

List of Publications by Year in  
Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

181 papers	3,851 citations	33 h-index	54 g-index
182 ext. papers	4,686 ext. citations	4.2 avg, IF	5.71 L-index

#	Paper	IF	Citations
181	On the microstructural characteristics and mechanical properties of Al <sub>2</sub> Li <sub>2</sub> Cu <sub>0.5</sub> Mg alloy: the role of Yb additions. <i>Journal of Materials Science</i> , <b>2022</b> , 57, 3688-3708	4.3	0
180	Origin of the age-hardening and age-softening response in Mg-Li-Zn based alloys. <i>Acta Materialia</i> , <b>2022</b> , 226, 117673	8.4	5
179	Rapid detection of hysteromyoma and cervical cancer based on serum surface-enhanced Raman spectroscopy and a support vector machine.. <i>Biomedical Optics Express</i> , <b>2022</b> , 13, 1912-1923	3.5	0
178	Effect of heat treatment on the stress corrosion cracking behavior of cast Mg-3Nd-3Gd-0.2Zn-0.5Zr alloy in a 3.5 wt% NaCl salt spray environment. <i>Materials Characterization</i> , <b>2022</b> , 183, 111630	3.9	4
177	Improvements of elevated temperature tensile strengths of Mg-Gd-Y-Zr alloy through squeeze cast. <i>Materials Characterization</i> , <b>2022</b> , 184, 111658	3.9	0
176	Role of Ti in the microstructure evolutions and mechanical properties of cast Al-2.5Li-1.5Cu-1Zn-0.5Mg(0.2Zr) alloys. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 899, 163320	5.7	0
175	Addressing the strength-ductility trade-off in a cast Al-Li-Cu alloySynergistic effect of Sc-alloying and optimized artificial ageing scheme. <i>Journal of Materials Science and Technology</i> , <b>2022</b> , 96, 212-225	9.1	6
174	Plastic deformation and heat treatment of Mg-Li alloys: a review. <i>Journal of Materials Science and Technology</i> , <b>2022</b> , 99, 193-206	9.1	8
173	A novel process for grain refinement of Mg-RE alloys by low frequency electro-magnetic stirring assisted near-liquidus squeeze casting. <i>Journal of Materials Processing Technology</i> , <b>2022</b> , 303, 117537	5.3	0
172	Exceptional grain refinement of Mg-Zr master alloy treated by tungsten inert gas arc re-melting with ultra-high frequency pulses. <i>Scripta Materialia</i> , <b>2022</b> , 215, 114700	5.6	0
171	Serum Raman spectroscopy combined with convolutional neural network for label-free detection of echinococcosis. <i>Journal of Raman Spectroscopy</i> , <b>2022</b> , 53, 182-190	2.3	0
170	Effects of heat treatment and pre-stretching on the mechanical properties and microstructure evolution of extruded 2050 Al <sub>2</sub> Cu <sub>2</sub> Li alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2022</b> , 845, 143236	5.3	0
169	Reducing Motion Blur in Ghost Imaging Via the Hessian Matrix. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 323	2.6	1
168	Label-free detection of echinococcosis and liver cirrhosis based on serum Raman spectroscopy combined with multivariate analysis. <i>Photodiagnosis and Photodynamic Therapy</i> , <b>2021</b> , 33, 102164	3.5	0
167	The role of Gd on the microstructural evolution and mechanical properties of Mg-3Nd-0.2Zn-0.5Zr alloy. <i>Materials Characterization</i> , <b>2021</b> , 175, 111076	3.9	3
166	High cycle fatigue behavior and mechanical performance of a novel sand-cast Mg-Nd-Gd alloy: Effect of heat treatment. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 813, 141172	5.3	4
165	Variation in the microstructure and mechanical properties of permanent mold cast Al <sub>2</sub> Li <sub>2</sub> Mg <sub>0.1</sub> Zr alloy with Zn addition. <i>Journal of Materials Research</i> , <b>2021</b> , 36, 2071-2082	2.5	0

164	High-Cycle Fatigue Behavior of Deep CryogenicElevated Temperature Cycling Treated Sand-Cast Mg-8Gd-0.5Zr Alloy. <i>Advanced Engineering Materials</i> , <b>2021</b> , 23, 2100234	3.5	
163	Addressing the abnormal grain coarsening during post-weld heat treatment of TIG repair welded joint of sand-cast Mg-Y-RE-Zr alloy. <i>Materials Characterization</i> , <b>2021</b> , 176, 111125	3.9	4
162	The role of Yb content on the microstructural evolution and mechanical characteristics of cast Mg-9Gd-0.5Zn-0.2Zr alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 817, 141292	5.3	3
161	Research on the post-weld heat treatment of TIG repair welded joint of sand-cast Mg-Y-RE-Zr alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 821, 141577	5.3	2
