressing on AZ31 wrought magnesium alloys. **2013**, 1, 336-340 60

1078 Formability of AZ31 Mg alloy sheets within medium temperatures. **2013**, 1, 312-317 33

1077 Energy investigations on the mechanical properties of magnesium alloyed by X = C, B, N, O and vacancy. **2013**, 7, 405-412 2

1076 Improved mechanical properties in AZ31 magnesium alloys induced by impurity reduction. **2013**, 28, 1207-1211 14

1075 Characterization of ceramic coating on ZK60 magnesium alloy prepared in a dual electrolyte system by micro-arc oxidation. **2013**, 32, 459-464 14

1074 Friction and wear behavior of Mg-1Y-0.5Gd-0.5Zn-0.5Zr (wt%) alloy with oil lubricant. **2013**, 32, 453-458 7

1073 Influence of strain rate on the twin and slip activity of a magnesium alloy containing neodymium. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2013**, 583, 220-231 5:3 35

1072 Characterization of newly developed semisolid stir welding method for AZ91 magnesium alloy by using Mg-5Zn interlayer. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2013**, 565, 165-171 5:3 20

1071 In-situ hydrothermal crystallization Mg(OH)₂ films on magnesium alloy AZ91 and their corrosion resistance properties. **2013**, 143, 322-329 59

1070 Study on Microstructures and Mechanical Properties of Die Casting Mg-xGd-3Y-0.5Zr Alloys. **2013**, 690-693, 44-48

1069 Advanced Materials in Sheet Metal Forming. **2013**, 581, 137-142 6

1068 Improving mechanical properties and corrosion resistance of Mg-6Zn-2Mn magnesium alloy by rapid solidification. **2013**, 92, 45-48 50

1067 Current transient study of the kinetics of nucleation and diffusion-controlled growth of bimetallic phases. **2013**, 17, 345-351 28

1066 Superplastic behavior and microstructural stability of friction stir processed AZ91C alloy. **2013**, 48, 2635-2646 23

1065 ORMOSIL-epoxy coatings with ceramic containers for corrosion protection of magnesium alloys ZK10. **2013**, 76, 459-470 22

1064 Growth of calcium phosphates on magnesium substrates for corrosion control in biomedical applications via immersion techniques. **2013**, 101, 162-72 21

1063 Atmospheric corrosion of field-exposed AZ31 magnesium in a tropical marine environment. **2013**, 76, 243-256 102

1062	Thermal Conductivity and Mechanical Properties of as-Cast Mg-3Zn-(0.5~3.5)Sn Alloys. 2013 , 42, 2019-2022	16
1061	Influence of Ce addition on microstructure and mechanical properties of high pressure die cast AM50 magnesium alloy. 2013 , 23, 66-72	22
1060	Effect of bath pH and stabilizer on electroless nickel plating of magnesium alloys. 2013 , 228, 84-91	45
1059	Wear behaviours of Pb added MgAlSi composites reinforced with in situ Mg ₂ Si particles. 2013 , 50, 929-935	29
1058	Research on Micro-arc Oxidation Coatings with Thermal Control on Magnesium Alloy. 2013 , 50, 185-190	4
1057	Decanoate conversion layer with improved corrosion protection for magnesium alloy. 2013 , 70, 229-234	13
1056	Microstructure and mechanical properties of Mg ₆ (_{6,9})Y ₄ Zn alloys by extrusion and aging. 2013 , 52, 713-719	15
1055	Magnesium alloy melt protection by high-efficiency phase transition of carbon dioxide. 2013 , 41, 74-81	6
1054	Improvement of wear and corrosion resistance of AZ91 magnesium alloy by applying NiSiC nanocomposite coating via pulse electrodeposition. 2013 , 23, 2914-2922	40
1053	Microstructure and mechanical properties of Mg-Zn-Y-Nd-Zr alloys. 2013 , 31, 616-621	27
1052	Spherical strengthening precipitate in a Mg-10wt%Y alloy with superhigh pressure aging. 2013 , 96, 16-19	6
1051	Enhanced electromagnetic interference shielding in ZK60 magnesium alloy by aging precipitation. 2013 , 74, 872-878	39
1050	Predicting the influence of pore characteristics on ductility of thin-walled high pressure die casting magnesium. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 572, 45-55	5-3 22
1049	A new combined experimental-numerical approach to evaluate formability of rate dependent materials. 2013 , 66, 55-66	26
1048	Microstructure and strengthening mechanism of a thermomechanically treated Mg ₁₀ Gd ₅ Y ₁ Sn _{0.5} Zr alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 565, 262-268	5-3 24
1047	Optimizing the strength and ductility of AZ91 Mg alloy by ECAP and subsequent aging. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 588, 329-334	5-3 57
1046	Influence of different rolling routes on the microstructure evolution and properties of AZ31 magnesium alloy sheets. 2013 , 50, 667-673	56
1045	Effects of heat treatment on microstructure and mechanical properties of Mg ₃ Zn _{0.63} Er alloy. 2013 , 23, 59-65	15

1044	Enhancement of the microstructure and mechanical properties in as-forged Mg ₉₀ Al ₅ Zn ₅ alloy using T5 heat treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 586, 306-312	5-3	10
1043	Effect of Hot Compression Process on Recrystallization Microstructure and Mechanical Properties of AZ31 Magnesium Alloy. 2013 , 50, 61-67		4
1042	Compression properties at different loading directions of as-extruded Mg ₉₀ Y ₅ Zn ₅ (RY: Y-rich misch metal) alloy with long period stacking ordered phase. 2013 , 51, 561-566		9
1041	Achieving synchronous improvement of strength and ductility of Mg ₉₀ Al ₅ Zn ₅ alloy through controlling the rolling orientation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 586, 38-44	5-3	7
1040	Microstructure and creep behaviour of Mg-12Gd-3Y-1Zn-0.4Zr alloy. 2013 , 31, 186-191		14
1039	Effects of grain size and precipitation on liquation cracking of AZ61 magnesium alloy laser welding joints. 2013 , 18, 458-465		11
1038	Influence of post-weld hot rolling on the microstructure and mechanical properties of AZ31 magnesium alloy sheet. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 588, 208-213	5-3	11
1037	Electrolytic MgO/ZrO ₂ duplex-layer coating on AZ91D magnesium alloy for corrosion resistance. 2013 , 76, 142-153		40
1036	Influence of the anisotropy in lattice friction on the macroscopic behavior of magnesium single crystal: A study by discrete dislocation dynamics. 2013 , 79, 772-780		2
1035	Enhanced mechanical properties of AZ31 magnesium alloy sheets processed by three-directional rolling. 2013 , 575, 408-413		21
1034	Fabrication of a New Mg-50%Al-4%Cu-3%Ce Master Alloy and Its Refinement Mechanism on AZ91D Alloy. 2013 , 42, 28-31		4
1033	Microstructure and mechanical properties of Mg ₉₀ Zn ₅ Ca ₅ alloy processed by semi-continuous casting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 582, 134-139	5-3	24
1032	Compressive deformation behavior of Mg ₉₀ Zn ₅ Ca ₅ alloy at elevated temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 586, 71-77	5-3	6
1031	Effect of icosahedral phase on growth behavior of thin oxide film on Mg ₉₀ Zn ₁₂ Y _{1.7} alloy via micro arc oxidation. 2013 , 531, 261-265		4
1030	Effect of temperature on microstructures, texture and mechanical properties of hot rolled pure Mg sheets. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 568, 202-205	5-3	24
1029	Effects of pre-sputtered Al interlayer on the atomic layer deposition of Al ₂ O ₃ films on Mg ₉₀ Li ₅ Zn ₅ alloy. 2013 , 270, 452-456		12
1028	Identifying optimal conditions for magnesium based alloy design using the Mesh Adaptive Direct Search algorithm. 2013 , 559, 107-110		15
1027	Effect of long period stacking ordered phase on the microstructure, texture and mechanical properties of extruded Mg ₉₀ Zn ₅ alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 563, 177-183	5-3	101

1026	Integrated utilization of seawater using a five-chamber bioelectrochemical system. 2013 , 444, 16-21		29
1025	On some aspects of compressive properties and serrated flow in Mg-Y-Nd-Zr alloy. 2013 , 31, 804-810		11
1024	Phase equilibria in Mg-rich corner of Mg-Ca-RE (RE=Gd, Nd) systems at 400 °C. 2013 , 23, 881-888		10
1023	Numerical simulation of DC casting of AZ31 magnesium slab at different casting speeds. 2013 , 1, 88-93		12
1022	Effects of Heat Input on Microstructure and Mechanical Properties of Laser-Welded Mg-Rare Earth Alloy. 2013 , 22, 64-70		3
1021	Effect of Solid Solution Treatment on Microstructure and Mechanical Properties of Mg97Y2Zn1 Alloy. 2013 , 22, 523-527		11
1020	Creep behavior of Mg9Gd1Y0.5Zr (wt.%) alloy piston by squeeze casting. 2013 , 78, 37-46		19
1019	Effect of grain size on the mechanisms of plastic deformation in wrought Mg70Zn30 alloy revealed by acoustic emission measurements. 2013 , 61, 2044-2056		88
1018	Achieving High Strength and High Ductility in Friction Stir-Processed Cast Magnesium Alloy. 2013 , 44, 3675-3684		31
1017	Improved corrosion protection of AZ31 magnesium alloy through plasma electrolytic oxidation and aerosol deposition duplex treatment. 2013 , 219, 82-87		17
1016	High strain rate superplasticity of a fine-grained AZ91 magnesium alloy prepared by submerged friction stir processing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 568, 40-48	5-3	76
1015	Transmission electron microscopy and thermodynamic studies of CaO-added AZ31 Mg alloys. 2013 , 61, 3267-3277		41
1014	Double-layered manganese phosphate conversion coating on magnesium alloy AZ91D: Insights into coating formation, growth and corrosion resistance. 2013 , 217, 147-155		86
1013	Processing and Characterization of In Situ (TiC/TiB ₂)p/AZ91D Magnesium Matrix Composites. 2013 , 15, 708-717		0
1012	In-plane anisotropic deformation behavior of rolled Mg60Al40Zn alloy by initial {100} twins. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 570, 149-163	5-3	84
1011	The influences of extrusion and equal channel angular pressing (ECAP) processes on the fatigue behavior of AM60 magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 565, 308-316	5-3	36
1010	Effects of grain size, texture and twinning on mechanical properties and work-hardening behaviors of pure Mg. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 578, 240-246	5-3	24
1009	FEM/IT integrated design for multiscale damage analysis of hydroformed magnesium-based alloy tubular product. 2013 , 56, 38-47		6

1008	Microstructure and tensile properties of as-cast and as-aged Mg ₉₇ Al ₁ Zn alloys with Sn addition. 2013 , 51, 567-574		34
1007	Effect of surface pretreatment on corrosion resistance and bond strength of magnesium AZ31 alloy. 2013 , 66, 33-42		31
1006	Texture analysis of the effect of non-basal slip systems on the dynamic recrystallization of the Mg alloy AZ31. 2013 , 75, 101-107		24
1005	Effect of nano-Al ₂ O ₃ addition and heat treatment on the microstructure and mechanical properties of Mg-(5.6Ti+3Al) composite. 2013 , 75, 150-164		15
1004	The effect of alternative low frequency electromagnetic field on the solidification microstructure and mechanical properties of ZK60 alloys. 2013 , 44, 17-22		12
1003	The effect of solution heat treatments on the microstructure and hardness of ZK60 magnesium alloys prepared under low-frequency alternating magnetic fields. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 559, 22-28	5-3	10
1002	Investigation on the feasibility of room temperature plastic deformation of pure magnesium by simple shear extrusion process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 560, 34-39	5-3	33
1001	High-temperature compressive deformation behavior of Mg ₉₇ Zn ₁ Y ₂ extruded alloy containing a long-period stacking ordered (LPSO) phase. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 560, 71-79	5-3	105
1000	Fabrication of Mg ₉₇ Al ₁ Zn ₁ Mn alloy sheets with homogeneous fine-grained structures using high strain-rate rolling in a wide temperature range. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 559, 765-772	5-3	48
999	Effects of cerium addition on the microstructure, mechanical properties and hot workability of ZK60 alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 559, 798-807	5-3	181
998	Microstructure and mechanical properties of AZ61 alloys with large cross-sectional size fabricated by multi-pass ECAP. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 560, 473-480	5-3	38
997	Dynamic recrystallization behavior during hot deformation and mechanical properties of 0.2% SiCp reinforced Mg matrix composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 560, 824-830	5-3	46
996	Effect of Na ₂ SiO ₃ concentration on the properties of AZ31 magnesium alloy prepared by electrolytic plasma processing. 2013 , 9, 813-815		8
995	Numerical study of magnesium (Mg) production by the Pidgeon process: Impact of heat transfer on Mg reduction process. 2013 , 59, 328-337		23
994	Tensile and fatigue properties of weld-bonded and adhesive-bonded magnesium alloy joints. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 563, 125-132	5-3	24
993	Comparison of corrosion performance of various conversion coatings on magnesium alloy using electrochemical techniques. 2013 , 10, 707-715		7
992	Influence of TiO ₂ nanocontainers on hybrid organic-inorganic coatings for corrosion protection of magnesium alloy. 2013 , 4, 127-142		3
991	Microstructure and mechanical properties of ZK60 magnesium alloy fabricated by high strain rate multiple forging. 2013 , 29, 54-59		17

- 990 Study on Flow Stress Characteristics of AZ31B under Multi-Stage Hot Deformation. **2013**, 310, 117-123
- 989 Influence of high velocity oxygen-fuel spraying parameters on the wear resistance of AlSiC composite coatings deposited on ZE41A magnesium alloy. **2013**, 43, 144-152 37
- 988 Microstructure and mechanical properties of the hot-rolled MgNdZr alloy. **2013**, 28, 1386-1393 10
- 987 Characterization of the Corrosion Behavior of a Mg Alloy in Chloride Solution. **2013**, 69, 497-508 10
- 986 Microstructures and Mechanical Properties of AZ31+Sr+Y Magnesium Alloy Sheets Produced by Twin-Roll Casting and Sequential Hot Rolling. **2013**, 765-767, 3176-3179 1
- 985 Effects of SiC ceramic particles on microstructures and mechanical properties of gas tungsten arc welded AZ31 magnesium alloy with Cr₂O₃ flux coating. **2013**, 18, 11-18 5
- 984 TiO₂ Deposition on AZ31 Magnesium Alloy Using Plasma Electrolytic Oxidation. **2013**, 2013, 1-8 29
- 983 Salt spray corrosion behaviour of new MgAl alloys containing Nd or Gd. **2013**, 48, 183-193 14
- 982 Preparation Process of Green Ceramic Coating of Magnesium Alloy through Micro-Arc Oxidation. **2013**, 842, 228-232 1
- 981 Route Effects in I-ECAP of AZ31B Magnesium Alloy. **2013**, 554-557, 876-884 13
- 980 Effect of Solid Solution Treatment on Fatigue Behavior of Cast Magnesium Alloy. **2013**, 281, 436-440
- 979 Lubricant Research on SGMF of Magnesium Alloy Sheet. **2013**, 675, 311-316 5
- 978 Deformation Behavior of AZ31 Magnesium Alloy at Elevated Temperature. **2013**, 652-654, 1976-1979
- 977 Aging Behavior of Semi-Solid Mg-10Al-0.3Mn Alloy by the Hot Extrusion. **2013**, 658, 102-107
- 976 Analysis of Organizations of Brazed Seam 5052 Al Alloy Contact Reactive Brazing. **2013**, 690-693, 2598-2600 0
- 975 Diffusion Processes in Early Stages of Precipitation in Mg-Gd and Mg-Tb Alloys. **2013**, 333, 51-60
- 974 Temperature distribution and its influence on microstructure of alloy AZ31 during semisolid rheo-rolling process. **2013**, 26, 247-254 5
- 973 Grain Refinement of Y in As-Cast Mg-Y Alloys. **2013**, 750-752, 603-606 1

972	Reaction Kinetics of Mg ₂ Si in the Laser Welding Pool of Aluminum Alloys. 2013 , 813, 55-63	
971	The Effect of Particles on Microstructure and Mechanical Behaviour of Mg-10Gd-3Y-0.4Zr Alloy Processed by ECAP. 2013 , 765, 444-448	0
970	The Effect of Sintering Temperature to the Microstructure and Properties of AZ91 Magnesium Alloy by Powder Metallurgy. 2013 , 377, 250-254	7
969	Magnesium as an ISRU-Derived Resource for Lunar Structures. 2013 , 26, 152-159	12
968	Hot Cracking and Microstructure of Welding Joint of Magnesium Alloy AZ91D. 2013 , 753-755, 435-438	2
967	Corrosion Resistance of Al-12Si Coatings on AZ91 Magnesium Alloy Prepared through Flame Spray. 2013 , 765, 639-643	2
966	Rolling Temperature and Subsequent Annealing on Microstructure, Texture and Mechanical Properties of Consecutive Rolled Mg-2.0Zn-0.8Gd Alloy. 2013 , 747-748, 369-376	1
965	Effect of Rolling Reduction on Microstructure and Mechanical Properties of Mg-9Gd-3Y-0.5Zr Alloys. 2013 , 747-748, 223-229	1
964	Processing and Microstructures of $\text{Al}_2\text{O}_3/\text{AE44}$ Composite Synthesized by SS-HPDC. 2013 , 747-748, 198-203	
963	Corrosion Behavior of AZ91/AZ91-0.4%Nd Alloys in 3.5wt.% NaCl. 2013 , 291-294, 699-702	
962	Online Calculation Model of Rolling Force for Mg Alloy Rolling Process. 2013 , 753-755, 245-248	
961	Optimization of Heat Treatment Process on Vacuum Die-Casting AT72 Magnesium Alloy. 2013 , 747-748, 307-312	0
960	Effects of Cold-Spray Coatings on the Corrosion Properties of AZ80 Magnesium Alloy. 2013 , 573, 43-48	1
959	The Study of the Microstructure and Mechanical Properties of Friction Stir Spot Welding Joint between AZ31B Magnesium Alloy and Steel. 2013 , 668, 818-822	1
958	Temperature Field and Cast-Rolling Force Prediction during Horizontal Twin-Roll Casting Magnesium Alloy. 2013 , 747-748, 412-420	2
957	Development of Thermal Barrier Coatings on AZ91 Magnesium Alloy Surface. 2013 , 395-396, 703-707	0
956	Precipitation Processes in Mg-Y-Nd Alloys. 2013 , 334-335, 155-160	2
955	Microstructure and Tensile Properties of Mg-4Zn-2Sn-2Al Alloy. 2013 , 747-748, 398-403	3

