

# Ming-Xing Zhang

## 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.

179  
papers

6,894  
citations

45  
h-index

75  
g-index

188  
ext. papers

8,441  
ext. citations

5.4  
avg. IF

6.32  
L-index

#	Paper	IF	Citations
179	Demonstrating the roles of solute and nucleant in grain refinement of additively manufactured aluminium alloys. <i>Additive Manufacturing</i> , <b>2022</b> , 49, 102516	6.1	3
178	Unveiling solidification mode transition and crystallographic characteristics in laser 3D-printed Al <sub>2</sub> O <sub>3</sub> -ZrO <sub>2</sub> eutectic ceramics. <i>Scripta Materialia</i> , <b>2022</b> , 210, 114433	5.6	0
177	Effect of solutes on the formation of primary carbides during solidification of hypereutectic high chromium cast irons through thermodynamic modeling. <i>Journal of Materials Science</i> , <b>2022</b> , 57, 1429	4.3	
176	Effect of shearing prestrain on the hydrogen embrittlement of 1180MPa grade martensitic advanced high-strength steel. <i>Corrosion Science</i> , <b>2022</b> , 199, 110170	6.8	1
175	Rationalization of brittleness and anisotropic mechanical properties of H13 steel fabricated by selective laser melting. <i>Scripta Materialia</i> , <b>2022</b> , 214, 114645	5.6	0
174	Effect of cold deformation on the hydrogen permeation in a dual-phase advanced high-strength steel. <i>Electrochimica Acta</i> , <b>2022</b> , 424, 140619	6.7	0
173	Novel approach to additively manufacture high-strength Al alloys by laser powder bed fusion through addition of hybrid grain refiners. <i>Additive Manufacturing</i> , <b>2021</b> , 48, 102400	6.1	2
172	Tuning the microstructure and mechanical properties of additive manufactured aluminum matrix composites by cold spray. <i>Surface and Coatings Technology</i> , <b>2021</b> , 127847	4.4	1
171	Study of Gold Leaching Behavior in the Chlorination Process from Waste Printed Circuit Boards. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 284-290	8.3	4
170	Grain Refinement of the CrMnFeCoNi High Entropy Alloy Cast Ingots by Adding Lanthanum. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2021</b> , 52, 1194-1199	2.5	1
169	Prediction of Mechanical Properties of Wrought Aluminium Alloys Using Feature Engineering Assisted Machine Learning Approach. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2021</b> , 52, 2873	2.3	2
168	The feasibility and limitation of urine as the electrolyte for primary Mg-air batteries. <i>Ionics</i> , <b>2021</b> , 27, 2733-2737	2.7	1
167	Nucleophilic Reactions of Osmanaphthalynes with PMe and H <sub>2</sub> O. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 9328-9335	4.8	2
166	Hydrogen fracture maps for sheared-edge-controlled hydrogen-delayed fracture of 1180 MPa advanced high-strength steels. <i>Corrosion Science</i> , <b>2021</b> , 184, 109360	6.8	4
165	Influences of additives on crystal multiformity and composition in a CaO-Al <sub>2</sub> O <sub>3</sub> -MgO-SiO <sub>2</sub> -Based glass-ceramics. <i>Advanced Composites and Hybrid Materials</i> , <b>2021</b> , 4, 614-628	8.7	0
164	Synthesis and properties of 3-fold symmetrical hexabenzocoronene-bridged trinuclear alkynylgold(I) complexes. <i>Journal of Coordination Chemistry</i> , <b>2021</b> , 74, 1765-1780	1.6	1
163	Effect of cooling rate on microstructure and mechanical properties of a low-carbon low-alloy steel. <i>Journal of Materials Science</i> , <b>2021</b> , 56, 3995-4005	4.3	7