160	Combining derivative Raman with autofluorescence to improve the diagnosis performance of echinococcosis. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2021</b> , 247, 1190834	4.4	5
159	Recent developments and applications on high-performance cast magnesium rare-earth alloys. <i>Journal of Magnesium and Alloys</i> , <b>2021</b> , 9, 1-20	8.8	60
158	Rapid cooling effect during solidification on macro- and micro-segregation of as-cast Mg-9Gd alloy. <i>Progress in Natural Science: Materials International</i> , <b>2021</b> , 31, 68-76	3.6	3
157	Achieving low-temperature Zr alloying for microstructural refinement of sand-cast Mg-Gd-Y alloy by employing zirconium tetrachloride. <i>Materials Characterization</i> , <b>2021</b> , 171, 110727	3.9	6
156	Role of extrusion temperature on the microstructure evolution and tensile properties of an ultralight Mg-Li-Zn-Er alloy. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 876, 160181	5.7	8
155	High-cycle fatigue behavior of Mg-8Li-3Al-2Zn-0.5Y alloy under different states. <i>Journal of Magnesium and Alloys</i> , <b>2021</b> , 9, 1609-1618	8.8	5
154	An insight into the precipitate evolution and mechanical properties of a novel high-performance cast Al-Li-Cu-Mg-X alloy. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 875, 159996	5.7	6
153	Microstructure and mechanical properties of casting Al-3Li-2Mg-1Zn-0.1Zr alloys modified by Sc additions. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 885, 161106	5.7	1
152	Influence of trace As content on the microstructure and corrosion behavior of the AZ91 alloy in different metallurgical conditions. <i>Journal of Magnesium and Alloys</i> , <b>2020</b> , 8, 301-317	8.8	16
151	Microstructural Evolution and Mechanical Properties of As-Cast and As-Extruded Mg-4Li Alloy with Different Zn/Y and Zn/Gd Addition. <i>Advanced Engineering Materials</i> , <b>2020</b> , 22, 2000480	3.5	3
150	Role of Cu on the mechanical properties and microstructures evolution of Al-xCu-1Li-0.4Mg-1Zn-0.1Zr alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 792, 139833	5.3	2
149	Rapid and non-invasive screening of high-risk human papillomavirus using Fourier transform infrared spectroscopy and multivariate analysis. <i>Optik</i> , <b>2020</b> , 206, 164292	2.5	3
148	Effect of Different Ageing Processes on Microstructure and Mechanical Properties of Cast Al-3Li-2Cu-0.2Zr Alloy. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2020</b> , 33, 1243-1251	2.5	0
147	Microstructure characterization and mechanical properties of the as-cast and as-extruded Mg-xLi-5Zn-0.5Er (x = 8, 10 and 12 wt%) alloys. <i>Materials Characterization</i> , <b>2020</b> , 159, 110008	3.9	14

146	Microstructure and mechanical properties of sand-cast Mg-6Gd-3Y-0.5Zr alloy subject to thermal cycling treatment. <i>Journal of Materials Science and Technology</i> , <b>2020</b> , 43, 208-219	9.1	14
145	Effect of Zn on precipitation evolution and mechanical properties of a high strength cast Al-Li-Cu alloy. <i>Materials Characterization</i> , <b>2020</b> , 160, 110089	3.9	12
144	Formation of non-dendritic microstructures in preparation of semi-solid Mg-RE alloys slurries: Roles of RE content and cooling rate. <i>Journal of Materials Processing Technology</i> , <b>2020</b> , 279, 116545	5.3	5
143	Microstructure and mechanical properties of repair welds of low-pressure sand-cast Mg-RE-Zr alloy by tungsten inert gas welding. <i>Journal of Magnesium and Alloys</i> , <b>2020</b> ,	8.8	7
142	Rapid, non-invasive screening of keratitis based on Raman spectroscopy combined with multivariate statistical analysis. <i>Photodiagnosis and Photodynamic Therapy</i> , <b>2020</b> , 31, 101932	3.5	6
141	Microstructures and mechanical properties of ultralight cast Al-3Li-XMg-0.1Zr alloys. <i>Materials Characterization</i> , <b>2020</b> , 170, 110698	3.9	8
140	Effect of Zn Addition on the Microstructure and Mechanical Properties of Cast Mg-10Gd-3.5Er-0.5Zn Alloys. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2020</b> , 33, 1505-1517	2.5	4
139	Microstructure characteristics of an ultra-high strength extruded Al-4.7Cu-1Li-0.5Mg-0.1Zr-0.2Zn alloy during heat treatment. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 813, 152216	5.7	11