954	Research Progress of Mg-Al Based Alloys. 2013 , 750-752, 583-586	2
953	Microstructure and Corrosion Behavior of AZ91-0.4%Nd Magnesium Alloy. 2013 , 291-294, 2577-2580	1
952	Stabilization of bcc Mg in Thin Films at Ambient Pressure: Experimental Evidence and ab initio Calculations. 2013 , 1, 161-167	19
951	Statistical analysis on static recrystallization texture evolution in cold-rolled AZ31 magnesium alloy sheet. 2013 , 19 Suppl 5, 21-4	5
950	Microstructure and Mechanical Properties of Mg-12Gd-2Y-2Sm-0.5Zr Alloy. 2013 , 750-752, 611-614	
949	Effects of Texture on Tensile Property of Extruded AZ31 Magnesium Alloy Investigated by Acoustic Emission. 2013 , 747-748, 340-345	1
948	Study of the Solidification of AS Alloys Combining In Situ Synchrotron Diffraction and Differential Scanning Calorimetry. 2013 , 765, 286-290	14
947	High-Cycle Fatigue Life of AZ31 and AZ61 Magnesium Alloys. 2013 , 211, 83-88	
946	Electroless nickel-boron plating to improve the corrosion resistance of magnesium (Mg) alloys. 2013 , 370-392	3
945	Magnesium alloy defectology AZ91D high-pressure die cast and influence on the fatigue behaviour. 2013 , 36, 1017-1026	8
944	Mikrogalvanische Korrosion am Magnesium-Aluminium System Detaillierte elektrochemische Einblicke mittels FEM-Simulationen. 2013 , 85, 1951-1956	2
943	Effects of Gd on the Microstructure and Mechanical Properties of Mg-3Sn Alloys. 2013 , 747-748, 245-250	3
942	Plasma Electrolytic Oxidation/Cerium Conversion Composite Coatings for the Improved Corrosion Protection of AZ31 Mg Alloys. 2013 , 160, C77-C82	19
941	Fabrication and Microstructure of HA Containing Composite Coating on AZ91 Biomedical Magnesium by Plasma Electrolytic Oxidation. 2013 , 575-576, 229-232	
940	Physical metallurgy of magnesium. 2013 , 33-84	6
939	Study on Forming Limit Diagrams of AZ31B Alloy Sheet at Different Temperatures. 2013 , 28, 306-311	8
938	Surface Roughness Analysis of Magnesium Pieces Obtained by Intermittent Turning. 2013 , 773-774, 377-391	3
937	Investigation of corrosion and metallurgical characteristics of friction stir-welded magnesium alloy welds under immersion, salt fog, pitting and galvanic corrosion tests. 2013 , 110, 373-389	1

936	Pretreatment for Magnesium Alloy. 2013 , 64, 650-655	1
935	Hot Deformation Processing and Texture in Magnesium alloy WE43. 2013 , 46, 208-213	5
934	Microstructural Characterization of Metastable Phases in Homogenised and Aged Mg-Nd and Mg-Gd-Nd Alloys Containing Zn, Y and Zr. 2013 , 1123-1130	
933	Effect of CaO Addition on Microstructure and Damping Capacity of AM50 Magnesium Alloy. 2013 , 54, 409-411	5
932	Effect of LPSO Phase-Stimulated Texture Evolution on Creep Resistance of Extruded Mg–Zn–Gd Alloys. 2013 , 54, 703-712	38
931	Electrodeposition of Diamond-like Carbon (DLC) Films on Mg by Plasma Electrolysis. 2013 , 81, 977-980	4
930	Dislocation Analysis during High-Temperature Creep of Die-Cast Mg-Al-Ca Alloy. 2013 , 77, 391-397	7
929	Non-Basal Slip Systems Operative in Mg ₁₂ ZnY Long-Period Stacking Ordered (LPSO) Phase with 18R and 14H Structures. 2013 , 54, 693-697	48
928	Synthesis and Characterization of Nanocrystalline Mg-7.4%Al Powders Produced by Mechanical Alloying. 2013 , 3, 58-68	16
927	Experimental Investigation of the Corrosion Behavior of Friction Stir Welded AZ61A Magnesium Alloy Welds under Salt Spray Corrosion Test and Galvanic Corrosion Test Using Response Surface Methodology. 2013 , 2013, 1-17	4
926	Solution and ageing heat treatments of ZK60 magnesium alloys with rare earth additions produced by semi-solid casting. 2014 , 17, 1507-1512	11
925	Material Properties for Numerical Calculations. 2014 , 227-246	
924	Influence of Process Parameters on Microstructure of Friction Stir Processed Mg AZ31 Alloy. 2014 , 2, 47-58	
923	Effect of Processing Route and Working Temperature on Microstructure Evolution of AZ31 Magnesium Alloy During Equal Channel Angular Pressing. 2014 , 5, 841-846	1
922	Interfacial microstructure and mechanical properties of Al/Mg butt joints made by MIG welding process with Zn-Cd alloy as interlayer. 2014 , 29, 1258-1264	7
921	Preparation and characterization of the micro-arc oxidation composite coatings on magnesium alloys. 2014 , 2, 309-316	20
920	High cycle fatigue behavior of the forged Mg ₇₀ Gd ₁₀ Y ₁₀ Nd _{0.5} Zr alloy. 2014 , 2, 357-362	4
919	Deep drawability and drawing behaviour of AZ31 alloy sheets with different initial texture. 2014 , 615, 302-310	50

918	Co-zone {10012} Twin Interaction in Magnesium Single Crystal. 2014 , 2, 82-88	75
917	Transient liquid phase (TLP) brazing of MgAZ31 and Ti6Al4V using Ni and Cu sandwich foils. 2014 , 19, 333-342	25
916	Wear Behavior and Microstructural Evolution during Dry Sliding Wear of AZ51 Magnesium Alloy. 2014 , 1061-1062, 674-678	
915	First-principles investigation of the structural, electronic and elastic properties of Al2Ca and Al4Sr phases in Mg-Al-Ca(Sr) alloy. 2014 , 29, 1049-1056	4
914	Effect of Heat Input on Microstructure and Mechanical Properties of Joints Made by Bypass-Current MIG WeldingBrazing of Magnesium Alloy to Galvanized Steel. 2014 , 27, 1038-1045	12
913	Methods of segregation analysis applied to simulated multicomponent multiphase microstructures. 2014 , 105, 130-138	5
912	Grain Refinement Strengthening of Sm in AZ61 Alloy. 2014 , 716-717, 171-174	
911	Creep Properties of Mg-12Gd-3Y-1Sm-0.5Zr Alloy. 2014 , 881-883, 1370-1373	
910	Enhanced Dispersion Strengthening of Sm in Mg-10Y-0.5Sm Alloy. 2014 , 998-999, 51-54	
909	Effect of Holding Time on Microstructure and Mechanical Properties of Diffusion-Bonded Mg1/Pure Ag Foil/1060Al Joints. 2014 , 616, 280-285	2
908	Improvement on the Fatigue Performance of 2024-T4 Alloy by Synergistic Coating Technology. 2014 , 7, 3533-3546	28
907	Pitting corrosion behaviour of AZ31 magnesium in tropical marine atmosphere. 2014 , 49, 363-371	10
906	Effect of Thermal History on Microstructures and Mechanical Properties of AZ31 Magnesium Alloy Prepared by Friction Stir Processing. 2014 , 7, 1573-1589	41
905	Aging behavior of ECAP processed AZ80 Mg alloy. 2014 , 63, 012076	3
904	Effect of interlayer configurations on joint formation in TLP bonding of Ti-6Al-4V to Mg-AZ31. 2014 , 60, 012036	1
903	Anisotropic Strain-Hardening Behavior of Mg5%Sn1%Ca Alloy Sheet at Elevated Temperatures. 2014 , 136,	2
902	Effect of Pressure and Temperature of Solution Treatment on the Microstructure and Corrosion Resistance of AZ91D Alloy. 2014 , 628, 111-114	
901	Microstructure and Mechanical Properties of Magnesium Alloy AZ61with 1%Sn Addition. 2014 , 881-883, 1396-1399	

- 900 Effect of Boric Acid on the Properties of Magnesium Slag Powder. **2014**, 633, 218-224
- 899 The Deformation Behavior of Thermal Compression for ZK30 Magnesium Alloy. **2014**, 541-542, 12-17
- 898 Numerical modeling and experimental validation of curvilinear laser bending of magnesium alloy sheets. **2014**, 228, 1036-1047 12
- 897 The Effect of Annealing Conditions and Alloying Elements on the Microstructure Stability and Mechanical Properties of Mg-Zn-Cesheets. **2014**, 472, 937-947 1
- 896 Effects of Sm and Nd on Microstructure and Properties of AZ81 Magnesium Alloy. **2014**, 881-883, 1338-1341 0
- 895 Influence of Furnace Cooling Time on Precipitation of $\text{Mg}_{17}\text{Al}_{12}$ Phase of AZ91 Magnesium Alloy. **2014**, 884-885, 300-303 1
- 894 Microstructure and Mechanical Properties of Laminated Mg-Based Composites. **2014**, 941-944, 883-886
- 893 Fatigue Behaviour of AZ91 Magnesium Alloy in as-Cast and Severe Plastic Deformed Conditions. **2014**, 891-892, 397-402 4
- 892 Mechanical Properties Comparison of Different La Content in AZ91. **2014**, 620, 67-72 1
- 891 Edge states after wire brushing of magnesium alloys. **2014**, 86, 328-335 8
- 890 Tribological Properties of WC-12Co Coating on AZ91 Magnesium Alloy Fabricated by High Velocity Oxy-Fuel Spray. **2014**, 33, 41-48 6
- 889 Effect of rotation speeds on microstructures and tensile properties of submerged friction stir processed AZ31 magnesium alloy. **2014**, 18, S4-152-S4-156 8
- 888 Corrosion behavior of in situ (TiC-TiB₂)p/AZ91 magnesium matrix composites in Harrison solution. **2014**, 61, 319-327 1
- 887 Reducing bubbles in friction lap welded joint of magnesium alloy and polyamide. **2014**, 19, 578-587 45
- 886 Thermodynamic assessment of the Mg-Pb and Mg-Bi systems using substitutional solution and associate models for the liquid phase. **2014**, 50, 115-126 7
- 885 Effect of current density on the microstructure and corrosion resistance of microarc oxidized ZK60 magnesium alloy. **2014**, 9, 031009 6
- 884 Effect of Graphene Nanoplate and Silicon Carbide Nanoparticle Reinforcement on Mechanical and Tribological Properties of Spark Plasma Sintered Magnesium Matrix Composites. **2014**, 30, 1059-1070 69
- 883 Negatively charged ions on Mg(0001) surfaces: appearance and origin of attractive adsorbate-adsorbate interactions. **2014**, 113, 136102 17

882	Oxidation behaviour of AM50 magnesium alloy containing lanthanide elements. 2014 , 65, 582-592	5
881	Effect of Nd and Yb on the Microstructure and Mechanical Properties of Mg-Zn-Zr Alloy. 2014 , 43, 1809-1814	9
880	Effect of Grain Refiners and Casting Thickness on the Microstructure Development and Mechanical Properties of DSC-Cast AZ31B Magnesium Strips**. 2014 , 16, 399-405	
879	Fatigue of rare-earth containing magnesium alloys: a review. 2014 , 37, 831-853	30
878	Review on Hydrostatic Extrusion of Magnesium Alloys. 2014 , 788, 115-121	
877	Research Progress of Mg-Re Alloys. 2014 , 937, 178-181	6
876	Effects of Compound Treatment of Pulsed Magnetic Field and Mechanical Vibration on Solidified Structure of Mg97Y2Cu1 Alloy. 2014 , 1061-1062, 17-22	
875	Effect of Interlayer Thickness on Joint Formation Between Ti-6Al-4V and Mg-AZ31 Alloys. 2014 , 23, 4042-4054	17
874	Effects of solidification rate and Sb additions on microstructure and mechanical properties of as cast AM60 magnesium alloys. 2014 , 27, 80-86	7
873	Stress Behavior of AZ31 Magnesium Alloy Sheet Asymmetrical Accumulative Rolling-Bond Based on Simulation Analysis. 2014 , 711, 181-184	
872	Effect of CaO on Thermal Conductivities of Mg and Mg-Zn Alloys. 2014 , 783-786, 437-442	1
871	Recrystallization of AZ31 Alloy. 2014 , 783-786, 497-502	
870	Research Progress of Y, Gd on Mechanical Properties of AZ-Series Magnesium Alloys. 2014 , 488-489, 167-169	1
869	Diffusion Mechanism and Kinetics of Diffusion Bonded Mg/Ni/Al Joint. 2014 , 616, 286-290	
868	Microstructure and corrosion behaviour of Mg ₉₂ Gd ₃ Y ₃ Zn ₂ Zr (at-%) alloy processed by equal channel angular pressing. 2014 , 49, 316-320	2
867	Effects of Nd on Mechanical Properties of Magnesium Alloy AZ91. 2014 , 488-489, 256-259	
866	Hot Compression Deformation Behavior of Mg-Gd-Y-Zn-Zr Alloy. 2014 , 680, 15-22	2
865	Microstructure evolution and mechanical properties of twinned AZ31 alloy plates at lower elevated temperature. 2014 , 615, 687-692	50

- 864 Microstructure evolution and anisotropy in Mg₇₀Gd₅Y₁₀Nd₁₀Zr alloy (EW75) fabricated by normal and cross-rolling. **2014**, 18, S4-183-S4-186
- 863 Friction Stir and Gas Tungsten Arc Welding of ZM21 Magnesium Alloy. **2014**, 909, 77-82
- 862 Microstructure and Mechanical Properties of Ultrafine-Grained Magnesium AZ91 Alloy. **2014**, 782, 384-389 3
- 861 Forming of Seat Bidet by AZ31 Magnesium Alloy through Stamping Process. **2014**, 788, 103-109 2
- 860 Wear Resistance of NiCoCrAlY Alloy Coating by Cold Spraying. **2014**, 898, 47-50
- 859 Deep Drawing and Bulging Processes of Hard-Deformed Light Alloy Sheet with Resistance Heating. **2014**, 541-542, 268-272
- 858 Corrosion Characterization of Magnesium Alloys The Role of Process Parameters. **2014**, 783-786, 346-351
- 857 Effect of Rare Earth Elements on Microstructure and Mechanical Properties of AZ91D Alloy. **2014**, 960-961, 87-91
- 856 A Review of Dissimilar Welding Techniques for Magnesium Alloys to Aluminum Alloys. **2014**, 7, 3735-3757 155
- 855 Microstructure and Mechanical Properties of Mg-Y-Sm-Ca Alloys. **2014**, 488-489, 197-200
- 854 Improving the Mechanical Properties of Friction Stir Welded AZ31B Magnesium Alloy Flat Plates through Axial Force Investigation. **2014**, 591, 11-14 12
- 853 Effects of WC12Co Content on Wear Behavior of NiCoCrAlY Coating by Cold Gas Dynamic Spraying. **2014**, 1004-1005, 747-750
- 852 Damping behaviors of as-cast and solution-treated AZ91Ca magnesium alloys. **2014**, 610, 169-172 19
- 851 Effect of process parameters on microstructure and properties of AM50A magnesium alloy parts formed by double control forming. **2014**, 24, 321-333 10
- 850 Ultrafine grain structure features in spray-formed AZ31 magnesium alloy. **2014**, 60, 21-25 6
- 849 Joining of aluminum and magnesium via pre-roll-assisted A-TIG welding with Zn interlayer. **2014**, 122, 49-51 26
- 848 The interaction of precipitation and deformation in a binary MgCa alloy at elevated temperatures. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 609, 116-124 5:3 3
- 847 Calcium orthophosphate coatings on magnesium and its biodegradable alloys. **2014**, 10, 2919-34 220

846	Corrosion behavior of friction stir welded AZ31B magnesium alloy with plasma electrolytic oxidation coating formed in silicate electrolyte. 2014 , 144, 462-469	31
845	Crystal plasticity based constitutive model for uniaxial ratchetting of polycrystalline magnesium alloy. 2014 , 84, 63-73	20
844	Characterisation of fresh surface films formed on molten MgNd alloy protected by different atmospheres. 2014 , 301, 91-98	13
843	Anisotropy of the extruded and heat-treated Li containing AZ31 magnesium alloys. 2014 , 590, 233-240	16
842	Characterization of hot deformation behavior of extruded ZK60 magnesium alloy using 3D processing maps. 2014 , 56, 889-897	75
841	First-principles study of the properties of Li, Al and Cd doped Mg alloys. 2014 , 596, 63-68	20
840	A mechanism-dependent material model for the effects of grain growth and anisotropy on plastic deformation of magnesium alloy AZ31 sheet at 450 °C. 2014 , 68, 254-266	25
839	Microstructure, mechanical and corrosion properties of MgDyZn (x=0, 0.1, 0.5 and 1 at.%) alloys. 2014 , 2, 64-71	37
838	Elimination of yielding asymmetry in extruded AZ80 alloy by ageing. 2014 , 24, 915-921	5
837	Investigating the effect of quench environment and deep cryogenic treatment on the wear behavior of AZ91. 2014 , 54, 154-160	42
836	Strengthening Precipitate, Thermal Stability, and Mechanical Properties of Melt-Spun Mg-8Gd-3Nd Alloy. 2014 , 23, 250-254	4
835	Experimental Study on the Perforation Process of 5754-H111 and 6082-T6 Aluminium Plates Subjected to Normal Impact by Conical, Hemispherical and Blunt Projectiles. 2014 , 54, 729-742	42
834	Control of the Mechanical Asymmetry in an Extruded MN11 Alloy by Static Annealing. 2014 , 45, 3282-3291	9
833	Dry Sliding Wear Characteristics of Gravity Die-Cast Magnesium Alloys. 2014 , 45, 2270-2283	17
832	Texture evolution during annealing of AZ31 Mg alloy rolled sheet and its effect on ductility. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 599, 1-8	5.3 19
831	First-principles investigation of the binary intermetallics in MgAlBr alloy: Stability, elastic properties and electronic structure. 2014 , 86, 24-29	29
830	Microstructural evolution of cerium-based coatings on AZ31 magnesium alloys. 2014 , 246, 77-84	18
829	Hot shear deformation constitutive analysis and processing map of extruded Mg2LiZn bcc alloy. 2014 , 53, 534-539	41

828	Microstructure evolution during high strain rate tensile deformation of a fine-grained AZ91 magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 590, 80-87	5-3	31
827	Mechanical, electronic and thermodynamic properties of Mg ₂ Ca Laves phase under high pressure: A first-principles calculation. 2014 , 88, 61-70		26
826	Formability of magnetic pulse uniaxial tension of AZ31magnesium alloy sheet. 2014 , 72, 665-676		9
825	The Effect of Nd on the Tension and Compression Deformation Behavior of Extruded Mg-1Mn (wt pct) at Temperatures Between 298 K and 523 K (25 °C and 250 °C). 2014 , 45, 3254-3274		15
824	Microstructure and mechanical properties of a sand-cast MgNdZn alloy. 2014 , 58, 324-331		41
823	Influence of plasma electrolytic oxidation on fatigue performance of AZ61 magnesium alloy. 2014 , 82, 58-66		48
822	Dependence of compressive deformation on pre-strain and loading direction in an extruded magnesium alloy: Texture, twinning and de-twinning. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 596, 134-144	5-3	50
821	Deep drawability and deformation behavior of AZ31 magnesium alloy sheets at 473 K. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 608, 234-241	5-3	23
820	Determination of the chemical mechanism of chromate conversion coating on magnesium alloys EV31A. 2014 , 298, 199-207		35
819	Effects of hot rolling and inter-stage annealing on the microstructure and texture evolution in a partially homogenized AZ91 magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 606, 214-227	5-3	25
818	Effects of precipitates on grain size and mechanical properties of AZ31-x%Nd magnesium alloy. 2014 , 32, 451-457		20
817	Experimental Investigation and Thermodynamic Modeling of the Nd-Zr and the Mg-Nd-Zr Systems. 2014 , 45, 2708-2718		6
816	Particle evolution in MgZnZr alloy processed by integrated extrusion and equal channel angular pressing: Evaluation by electron microscopy and synchrotron small-angle X-ray scattering. 2014 , 72, 110-124		22
815	Mechanical properties and precipitate behavior of Mg9Al1Zn alloy processed by equal-channel angular pressing and aging. 2014 , 594, 182-188		44
814	Texture evolution and dynamic mechanical behavior of cast AZ magnesium alloys under high strain rate compressive loading. 2014 , 61, 26-34		69
813	Plasma modified MgNdZnZr alloy with enhanced surface corrosion resistance. 2014 , 78, 121-129		65
812	Heat Treatment of AZ91D Mg-Al-Zn Alloy: Microstructural Evolution and Dynamic Response. 2014 , 66, 312-321		13
811	Effect of submicron size SiC particles on microstructure and mechanical properties of AZ31B magnesium matrix composites. 2014 , 54, 436-442		45

810	Phase equilibria of the Mg–Al–Nd system at 500°C. 2014 , 585, 384-392		9
809	Thermodynamic investigations in the solid state of the lanthanum–magnesium–zinc system. 2014 , 45, 46-52		6
808	Discerning size effect strengthening in ultrafine-grained Mg thin films. 2014 , 75, 10-13		22
807	Structure and corrosion behavior of oxide layer with Zr compounds on AZ31 Mg alloy processed by two-step plasma electrolytic oxidation. 2014 , 238, 75-79		27
806	A hierarchical multi-scale model for hexagonal materials taking into account texture evolution during forming simulation. 2014 , 82, 464-475		12
805	ZK60 alloy processed by ECAP: Microstructural, physical and mechanical characterization. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 594, 32-39	5-3	51
804	First-principles simulations of plasticity in body-centered-cubic magnesium–thium alloys. 2014 , 64, 198-207		29
803	Microstructure evolution and mechanical properties of an ultra-high strength casting Mg–5.6Gd–0.8Ag–0.4Zr alloy. 2014 , 615, 703-711		73
802	Experimental investigation on finish intermittent turning of UNS M11917 magnesium alloy under dry machining. 2014 , 75, 1417-1429		31
801	Processing, Microstructures, and Mechanical Properties of Magnesium Matrix Composites: A Review. 2014 , 27, 762-774		55
800	Experimental investigation and thermodynamic description of the Mg–Zr system. 2014 , 49, 7124-7132		5
799	The Effect of Indium Additions on Mg–Li and Mg–Li–Al Alloys. 2014 , 45, 55-59		7
798	Fabrication and mechanical properties of pressureless melt infiltrated magnesium alloy composites reinforced with TiC and Ti ₂ AlC particles. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 618, 511-522	5-3	42
797	Impression creep behavior of the extruded Mg–Zn–0.5Ca and Mg–Zn–0.5Ca–RE alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 616, 161-170	5-3	14
796	Studying microstructure and mechanical properties of SiC-incorporated AZ31 joints fabricated through FSW: the effects of rotational and traveling speeds. 2014 , 75, 1189-1196		30
795	Twin-Roll-Casting and Hot Rolling of Magnesium Alloy WE43. 2014 , 81, 1553-1558		6
794	Magnesium biomaterials for orthopedic application: a review from a biological perspective. 2014 , 102, 1316-31		184
793	The anisotropy and diverse mechanical properties of rolled Mg–3% Al–1% Zn alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 618, 523-532	5-3	10

792	Microstructure, Mechanical Properties and Compressive Creep Behavior of as-Cast Mg-5Sn-(0~2)Cu Alloys. 2014 , 43, 1291-1295		2
791	Critical Assessment 6: Magnesium sheet alloys: viable alternatives to steels?. 2014 , 30, 1925-1928		84
790	Effects of heat treatment on microstructure and mechanical properties of Mg _{0.6} Sm _{0.3} Gd _{0.6} Zn _{0.5} Zr alloy. 2014 , 30, 261-267		12
789	Effect of annealing temperature on the microstructure and mechanical properties of an as-rolled Mg-9wt.%Li-3wt.%Al-1wt.%Zn alloy sheet. 2014 , 8, 271-280		8
788	Influence of electron beam liquid phase surface treatments on the corrosion resistance of AZ91D using different additive deposition techniques. 2014 , 88, 109-117		6
787	Properties of a ZK60 magnesium alloy processed by high-pressure torsion. 2014 , 613, 357-363		80
786	Exploring the possibility of protective surface oxides upon Mg alloy AZ31 via lutetium additions. 2014 , 89, 101-110		23
785	Development of novel heating tool friction stir spot welding (HT-FSSW) for AZ31 magnesium alloy. 2014 , 19, 369-375		10
784	Experimental and simulation analysis of texture formation and deformation mechanism of rolled AZ31B magnesium alloy under dynamic loading. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 618, 310-322	5-3	20
783	Low-temperature electrical resistivity and thermal conductivity of binary magnesium alloys. 2014 , 80, 288-295		48
782	Effect of rolling reduction on microstructure, texture, mechanical properties and mechanical anisotropy of AZ31 magnesium alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 612, 208-213	5-3	50
781	Improving properties of Mg with AlCu additions. 2014 , 95, 140-147		21
780	Microstructure based modeling of β phase influence on mechanical response of cast AM series Mg alloys. 2014 , 92, 353-361		10
779	Preparation and corrosion resistance of cerium conversion coatings on AZ91D magnesium alloy by a cathodic electrochemical treatment. 2014 , 254, 42-48		25
778	Forming limit diagrams of twin-roll cast, rolled and heat-treated AZ31 as a function of temperature and loading rate. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 614, 27-35	5-3	17
777	Cyclic deformation and fatigue of extruded ZK60 magnesium alloy with aging effects. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 615, 262-272	5-3	35
776	Investigation of deformation dynamics in a wrought magnesium alloy. 2014 , 62, 105-120		68
775	Effects of texture on anisotropy of mechanical properties in annealed Mg _{0.6} Zr _{0.0} Cd sheets by unidirectional and cross rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 615, 324-330	5-3	25

774	Effect of Ag addition on the elevated-temperature mechanical properties of an extruded high strength Mg ₉₀ Gd ₇ Y ₃ Zr alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 614, 62-66	5-3	25
773	Effects of Artificial Aging and Precipitation on Tensile Mechanical Properties and Failure Mechanism of the Friction Stir Processed Dual-phase Mg-Li Alloy. 2014 , 75, 88-92		2
772	Strain-hardening and warm deformation behaviors of extruded Mg ₉₀ Ni ₁₀ alloy sheet. 2014 , 2, 116-123		23
771	Effects of fabrication methods on deformability and microstructure of Mg ₉₀ Sn ₁₀ wrought alloy. 2014 , 24, s68-s74		1
770	Quick surface treatment of AZ31B by AC micro-arc oxidation. 2014 , 29, 773-779		3
769	Microstructures and mechanical properties of the age hardened Mg ₉₀ .2Y _{0.5} Nd ₁ Gd _{0.6} Zr (WE43) microalloyed with Zn. 2014 , 2, 109-115		45
768	Effects of Compression-Pass on Microstructure and Mechanical Properties of AZ80 Alloy. 2014 , 23, 3407-3411		3
767	Superplastic behavior of a severely deformed Mg ₉₀ Gd ₇ Y ₃ .5Ag alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 802, 140616	5-3	6
766	An Insight Into Magnesium Based Metal Matrix Composites With Hybrid Reinforcement. 2021 , 52-77		1
765	Effect of reinforcement on magnesium-based composites fabricated through stir casting: A review. 2021 , 46, 6513-6518		2
764	FRICION STIR WELDING OF SIMILAR AZ91 MG ALLOY SHEETS: STUDIES ON MICROSTRUCTURE AND MECHANICAL PROPERTIES. 2021 , 11, 16		
763	Hard-porous-lightweight PM Fe-Cr-Al ₂ O ₃ MMCs sintered under hybrid microwave energy. 2021 ,		
762	Tribology performance of laser-peened MB8 magnesium alloy under different working conditions. 2021 , 112, 1661-1673		0
761	TECHNOLOGY AND APPLICATIONS OF GRAPHENE OXIDE MEMBRANES. 2021 , 28, 2140004		2
760	Microstructure and mechanical properties of Mg-2Zn-0.3Ca-0.5La magnesium alloy extruded with different temperatures. 2021 , 8, 026511		
759	Anisotropy in the tensile creep behaviors of a hot-rolled Mg-5.5wt%Y alloy sheet. 2021 , 172, 110843		7
758	Study of an Mg ₉₀ Y ₇ Zn ₃ alloy (WZ73) in sodium chloride solution [An analysis by correlated polarization and climate chamber testing. e12372		
757	Characterization on the formation of porosity and tensile properties prediction in die casting Mg alloys. 2021 ,		2

756	Microstructural Stability and Mechanical Behavior of Pure Mg After One-Pass Equal Channel Angular Pressing Plus Intersection Annealing. 2021 , 30, 2374-2380		0
755	Effect of Weld Currents on Microstructure, Corrosion Behavior of AZ31 Magnesium Alloy. 2021 , 7, 1		
754	Adjustment of the Mechanical Properties of Mg ₂ Nd and Mg ₂ Yb by Optimizing Their Microstructures. 2021 , 11, 377		1
753	Comprehensive study on quasi-static and dynamic mechanical properties and wear behavior of MgB ₄ C composite compacted at several loading rates through powder metallurgy. 2021 , 31, 371-381		5
752	Recent progress in superhydrophobic and superamphiphobic coatings for magnesium and its alloys. 2021 , 9, 748-748		20
751	Mechanism of high-strength and ductility of Mg-RE alloy fabricated by low-temperature extrusion and aging treatment. 2021 , 199, 109384		15
750	Effect of Equal Channel Angular Pressing on Microstructure and Mechanical Properties of ZK60 Alloy. 2021 , 1798, 012023		0
749	Effect of post-weld heat treatment on mechanical properties of local weld-affected zones in friction stir welded AZ31 plates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 805, 140809	5-3	8
748	Superplasticity of the fine-grained friction stir processed Mg ₉₇ Gd ₃ Zn sheets. 2021 , 172, 110902		7
747	Microstructure, texture evolution and yield strength symmetry improvement of as-extruded ZK60 Mg alloy via multi-directional impact forging. 2021 ,		4
746	Improved Corrosion Behavior of AZ31 Alloy through ECAP Processing. 2021 , 11, 363		12
745	Microstructural and Corrosion Properties of Hydroxyapatite Containing PEO Coating Produced on AZ31 Mg Alloy. 2021 , 14,		4
744	Microstructure and texture evolution during compression-extrusion process for tension/compression symmetrical ZK61 magnesium alloy rod. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 806, 140807	5-3	5
743	Ab initio investigations of the interfacial bond of Fe(001)/Al(001). 2021 , 26, 102107		1
742	Effect of annealing temperature and cutting angle of specimens on metallurgical and mechanical properties of Mg-7Li-1Zn alloy via Taguchi approach and response surface analysis. 2021 , 1126, 012044		2
741	The Sclerometrical, Mechanical, and Wear Behavior of Mg-Y-Nd Magnesium Alloy after Deep Cryogenic Treatment Combined with Heat Treatment. 2021 , 14,		1
740	Fabrication of fine-grained, high strength and toughness Mg alloy by extrusion-heating process. 2021 , 31, 666-678		3
739	Wear and Corrosion Behavior of Cryogenic Friction Stir Processed AZ31B Alloy. 2021 , 30, 3118-3128		2

738	Evolutions of Mechanical Properties and Macro Textures of AZ91D sheets by Hot Rolling and Subsequent Annealing. 2021 , 1121, 012004	
737	Hot Deformation Behavior and Processing Map of a Novel Dilute Extruded Mg-Zn-Gd-Y-Nd Alloy. 2021 , 1, 74-82	
736	Phase Formation, Microstructure and Mechanical Properties of Mg ₆₇ Ag ₃₃ as Potential Biomaterial. 2021 , 11, 461	
735	The microstructure and mechanical properties of Mg-Gd-Y-Zn-Zr system and Mg-Gd-Y-Zr system alloys by RUE deformation. 2021 , 8, 036504	1
734	Influence of strain path change on static recrystallisation behaviour of an extruded pure magnesium. 2021 , 101, 1364-1379	
733	Influence of ZnO on thermal control property and corrosion resistance of plasma electrolytic oxidation coatings on Mg alloy. 2021 , 409, 126905	7
732	Corrosion behavior of GeO ₂ and Sc ₂ O ₃ Coatings on AZ31 Alloy. 2021 , 37, 433-439	0
731	Friction stir welding of AZ31 magnesium alloy: A review. 2021 ,	2
730	The role of basal slip in the generation of intergranular stresses in magnesium alloy studied using X-ray diffraction and modelling. 2021 , 202, 109543	3
729	A crystal plasticity investigation of grain size-texture interaction in magnesium alloys. 2021 , 208, 116743	9
728	Experimental Study on the Elastic-Plastic Transitions of the Hetero-structured High Pressure Die Casting Mg-Al-RE Alloy. 1	0
727	Strength and corrosion resistance of Al-alloying layer on AZ31B magnesium alloy fabricated in situ by reactive friction stir processing. 2021 , 174, 111024	3
726	Mechanical behavior and wear characteristics of fine grained ZE41 magnesium alloy. 2021 , 52, 392-399	0
725	Sodium tripolyphosphate as a selective depressant for separating magnesite from dolomite and its depression mechanism. 2021 , 382, 244-253	5
724	Study of the performance parameters of friction stir welded magnesium AZ31B alloy at optimized process parameters. 095440622199240	
723	Lamellar Structure Stability of a Two-Phase Mg/C14Mg ₂ Ca Alloy. 2021 , 62, 544-550	3
722	Dynamic recrystallization of a wrought magnesium alloy: Grain size and texture maps and their application for mechanical behavior predictions. 2021 , 202, 109562	8
721	Review on cyclic plasticity of magnesium alloys: Experiments and constitutive models. 2021 , 28, 567-589	11

7 ²⁰	Towards Understanding Relationships between Tension Property and Twinning Boundaries in Magnesium Alloy. 2021 , 11, 745	1
7 ¹⁹	Enhancing the creep resistance of a dilute Mg-1.5 wt%Nd alloy plate via pre-compression and subsequent peak-aging. 2021 , 861, 158590	2
7 ¹⁸	Effects of Zn addition on precipitation behavior and mechanical properties of Mg-5Ga alloy. 2021 , 291, 129495	3
7 ¹⁷	Electrochemical performance in seawater and microstructural evolution of friction stir welded joints of dissimilar AA1050 and AZ91D. 2021 , 52, 492-502	0
7 ¹⁶	Improving Wear and Corrosion Properties of Magnesium Alloy by Cold Sprayed Nano WC-17Co Coating. 2021 , 43, 213-221	0
7 ¹⁵	Simulation of deformation and fracture initiation during equal channel angular pressing of AZ31 magnesium alloy with covered tube casing. 2021 , 12, 1913-1923	1
7 ¹⁴	High strength WE43 microlattice structures additively manufactured by laser powder bed fusion. 2021 , 16, 101067	6
7 ¹³	Role of La addition for enhancing the corrosion resistance of MgDy alloy. 2021 , 56, 575-583	1
7 ¹²	Microstructures and mechanical properties of as-extruded MgBdYZnLi alloy. 2021 , 864, 158826	5
7 ¹¹	Establishment of flow stress model and optimization of process parameters for ZK10 magnesium alloy with low zinc-content during isothermal compression. 2021 , 12, 569-580	0
7 ¹⁰	Effects of Zn Interlayer on Microstructures and Mechanical Properties of TC4/AZ91D Bimetal via SolidLiquid Compound Casting Process. 1	0
7 ⁰⁹	Study of Fabrication and Mechanical Characterization of Magnesium Metal Matrix Composites. 2021 , 1149, 012006	
7 ⁰⁸	Corrosion behaviour of Mg-Gd-Y-Zn-Ag alloy components with different sizes after cooling. 2021 , 31, 1291-1302	2
7 ⁰⁷	On the role of slip, twinning and detwinning in magnesium alloy AZ31B sheet. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 813, 141152	5-3 8
7 ⁰⁶	Effect of Pre-Extrusion on the Microstructure and Properties of Forged MgAlZnFe Alloy. 2021 , 23, 2001459	1
7 ⁰⁵	Dynamic thermomechanical behavior of fine-grained Mg alloy AMX602. 2021 , 16, 101096	0
7 ⁰⁴	Optimization of processing temperature and back pressure of equal channel angular pressing for achieving crack-free fine grained magnesium. 2021 , 47, 4611-4611	0
7 ⁰³	Microstructure Evolution and Mechanical Properties of Mg-Gd-Y-Zn-Zr Alloy Deformed by Multi-Directional Forging with Decreasing Temperature. 1035, 10-16	1

702	Characterization and optimization of influence of MoS ₂ hybridization on tribological behaviours of MgB ₄ C composites. 2021 , 44, 1		3
701	High-strength and high-modulus Al ₁₈ B ₄ O ₃₃ W/GWZ1031K magnesium matrix composite prepared by squeeze casting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 817, 141393	5-3	1
700	Design of a Mg-7Li-2.6Al-0.4Si alloy with simultaneously improved strength and ductility. 2021 , 27, 102244		1
699	Microstructure and Mechanical Properties of AZ31B Magnesium Alloy via Ultrasonic Surface Rolling Process. 2021 , 23, 2100076		2
698	Effect of Al Addition on Microstructure and Tensile Properties of Mg-8Li-3Al Alloy. 2021 , 73, 2558		3
697	Microstructure, texture, and mechanical properties of the extruded and multi-directionally forged Mg-Gd alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 817, 141385	5-3	5
696	Improving the Corrosion Behavior of Biodegradable AM60 Alloy through Plasma Electrolytic Oxidation. 2021 , 11, 953		6
695	Low-Cycle Fatigue Behavior of Hot-Bent Basal Textured AZ31B Wrought Magnesium Alloy. 2021 , 11, 1004		2
694	Efficiency and Sustainability Analysis of the Repair and Maintenance Operations of UNS M11917 Magnesium Alloy Parts of the Aeronautical Industry Made by Intermittent Facing. 2021 , 11, 1035		
693	Tensile and Fatigue Properties of Twin-Roll-Cast AZ31 Magnesium Alloy Strips with Different Thicknesses. 1034, 9-15		1
692	Simulation of dynamic recrystallization behavior of hot extruded Mg-Zn-Y-Nd alloy tubes by the finite element method. 2021 , 27, 102384		0
691	Addressing the abnormal grain coarsening during post-weld heat treatment of TIG repair welded joint of sand-cast Mg-Y-RE-Zr alloy. 2021 , 176, 111125		4
690	Effects of Yttrium Content on the Three-Dimensional Compressive Creep Anisotropy of Mg-Y Alloys. 2021 , 52, 3910-3930		5
689	Hot Deformation Behavior of Ultralight Dual-Phase Mg-6Li Alloy: Constitutive Model and Hot Processing Maps. 2021 , 11, 911		1
688	Wire Arc Additive Manufacturing: A Comprehensive Review and Research Directions. 2021 , 30, 4768-4791		10
687	Stacking-fault mediated plasticity and strengthening in lean, rare-earth free magnesium alloys. 2021 , 211, 116877		4
686	Microstructure and mechanical properties of pure magnesium prepared by CEE-AEC at different temperatures. 2021 , 8, 066511		
685	Formation of Intermetallic Compounds in a Cold-Sprayed Aluminum Coating on Magnesium Alloy Substrate after Friction Stir-Spot-Processing. 2021 , 30, 1464-1481		1