138	Effects of Ce-rich RE on microstructure and mechanical properties of as-cast Mg-8Li-3Al-2Zn-0.5Nd alloy with duplex structure. <i>Progress in Natural Science: Materials International</i> , <b>2019</b> , 29, 103-109	3.6	6
137	Effect of Y and Gd content on the microstructure and mechanical properties of Mg-RE alloys. <i>Journal of Magnesium and Alloys</i> , <b>2019</b> , 7, 345-354	8.8	71
136	Effects of Al and Y Addition on Microstructures and Mechanical Properties of As-Cast Mg-14Li Based Alloy. <i>Advanced Engineering Materials</i> , <b>2019</b> , 21, 1800755	3.5	6
135	Balance of mechanical properties of Mg-8Li-3Al-2Zn-0.5Y alloy by solution and low-temperature aging treatment. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 791, 655-664	5.7	20
134	Influences of Mg content on the microstructures and mechanical properties of cast Al-12Li-2Cu-0.2Zr alloy. <i>Journal of Materials Science</i> , <b>2019</b> , 54, 791-811	4.3	15
133	Optimizations of Canny Edge Detection in Ghost Imaging. <i>Journal of the Korean Physical Society</i> , <b>2019</b> , 75, 223-228	0.6	4
132	Effects of Mg and Sc additions on the microstructure, mechanical properties, and thermal stability of a cast Al-2Li-2Cu-0.2Zr alloy after thermal exposure. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 788, 367-382	5.7	7
131	High temperature mechanical behavior of low-pressure sand-cast Mg-10Gd-3Zr magnesium alloy. <i>Journal of Magnesium and Alloys</i> , <b>2019</b> , 7, 597-604	8.8	30
130	Microstructural characteristics and mechanical properties of extruded Al-4Cu-1Li-0.4Mg-0.1Zr-xZn alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 743, 223-232	5.3	6
129	Influence of Er addition on microstructure and mechanical properties of as-cast Mg-10Li-5Zn alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 739, 395-403	5.3	19

128	Effects of pressure and aging treatment on microstructures and mechanical properties of rheo-squeeze casting Mg <sub>90</sub> Nd <sub>0.2</sub> Zn <sub>0.4</sub> Zr alloy. <i>Journal of Materials Research</i> , <b>2018</b> , 33, 758-771	2.5	2
127	Effect of heat treatment on the microstructure and mechanical properties of extruded Al <sub>88</sub> Cu <sub>1</sub> Li <sub>0.4</sub> Mg <sub>0.4</sub> Ag <sub>0.18</sub> Zr Alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 717, 11-19	5.3	23
126	Effect of Zn addition on microstructure and mechanical properties of Mg <sub>90</sub> Gd <sub>3</sub> Y <sub>0.5</sub> Zr alloy. <i>Journal of Materials Research</i> , <b>2018</b> , 33, 733-744	2.5	8
125	Al <sub>85</sub> .5Mg <sub>1.5</sub> Li <sub>0.5</sub> Zn <sub>0.07</sub> Sc <sub>0.07</sub> Zr alloy produced by gravity casting and heat treatment processing. <i>Materials and Manufacturing Processes</i> , <b>2018</b> , 33, 891-897	4.1	13
124	Microstructure and High Temperature Tensile Properties of Mg <sub>90</sub> Gd <sub>3</sub> Y <sub>0.5</sub> Zr Alloy after Thermo-Mechanical Processing. <i>Metals</i> , <b>2018</b> , 8, 980	2.3	8
123	Effect of rolling strain on microstructure and tensile properties of dual-phase Mg <sub>80</sub> Li <sub>10</sub> Al <sub>10</sub> Zn <sub>0.5</sub> Y alloy. <i>Journal of Materials Science and Technology</i> , <b>2018</b> , 34, 2256-2262	9.1	16
122	Influence of Sc content on the microstructure and mechanical properties of cast Al-2Li-2Cu-0.5Mg-0.2Zr alloy. <i>Materials Characterization</i> , <b>2018</b> , 142, 223-236	3.9	31
121	Effects of processing parameters and addition of flame-retardant into moulding sand on the microstructure and fluidity of sand-cast magnesium alloy Mg-10Gd-3Y-0.5Zr. <i>Journal of Materials Science and Technology</i> , <b>2017</b> , 33, 558-566	9.1	5
120	Influences of Mn content on the microstructures and mechanical properties of cast Al-3Li-2Cu-0.2Zr alloy. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 715, 421-431	5.7	19
119	Effects of Sc addition on the microstructure and mechanical properties of cast Al-3Li-1.5Cu-0.15Zr alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 680, 232-238	5.3	38
118	Influence of heat treatment on cyclic deformation and low-cycle fatigue behavior of sand-cast Mg <sub>90</sub> Gd <sub>3</sub> Y <sub>0.5</sub> Zr magnesium alloy. <i>Journal of Materials Research</i> , <b>2017</b> , 32, 2179-2187	2.5	6