684	Additively Manufactured Magnesium-Based Bio-Implants and their Challenges. 1	2
683	Precipitate Characteristics and Mechanical Performance of Cast Mg ₉₉ RE ₁ Zn _{0.3} Ca _{0.3} Zr (x = 0 and 0.4 wt%) Alloys. 1	0
682	Promising Methods for Corrosion Protection of Magnesium Alloys in the Case of Mg-Al, Mg-Mn-Ce and Mg-Zn-Zr: A Recent Progress Review. 2021 , 11, 1133	4
681	Research Progress on Corrosion Resistance of Magnesium Alloys with Bio-inspired Water-repellent Properties: A Review. 2021 , 18, 735-763	5
680	Improving Corrosion Resistance of Magnesium Alloy in Cl Containing Simulated Concrete Pore Solution by Ultrasound-Assisted Chemical Deposition. 2021 , 2021, 5462741	1
679	Effects of temperature and strain rate on the tension-compression asymmetric plastic deformation behavior of ME20M magnesium alloy: Experiments and modeling. 2021 , 26, 104406	1
678	Investigation on the Phase Relationship and Solidification Processes of Mg-rich Mg-Mn-Y Alloys. 2021 , 42, 441-451	0
677	Effects of fluoride ions as electrolyte additives for a PEO/Ni-P composite coating onto Mg alloy AZ31B. 2021 , 417, 126883	6
676	Lean Wrought Magnesium Alloys. 2021 , 14,	1
675	Mechanistic Understanding of the Corrosion Behaviors of AZ31 Finished by Wire Electric Discharge Machining. 2021 , 168, 071507	1
674	Applications of Magnesium and Its Alloys: A Review. 2021 , 11, 6861	15
673	Thermal oxidation and its effect on the wear of Mg alloy AZ31B. 2021 , 476, 203673	2
672	Deformation mechanisms of basal slip, twinning and non-basal slips in Mg alloy by micropillar compression. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 819, 141408	5-3
671	Microstructure and elevated temperature mechanical properties of Mg-6Gd-3Y-0.5Zr alloy cast by PEPBET sand mold. 2021 , 112, 546-551	0
670	Effect of friction stir process on the microstructure and corrosion behavior of AZ91 Mg alloy. 2021 , 267, 124672	2
669	Formability of Tri-layered IF240/AZ31/IF240 Composite with Strong Bonding: Experimental and Finite Element Modeling. 2021 , 30, 8402	0
668	Extrusion limit diagram of AZ91 _{0.9} Ca _{0.6} Y _{0.5} Mg alloy and effects of extrusion parameters on its microstructure and mechanical properties. 2021 ,	1
667	Investigation on the role of microstructure and temperature on tribological characteristics of fine-grained ZE41 Mg alloy. 1-8	0

666	On the evolution of microstructure, texture and corrosion behavior of a hot-rolled and annealed AZ31 alloy. 2021 , 267, 124598	10
665	The composition-dependent oxidation film formation in Mg-Li-Al alloys. 2021 , 187, 109508	3
664	Effect of Ca Addition on Corrosion Behavior of Wrought AM60 Magnesium Alloy in Alkaline Solutions. 2021 , 11, 1172	2
663	Bioinspired fish-scale-like magnesium composites strengthened by contextures of continuous titanium fibers: Lessons from nature. 2021 ,	0
662	Fabrication of Magnesium-Aluminum Composites under High-Pressure Torsion: Atomistic Simulation. 2021 , 11, 6801	2
661	Investigation of the Influence of Open-Die Forging Parameters on the Flow Kinetics of AZ91 Magnesium Alloy. 2021 , 14,	2
660	Long-term corrosion protection for magnesium alloy by two-layer self-healing superamphiphobic coatings based on shape memory polymers and attapulgite. 2021 , 594, 836-847	13
659	An atomic scale characterization of a novel basal plate with a close-packed structure in Mg-Nd-In alloys. 2021 , 178, 111280	3
658	Effects of precipitate origin and precipitate-free zone development on the tensile creep behaviors of a hot-rolled Mg-13wt%Gd binary alloy. 2021 , 178, 111303	2
657	Surface moderation and composite fabrication of die-cast magnesium alloys via friction stir processing: a review. 1-21	1
656	Material Flow Behavior and Microstructure Evolution During Direct Hot-Press Bonding of Ti/Mg Laminates with Interlocking Structure. 2021 , 23, 2100343	
655	Effect of multiaxial deformation on structure, mechanical properties, and corrosion resistance of a Mg-Ca alloy. 2021 ,	1
654	Sodium dodecyl sulfate (SDS) as an effective corrosion inhibitor for Mg-8Li-3Al alloy in aqueous NaCl: A combined experimental and theoretical investigation. 2021 ,	1
653	Study on Microstructure and Mechanical Property in Mg-Gd-Y Alloy by Secondary Extrusion Process. 2021 , 11, 939	1
652	Revealing the structure and evolution of entrained oxide film in Mg ₉₇ alloy castings. 2021 , 56, 16671-16685	
651	Effective control of microstructure evolution in AZ91D magnesium alloy by SiC nanoparticles in laser powder-bed fusion. 2021 , 206, 109787	7
650	MgPt: Anionic Chains in a EuGa-Type Structure. 2021 , 60, 13681-13690	1
649	Microstructure, texture, and fracture of pure magnesium adiabatic shear band under high strain rate compression. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 822, 141632	5-3 7

648	Opportunities of combinatorial thin film materials design for the sustainable development of magnesium-based alloys. 2021 , 11, 17454	2
647	Designing highly ductile magnesium alloys: current status and future challenges. 1-88	4
646	Balancing the strength and ductility of Mg-6Zn-0.2Ca alloy via sub-rapid solidification combined with hard-plate rolling. 2021 , 81, 219-228	8
645	Improvement in mechanical properties of structural AZ91 magnesium alloy processed by friction stir processing. 1-14	0
644	Effect of Al content on microstructure, thermal conductivity, and mechanical properties of Mg-Al-Mn alloys. 2021 , 36, 3145-3154	2
643	Hot Compressive Deformation Behavior and Microstructure of LZ31 Magnesium-Lithium Alloy. 1	0
642	Influence of yttrium-induced twinning on the recrystallization behavior of magnesium alloys. 2021 , 56, 18258-18271	1
641	Improved corrosion response of squeeze-cast AZ91 magnesium alloy with calcium and bismuth additions. 2021 , 873, 159600	4
640	Apoptosis-like death-inducing property of tachyplesin I in Escherichia coli. 2021 , 61, 795-807	0
639	INVESTIGATION ON DRY SLIDING WEAR BEHAVIOR OF TITANIUM DIOXIDE-REINFORCED MAGNESIUM MATRIX COMPOSITE. 2150106	0
638	Characterization of microstructure and corrosion properties of AZ91D magnesium alloy surface-treated by coating-nitriding. 2021 , 14, 1559-1568	1
637	Development of Mg-Zn-Zr casting magnesium alloy with high thermal conductivity. 2021 , 9, 1567-1577	5
636	Impact of processing parameters in plasma electrolytic oxidation on corrosion resistance of magnesium alloy type AZ91. e12459	1
635	New approach to formation of coatings on Mg-Mn-Ce alloy using a combination of plasma treatment and spraying of fluoropolymers. 2021 ,	3
634	Effect of Susceptors on Joining of AA6061-T6 to AZ31B by Microwave Hybrid Heating. 1	1
633	Research on solidification behavior of selective laser melted Mg-Y-Sm-Zn-Zr alloy: From molten pool to cubic sample. 2021 , 28, 102517	1
632	An experimental and theoretical investigation of the effect of second-phase particles on grain growth during the annealing of hot-rolled AZ61 magnesium alloy. 2021 , 15, 3585-3585	2
631	Towards revealing the relationship between deformation twin and fatigue crack initiation in a rolled magnesium alloy. 2021 , 179, 111362	2

630	Effect of crystallization on purity of volatile metallic magnesium prepared from a one-step multi-region condensation process under vacuum condition. 2021 ,		2
629	The mechanical behavior of single crystal and polycrystalline pure magnesium. 2021 , 163, 104078		2
628	Fabrication, microstructure, and thermal conductivity of multilayered Cu mesh/AZ31 Mg foil composites. 2021 , 14, 1539-1550		1
627	Effect of adding Y and Ce on corrosion behaviour of the extruded ZK60 magnesium alloy. 1-6		0
626	Image Texture Description, Surface-Grains Structure Morphology and Prediction of Wear Parameters for Mg/B4C Composites Using Response Surface Methodology. 1		0
625	Influence of ultrasonic vibration on the microstructure and texture evolution of AZ91 magnesium alloy during ultrasonic-assisted friction stir welding. 1		1
624	Study on mechanical properties and microstructure for three compounds of Al-Sn-Mg ternary alloys. 1-12		
623	Effect of cerium-based conversion coating on corrosion behavior of squeeze cast Mg-4wt% Y alloy in 0.1M NaCl solution. 2021 , 421, 127451		9
622	Electronic work function, surface energy and electronic properties of binary Mg-Y and Mg- Al alloys: A DFT study. 2021 , 712, 121880		2
621	Study of welding behavior of novel dual-phase Mg alloy by friction stir method. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 827, 142049	5-3	0
620	Precipitate characteristics and their effects on the mechanical properties of as-extruded Mg-Gd-Li-Y-Zn alloy. 2021 , 88, 21-35		5
619	Loading dependence and tension-compression asymmetry of deformation twinning in textured Mg-3Al-1Zn alloy: A multiscale synchrotron X-ray study. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 826, 141987	5-3	1
618	Effect of Sn addition on the deformation behavior and microstructural evolution of Mg-Gd-Y-Zr alloy during hot compression. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 826, 142026	5-3	5
617	{101 $\bar{2}$ } Twin interface structure and energetics in HCP materials. 2021 , 219, 117256		5
616	Pre-twinned magnesium for improved ballistic performance. 2021 , 161, 104005		9
615	Electrophoretic (EPD) coatings for magnesium alloys. 2021 , 103, 358-372		5
614	Sol-gel coatings doped with graphene nanoplatelets for improving the degradation rate and the cytocompatibility of AZ31 alloy for biomedical applications. 2021 , 426, 127745		2
613	Real-time in situ observation of the corrosion process of die-cast AZ91D magnesium alloy in NaCl solutions under galvanostatic polarization. 2021 , 192, 109834		0

612	Investigation of shear and tensile mechanical properties of ZK60 Mg alloy sheet processed by rolling and sheet extrusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 828, 142098	5-3	3
611	Machine learning to predict aluminum segregation to magnesium grain boundaries. 2021 , 204, 114150		2
610	Ga alloying for fabricating magnesium alloy sheet with uniform microstructure and excellent performance. 2021 , 304, 130607		0
609	Effects of hot pressing temperature and annealing temperature on microstructure and compressive properties of a bulk nanocrystalline AZ61 magnesium alloy contain Ti. 2021 , 888, 161533		2
608	The effects of second-alloying-element on the formability of Mg-Sn alloys in respect of the stacking fault energies of slip systems. 2021 , 29, 102829		0
607	Influence of grain size and grain boundary misorientation on the fatigue crack initiation mechanisms of textured AZ31 Mg alloy. 2022 , 207, 114304		4
606	Magnesium Alloys: Fundamentals and Recent Advances. 2022 , 2-10		0
605	PARAMETER OPTIMIZATION OF EDM FOR Mg/SiCp COMPOSITE USING RESPONSE SURFACE METHODOLOGY. 2021 , 28, 2150005		
604	New concepts of extrusion dies to reduce the anisotropy of extruded profiles by means of additive manufacturing. 2021 , 70, 231-234		
603	Influence of load and sliding speed on wear behavior of AZ91E magnesium alloy nanocomposite by dry sliding. 2021 , 45, 6553-6557		0
602	Grain Size and Mechanical Property of Magnesium Experienced Rolling and Post Heat Treatment. 2021 , 13-19		
601	Effect of Ca Addition on Microstructure of AZ61 Magnesium Alloy During High-Temperature Deformation. 2021 , 141-148		0
600	Effects of MgCl ₂ and NaCl on Si-Thermic Reduction of MgO in Recycle of Mg-air Battery. 2021 , 267-273		
599	Effect of grain orientation on friction and wear behavior of AZ91 magnesium alloy. 2021 , 11, 135-139		
598	Effect of Heat Treatment on Wear and Corrosion Behavior of Electroless Ni ₃ P/TiO ₂ /Al ₂ O ₃ Nanocomposite Coatings on Magnesium AZ91D Alloy. 2021 , 179-191		
597	Numerical and experimental investigation of defects formation during friction stir processing on AZ91. 2021 , 3, 1		3
596	Effect of aluminum content on stress corrosion cracking of AM60B and AZ91D magnesium alloy ingots. 2021 , 71, 60-67		
595	AZ31-alloy, H13-die combination heat transfer characteristics by using inverse heat conduction algorithm. 2021 , 44, 4762-4766		4

594	Consolidation of Pure Magnesium Powder by Equal-Channel Angular Pressing with Back Pressure. 2021 , 30, 2213-2219	2
593	Microstructure Characterization of Magnesium Control Arm Castings. 215-222	1
592	Melt Conditioned DC (MC-DC) Casting of Magnesium Alloys. 155-160	1
591	Microstructural Characteristics of High Rate Plastic Deformation in Elektron WE43 Magnesium Alloys. 433-438	1
590	Gas-Pressure Bulge Forming of Mg AZ31 Sheet at 450°C. 139-144	1
589	A Comparison of the Greenhouse Impacts of Magnesium Produced by Electrolytic and Pidgeon Processes. 169-174	1
588	Formability of Magnesium Sheet ZE10 AND AZ31 with Respect to Initial Texture. 357-362	2
587	Al and Zn Impurity Diffusion in Binary and Ternary Magnesium Solid-Solutions. 407-411	3
586	Impurity Diffusion Coefficients of Al and Zn in Mg Determined from Solid-to-Solid Diffusion Couples. 505-509	2
585	Melt Flow and Grain Refinement in Al-Si Alloys Solidified Under the Influence of Applied Electric Currents. 33-38	2
584	Effect of Strain Rate on Tensile Strength and Work Hardening for Al ₇₅ Zn Magnesium Alloys. 2014 , 77-91	1
583	A Comparison of the Greenhouse Impacts of Magnesium Produced By Electrolytic and Pidgeon Processes. 2016 , 169-174	3
582	Development of Mg-Al-Sn-Si Alloys Using a Calphad Approach. 2016 , 79-82	2
581	Effects of Alloying Elements and Cooling Rate on Morphology of Phases in CaO Added Mg-Al-Si Alloys. 2013 , 335-339	1
580	Carbothermal Production of Magnesium in Vacuum. 2015 , 55-59	1
579	Effect of Heat Treatment on Microstructure and Damping Capacity of Twin Roll Cast ZK60 Strip. 2015 , 267-271	1
578	The effects of strain and stress state in hot forming of mg AZ31 sheet. 2012 , 301-306	1
577	Precipitation behaviour of micro-alloyed Mg-AL-CA alloys during heat treatment and hot compression. 2012 , 317-322	2

576	Microstructural Characteristics of High Rate Plastic Deformation in Elektron®WE43 Magnesium Alloy. 2012 , 433-438	3
575	Mechanism of Carbothermic Reduction of Magnesia and Reversion Reaction. 2012 , 511-516	2
574	Growth Kinetics of β Al ₁₂ Mg ₁₇ and β Al ₃ Mg ₂ Intermetallic Phases in Mg vs. Al Diffusion Couples. 2011 , 549-552	3
573	Formability of Magnesium Sheet ZE10 and AZ31 with Respect to Initial Texture. 2011 , 373-378	4
572	A Review of the Influence of Production Methods and Intermetallic Phases on the Creep Properties of AZ91. 2014 , 59-64	2
571	Nucleation and Growth of Metastable Phases in Mg-Nd, Mg-Gd and Mg-Gd-Nd Based Alloys. 2014 , 179-184	2
570	Enhancing Corrosion Resistance by a Hydrophobic Surface Feature for Magnesium Alloy AZ91D. 2014 , 319-323	2
569	Effects of Gadolinium and Neodymium Addition on Young's Modulus of Magnesium-Based Binary Alloys. 2017 , 341-347	1
568	Real-Time Observation of AZ91 Solidification by Synchrotron Radiography. 2017 , 597-603	2
567	Mechanical and Biodegradable Behavior of AZ31 Magnesium Alloy Immersed in Simulated Body Fluid. 2018 , 49-55	1
566	Nucleation and preferential growth mechanism of recrystallization texture in high purity binary magnesium-rare earth alloys. 2017 , 138, 27-41	106
565	Dislocation-particle interactions in magnesium alloys. 2020 , 194, 190-206	20
564	Effect of mono and hybrid ceramic reinforcement particles on the tribological behavior of the AZ31 matrix surface composites developed by friction stir processing. 2020 , 46, 20345-20356	19
563	Enhancing plastic deformability of Mg and its alloys: A review of traditional and nascent developments. 2017 , 5, 460-475	128
562	Characterization and electrochemical corrosion behaviour of FSPed WE43/nano-SiC surface composite. 2020 , 26, 3138-3144	2
561	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. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 703, 348-358	5-3 54
560	Recent Advancements in Corrosion Protection of Magnesium Alloys by Silane-Based Sol-Gel Coatings. 2020 , 59, 19840-19857	9
559	Effect of heat treatment on corrosion behavior of Mg-5Gd-3Y-0.5Zr alloy.. 2020 , 10, 43371-43382	8

558	Twinning in magnesium under dynamic loading. 2015 , 94, 02018	2
557	Compounded Surface Modification of ZK60 Mg Alloy by High Current Pulsed Electron Beam+Micro-plasma Oxidation. 2010 , 12, 67-70	3
556	Fabrication of AZ91D/Cu/Mg ₂ Cu and AZ91D/Mg ₂ Cu/MgCu ₂ /MgO in-situ hybrid surface nanocomposites via friction stir processing. 2020 , 8, 045002	11
555	Microstructure, mechanical and corrosion properties of novel quaternary biodegradable extruded Mg ₉₁ Zn _{0.2} Ca-xAg alloys. 2020 , 7, 015414	5
554	Grain refinement and the microstructure evolution of Mg ₉₁ Al ₈ Ca alloy solidified under permanent magnetic stirring. 2020 , 7, 096516	2
553	Study on high speed impact deformation behaviors of Mg-1Al-4Y by SHPB. 2020 , 7, 116506	3
552	First principles high-throughput screening to enhance the ductility of lightweight magnesium alloys. 2019 , 3,	1
551	Machine learning for metallurgy II. A neural-network potential for magnesium. 2020 , 4,	12
550	Effect of Laser Shock Peening on the Wear-Corrosion Synergistic Behavior of an AZ31B Magnesium Alloy. 2020 , 142,	6
549	An Energy-Based Analysis for Machining Novel AZ91 Magnesium Composite Foam Dispersed With Ceramic Microspheres. 2021 , 143,	4
548	Designing with Magnesium. 2003 , 487-538	3
547	Crystalline Alloys:. 2013 , 21-66	1
546	Substantially Higher Corrosion Resistance in AE42 Magnesium Alloy through Corrosion Layer Stabilization by ECAP Treatment. 2012 , 122, 614-617	10
545	Studying Static, Dynamic and Transport Properties of Mg ₃ Bi ₂ . 2015 , 128, 440-446	3
544	Investigating Electrochemical Behavior of Antibacterial Polyelectrolyte-Coated Magnesium Alloys for Biomedical Applications. 2017 , 5, 23-33	1
543	Role of Friction Stir Processing Parameters on the Microstructure and Hardness of ZE41/Mg Alloy: A Taguchi Approach. 2019 , 8, 20180145	6
542	Characterization and Properties of Mg ₉₁ TiO ₂ Composites Produced via Ball Milling and Powder Metallurgy. 2020 , 42, 497-509	21
541	Sıkak Presleme Yöntemi ile AZ91 Magnezyum Alaşımlarının Üretimi. 2020 , 9, 277-287	2

540	Plastic Deformation Properties of Magnesium Alloy AZ61. 2013 , 13, 313-319	4
539	Toz Metalurjisi Yöntemiyle Mg-Sn Alaşımının Üretimi ve Karakterizasyonu. 112-119	2
538	Studying the effect of laser welding parameters on the quality of ZEK100 magnesium alloy sheets in lap joint configuration. 2012 ,	3
537	Effect of heat treatment on microstructure, microhardness and corrosion resistance of ZE41 Mg alloy. 2019 , 63, 79-85	3
536	Magnezyum ve Alaşımın Toz Metalurjisi Üretimi. 522-534	1
535	Effects of Solidification Rate on Microstructure and Mechanical Properties with Sb at Different Ratio of AZ91 Quality Mg Alloy. 451-463	3
534	Optimization of the Cutting Parameters for Drilling Magnesium Alloy AZ 91. 2014 , 56, 47-53	3
533	Microstructure of die-cast alloys Mg ₇₀ Al ₃₀ (Ca): a study by electron microscopy and small-angle neutron scattering. 2003 , 94, 564-571	4
532	Deformation response and microstructural evolution of as-cast Mg alloys AM30 and AM50 during hot compression. 2019 , 110, 524-533	4
531	Optimization of the Corrosion Resistance of Electroless Ni-W Coatings on Magnesium Alloys by the Response Surface Methodology. 2021 , 11, 18	2
530	Microstructure and Mechanical Properties of 6061 Al/AZ31 Mg Joints Friction Stir Lap Welded by a Tool with Variable-Pitch Thread Pin. 2021 , 11, 34	3
529	Smelting reduction of MgO in molten slag by liquid ferrosilicon. 2016 , 52, e065	1
528	Optimizing the Friction Stir Spot Welding Parameters to Attain Maximum Strength in Al/Mg Dissimilar Joints. 2016 , 34, 23-30	4
527	Experimental investigation on the improvement of the properties of the AZ80A Mg alloy joints using friction stir welding process. 2019 , 47, 452-463	3
526	Severe Plastic Deformation by Multidirectional Forging and Mechanical Properties of Magnesium Alloy AZ31. 2007 , 48, 407-411	7
525	The effect of calcium fluoride on extracting magnesium from magnesite and calcium carbonate by silicothermal reduction in flowing argon. 2021 , 45-45	
524	Corrosion behaviour of friction stir welded rare earth magnesium alloy ZE41 under salt spray test. 2021 ,	
523	Friction stir processing of ZE41 Mg alloy: Optimizing the process parameters. 2021 , 1185, 012011	

- 522 Crack initiation and propagation characteristics of a dual-phase Mg₉₂Li alloy under high-cycle and very-high-cycle fatigue regimes. 0
- 521 Experimental investigation and optimization of quality characteristics during friction stir welding of Al- and Zn-based magnesium alloy using artificial intelligence. 146442072110448
- 520 Atomic scale interactions of basal dislocations and twin boundaries with ultrathin precipitates in magnesium alloys. **2021**, 221, 117442 1
- 519 Effect of twin and grain size strengthening on tensile properties of a multi-directionally impact forged Mg₉₂Li alloy. **2021**, 15, 4502-4515 2
- 518 Evaluating the microstructural characteristics in friction stir welding of magnesium AZ61a alloy. **2021**, 48, 1762-1762 0
- 517 On the deformation behavior of heterogeneous microstructure and its effect on the mechanical properties of die cast AZ91D magnesium alloy. **2021**, 1
- 516 Effect of Heat Treatment on Corrosion Performance of Mg-12Gd-3Y-1Sm-0.8Al Alloy. 1
- 515 Synthesis and characterization of magnesium melting fluxes.
- 514 Effect of Secondary Extrusion on the Microstructure and Mechanical Properties of Mg-12Gd-2Er-0.4Zr Alloy. 1
- 513 Energy absorption within elastic range for AZ31 magnesium alloy. **2021**, 8, 106522
- 512 High temperature impression creep behavior and microstructures of wrought ZM21 magnesium alloy. 146442072110476 1
- 511 Enhancing tensile strength and ductility of high-speed-extruded Mg₉₂Bi₂Al through trace Mn addition. **2021**, 181, 111500 0
- 510 Mutual Solubility of Mn and Fe in AZ91 Alloy Melts and Its Application to Composition Control of AZ91D Recycled Ingots. **2003**, 13, 619-624
- 509 Microstructure and wear characteristic of laser clad AlSi/WC layer on AS21 magnesium alloy substrate. **2004**,
- 508 Study on New Recycling Process of Magnesium Alloys Using Plastic Deformation. **2006**, 47, 1212-1213
- 507 Development of Controlled Rolling for Ca Added Magnesium Alloys. **2007**, 78, 199-205
- 506 A Study on Warm Forging of Magnesium Alloy Impeller. **2007**, 16, 288-292 1
- 505 Optimization of Heat Treatment Process of ZE41A Magnesium Alloy Using Grey- Based Taguchi Method. **2008**, 3, 63-69

- 504 Electroless Ni-P Deposition on WE43 Magnesium Alloy Substrate. **2008**, 2, 83-90
- 503 Fatigue Crack Growth Studies on ZE41A Cast Magnesium Alloy. **2009**, 4, 58-63
- 502 Refinement Behavior of Coarse Magnesium Powder by High Energy Ball Milling (HEBM). **2010**, 17, 302-311 4
- 501 Effect of {100} Twinning Characteristics on the Deformation Behavior of Rolled AZ31 Mg Alloy. **2010**, 19, 416-422 2
- 500 Microstructure Evolution during Roller Hemming of AZ31B Magnesium Sheet. **2011**, 389-393
- 499 Optimization of Magnesium-Aluminum-Tin Alloys for as-Cast Microstructure and Mechanical Properties. **2011**, 161-165
- 498 The microstructure and mechanical properties of cast Mg-5Sn based alloys. **2011**, 571-575
- 497 Composite Coatings Combining PEO Layer and EPD Layer on Magnesium Alloy. **2011**, 543-546
- 496 Efficiency and Stability of Solid Oxide Membrane Electrolyzers for Magnesium Production. **2011**, 39-42
- 495 Development and Characterization of New AZ41 and AZ51 Magnesium Alloys. **2011**, 553-558 2
- 494 Temperature Distribution during Friction Stir Spot Welding of Magnesium Alloy AM60B. **2011**, 39, 101910 1
- 493 Effect of Boundary Conditions on Reliability and Cumulative Distribution Characteristics of Fatigue Failure Life in Magnesium Alloy. **2011**, 12, 594-599 3
- 492 Effects of Alloying Element and Grain Refinement on the Tensile Properties of Mg-Alloy Casted with Sand Mold. **2011**, 31, 212-217
- 491 Introduction. **2012**, 1-30
- 490 Effect of Sr Substitution for RE on Microstructure and Tensile Properties in Mg-Al-RE Casting Alloys. **2011**, 31, 284-287
- 489 Cavitation Behavior of AZ31 Sheet during Gas Blow Forming. **2011**, 20, 601-610
- 488 Effect of Extrusion Conditions on Microstructure and Texture of Mg-1% Mn and Mg-1% Mn-1.6% Sr Alloys. **2012**, 461-464
- 487 Melt Conditioned DC (MC-DC) Casting of Magnesium Alloys. **2012**, 155-160

- 486 Microstructure and Mechanical Properties of High Pressure Die Cast AM50 Magnesium Alloy Containing Ce. **2012**, 149-154
- 485 Effect of Ca Addition on the Microstructural and Mechanical Properties of AZ51/1.5Al₂O₃ Magnesium Nanocomposite. **2012**, 201-206
- 484 Mechanical Properties of Mg Alloys AMX602 and AZXE7111 under Quasi-Static and Dynamic Loading. **2012**, 371-375
- 483 The effect of precipitation on the mechanical properties of extruded AZ80. **2012**, 555-559
- 482 The Effect of Friction Stir Processing on Microstructure and Tensile Behavior of Thixomolded AZ91 Magnesium Alloy. **2012**, 391-396
- 481 Diffusion couple investigation of the Mg-Zn system. **2012**, 323-327 2
- 480 Estimation of Empirical Fatigue Crack Propagation Model of AZ31 Magnesium Alloys under Different Maximum Loads. **2012**, 13, 522-528 4
- 479 A Study of Probabilistic Fatigue Crack Propagation Models in Mg-Al-Zn Alloys Under Different Specimen Thickness Conditions by Using the Residual of a Random Variable. **2012**, 36, 379-386 2
- 478 Mechanism of Carbothermic Reduction of Magnesia and Reverse Reaction. 511-516
- 477 Microstructure and Mechanical Properties of High Pressure Die Cast AM50 Magnesium Alloy Containing Ce. 149-154
- 476 The Effects of Strain and Stress State in Hot Forming of Mg AZ31 Sheet. 301-306 2
- 475 Precipitation Behaviour of Micro-Alloyed Mg-Al-Ca Alloys during Heat Treatment and Hot Compression. 317-322
- 474 Effect of Rolling Temperature on the AZ31B Magnesium Alloy Microstructure. 281-287
- 473 The Effect of Friction Stir Processing on Microstructure and Tensile Behavior of Thixomolded AZ91 Magnesium Alloy. 391-396
- 472 Mechanical Properties of Newly Developed Mg-Alloys AMX602 AND AZXE7111 under Quasi-Static and Dynamic Loading. 371-375
- 471 Effect of Extrusion Conditions on Microstructure and Texture of Mg-1% Mn and Mg-1% Mn-1.6% Sr Alloys. 461-464
- 470 The Effect of Precipitation on the Mechanical Properties of Extruded AZ80. 555-559
- 469 Underwater Explosive Welding of Stainless Steel and Magnesium Alloy. **2012**, 22, 221-225

- 468 Effect of Heat Treatment on Microstructure and Tensile Properties of AZ91-CaO Alloy. **2012**, 25, 190-195 1
- 467 Effect of Sodium Aluminate Concentration in Electrolyte on the Properties of Anodic Films Formed on AZ31 Mg Alloy by Plasma Electrolytic Oxidation. **2012**, 25, 227-232
- 466 Microstructure and Mechanical Properties at Room and Elevated Temperatures in AM50-0.3 wt%CaO Alloy. **2012**, 22, 499-503 3
- 465 A Study on the Weldability of Magnesium Alloy by Laser Heat Source (II) - Mechanical Properties of laser-welded AZ31B-H24 and AZ31B-O -. **2012**, 30, 56-61
- 464 Study on Effects of Interfacial Anisotropy and Elastic Interaction on Morphology Evolution and Growth Kinetics of a Single Precipitate in Mg-Al Alloy by Phase Field Modelling. 95-105
- 463 Microstructural Characterization of Metastable Phases in Homogenised and Aged Mg-Nd and Mg-Gd-Nd Alloys Containing Zn, Y and Zr. **2013**, 1123-1130
- 462 The Effect of Ca Additions on the Mechanical Properties of Mg-Al-Sn Alloys. **2013**, 1169-1174
- 461 Gas-Pressure Bulge Forming of Mg AZ31 Sheet at 450°C. **2013**, 139-144
- 460 Effects of Alloying Elements and Cooling Rate on Morphology of Phases in CaO Added Mg-Al-Si Alloys. 333-339
- 459 Inoculant Addition Effect on Thermomechanical and Thermophysical Properties of Mg-Sr Magnesium Alloy. **2013**, 13, 64-67 7
- 458 Recubrimientos de TiN depositados mediante ACPVD sobre aleaciones de magnesio AM60. **2013**, 52, 118-126
- 457 Corrosion Behavior of Mg-Al-Zn-CaO Alloy. **2013**, 33, 127-133
- 456 Variation of Material Characteristics of a Hot-formed AZ31 Magnesium Alloy. **2013**, 37, 913-919
- 455 Possibility of affecting the casting structure of magnesium alloys. **2013**, 13, 341-345 1
- 454 Al and Zn Impurity Diffusion in Binary and Ternary Magnesium Solid-Solutions. **2014**, 407-411
- 453 Development of a High Strength Ductile Wrought Mg-Zn Based Alloy. **2014**, 395-399
- 452 Development of a Generalised Understanding of Environmentally-Assisted Degradation of Magnesium-Aluminium Alloys. **2014**, 365-370
- 451 Effect of CaO on Hot Workability and Microstructure of Mg-9.5Zn-2Y Alloy. **2014**, 297-300 0

450 Microstructure Modeling to Ductility Prediction of Mg Alloys. **2014**, 705-711

449 Effects of Current Density on Microstructure and Corrosion Property of Coating on AZ31 Mg Alloy Processed via Plasma Electrolytic Oxidation. **2014**, 345-349

448 Microstructure Evolution and Mechanical Behavior of Mg-10Gd-3Y-0.4Zr Alloy Processed by ECAP at High Temperature. **2014**, 511-516

447 Enhancing Tensile and Compressive Strength of AZ41 Magnesium Alloy by Adding Nano-Sized Al₂O₃. **2014**, 449-454

446 Impurity Diffusion Coefficients of Al and Zn in Mg Determined from Solid-to-Solid Diffusion Couples. **2014**, 505-509

445 Effect of Nano-Reinforcement on Properties of Cast Mg-Al Alloy AZ91. **2014**, 471-476

444 Microstructure Modeling to Ductility Prediction of Mg Alloys. 705-712

443 Microstructure Evolution and Mechanical Behavior of Mg-10Gd-3Y-0.4Zr Alloy Processed by ECAP at High Temperature. 511-516

442 Microstructural and Mechanical Aspects of Reinforcement Welds for Lightweight Components Produced by Friction Hydro Pillar Processing. 499-504

441 Effects of Current Density on Microstructure and Corrosion Property of Coating on AZ31 Mg Alloy Processed via Plasma Electrolytic Oxidation. 345-349

440 Estimation of Empirical Fatigue Crack Propagation Model of AZ31 Magnesium Alloys under Different Specimen Thickness Conditions. **2014**, 15, 646-652

439 The Role of Microstructure and Porosity in Ductility of Die Cast AM50 AND AM60 Magnesium Alloys. 217-222

438 Effect of Nano-Reinforcement on Properties of Cast Mg-Al Alloy AZ91. 471-476

437 Evaluation of Corrosion Protection Methods for Magnesium Alloys in Automotive Applications. 593-598 1

436 Castability of Magnesium Alloys. 187-192 1

435 Nucleation and Growth of Metastable Phases in Mg-Nd, Mg-Gd and Mg-Gd-Nd Based Alloys. 179-184

434 A Review of the Influence of Production Methods and Intermetallic Phases on the Creep Properties of AZ91. 59-64

433 Fire-Proof Evaluation of Cao Added Mg-3Al, Mg-6Al, and Mg-9Al Mg Cast Products. 305-312

- 432 Enhancing Tensile and Compressive Strength of AZ41 Magnesium Alloy by Adding Nano-Sized Al₂O₃. 449-454
- 431 Effect of CaO on Hot Workability and Microstructure of Mg-9.5Zn-2Y Alloy. 297-300
- 430 Development of a Generalised Understanding of Environmentally-Assisted Degradation of Magnesium-Aluminium Alloys. 363-370
- 429 Phenomena of Formation of Gas Induced Shrinkage Porosity in Pressure Die-Cast Mg-Alloys. 211-216 ○
- 428 Development of a High Strength Ductile Wrought Mg-Zn Based Alloy. 395-399
- 427 Microstructure and Mechanical Properties of AZ91 Magnesium Alloy Containing a Small Amount of Sn. **2014**, 27, 115-120
- 426 Effect of Sn Addition on Creep Resistance of AZ91-0.4%Ca Alloy. **2014**, 27, 185-190
- 425 Effect of Heat Treatment on the Microstructure and Damping Capacity of Hot Rolled Magnesium Alloys. **2014**, 18, 66-71 1
- 424 Relationship between Tensile Strength and Damping Capacity of Annealed Magnesium Alloys after Hot Rolling. **2014**, 27, 295-301
- 423 Effects of La Addition on Thermal Conductivity and Mechanical Properties of Mg-4Zn-0.5CaO Alloys. **2015**, 455-458
- 422 Processing Routes, Mechanical, and Tribological Properties of Light Metal Matrix Nanocomposites. **2015**, 1-46
- 421 Phase Field Simulation on Dendritic Growth in Pressurized Solidification of Mg-Al Alloy. **2015**, 107-113
- 420 Melt Flow and Grain Refinement in Al-Si Alloys Solidified under the Influence of Applied Electric Currents. **2015**, 33-38
- 419 Deformation Twinning Effects on Texture and Microstructure of AZ31B Magnesium Rolled Samples. **2015**, 133-137
- 418 Stress Corrosion Cracking of ZEK100 Magnesium Alloy for Automotive Applications. **2015**, 319-322
- 417 Evaluation of Probabilistic Fatigue Crack Propagation Models in Mg-Al-Zn Alloys Under Maximum Load Conditions Using Residual of Random Variable. **2015**, 39, 63-69
- 416 Phase Field Simulation on Dendritic Growth in Pressurized Solidification of Mg-Al Alloy. 107-113
- 415 Stress Corrosion Cracking of ZEK100 Magnesium Alloy for Automotive Applications. 319-322