117	Effect of extrusion ratio on microstructure and mechanical properties of Mg <sub>80</sub> Li <sub>10</sub> Al <sub>10</sub> Zn <sub>0.5</sub> Y alloy with duplex structure. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 692, 9-16	5.3	33
116	Semi-solid slurry preparation, rheo-die casting and rheo-squeeze casting of an AZ91MgCa <sub>1.5</sub> Ce ignition-proof magnesium alloy by gas-bubbling process. <i>Journal of Materials Research</i> , <b>2017</b> , 32, 677-686	2.5	4
115	Effect of mold temperature on microstructure and mechanical properties of rheo-squeeze casting Mg <sub>90</sub> Nd <sub>0.2</sub> Zn <sub>0.4</sub> Zr alloy. <i>Journal of Materials Research</i> , <b>2017</b> , 32, 4206-4218	2.5	5
114	Effect of heat treatment on tensile properties, impact toughness and plane-strain fracture toughness of sand-cast Mg-6Gd-3Y-0.5Zr magnesium alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 705, 402-410	5.3	32
113	Effects of minor Y addition on microstructure and mechanical properties of Mg-Nd-Zn-Zr alloy. <i>Journal of Materials Research</i> , <b>2017</b> , 32, 3712-3722	2.5	5
112	Microstructure and mechanical properties of Mg <sub>90</sub> .0Y <sub>0.5</sub> Nd <sub>0.5</sub> Gd <sub>0.5</sub> Zn <sub>0.5</sub> Zr alloys produced by metallic and sand mold casting. <i>Journal of Materials Research</i> , <b>2017</b> , 32, 3191-3201	2.5	6
111	Microstructural evolution and mechanical properties of cast Al-2Li-2Cu-0.5Mg-0.2Zr alloy during heat treatment. <i>Materials Characterization</i> , <b>2017</b> , 132, 312-319	3.9	23

110	Influences of heat treatment on microstructural evolution and tensile behavior of squeeze-cast Mg <sub>90</sub> Gd <sub>10</sub> Zr alloy. <i>Journal of Materials Science</i> , <b>2017</b> , 52, 1831-1846	4.3	16
109	Effect of heat treatment on microstructure, mechanical properties and fracture behaviors of sand-cast Mg-4Y-3Nd-1Gd-0.2Zn-0.5Zr alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2016</b> , 677, 411-420	5.3	28
108	Average capacity of OAM-multiplexed FSO system with vortex beam propagating through non-Kolmogorov turbulence. <i>China Communications</i> , <b>2016</b> , 13, 153-159	3	13
107	Influence of different casting processes on high cycle fatigue behavior of Mg <sub>90</sub> Gd <sub>10</sub> Y <sub>0.5</sub> Zr alloy. <i>Journal of Materials Research</i> , <b>2016</b> , 31, 2538-2548	2.5	4
106	Effect of Gd content on high temperature mechanical properties of Mg <sub>90</sub> Gd <sub>10</sub> Zr alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2016</b> , 651, 840-847	5.3	60
105	Microstructural evolution and mechanical properties of cast Al-3Li-1.5Cu-0.2Zr alloy during heat treatment. <i>Materials Characterization</i> , <b>2016</b> , 114, 234-242	3.9	30
104	Preparation of Mg <sub>90</sub> Nd <sub>10</sub> Zn(Zr) alloys semisolid slurry by electromagnetic stirring. <i>Materials and Design</i> , <b>2016</b> , 95, 398-409	8.1	33
103	Effect of Y content on microstructure and mechanical properties of as-cast Mg <sub>8</sub> Li <sub>3</sub> Al <sub>10</sub> Zn alloy with duplex structure. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2016</b> , 650, 240-247	5.3	51
102	Influence of Pressure and Temperature on Microstructure and Mechanical Behavior of Squeeze Cast Mg-10Gd-3Y-0.5Zr Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2016</b> , 47, 4104-4115	2.3	11
101	High-Temperature Tensile and Compressive Behavior of Peak-Aged Sand-Cast Mg <sub>90</sub> Gd <sub>10</sub> Y <sub>0.5</sub> Zr Alloy. <i>Advanced Engineering Materials</i> , <b>2016</b> , 18, 671-677	3.5	9
100	Effects of Cu content on the microstructure, mechanical property, and hot tearing susceptibility of die casting hypereutectic Al <sub>10</sub> Si <sub>10</sub> .4Mg alloy. <i>Journal of Materials Research</i> , <b>2016</b> , 31, 3629-3637	2.5	1
99	Influence of heat treatment on microstructure and mechanical properties of as-cast Mg <sub>8</sub> Li <sub>3</sub> Al <sub>10</sub> Zn <sub>0.5</sub> Y alloy with duplex structure. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2016</b> , 669, 87-94	5.3	31
98	Effect of Mn addition on microstructure and mechanical properties of cast Al-2Li-2Cu-0.8Mg-0.4Zn-0.2Zr alloy. <i>Journal of Materials Research</i> , <b>2016</b> , 31, 250-258	2.5	9