- 414 Corrosion Behavior of Solution-Treated Mg-8%Al-X%Zn Casting Alloys. **2015**, 28, 126-133 1
- 413 Effect of Solution Treatment on Corrosion Behavior of AZ91-2%Ca Magnesium Casting Alloy. **2015**, 28, 190-199
- 412 Change in Corrosion Resistance of Solution-Treated AZ91-X%Sn Magnesium Alloys. **2015**, 28, 229-238
- 411 Mechanical Response of a Gravity Cast Mg-9Al-1Zn-0.2Sc Alloy at Strain Rates from 10^4 to 10^3 /s. **2016**, 305-309
- 410 Phenomena of Formation of Gas Induced Shrinkage Porosity in Pressure Die-Cast Mg-Alloys. **2016**, 211-216 0
- 409 Characterization of Tensile Deformation in AZ91D Mg Alloy Castings. **2016**, 117-124
- 408 Microstructure and Texture Evolution of Mg-Gd-Y-Nd-Zr Alloy Hot Deformation. **2016**, 06, 292-299
- 407 First-principles Study of Diffusion Coefficients of Alloy Elements in Dilute Mg Alloys. **2016**, 97-101
- 406 Fire-Proof Evaluation of CaO Added Mg-3Al, Mg-6Al, and Mg-9Al Mg Cast Products. **2016**, 305-312
- 405 Formability of Magnesium Sheet ZE10 and AZ31 with Respect to Initial Texture. **2016**, 357-362
- 404 Brillouin Scattering Spectroscopy on Mg-Nd Alloy in Different Aging Time. **2016**, 577-584
- 403 Characterization of Tensile Deformation in AZ91D Mg alloy castings. 117-124
- 402 Comparison of Electrochemical Corrosion Properties of Permanent Mold Casting GZ21 Alloy and AZ91 Alloy. **2016**, 36, 60-66
- 401 Heat Treating of Magnesium Alloy Metal-Matrix Composites. **2016**, 650-659
- 400 Effect of Trace Amount of Ca on Corrosion Resistance of Solutionized Mg-4%Zn Alloy. **2016**, 29, 168-175
- 399 Kinetics of Decomposition and Thermal Stabilization of Mg₉₇Al₁Ca₁Mn₁Ti Cast Alloy. **2016**, 36, 1-15 1
- 398 Texture Evolution of a Fine-Grained Mg Alloy at Dynamic Strain Rates. **2017**, 263-270
- 397 Influence of OH⁻ Concentration on the Properties of Electrolytic Plasma Oxide Coatings Formed on AZ61A Alloy. **2016**, 26, 513-520

- 396 Processing Routes, Mechanical, and Tribological Properties of Light Metal Matrix Nanocomposites. **2017**, 991-1037
- 395 Optimization of Nitrogen Bubbling Conditions for Mg Extruded Alloy with Balanced Mechanical Properties. **2017**, 335-339
- 394 Influence of Process Parameters on Microstructure of Friction Stir Processed Mg AZ31 Alloy. **2017**, 1293-1305 1
- 393 Effect of Y addition on the microstructures and mechanical properties of Mg₉₇Y₃Sm₂r alloys. **2017**, 24, 005-269
- 392 Numerical Simulation of Droplet Transfer of AZ31B Magnesium Alloy Based on FLUENT. **2018**, 151-158
- 391 Influence of Electrolytic KF on the Uniform Thickness of Oxide Layers Formed on AZ91 Mg Alloy by Plasma Electrolytic Oxidation. **2017**, 27, 495-500 1
- 390 Effect of TiO₂ nanoparticles on the microstructure evolution and crystallographic texture in magnesium. **2017**, 59, 1014-1018 1
- 389 DENEYSEL VE HADDELENME AZ31B MAGNEZYUM ALAŞMININ KURU İZLEMLERDEKİ DAVRANIŞININ KIYASLANMASI.
- 388 Hafif Metallerde Minimum Miktarda Yağlama (MQL) Sisteminin Kullanılması. **2018**, 5, 582-590 0
- 387 Effect of Quench Environment on the Conversion Coatings on Magnesium Alloy AZ91. **2018**, 66, 203-210 0
- 386 Tensile Properties at Room and Elevated Temperatures and High-Cycle Fatigue Properties of Extruded AZ80 and TAZ711 Alloys. **2018**, 56, 699-707 2
- 385 Effect of Power Mode of Plasma Anodization on the Properties of formed Oxide Films on AZ91D Magnesium Alloy. **2018**, 28, 544-550 3
- 384 Localized Microstructural Deformation Behavior of Dynamically Deformed Pure Magnesium. **2019**, 225-228
- 383 Effects of Gd/Y Ratio on the Microstructures and Mechanical Properties of Cast Mg₉₇Gd₂Y₁r Alloys. **2019**, 51-56
- 382 Microstructures and Mechanical Properties of Extruded and Aged Mg₉₇Zn₂Al₁Sn_{0.6}Mn Alloy. **2019**, 1-9
- 381 Effect of Split Sleeve Cold Expansion on the Residual Stress, Texture and Fatigue Life of Rolled AZ31B Magnesium Alloy. **2019**, 353-358
- 380 Galvanically Graded Interface: A Computational Model for Mitigating Galvanic Corrosion Between Magnesium and Mild Steel. **2019**, 135-144 1
- 379 Effect of Cu Additions and Extrusion Treatment on the Microstructure and Mechanical Properties of Mg₉₇Sn₃Al Alloy. **2019**, 257-271

378	Low-temperature severe plastic deformation of pure magnesium. 2019 , 9, 451-455	1
377	Gaz Atomizasyon Yöntemi ile AZ31 Mg Tozu Üretiminde Gaz Basıncının Etkisinin Araştırılması	
376	Electrolyte Temperature Dependence on the Properties of Plasma Anodized Oxide Films Formed on AZ91D Magnesium Alloy. 2019 , 29, 288-296	1
375	Thermodynamic calculation of phase equilibria in the Bi-Mg-Zn ternary system. 2019 , 110, 496-507	0
374	Dendritic structure formation of magnesium alloys for the manipulation of corrosion properties: Part 2 Corrosion. 2019 , 110, 703-714	
373	Development of Empirical Model to Study the Effect of Precipitate and Ligament Size on the Hardness of Mg-4Al-Nd Alloy. 2020 , 368-376	
372	Elevated-Temperature Wear Characteristics and Mild-Severe Wear Transition in the Mg-0.1Gd-0.4Y-0.4Zr Alloy. 2019 , 141,	1
371	Effect of reciprocating extrusion temperature and passes on the microstructural evolution of Mg-5Sn-1Si-0.8Y alloy. 2019 , 110, 824-835	0
370	Ab-initio study on Zn-doped rare earth magnesium alloy. 2020 ,	
369	Effects of minor additions of cerium, silicon and calcium on microstructure and mechanical properties of AZ91 magnesium alloy. 2020 , 111, 220-227	
368	Evaluating the Effect of Specimen Thickness on Fatigue Crack Growth in AZ31 Alloy Using ANOVA. 2020 , 19, 9-16	1
367	Elucidating the Effect of Additive Friction Stir Deposition on the Resulting Microstructure and Mechanical Properties of Magnesium Alloy WE43. 2021 , 11, 1739	7
366	AlCoCrFeNi High Entropy Alloy Particle Reinforced AZ91 Magnesium Alloy-Based Composite Processed by Spark Plasma Sintering. 2021 , 14,	1
365	Towards understanding double extension twinning behaviors in magnesium alloy during uniaxial tension deformation. 2021 , 162491	0
364	Electrodeposition of aluminum-magnesium alloys from an aluminum-containing solvate ionic liquid at room temperature. 2021 , 107160	1
363	Comparative evaluation of energy and resource consumption for vacuum carbothermal reduction and Pidgeon process used in magnesium production. 2020 ,	2
362	Lamellar Structure Stability of a Two-Phase Mg/C14Mg2Ca Alloy. 2020 , 84, 399-405	2
361	Significantly enhanced grain boundary Zn and Ca co-segregation of dilute Mg alloy via trace Sm addition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 831, 142259	5-3 3

360	{100} extension twinning activity and compression behavior of pure Mg and Mg-0.5Ca alloy at cryogenic temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 831, 142189	5-3	4
359	Unveiling the microstructure evolution based on deformation mechanisms and dynamic recrystallization in as-extruded AZ31 Mg alloys during uniaxial compression. 2022 , 894, 162417		2
358	Evaluation of the corrosion resistance of electroless Ni-P coatings on magnesium. 2020 , 25,		
357	An Investigation on the Microstructure and Mechanical Properties of the Hot-Dip-Aluminized-Q235/AZ91D Bimetallic Material Produced by Solid-Liquid Compound Casting. 2020 , 361-368		
356	Two-Stage Settling Approach to Purify Mg Alloy. 2020 , 55-59		0
355	Asymmetric Rolling of TZ73 Magnesium Alloy to Improve Its Ductility. 2020 , 189-196		1
354	Microstructural and Mechanical Properties of a Solid-State Additive Manufactured Magnesium Alloy. 1-21		1
353	Study on the Strengthening Mechanism of Rare Earth Ce in Magnesium Alloys, Based on First-Principle Calculations and Electronegativity Theory. 2021 , 14,		0
352	Anticorrosion and Cytocompatibility Assessment of Graphene-Doped Hybrid Silica and Plasma Electrolytic Oxidation Coatings for Biomedical Applications. 2021 ,		1
351	Effects of Ce content on the modification of Mg ₂ Si phase in Mg-5Al-2Si alloy. 2021 ,		1
350	Local enhancement of hydrogen production by the hydrolysis of Mg ₁₇ Al ₁₂ with Mg-based material. 2021 , 895, 162560		1
349	Influence of high-energy shot peening on the microstructure and mechanical properties of Ti-6Al-4V welded joints. 2020 , 7, 075003		
348	Microstructural Influences on Tensile Properties of hpdc AZ91 Mg Alloy. 2008 , 19-31		
347	Fracture Analysis of C-Stringer and Hat Stringer on the Load Carrying Vehicle. 2021 , 47-55		1
346	Microstructure Evolution of Peak-Aged ZK60 Magnesium Alloy under High Strain Rate Deformation. 2021 , 49, 20200272		
345	Effect of various rare-earth metals in magnesium alloys on their strength properties. 2020 , 38-44		
344	Effect of heat treatment on microstructure, hardness and electrical conductivity of as-extruded ZK80 Mg alloy. 2020 , 1699, 012030		
343	Thermal behavior and densification during selective laser melting of Mg-Y-Sm-Zn-Zr alloy: simulation and experiments. 2020 , 7, 116519		1

342	Strain Accumulation and Microstructural Evolution During Friction Stir Welding of Pure Magnesium. 2020 , 7,		
341	Revealing the role of Al in the microstructural evolution and creep properties of Mg-2.85Nd-0.92Gd-0.41Zr-0.29Zn alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 832, 142358	5.3	0
340	Effect of grain size on fracture behavior of pure magnesium sheet: An in-situ study combined with grain-scale DIC analysis. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 832, 142396	5.3	0
339	Magnesium Extraction Mechanisms. 2022 , 495-501		
338	Effect of Aluminium in Magnesium Alloy Fabricated Through the Squeeze Casting Process. 2022 , 113-119		1
337	Role of heat treatment on machining characteristics and surface roughness of AZ91 Mg alloy. 2021 , 50, 2488-2488		
336	Interfacial reaction of aluminum borate whisker reinforced Mg-10Gd-3Y-1Zn-0.4Zr (wt%) alloy matrix composite. 2021 , 183, 111649		0
335	Achieving ultra-fine grains and high strength of Mg9Li alloy via room-temperature ECAP and post rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 833, 142371	5.3	1
334	Systematic kinetic study of magnesium production using magnesium oxide and carbonic materials at different temperatures. 2021 , 68,		0
333	Experimental Investigation and Thermodynamic Verification for the Phase Relation around the Mg (Al, Zn) Intermetallic Compound in the Mg-Zn-Al System. 2021 , 14,		
332	Surface integrity optimization in high speed milling of AZ91 magnesium alloy using TOPSIS considering vibration signals. 2021 ,		1
331	Comparison of edge cracking and tensile cracking in in-situ deformation at 150 °C of Mg-2Zn-1.5Mn alloy sheet. 2021 ,		1
330	Investigation of Micromechanical Properties and Tribological Behavior of WE43 Magnesium Alloy after Deep Cryogenic Treatment Combined with Precipitation Hardening. 2021 , 14,		2
329	Twinning-Induced Abnormal Strain Rate Sensitivity and Indentation Creep Behavior in Nanocrystalline Mg Alloy. 2021 , 14,		0
328	Improving mechanical properties of an explosive-welded magnesium/aluminum clad plate by subsequent hot-rolling. 2021 , 162957		1
327	Development of clinching process for various materials. 1		3
326	The Investigation on Newly Developed of Hydrophobic Coating on Cast AZ91D Magnesium Alloy Under 3.5 wt% NaCl Solutions. 1		6
325	Computational exploration of gallium-doped neutral and anionic magnesium nanocluster materials: Ga ₂ Mg _n q (n = 1-11; q=0, 1) nanocluster properties based on DFT. 2021 , 29, 103004		2

324	Influence of Temperature in Front Face Flow Drilling and Thread Forming of Lightweight Cast Alloys. 2021 , 104, 780-785		0
323	Welding of magnesium and its alloys: an overview of methods and process parameters and their effects on mechanical behaviour and structural integrity of the welds. 2021 , 8, 29		1
322	High performance Mg-8Gd-4Y-1Zn-0.5Al alloy with long-period stacking ordered structure by hot rolling. 2022 , 901, 163667		0
321	Fluidized Bed Heat Treating of a Magnesium-Rare Earth Alloy. 1		
320	Ambient extrusion induced working hardening and their effect on mechanical properties in AZ31 hot-extrusion bar. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 832, 142437	5:3	1
319	Strengthening magnesium by design: Integrating alloying and dynamic processing. 2022 , 167, 104203		3
318	Texture weakening and enhanced recrystallization kinetics in a La containing MgDy alloy. 2022 , 277, 125537		2
317	Effects of hot compression on the fracture toughness and tensile creep behaviors of a Mg-Gd-Y-Zn-Zr alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 834, 142626	5:3	0
316	Twinning pathways enabled by precipitates in AZ91. 2022 , 21, 101292		0
315	Interactions Effect Among the Electrolytes on MAO Coatings of AZ91D Mg Alloy.		
314	Tek eksenli sık presleme tekniğ ile imal edilen magnezyum matrisli kompozit malzemelerin korozyon davranışları incelenmesi.		1
313	Melting at Mg/Al interface in Mg-Al-Mg nanolayer by molecular dynamics simulations.. 2021 ,		0
312	Effect of Heat Treatment on Microstructure and Mechanical Properties of Mg-10Li-3Al-3Zn-0.22Si Alloy. 1		
311	Measurement of performance characteristics of WEDM while processing AZ31 Mg-alloy using Levy flight MOGWO for orthopedic application. 2022 , 119, 7175		0
310	Design and Preparation of CNTs/Mg Layered Composites.. 2022 , 15,		0
309	Effect of compression loading speeds on the room temperature mechanical properties of as-extruded AZ31 magnesium alloy. 2022 , 2174, 012065		
308	Microstructure and Hot Deformation Behaviour of Twin-Roll Cast AZ31 Magnesium Wire. 2022 , 12, 173		
307	Facile preparation of wear-resistant and anti-corrosion films on magnesium alloy. 1-8		1

306	A Review on Friction Stir Processing Over Other Surface Modification Processing Techniques of Magnesium Alloys.	0
305	Investigation of Solid-Liquid Equilibria on the Mg ₂ +//Cl ₂ /SO ₄ ²⁻ /H ₂ O System and the Na ⁺ ,Mg ₂ +//Cl ₂ /SO ₄ ²⁻ /H ₂ O System at T = 313.15 K and P = 88.35 kPa. 2022 , 67, 521-530	0
304	Deformation Mechanism of 5052 Aluminum Alloy Using Electrically Assisted Electromagnetic Forming. 1	0
303	Recent Approaches for Enhancing of /MAO-Coated Mg and Its Alloys. 2022 , 465-488	0
302	Microstructure, mechanical properties and wear resistance of SiCp/AZ91 composite prepared by vacuum pressure infiltration. 2022 , 32, 104-121	1
301	Microstructure and Mechanical Property Improvement of AZ31B Induced by the Combination of Cold Metal Transfer Welding and Friction Stir Processing. 2022 , 31, 3354	1
300	The hot rolling deformation performance of as-cast AZ80 magnesium alloy after ultrasonic processing. 2022 , 17, 1707-1715	0
299	Microstructure and Mechanical Property Correlation of Mg-Si Alloys. 1	1
298	Highly efficient nanocomposite-containing coatings for the protection of Mg alloy against corrosion in chloride containing electrolytes. 2022 , 128, 1	0
297	: Composition, , and. 2022 , 29-47	0
296	Effect of Zn/Ga Ratio on Damping and Thermal Behaviors of Fine-Grained Mg-Zn-Ga Sheets. 1	0
295	Surface integrity of heat treatable magnesium alloy AZ80A after cavitation peening. 2022 , 17, 2098-2107	1
294	Effect of Fe ³⁺ and F ⁻ on black micro-arc oxidation ceramic coating of magnesium alloy.	0
293	Effect of ECAP die angle on the strain homogeneity, microstructural evolution, crystallographic texture and mechanical properties of pure magnesium: numerical simulation and experimental approach. 2022 , 17, 1491-1511	3
292	Effect of induced pulse current on mechanical properties and microstructure of rolled 5052 aluminum alloy. 2022 , 185, 111757	1
291	Study on the three-dimensional tensile creep anisotropy of a hot-rolled Mg-0.9Mn-1.5Ce alloy sheet. 2022 , 901, 163655	1
290	AZ91 alloy nanocomposites reinforced with Mg-coated graphene: Phases distribution, interfacial microstructure, and property analysis. 2022 , 902, 163484	5
289	Microstructure of die-cast alloys Mg ₇₀ Zn ₁₀ Al ₁₀ (Ca): a study by electron microscopy and small-angle neutron scattering. 2022 , 94, 564-571	