97	Effect of solution treatment on microstructure and mechanical properties of cast Al <sub>3</sub> Li <sub>1.5</sub> Cu <sub>0.2</sub> Zr alloy. <i>Journal of Materials Research</i> , <b>2016</b> , 31, 1124-1132	2.5	12
96	Effect of Gd addition on the wear behavior of Mg <sub>90</sub> Gd <sub>10</sub> Y <sub>0.5</sub> Zr alloys. <i>Journal of Materials Research</i> , <b>2016</b> , 31, 1133-1144	2.5	2
95	Influence of cryogenic treatment on room and low temperature tensile behavior of as-cast Mg-10Gd-3Y-0.5Zr magnesium alloy. <i>Journal of Materials Research</i> , <b>2016</b> , 31, 419-426	2.5	4
94	Microstructural characteristics and mechanical properties of cast Al-3Li-xCu-0.2Zr alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2016</b> , 677, 29-40	5.3	35
93	Preparation of an Mg <sub>90</sub> Gd <sub>10</sub> Zn alloy semisolid slurry by low frequency electro-magnetic stirring. <i>Materials and Design</i> , <b>2015</b> , 84, 53-63	8.1	35



92	Refinement of primary Si in Al <sub>20</sub> Si alloy by MRB through phosphorus additions. <i>Journal of Materials Processing Technology</i> , <b>2015</b> , 225, 485-491	5.3	11
91	Effect of rotating gas bubble stirring process parameters on purifying effectiveness and mechanical properties of sand-cast Mg <sub>90</sub> Gd <sub>5</sub> Y <sub>2</sub> Zr alloy. <i>Journal of Materials Research</i> , <b>2015</b> , 30, 224-232	2.5	1
90	Preparation and rheo-squeeze casting of semi-solid AZ91 <sub>0</sub> wt% Ca magnesium alloy by gas bubbling process. <i>Journal of Materials Research</i> , <b>2015</b> , 30, 825-832	2.5	9
89	Microstructure and tensile properties of as-extruded Mg <sub>90</sub> Li <sub>5</sub> Zn <sub>5</sub> alloys reinforced with icosahedral quasicrystal phase. <i>Materials &amp; Design</i> , <b>2015</b> , 66, 162-168		45
88	Microstructure and mechanical properties of rheo-squeeze casting AZ91-Ca magnesium alloy prepared by gas bubbling process. <i>Materials &amp; Design</i> , <b>2015</b> , 67, 1-8		25
87	Microstructure and mechanical properties of as-cast and extruded Mg <sub>85</sub> Li <sub>5</sub> Al <sub>5</sub> Zn <sub>5</sub> alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 621, 198-203	5.3	29
86	Effect of Al additions on grain refinement and mechanical properties of Mg <sub>95</sub> alloys. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 620, 172-179	5.7	51
85	Beam wander of random electromagnetic Gaussian-shell model vortex beams propagating through a Kolmogorov turbulence. <i>Optics Communications</i> , <b>2015</b> , 336, 55-58	2	33
84	Microstructure characterization and high-temperature shear strength of the Mg <sub>90</sub> Gd <sub>5</sub> Y <sub>2</sub> Zn <sub>3</sub> alloy in the as-cast and aged conditions. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 619, 826-833	5.7	20
83	Effects of Gd and Zr additions on the microstructures and high-temperature mechanical behavior of Mg <sub>90</sub> Gd <sub>5</sub> Zr magnesium alloys in the product form of a large structural casting. <i>Journal of Materials Research</i> , <b>2015</b> , 30, 3461-3473	2.5	19
82	Activation of Methane by the Pyridine Radical Cation and its Substituted Forms in the Gas Phase. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2015</b> , 26, 1382-7	3.5	2
81	Mechanical and Tribological Characterization of Al-Mg <sub>2</sub> Si Composites After Yttrium Addition and Heat Treatment. <i>Journal of Materials Engineering and Performance</i> , <b>2014</b> , 23, 1146-1156	1.6	34
80	Effects of processing parameters on microstructure and mechanical properties of squeeze-cast Mg <sub>92</sub> Zn <sub>5</sub> Al <sub>3</sub> Ca alloy. <i>Materials &amp; Design</i> , <b>2014</b> , 63, 729-737		17
79	Effect of chemical composition on the microstructure, tensile properties and fatigue behavior of sand-cast Mg <sub>90</sub> Gd <sub>5</sub> Zr alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 612, 293-301	5.3	42
78	Effect of Gd content on microstructure and mechanical properties of Mg <sub>90</sub> Gd <sub>5</sub> Zr alloys under peak-aged condition. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 615, 79-86	5.3	53
77	Effects of Cooling Rate and Solute Content on the Grain Refinement of Mg-Gd-Y Alloys by Aluminum. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2014</b> , 45, 4665-4678	2.3	18
76	Propagation properties of electromagnetic multi-Gaussian Schell model beams propagating through atmospheric turbulence. <i>Journal of the Korean Physical Society</i> , <b>2014</b> , 64, 826-831	0.6	4
75	Effects of processing parameters and Ca content on microstructure and mechanical properties of squeeze casting AZ91 <sub>0</sub> Ca alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 595, 109-117	5.3	37

74	Beam wander of electromagnetic partially coherent flat-topped beam propagating in turbulent atmosphere. <i>Optik</i> , <b>2014</b> , 125, 561-564	2.5	1
73	Precipitation process in a Mg <sub>92</sub> Gd <sub>8</sub> alloy grain-refined by Al addition. <i>Materials Characterization</i> , <b>2014</b> , 88, 7-14	3.9	18
72	Effects of chemical composition on the microstructure and mechanical properties of gravity cast Mg <sub>92</sub> Zn <sub>8</sub> RE <sub>0</sub> alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 594, 52-61	5.3	17
71	High cycle fatigue behavior of different regions in a low-pressure sand-cast GW103K magnesium alloy component. <i>Journal of Materials Research</i> , <b>2014</b> , 29, 2587-2595	2.5	3
70	Fatigue behavior and plane-strain fracture toughness of sand-cast Mg <sub>90</sub> Gd <sub>10</sub> Y <sub>0.5</sub> Zr magnesium alloy. <i>Materials &amp; Design</i> , <b>2014</b> , 59, 466-474		37
69	High Cycle Fatigue of Cast Mg-3Nd-0.2Zn Magnesium Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2013</b> , 44, 5202-5215	2.3	27
68	Spectral changes of a radial Gaussian Schell-model beam array propagating in non-Kolmogorov turbulence. <i>Journal of the Korean Physical Society</i> , <b>2013</b> , 63, 1925-1931	0.6	0
67	Influence of solution temperature on fatigue behavior of AM-SC1 cast magnesium alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 565, 250-257	5.3	15
66	Grain refinement and fatigue strengthening mechanisms in as-extruded Mg <sub>92</sub> Zn <sub>8</sub> Y <sub>0.5</sub> Zr and Mg <sub>90</sub> Gd <sub>10</sub> Y <sub>0.5</sub> Zr magnesium alloys by shot peening. <i>International Journal of Plasticity</i> , <b>2013</b> , 49, 16-35	7.6	56
65	Heat treatment, microstructure and mechanical properties of a Mg <sub>92</sub> Gd <sub>8</sub> alloy grain-refined by Al additions. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 576, 298-305	5.3	34
64	Effect of cooling rate on the microstructure and mechanical properties of sand-casting Mg <sub>90</sub> Gd <sub>10</sub> Y <sub>0.5</sub> Zr magnesium alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 562, 152-160	5.3	41
63	Microstructure evolution of semi-solid Mg <sub>90</sub> Gd <sub>10</sub> Y <sub>0.5</sub> Zr alloy during isothermal heat treatment. <i>Journal of Magnesium and Alloys</i> , <b>2013</b> , 1, 39-46	8.8	22
62	Grain Refinement of Magnesium Alloys by Mg <sub>92</sub> Zr Master Alloys: The Role of Alloy Chemistry and Zr Particle Number Density. <i>Advanced Engineering Materials</i> , <b>2013</b> , 15, 373-378	3.5	35
61	Microstructure, mechanical properties and fracture behavior of peak-aged Mg <sub>34</sub> Y <sub>32</sub> Nd <sub>31</sub> Gd alloys under different aging conditions. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 561, 303-311	5.3	14
60	Effect of Rotating Gas Bubble Stirring Treatment on the Microstructures of Semi-Solid AZ91-2Ca Alloy <b>2013</b> , 1025-1033		
59	A novel biodegradable Mg <sub>92</sub> Nd <sub>8</sub> Zn <sub>0</sub> alloy with uniform corrosion behavior in artificial plasma. <i>Materials Letters</i> , <b>2012</b> , 88, 1-4	3.3	60
58	Effects of Ca content on the microstructure of semisolid Mg <sub>93</sub> Al alloy produced via isothermal heat treatment. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 534, 52-58	5.7	6
57	Grain refinement of Mg-10Gd alloy by Al additions. <i>Journal of Materials Research</i> , <b>2012</b> , 27, 2790-2797	2.5	31



56	Beam wander of electromagnetic Gaussian-Schell model beams propagating in atmospheric turbulence. <i>Applied Optics</i> , <b>2012</b> , 51, 7581-5	1.7	27
55	Electrodeposition of chemically and mechanically protective Al-coatings on AZ91D Mg alloy. <i>Corrosion Science</i> , <b>2011</b> , 53, 381-387	6.8	72