- 288 The Effects of Annealing Treatment on Microstructure and Mechanical Properties of the Extruded Mg-1.3Zn-0.5Ca Alloys. **2022**, 343-348
- 287 Improving the Corrosion Behavior and Mechanical Properties of Biodegradable Mg-Zn-Zr Alloys Through ECAP for Usage in Biomedical Applications. **2022**, 259-269 2
- 286 Water Adsorption and Surface Atom Detachment on Zn, Al, Ce-Doped Mg Surfaces. **2022**, 291-292
- 285 Towards Improving Cold Formability of a Concentrated MgAlZnCa Alloy Sheet. **2022**, 227-231
- 284 Role of temperature and precipitates on the evolution of microstructure and texture during grain growth of MgAl0.2Ce alloy. 1-30 0
- 283 Macroscale to Nanoscale Tribology of Magnesium-Based Alloys: A Review. **2022**, 70, 1 0
- 282 Segregation-driven exceptional twin-boundary strengthening in lean MgZnCa alloys. **2022**, 117746 1
- 281 Effect of the processing route on the microstructure and mechanical behavior of superlight Mg-9Li-1Zn alloy via friction stir processing. **2022**, 1 1
- 280 Evaluation on processing parameter's effects on some mechanical properties of pure magnesium bulk prepared by powder metallurgy. **2022**,
- 279 The Potential of Magnesium-Based Materials for Engineering and Biomedical Applications. 1 0
- 278 Effect of intersection annealing on the microstructure and compressive properties of pure Mg processed by four-pass ambient ECAP. **2022**, 0
- 277 Review on materials for making lightweight vehicles. **2022**, 56, 868-872 1
- 276 The Finding of Elastocaloric Effect in the Lightweight Shape Memory Mg-Sc Alloy.
- 275 Improvement of Cooling Effect and Dimensional Accuracy of Wire and Arc Additive Manufactured Magnesium Alloy by Active-Cooling-Based Contacting Copper Blocks. **2022**, 6, 27 1
- 274 Corrosion Behavior of Mg(OH)₂/MgAl Layered Double Hydroxides/Al(OH)₃ Composite Film Prepared by Steam Coating on Mg Alloy AZCa612. **2022**, 169, 021508
- 273 Investigation on Wear Characteristics of AZ91D/Nanoalumina Composites. **2022**, 2022, 1-9 4
- 272 The compressive properties of AZ92A magnesium alloy containing titanium were studied by varying the hot-pressing and annealing temperature ranges. **2022**, 1
- 271 Effect of Al Addition on Grain Refinement and Phase Transformation of the Mg-Gd-Y-Zn-Mn Alloy Containing LPSO Phase.. **2022**, 15, 1

- 252 Effect of long-period stacking ordered structure on very high cycle fatigue properties of Mg-Gd-Y-Zn-Zr alloys. **2021**, 0
- 251 Twin evolution in cast Mg-Gd-Y alloys and its dependence on aging heat treatment. **2021**, 0
- 250 Thermodynamic Modeling and Mechanical Properties of Mg-Zn-{Y, Ce} Alloys: Review. **2021**, 11, 1592 0
- 249 An Experimental Investigation on Mechanical and Tribological Behaviour of (AZ91D Mg Alloy + Graphene) Metal Matrix Composite. **2022**, 33-43
- 248 Selection of Die Material and Its Impact on the Multi-Material Extrusion of Bimetallic AZ31B-Ti6Al4V Components for Aeronautical Applications.. **2021**, 14, 0
- 247 ZM21 Magnezyum Alařında Lantan ve Kalsiyum İavesinin Mikroyapı Mekanik ve Hadde İelliklerine Etkisi.
- 246 Influence of plasma electrolytic oxidation coating on corrosion characteristics of friction stir welded ZE41 rare earth magnesium alloy. **2021**, 9, 045049 1
- 245 DĐĐĐ Mg+%15Al12Si alařında mikroyapı ve sertlik incelemesi.
- 244 Thermal Properties of AM Series Magnesium Alloys. **2021**, 8,
- 243 A new efficient buckling investigation of functionally graded CNT/fiber/polymer/metal composite panels exposed to hydrostatic pressure considering simultaneous manufacturing-induced agglomeration and imperfection issues. **2021**, 136, 1 0
- 242 Effect of Cd on matrix structure ordering and aging precipitation evolution in a Mg-Gd-Cd solid-solution alloy. **2021**,
- 241 Multiaxial fatigue behavior of low-temperature closed-die forged ZK60 extrusion under proportional and non-proportional loading.
- 240 Investigating the effect of mechanical properties of magnesium alloy (AZ91D) reinforced with graphene metal matrix composite by stir casting method. **2022**,
- 239 Age hardening behavior of AZ61 alloy. **2022**,
- 238 The second phases of MgAlSiCa alloys and their influences on properties. 1-13 1
- 237 Enhancing corrosion resistance of hydrothermally-treated magnesium-aluminum alloys by preprocessed metallurgical microstructure. **2022**, 752, 139247 2
- 236 10.4028/0-87849-399-9.13.
- 235 Corrosion Properties of the Mg₁₇Al₁₂ Phase in NaCl Solutions. **2022**, 0

234	Effect of the Addition of 0.5 wt % Zinc on the Microstructure and Properties of an Mg _{0.3} wt % Y _{0.7} wt % Zr _{0.0} wt % Nd Alloy. 2022 , 2022, 6-12		
233	Corrosion in the Development and Airworthiness Certification of Select Al and Mg Aero-grade Alloys. 2022 , 331-353		
232	An Investigation on the Correlation Between Microstructure, Texture, and Mechanical Properties of Mg and its Alloys.		
231	Increased effectiveness of the flotation separation of hornblende and magnesite by adding citric acid as depressant. 2022 , 59, 269-279		
230	Dry tribological behavior of a cast Mg-Gd-Zr-Ag alloy at room and elevated temperatures. 2022 ,		2
229	Measurement of the diffusion coefficient in Mg ₅ N and Mg ₃ C binary alloys. 2022 , 113, 391-399		
228	Characterization of Microstructure, Weld Heat Input, and Mechanical Properties of Mg ₁ Al ₁ Zn Alloy GTA Weldments. 2022 , 12, 4417		
227	Static Recrystallization Behavior of Mg _{0.05} Y _{0.05} Zn _{0.05} Zr Alloy During Annealing Treatment. 1		
226	Investigation on Mechanical and Wear Properties of ZE43 Magnesium Composites Reinforced with Silicon Nitride by Friction Stir Processing. 1		0
225	Effects of rolling process on microstructure and properties of Mg _{0.05} Er _{0.05} Zn _{0.18} Zr alloy. 1-16		0
224	Microstructure and mechanical properties of Mg-Gd-Y-Zn-Zr alloy prepared by rheo-diecasting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 143287	5.3	0
223	On the micromechanics of void mediated failure in HCP crystals. 2022 , 104923		1
222	Molecular dynamics study on the effect of temperature on HCP-ECC phase transition of magnesium alloy. 2022 ,		0
221	A Simple Surface Treatment for Mg to Gain Enhanced Resistance to Corrosion and Corrosive Wear by Hammering Al Powder-Covered Mg Substrate. 2200087		
220	Mechanical and tribological characterisation of AlCoCuFeNi HEA reinforced magnesium composites prepared via spark plasma sintering. 146442072210974		0
219	A comparative study on the microstructural features and mechanical properties of an Mg ₁ N alloy processed by ECAP and SSE. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 845, 143218	5.3	0
218	Insights into the effect of different thermomechanical processing on the microstructure, phases, texture and tensile properties in Mg-0.9Al-0.6Mn-0.2Si-0.1Ca alloy. 2022 , 146, 107564		0
217	Microstructural evolution and precipitate behavior of an AZ61 alloy plate processed with ECAP and electropulsing treatment. 2022 ,		0

216	Flame propagation and temperature distribution characteristics of magnesium dust clouds in an open space. 2022 , 117513		1
215	Effect of a low frequency electromagnetic field on the direct-chill (DC) casting of AZ80 magnesium alloy ingots. 2022 , 97, 1539-1544		
214	Research on formability, microstructure and mechanical properties of selective laser melted Mg-Y-Sm-Zn-Zr magnesium alloy. 2022 , 111980		0
213	A study of processing and parametric optimization of wear-resistant AZ91-TiB ₂ composite fabricated by ultrasonic-assisted stir casting process.		1
212	Investigations on Wire Electrical Discharge Machining of Magnesium Alloy. 2022 , 523-531		
211	Investigations on Wire Electrical Discharge Machining of Magnesium Alloy AZ31B by Taguchi Approach. 2022 , 923-931		
210	Investigation of in-vitro biocompatibility and in-vivo biodegradability of AM series Mg alloys. 1-13		1
209	Experimental Investigation of Mechanical and Wear Behaviour of AZ91 Magnesium Hybrid Composite Materials.		
208	Superplastic behavior and microstructure evolution of a fine-grained Mg-Nd-Zn-Zr alloy processed by hot extrusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 846, 143314	5-3	1
207	Experimental diffusion research and assessment of diffusional mobility in HCP Mg ₃ Al-Ga ternary alloys. 2022 , 78, 102437		0
206	Effect of Y Concentration on the In Situ Growth Behavior and Corrosion Protection of the Mg ₂ AlY-LDH Sealing Film on the Anodized Surface of Mg ₂ Zn ₃ Y Alloy. 2022 , 9,		
205	Microstructure and mechanical properties of Mg ₂ AlH ₂ composite prepared by internal hydrogenation.		
204	Friction Stir Welding in Inert Gas Environment (FSW-IG) of AZ31B Magnesium Alloy. 416, 21-29		
203	In Situ Characterization of Deformation Twinning in Magnesium During Cyclic Loading via Electron Backscatter Diffraction.		
202	Effects of Zn/Ga ratio on microstructure, mechanical, damping and thermal properties of Mg ₂ Zn ₃ Ga alloy solid solutions.		0
201	Comparative tribological behavior of TiN monolayer and Ti/TiN multilayers on AZ31 magnesium alloys. 2022 , 128590		0
200	Consideration on Stable Crack Propagation from Cast Defect in As-cast AZX912 Mg Alloy. 2022 , 103427		0
199	A review on wire arc additive manufacturing: Processing parameters, defects, quality improvement and recent advances. 2022 , 31, 103739		0

- 198 Aging Hardening and Precipitation Characteristics of Extruded Mg₉Al_{0.8}Zn_{0.2}Mn_{0.3}Ca_{0.2}Y Alloy.
- 197 Experimental Phase Equilibria of the Mg-Sn-Ce Ternary System at 800 K.
- 196 Investigation of Microstructural, Mechanical, Wear, and Corrosion Properties of Mg-Sb-La Alloys.
- 195 Improving shear strength of Ti/Mg bimetal composites prepared by hot-dip aluminizing and solid-liquid compound casting. ○
- 194 Achieving superplastic elongations in an AZ80 magnesium alloy processed by high-pressure torsion. ○
- 193 Hall-Petch Relationship and Deformation Mechanism of Pure Mg at Room Temperature. **2022**, 165924 ○
- 192 Analysis for Tensile Strength of Multi-phase Alloy Composed of Ductile Matrix and Brittle Reinforcement with Circumferential Notch in As-cast AZX912 Mg Alloy. **2022**, 103465 ○
- 191 Prediction of Dynamically Recrystallized Microstructure of AZ31 Magnesium Alloys in Hot Rolling Using an Expanded Dislocation Density Model.
- 190 Effect of Corrosive Medium and Surface Defect-Energy on Corrosion Behavior of Rolled ZK61M Alloy. **2022**, 15, 4091
- 189 ISIM Achievements Regarding Friction Stir Welding in Inert Gas Environment. 1172, 15-24
- 188 La containing Mg alloy for enhanced corrosion at elevated temperatures in ethylene glycol media. **2022**, 205, 110446 ○
- 187 Thermodynamically-consistent derivation and computation of twinning and fracture in brittle materials by means of phase-field approaches in the finite element method. **2022**, 252, 111789 ○
- 186 Influence of Heat Treatment on Microstructure and Mechanical Properties of Az61 Magnesium Alloy Prepared by Selective Laser Melting (Slm). ○
- 185 Review about the corrosion behavior of magnesium alloys for biomedical applications. **2022**,
- 184 Thermal properties of AZ series cast Magnesium alloys.
- 183 Gating System Optimization for EV31A Magnesium Alloy Engine Body Sand Casting. **2022**, 15, 4620 1
- 182 Dissimilar Joining of Al/Mg Light Metals by Centrifugal Compound Casting Process.
- 181 Roll bonding mechanism for Mg/Al composite plate based on electron work function in the initial stage. ○

- 180 Achieving high strength and ductility in GNSs/Mg nanocomposites fabricated by in-situ liquid metallurgy combined with hot extrusion. **2022**, 107079 2
- 179 Tribological Performance of Silicone Oil Based Al₂O₃ Nano Lubricant for an Mg Alloy Subjected to Sliding at Elevated Temperatures. **2022**, 107779 0
- 178 An Evaluation of the Mechanical Properties, Microstructures, and Strengthening Mechanisms of Pure Mg Processed by High-Pressure Torsion at Different Temperatures. 2200799 1
- 177 Studies on Corrosion Behavior of Mg-Al-Zn-RE Cast Alloy with Powder-Coated Al and CED Mg by Salt Spray Test, Immersion Test, and Electrochemical Test. **2022**, 2022, 1-11 0
- 176 Effect of Heat Treatment on Microstructures and Mechanical Properties of Mg_{0.5}Gd_{0.5}Nd_{0.5}Zn_{0.4}Zr Alloy. 0
- 175 High-speed face milling of AZ91 Mg alloy: Surface integrity investigations. **2022**, 5, 528-542 0
- 174 Microstructure and texture evolution during grain growth of AM30 magnesium alloy. 1-27
- 173 Optimization of process variables for surface roughness and tool wear deviation of AZ31 alloy during face milling. **2022**, 0
- 172 Improving the Mechanical and Wear Properties of Mg/Mg₂Si In-Situ Composite via Hybrid SiCp and Hot Working. 0
- 171 Influence of Zr and Mn additions on microstructure and properties of Mg_{0.5}wt%Cu_xwt%Zn (X = 2.5, 5 and 6.5) alloys. **2022**, 29, 1733-1745 0
- 170 Multi-solute solid solution behavior and its effect on the properties of magnesium alloys. **2022**, 10, 1786-1820 1
- 169 Temperature dependence of mode I fracture behaviour of a textured magnesium alloy. 1
- 168 Impression creep behavior of different zones in friction stir welded Mg_{0.5}Zn_{0.5}Mn wrought alloy. **2022**, 57, 15059-15077 0
- 167 Effect of Laser Surface Texturing parameters on the texture formation in pure magnesium substrate. **2022**, 0
- 166 Synchrotron Radiation Spectroscopic Studies of Mg²⁺ Storage Mechanisms in High-Performance Rechargeable Magnesium Batteries with Co-Doped FeS₂ Cathodes. 2201608 1
- 165 The Effect of ECAP Processing Conditions on Microstructural Evolution and Mechanical Properties of Pure Magnesium Experimental, Mathematical Empirical and Response Surface Approach. **2022**, 15, 5312 2
- 164 Bioinspired Surface Design for Magnesium Alloys with Corrosion Resistance. **2022**, 12, 1404 0
- 163 Microstructure evolution maps of AZ31 and AZ91/Mg₂Si alloys under precompression and subsequent annealing conditions. **2022**, 854, 143814 0

162	Laser powder bed fusion: a state-of-the-art review of the technology, materials, properties & defects, and numerical modelling. 2022 , 20, 2109-2172	3
161	Plasticity enhancement in pure magnesium achieved based on initial twin orientation regulation. 2022 , 852, 143735	0
160	Precipitation evolution induced by electron beam irradiation in Mg-RE alloys. 2022 , 192, 112196	
159	Phase transformations in an ultralight BCC Mg alloy during anisothermal ageing. 2022 , 239, 118248	4
158	A review on manufacturability of magnesium matrix composites: Processing, tribology, joining, and machining. 2022 , 39, 134-158	1
157	The influence of surface Fe on the corrosion of Mg. 2022 , 170, 110936	0
156	First-principles prediction of electrochemical polarization and mechanical behavior in Mg based intermetallics. 2022 , 214, 111667	1
155	Correlation of crystal orientation, crystal morphology and mechanical properties of directionally solidified Mg-xGd alloys. 2022 , 924, 166512	0
154	Electrochemical hydrogen storage, mechanical and thermal behaviors of novel Mg-based alloy. 2022 , 11, 1-9	
153	Effect of process parameters on Mg/Gr (MMC) and GFRP by using abrasive air jet machine. 2022 ,	0
152	Fundamental Study on the Development of Pure Magnesium Parts by Additive Manufacturing: An Experimental and Computational Analysis.	0
151	Improving the mechanical properties of a WE54 magnesium alloy through severe friction stir processing and rapid cooling. 2022 , 856, 143963	1
150	Effects of HVOF spray parameters on porosity and hardness of 316L SS coated Mg AZ80 alloy. 2022 , 448, 128898	1
149	A stearic acid/polypyrrole-based superhydrophobic coating on squeeze-cast Mg-Sr-Y-Ca-Zn alloys for improved salt-water corrosion. 2022 , 448, 128890	0
148	Elucidating dynamic precipitation and yield strength of rolled Mg-Al-Ca-Mn alloy. 2022 , 856, 143898	0
147	Enhanced stretch formability of AZ31 magnesium alloy sheet by secondary regulation of initial twin orientation. 2022 , 327, 133083	0
146	Elucidation of formation and transformation mechanisms of Ca-rich Laves phase in Mg-Al-Ca-Mn alloys. 2022 , 928, 167177	0
145	Improved corrosion resistance of MAO coating on Mg-Li alloy by RGO modified silanization. 2022 , 929, 167283	0

- 144 Structure and texture of pure magnesium after the backward extrusion at room temperature. **2022** , ○
- 143 Mechanical properties and failure analysis of laminated magnesium-intermetallic composites. **2022**, 9, 572-583 ○
- 142 Novel Efficient Reduction Route for Magnesium Production Using Silicothermic Process. **2022**, 15, 6009 ○
- 141 Effect of Morphological and Microstructural Variations on the Properties of Electroless Nickel Boron Coatings. ○
- 140 A review of effective strides in amelioration of the biocompatibility of PEO coatings on Mg alloys. **2022**, 1 ○
- 139 Quasi-In-Situ Analysis of As-Rolled Microstructure of Magnesium Alloys during Annealing and Subsequent Plastic Deformation. **2022**, 15, 6581 ○
- 138 Progress of laser surface treatment on magnesium alloy. 10, ○
- 137 Investigation of the Effect of La and Ti Addition to Mg-Sn-Al Alloy on Microstructure, Mechanical and Corrosion Properties. ○
- 136 Effect of annealing on microstructure and tensile properties of as-extruded Mg-5Gd-4Y-0.5Zn-0.5Zr alloy. **2022**, ○
- 135 Microstructures, Wear and Corrosion Behaviors of Laser Cladding In Situ Synthetic Al₃Ti/AlNi/AlNi₃/MgNi₂ Composite Coatings on Magnesium Alloy using Al as Middle Layer. ○
- 134 Adhesion strength, interfacial bonding, and fracture mechanism of the Mg/Ti₂AlC interface from first-principles calculation. **2022**, 20, 3195-3207 2
- 133 Effect on microstructure and properties of LA103Z Mg-Bi alloy plate by multi-pass friction stir processing. **2022**, 20, 3985-3994 1
- 132 Machinability and surface integrity investigation during helical hole milling in AZ31 magnesium alloy. **2022**, ○
- 131 Effect of Process Temperature on the Texture Evolution and Mechanical Properties of Rolled and Extruded AZ31 Flat Products. **2022**, 12, 1307 1
- 130 An efficient temperature-dependent crystal plasticity framework for pure magnesium with emphasis on the competition between slip and twinning. **2022**, 103448 ○
- 129 In-situ aging treatment by preheating to obtain high-strength ZK60 Mg alloy processed by laser powder bed fusion. **2022**, 112361 ○
- 128 Cyclic bending under tension of alloy AZ31 sheets: Influence on elongation-to-fracture and strength. **2022**, 857, 144127 ○
- 127 First-principles investigation of mechanical properties, elastic anisotropy, and ultralow lattice thermal conductivities of ductile MgBi alloys. **2022**, 206, 111535 ○