54	Study on the Grain Refinement Behavior of Mg-Zr Master Alloy and Zr Containing Compounds in Mg-10Gd-3Y Magnesium Alloy <b>2011</b> , 181-185		
53	Effects of coherence and polarization on the beam spreading and direction through atmospheric turbulence. <i>Optics Communications</i> , <b>2011</b> , 284, 4275-4278	2	8
52	Spreading of partially coherent Hermite-Gaussian beams through a non-Kolmogorov turbulence. <i>Optik</i> , <b>2011</b> , 122, 2029-2033	2.5	5
51	Evidence of zinc superoxide formation in the gas phase: comparisons in behaviour between ligated Zn(I/II) and Cu(I/II) with regard to the attachment of O <sub>2</sub> or H <sub>2</sub> O. <i>Dalton Transactions</i> , <b>2011</b> , 40, 11200-1043	4.3	8
50	The propagation of electromagnetic Gaussian-Schell model beams through atmospheric turbulence in a slanted path. <i>Journal of Optics (United Kingdom)</i> , <b>2011</b> , 13, 035706	1.7	13
49	Ultraviolet photofragmentation spectroscopy of alkaline earth dication complexes with pyridine and 4-picoline (4-methyl pyridine). <i>Journal of Physical Chemistry A</i> , <b>2011</b> , 115, 6948-60	2.8	4
48	Tailoring nickel coatings via electrodeposition from a eutectic-based ionic liquid doped with nicotinic acid. <i>Applied Surface Science</i> , <b>2011</b> , 257, 9094-9102	6.7	66
47	Beam propagation factor of partially coherent Hermite-Gaussian beams through non-Kolmogorov turbulence. <i>Optics and Laser Technology</i> , <b>2011</b> , 43, 1225-1228	4.2	13
46	Continuous intermetallic compounds coatings on AZ91D Mg alloy fabricated by diffusion reaction of Mg-Al couples. <i>Surface and Coatings Technology</i> , <b>2011</b> , 205, 2907-2913	4.4	42
45	Communication: Delayed asymmetric Coulomb fission of molecular clusters: application of a dielectric liquid-drop model. <i>Journal of Chemical Physics</i> , <b>2011</b> , 134, 031103	3.9	10
44	Study on the Grain Refinement Behavior of Mg-Zr Master Alloy and Zr Containing Compounds in Mg-10Gd-3Y Magnesium Alloy <b>2011</b> , 181-185		0
43	The UV photofragmentation spectroscopy of the metal dication complex [Mn(pyridine) <sub>4</sub> ] <sup>2+</sup> . <i>Molecular Physics</i> , <b>2010</b> , 108, 1199-1208	1.7	6
42	Spreading and direction of Gaussian-Schell model beam through a non-Kolmogorov turbulence. <i>Optics Letters</i> , <b>2010</b> , 35, 715-7	3	116
41	Grain refinement behavior of potassium fluozirconate (K <sub>2</sub> ZrF <sub>6</sub> ) salts mixture introduced into Mg-10Gd-3Y magnesium alloy. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 494, 426-433	5.7	15
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39	Polarization and intensity properties of converging J0-correlated Schell-model beams. <i>Optics Communications</i> , <b>2010</b> , 283, 3207-3212	2	1

38	Effects of flux containing YCl <sub>3</sub> on the yttrium loss, mechanical and corrosion properties of Mg <sub>10</sub> Gd <sub>3</sub> Y <sub>0.5</sub> Zr alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 527, 1510-1515	5.3	10
37	Photochemical Studies of Metal Dication Complexes in an Ion Trap <b>2010</b> , 847-862		
36	Gd contents, mechanical and corrosion properties of Mg <sub>10</sub> Gd <sub>3</sub> Y <sub>0.5</sub> Zr alloy purified by fluxes containing GdCl <sub>3</sub> additions. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2009</b> , 507, 207-214	5.3	27
35	Effect of Zr on the microstructure, mechanical properties and corrosion resistance of Mg <sub>10</sub> Gd <sub>3</sub> Y magnesium alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2009</b> , 523, 145-151	5.3	104
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33	Evidence of asymmetric cation solvation from the instability of [Pb(H <sub>2</sub> O) <sub>n</sub> ] <sup>2+</sup> complexes. <i>Chemical Communications</i> , <b>2009</b> , 4088-90	5.8	13
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30	Beam conditions for radiation generated by an electromagnetic J0-correlated Schell-model source. <i>Optics Letters</i> , <b>2008</b> , 33, 2677-9	3	11
29	Analytical vectorial structure of hollow Gaussian beams in the far field. <i>Optics Express</i> , <b>2008</b> , 16, 6417-24	3.3	61