126	Formability of magnesium alloy sheets: An insight. 2022,	0
125	Biodegradable Mg Alloys for Orthopedic Implant Materials. 2022, 1-29	0
124	Evolution of microstructure and mechanical properties of ZK60 magnesium alloy processed by asymmetric lowered-temperature rolling. 2022, 32, 2877-2888	0
123	A comparative study and optimization of corrosion resistance of MgAl layered double hydroxides films at different hydrothermal temperatures on LA103Z MgLi alloy.	0
122	Mixing Enthalpies of Liquid AgMgPb Alloys: Experiment vs. Thermodynamic Modeling. 2022, 15, 7360	0
121	A REVIEW ON UNDERSTANDING OF CORROSION AND PROTECTION STRATEGIES OF MAGNESIUM AND ITS ALLOYS.	0
120	Achieving Ultra-Fine Grains and Improved Mechanical Properties in a Mg-Zn-Al-Ca Alloy via Forward Extrusion and Post Decreased-Temperature Equal Channel Angular Pressing.	0
119	Modeling of the Closure of Metallurgical Defects in the Magnesium Alloy Die Forging Process. 2022 , 15, 7465	2
118	Influence of Silicon Addition on the Microstructure and Mechanical Properties of WE43 Alloy.	0
117	Effects of Rolling-Cryogenic Process on Microstructure and Mechanical Properties of AZ31 Magnesium Alloy Sheets.	0
116	Influence of Heat Treatment on Microstructure and Mechanical Properties of AZ61 Magnesium Alloy Prepared by Selective Laser Melting (SLM). 2022, 15, 7067	0
115	Shock compression of magnesium alloy by ultrashort loads driven by sub-picosecond laser pulses. 2022, 132, 175104	2
114	The effects of microstructure on deformation twinning in Mg WE43. 2022, 859, 144189	0
113	Features of Composite Layers Created Using an Aqueous Suspension of a Fluoropolymer. 2022, 14, 4667	0
112	A review of micro/nanostructure effects on the machining of metallic materials. 2022, 224, 111315	0
111	Investigation of twin growth mechanisms in precipitate hardened AZ91. 2023, 242, 118471	0
110	A novel approach for determination of nucleation rates and interfacial energy of metallic magnesium nanoclusters at high temperature using non-isothermal TGA models. 2023, 265, 118223	0
109	Effect of deposition sequence of MgAl-LDH and SiO ₂ @PDMS layers on the corrosion resistance of robust superhydrophobic/self-healing multifunctional coatings on magnesium alloy. 2023, 174, 107299	1

108	Atomic-scale characterization of the precipitates in a Mg-Gd-Y-Zn-Mn alloy using scanning transmission electron microscopy. 2023 , 207, 111668	0
107	Grain refinement of Mg-alloys by native MgO particles: An overview. 2022 ,	0
106	The effect of friction stir process on the mechanical, tribological, and biocompatibility properties of AZ31B magnesium alloy as a biomaterial: A pilot study. 095441192211356	0
105	Micromechanical response of pure magnesium at different strain rate and temperature conditions: twin to slip and slip to twin transitions. 2022 , 118528	0
104	Determination of Secondary Cooling Zone Heat Transfer Coefficient with Different Alloy Types and Roughness in DC Casting by Inverse Heat Conduction Method. 2022 , 12, 1571	0
103	Analysis of room-temperature stamping formability of complex features of AZ31 magnesium alloy variable-curvature plate shell.	1
102	Progress in non-traditional machining of amorphous alloys. 2022 ,	1
101	Investigation into machining performance of microstructurally engineered in-situ particle reinforced magnesium matrix composite. 2022 ,	0
100	Property profile development during wire extrusion and wire drawing of magnesium alloys AZ31 and ZX10. 2022 , 224, 111355	0
99	Hard ultralight systems by thermal spray deposition of WC-CoCr onto AZ31 magnesium alloy. 2022 , 451, 129056	0
98	Solid-State Welding of Magnesium Alloys. 2023 , 123-145	0
97	Solid-State Friction Welding Technology for Joining of Lightweight Metal and Alloys. 2023 , 147-165	0
96	Production of high-purity Mg metal from dolomite through novel molten salt electrolysis and vacuum distillation. 2022 ,	0
95	Tribological characterization of stir-cast hybrid magnesium composite reinforced with Zirconium,Garnet and graphite particulates. 2022 ,	0
94	Tension-compression asymmetry and Bauschinger-like effect of AZ31 magnesium alloy bars processed by ambient extrusion. 2023 , 862, 144353	1
93	Microstructure and surface integrity of machined AZ91 magnesium alloy. 2023 , 22, 735-746	1
92	The effect of grain size on deformation modes and deformation heterogeneity in a rolled MgZnCa alloy. 2023 , 22, 1723-1736	0
91	The effect of submicron SiC particles on the thermal stability of nanocrystalline AZ91 alloy. 2023 , 22, 519-530	0

90	Theoretical study of Ga-doped magnesium mineral based on the atomic cluster level: Gas-phase GaMg _n - (n=2-12) DFT investigation. 2023 , 811, 140218	0
89	Advanced in-situ experimental techniques for characterization of deformation mechanisms in magnesium alloys. 2023 , 937, 168388	0
88	Insights into crystal structure, elasticity, lattice dynamics, and thermodynamics of ternary magnesium alloy MgZn ₂ Ce. 2023 , 209, 111755	0
87	Effect of calcium and boron addition on the microstructure and compression properties of AZ91 cast magnesium alloy. 2022 , 22, 497-508	0
86	Phase Equilibria of the Mg-Sn-Pr Ternary System at 500°C. 2022 , 43, 576-584	0
85	Performance of PEO/Polymer Coatings on the Biodegradability, Antibacterial Effect and Biocompatibility of Mg-Based Materials. 2022 , 13, 267	1
84	Photoluminescent and Photocatalytic Properties of Eu ³⁺ -Doped MgAl Oxide Coatings Formed by Plasma Electrolytic Oxidation of AZ31 Magnesium Alloy. 2022 , 12, 1830	2
83	AM60-AlN Nanocomposite and AM60 Alloy Corrosion Activity in Simulated Marine-Coastal Ambience. 2022 , 12, 1997	0
82	Study on the Influence of Graphene Content Variation on the Microstructure Evolution and Properties of Laser Additive Manufacturing Nickel-Based/SiC Composite Cladding Layer on Aluminum Alloy Surface. 2022 , 15, 8219	0
81	Structural stability, elasticity and minimum thermal conductivity of M-doped Mg ₁₇ Al ₁₂ (M=Ga, In, Ge, Sn, Pb) compounds: A first-principles predictions.	0
80	Roles of β phase on AZ91D Magnesium Alloy Pit Corrosion: In Situ Study by Electrochemical Noise Analysis and Scanning Electrochemical Microscopy. ArticleID:221243	0
79	Investigating the Mg ₁₇ Al ₁₂ Alloy under Pressure Using First-Principles Methods: Structure, Elastic Properties, and Mechanical Properties. 2022 , 12, 1741	0
78	Thermo-Mechanical Modelling of Friction Stir Processing of AZ91 Alloy: Using Smoothed-Particle Hydrodynamics. 2022 , 10, 355	0
77	Fabrication of a model specimen for understanding micro-galvanic corrosion at the boundary of Mg and Mg ₁₇ Al ₁₂ . 2022 ,	0
76	White light-emitting, biocompatible, water-soluble metallic magnesium nanoclusters for bioimaging applications. 2023 , 34, 105702	0
75	Optimizing the Tribological Process Parameters of Calcium Hexaboride Reinforced Magnesium Composite Using Grey Relational Analysis.	0
74	Refinement of the Magnesium-Aluminium Alloy Microstructure with Zirconium. 2022 , 15, 8982	0
73	Oscillating laser-arc hybrid additive manufacturing of AZ31 magnesium alloy. 2022 ,	0

- 72 Ultra-strong Mg alloy with nano-grain structures produced by a high-throughput magnetron co-sputtering method for the full chemistry spectra. **2022**, 57, 21813-21827 ○
- 71 Microstructure and mechanical properties of GTA-based wire arc additive manufactured AZ91D magnesium alloy. **2022**, ○
- 70 Heat-induced structural changes in magnesium alloys AZ91 and AZ31 investigated by in situ synchrotron high-energy X-ray diffraction. **2022**, 57, 21446-21459 ○
- 69 Effect of Squeeze Casting and Combined Addition of Calcium and Strontium on Microstructure and Mechanical Properties of AZ91 Magnesium Alloy. ○
- 68 Mechanism of precipitation distribution in WE43 alloy. **2023**, 112660 ○
- 67 Enhancing corrosion resistance of magnesium alloys via combining green chicory extracts and metal cations as organic-inorganic composite inhibitor. **2023**, ○
- 66 On Shapes and Orientations of Precipitation Strengthening Phases in an Aged Mg₉₂Al Alloy. ○
- 65 Oscillating Laser-Arc Hybrid Additive Manufacturing of AZ31 Magnesium Alloy. **2023**, 13, 897 1
- 64 Relationship between the fatigue behavior and grain structures of an as-extruded Mg-6.2%Zn-0.6%Zr (in wt.%) alloy. **2023**, ○
- 63 A Review of Challenges for Wire and Arc Additive Manufacturing (WAAM). ○
- 62 A Review on Heat Treatment of Magnesium Alloys and Its Effect on Various Properties. **2023**, 77-87 ○
- 61 First-principles Study of Electronic Structural and Mechanical Properties of Mg_xLa_(x=1, 2, 3) Compounds under Pressure. **2023**, 38, 192-198 ○
- 60 Influence of ultrasonic shot peening on the microstructure and impression creep performance of squeeze-cast AZ91 alloy reinforced with graphene nanoplatelets. **2023**, 938, 168640 ○
- 59 Macro-micro numerical simulation and experimental study of Mg-Gd-Y-Zn-Zr alloy fabricated by cold metal transfer wire arc additive manufacturing. **2023**, 23, 403-418 ○
- 58 Microstructure and mechanical properties of AZ31 magnesium alloy prepared using wire arc additive manufacturing. **2023**, 939, 168665 ○
- 57 Effect of rolling reduction on deformation mechanism and twinning behavior of WE43 magnesium alloy. **2022**, 32, 3901-3913 ○
- 56 ANFIS Model ile Mg Ala₉₂lar₈ın SRE₁₁ Stabilirlili₁₁in Tahminleme Performans₁₁ın İncelenmesi. **2022**, 22, 1469-1482 ○
- 55 Investigation of Mechanical Properties and Microstructure of AZ31-SiC-Graphite Hybrid Nanocomposites Fabricated by Bottom Pouring-Type Stir Casting Machines. **2023**, 2023, 1-8 ○

54	Operating slip modes and inhomogeneous plastic deformation of Mg-10Gd-3Y-0.5Zr alloy during compression. 2023 , 33, 79-94	0
53	Strengthening behaviour of forged in-situ developed magnesium composites. 1-11	0
52	Influence of Microstructure on the Mechanical and Corrosion Response of a Friction Stir-Extruded WE43 Magnesium Rod. 2023 , 13, 191	1
51	Development of high-strength magnesium alloys with excellent ignition-proof performance based on the oxidation and ignition mechanisms: A review. 2023 ,	1
50	First-Principles Investigations into the Electrochemical Behavior of Mg-Based Intermetallics. 2023 , 59-61	0
49	Effects of heat input on microstructures and mechanical properties of LAZ931 magnesium-lithium alloy by CO2 laser welding. 2023 , 35, 105536	0
48	Effects of Addition of Yttrium on the Microstructure, Compression Properties and Corrosion Resistance of Injection Molding AZ91D-1.6Ca Magnesium Alloy.	0
47	Effect of extrusion temperature on microstructure, mechanical properties, and deformation mechanism of Mg-2.5Er-0.6Zr alloy. 2023 ,	0
46	Study on heat transfer behavior and process optimization in differential phase electromagnetic DC casting of extra-large AZ31B alloy flat ingot: numerical simulation and experimental verification. 2023 , 24, 1108-1131	0
45	Simulation of dislocation slip and twin propagation in Mg through coupling crystal plasticity and phase field models. 2023 , 180, 104608	0
44	Study on microstructure and properties of Mg-Al-Si-Ca alloy by heat treatment. 2023 , 947, 169431	0
43	A novel precipitated compound Gd3Y in Mg-Gd-Y-Ni/Cu alloys: Atomic-scale HAADF-STEM observation combined with first-principles calculations. 2023 , 946, 169432	0
42	Identifying the effect of coherent precipitates on the deformation mechanisms by in situ neutron diffraction in an extruded magnesium alloy under low-cycle fatigue conditions. 2023 , 251, 118903	0
41	Predicting the hot tearing susceptibility of Mg-10Gd-xZn alloys from a perspective of thermal analysis and thermodynamic modeling. 2023 , 945, 169262	0
40	Tensile creep behaviors of Mg-10Gd-0.4Zr alloy in different heat treatment states. 2023 , 35, 105851	0
39	Study of microstructure and mechanical properties of MgBY-1REmOn composites by Y-REmOn (RE=La, Ce, Sm, Gd) in-situ reaction. 2023 , 24, 2145-2154	0
38	Investigation of Microstructure and Texture Evolution in an AZ31/MgGd Alloy Hybrid Metal Fabricated by High-Pressure Torsion. 2201794	1
37	Quasicrystal phase evolution and mechanical properties of Mg-3.5Zn-0.6Gd alloy processed by high-pressure torsion. 2023 , 210, 111873	1

- 36 Evaluation of Microstructure, Mechanical Properties, Wear Resistance and Corrosion Behaviour of Friction Stir-Processed AZ31B-H24 Magnesium Alloy. **2023**, 12, 34-48 ○
- 35 Cold metal transfer-based wire arc additive manufacturing. **2023**, 45, ○
- 34 Investigation on Mechanical and Wear Performance of Ultrasonic-Assisted Stir Cast AZ91D/Al₂O₃ Magnesium Matrix Composites. ○
- 33 Effect of ECAP die angle and route type on the experimental evolution, crystallographic texture, and mechanical properties of pure magnesium. **2023**, 13, ○
- 32 Controlling the mechanical failures of stir-cast Mg-AZ91D alloy using dicalcium silicate reinforcement. **2023**, 146, 107139 ○
- 31 Differences in Properties between Hybrid Wire Arc Additive-Milling Subtractive Manufactured Aluminum and Magnesium Alloys. **2023**, 13, 2720 ○
- 30 An investigation on the hot workability and microstructural evolution of a novel dual-phase Mg₂Li alloy by using 3D processing maps. **2023**, 23, 5486-5501 ○
- 29 Experimental study of in-vitro bioanalysis and in-vivo living tissue biocompatibility of Mg₂Ni alloys. ○
- 28 Corrosion resistance of AlN monolayer and Al/AlN multilayer deposited by filtered cathodic vacuum arc. **2023**, 772, 139762 ○
- 27 A Review Study for Creep in Different Nanocomposites. ○
- 26 Biodegradable Mg Alloys for Orthopedic Implant Materials. **2023**, 1211-1239 ○
- 25 Mechanical Behavior and Physical Properties of Mg Binary Alloys via Y-doping: Molecular Dynamic Study. ○
- 24 Study on the Heterogeneous Nucleation Mechanism of SiCp/AZ91 Magnesium Matrix Composites under Pulse Current. **2023**, 16, 1993 ○
- 23 First-principles study on the interfacial bonding strength and segregation at Mg/MgZn₂ matrix interface. **2023**, ○
- 22 Microstructure and Mechanical Properties of Magnesium Matrix Composites Reinforced by In Situ Reduced Graphene Oxide. **2023**, 16, 2303 ○
- 21 Creep deformation study of squeeze cast AZ91 magnesium alloy. 1-13 ○
- 20 Effect of gravity die casting, squeeze casting and extrusion on microstructure, mechanical properties and corrosion behaviour of AZ91 magnesium alloy. **2023**, ○
- 19 Production of WE43 magnesium alloy by powder metallurgy and the effect of glucose on wear resistance in biocorrosive wear. **2023**, 18, 021002 ○

- 18 AZ91 MAGNEZYUM ALAİMİNİN SAF Sİ TOZU ORTAMINDA KAPLANABİLİRLİĞİNİN İNCELENMESİ **2023**, 26, 33-42 ○
- 17 Effect of Crystallographic Orientations on Bendability in a Strongly Textured Mg-9Al Extrusion Plate and Texture Evolution during Three-Point Bending. **2023**, 16, 2518 ○
- 16 A First-principles Study on the Adhesion Strength, Interfacial Stability, and Electronic Properties of Mg/Mg₂Y Interface. ○
- 15 Behavior of a Magnesium Alloy under High-Speed Strain under the Action of a Shock-Wave Load. **2022**, 60, 727-730 ○
- 14 Effect of Alloying Elements on the Dry Sliding Wear Characteristics of Gravity-Cast Mg-Sn Based Alloys. ○
- 13 Crystallization Kinetics Analysis of the Binary Amorphous Mg₇₂Zn₂₈ Alloy. **2023**, 16, 2727 ○
- 12 Effects of Trace Additions of Magnesium on Microstructure and Properties of Fe-36Ni Invar Alloy. ○
- 11 The Effect of Graphene Nanoplatelets Content on the Hardness of Mg_{6%}Zn_{0.2%}Mn Composites. **2023**, 31, 1493-1502 ○
- 10 Microstructure and Mechanical Behaviour of Mg₄Zn₂Sr Alloy with Varying Zirconium Addition. ○
- 9 Measurement and optimization of cutting forces, surface roughness and temperature in turning of AZ91 Mg alloy. **2023**, 48, ○
- 8 Investigation of Intermetallic Phase Fractions and Dry-corrosive Wear Properties in Mg₄Al₃Bi Ternary Alloy. ○
- 7 Synthesis and characterisation of magnesium-based nano-composite [A review. 095440892311677 ○
- 6 Self-Consistent Crystal Plasticity Modeling of Slip-Twin Interactions in Mg Alloys. **2023**, 13, 653 ○
- 5 A review on developing high-performance ZE41 magnesium alloy by using bulk deformation and surface modification methods. **2023**, ○
- 4 Degree of Impurity and Carbon Contents in the Grain Size of Mg-Al Magnesium Alloys. **2023**, 16, 3069 ○
- 3 Preparation of High-Purity Magnesium from Electrolytically Produced Crude Magnesium via Vacuum Distillation. **2023**, 13, 811 ○
- 2 Microstructure, Texture Evolution, and Strain Hardening Behaviour of As-extruded Mg-Zn and Mg-Y Alloys under Compression. **2023**, 38, 430-439 ○
- 1 Insight into structure, elastic anisotropy, and phonon dispersion relations of Mg₁₇Ce₂ and Mg₄₁Ce₅ alloys. **2023**, 213, 112128 ○