28	State-resolved UV photofragmentation spectrum of the metal dication complex [Zn(pyridine) <sub>4</sub> ] <sup>2+</sup> . <i>Chemical Communications</i> , <b>2008</b> , 4153-5	5.8	13
27	Electrochemical behavior of magnesium alloys AZ91D, AZCe2, and AZLa1 in chloride and sulfate solutions. <i>Journal of Applied Electrochemistry</i> , <b>2008</b> , 38, 251-257	2.6	34
26	Spectral anomalies of focused hollow Gaussian beams at the geometrical focal plane. <i>Optics Communications</i> , <b>2008</b> , 281, 4169-4172	2	12
25	Propagation of flat-topped beams. <i>Optics and Laser Technology</i> , <b>2008</b> , 40, 494-498	4.2	8
24	Beam combination of a radial laser array: Flat-topped beam. <i>Optics and Laser Technology</i> , <b>2008</b> , 40, 890-894	4.4	6
23	Preparation of ultrafine calcium carbonate particles with micropore dispersion method. <i>Powder Technology</i> , <b>2007</b> , 172, 82-88	5.2	28
22	Precipitation of barium sulfate nanoparticles via impinging streams. <i>Materials Letters</i> , <b>2007</b> , 61, 168-170	3.3	25
21	Spectral behavior of partially coherent beam passing through an aperture. <i>Optics Communications</i> , <b>2007</b> , 278, 153-156	2	1

20	Trapping and recording the collision- and photo-induced fragmentation patterns of multiply charged metal complexes in the gas phase. <i>International Journal of Mass Spectrometry</i> , <b>2007</b> , 262, 211-219	1.9	15
19	Effect of Gas Bubbling on Tensile Elongation of Gravity Mold Castings of Magnesium Alloy. <i>Materials Transactions</i> , <b>2007</b> , 48, 2778-2781	1.3	9
18	Focal shift in focused radially polarized ultrashort pulsed laser beams. <i>Applied Optics</i> , <b>2007</b> , 46, 6251-5	1.7	6
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16	Online Word-of-Mouth (or Mouse): An Exploration of Its Antecedents and Consequences. <i>Journal of Computer-Mediated Communication</i> , <b>2006</b> , 11, 1104-1127	5.9	363
15	Influence of Ca on Corrosion Resistance of AZ91D. <i>Journal of the Electrochemical Society</i> , <b>2006</b> , 153, B283-9	3.9	9
14	Infrared multiphoton spectra from metal dication complexes in the gas phase. <i>Journal of Chemical Physics</i> , <b>2006</b> , 124, 201103	3.9	4
13	Comment on "partially coherent flat-topped beam and its propagation". <i>Applied Optics</i> , <b>2006</b> , 45, 366-8; discussion 369-71	1.7	6
12	Influence of cerium on the microstructure, mechanical properties and corrosion resistance of magnesium alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2006</b> , 433, 208-215	5.3	86
11	X-ray absorption fine structure and photon-stimulated ion desorption from solid $MoO_3$ at molybdenum 3p <sub>1/2</sub> , 3p <sub>3/2</sub> and oxygen 1s edges. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2006</b> , 245, 406-410	1.2	7
10	Paraxial propagation of partially coherent flat-topped beam. <i>Optics Communications</i> , <b>2006</b> , 260, 687-690	2	18
9	Influence of lanthanum on the microstructure, mechanical property and corrosion resistance of magnesium alloy. <i>Journal of Materials Science</i> , <b>2006</b> , 41, 5409-5416	4.3	34
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7	Determination of alkylphenol and bisphenol A in beverages using liquid chromatography/electrospray ionization tandem mass spectrometry. <i>Analytica Chimica Acta</i> , <b>2005</b> , 530, 245-252	6.6	81
6	Study on Fe reduction in AZ91 melt by $B_2O_3$ . <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2004</b> , 368, 311-317	5.3	31
5	Tensile properties of extruded ZK60RE alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2003</b> , 349, 207-212	5.3	145
4	Behavior of $Mg_{90}Al_{10}$ alloy during solution heat treatment at 415 °C. <i>Journal of Materials Science Letters</i> , <b>2002</b> , 21, 1281-1283		34
3	Photon-stimulated ion desorption from molybdenum oxides following Mo 2p <sub>3/2</sub> excitation. <i>Journal of Synchrotron Radiation</i> , <b>2001</b> , 8, 469-71	2.4	2

2 Fracture Behavior of Low-Pressure Sand-Cast Mg<sub>92</sub>Al<sub>8</sub> Magnesium Alloy Under Different Types of Loads. *Journal of Materials Engineering and Performance*,1 1.6

1 Microstructural Characteristics and Mechanical Properties of Cast Mg<sub>92</sub>Nd<sub>3</sub>Gd<sub>3</sub>Zn<sub>0.5</sub>Zr Alloys. *Acta Metallurgica Sinica (English Letters)*,1 2.5 0