162	Achieving high ductility in a selectively laser melted commercial pure-titanium via in-situ grain refinement. <i>Scripta Materialia</i> , <b>2021</b> , 191, 155-160	5.6	21
161	Recycling lithium cobalt oxide from its spent batteries: An electrochemical approach combining extraction and synthesis. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 405, 124211	12.8	15
160	Refinement of primary carbides in hypereutectic high-chromium cast irons: a review. <i>Journal of Materials Science</i> , <b>2021</b> , 56, 999-1038	4.3	8
159	Uncovering the roles of LaB <sub>6</sub> -nanoparticle inoculant in the AlSi10Mg alloy fabricated via selective laser melting. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 800, 140365	5.3	11
158	A cost-effective Fe-rich compositionally complicated alloy with superior high-temperature oxidation resistance. <i>Corrosion Science</i> , <b>2021</b> , 180, 109190	6.8	17
157	Hydrogen-induced delayed fracture of a 1180 MPa martensitic advanced high-strength steel under U-bend loading. <i>Materials Today Communications</i> , <b>2021</b> , 26, 101887	2.5	2
156	Understanding the discharge behavior of an ultra-high-purity Mg anode for Mg <sup>air</sup> primary batteries. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 21387-21401	13	3
155	Effect of Ce on solute redistribution in liquid ahead of solid-liquid interface during solidification of Fe- $\alpha$ wt.%Si alloy. <i>Journal of Iron and Steel Research International</i> , <b>2021</b> , 28, 1251-1258	1.2	
154	A novel strategy to additively manufacture 7075 aluminium alloy with selective laser melting. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 821, 141638	5.3	15
153	Hydrogen-induced fast fracture in notched 1500 and 1700 MPa class automotive martensitic advanced high-strength steel. <i>Corrosion Science</i> , <b>2021</b> , 188, 109550	6.8	3
152	Effect of TiB <sub>2</sub> addition on microstructure and mechanical properties of a hypereutectic high chromium cast iron. <i>Journal of Materials Science</i> , <b>2021</b> , 56, 19047	4.3	0
151	Osmaindenenes: Synthesis and Reversible Mechanochromism Characteristics. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 14645-14652	4.8	1
150	The significant impact of grain refiner on TiAl intermetallic fabricated by laser-based additive manufacturing. <i>Additive Manufacturing</i> , <b>2021</b> , 46, 102172	6.1	1
149	Additive manufacturing of high strength copper alloy with heterogeneous grain structure through laser powder bed fusion. <i>Acta Materialia</i> , <b>2021</b> , 220, 117311	8.4	3
148	A Novel Surface Treatment Technique for Titanium Alloys. <i>Jom</i> , <b>2020</b> , 72, 4583-4593	2.1	1
147	Hydrogen embrittlement of an automotive 1700 MPa martensitic advanced high-strength steel. <i>Corrosion Science</i> , <b>2020</b> , 171, 108726	6.8	20
146	Effect of processing parameters on the densification of an additively manufactured 2024 Al alloy. <i>Journal of Materials Science and Technology</i> , <b>2020</b> , 58, 34-45	9.1	37
145	Inoculation treatment of an additively manufactured 2024 aluminium alloy with titanium nanoparticles. <i>Acta Materialia</i> , <b>2020</b> , 196, 1-16	8.4	92

144	Roles of Nd and Mn in a new creep-resistant magnesium alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 779, 139152	5.3	11
143	Effect of plastic strain damage on the hydrogen embrittlement of a dual-phase (DP) and a quenching and partitioning (Q&P) advanced high-strength steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 785, 139343	5.3	14
142	Evaluating the orientation relationship of prismatic precipitates generated by detwinning in Mg alloys. <i>Acta Materialia</i> , <b>2020</b> , 195, 263-273	8.4	15
141	A novel method to 3D-print fine-grained AlSi10Mg alloy with isotropic properties via inoculation with LaB6 nanoparticles. <i>Additive Manufacturing</i> , <b>2020</b> , 32, 101034	6.1	29
140	New insights into the growth mechanism of 3D-printed Al <sub>2</sub> O <sub>3</sub> /3Al <sub>5</sub> O <sub>12</sub> binary eutectic composites. <i>Scripta Materialia</i> , <b>2020</b> , 178, 274-280	5.6	8
139	Atomic-scale investigation of the interface precipitation in a TiB <sub>2</sub> nanoparticles reinforced Al <sub>75</sub> Mg <sub>25</sub> Ti matrix composite. <i>Acta Materialia</i> , <b>2020</b> , 185, 287-299	8.4	53
138	Eutectic modification of Fe-enriched high-entropy alloys through minor addition of boron. <i>Journal of Materials Science</i> , <b>2020</b> , 55, 14571-14587	4.3	9
137	Understanding solid solution strengthening at elevated temperatures in a creep-resistant Mg <sub>92</sub> Ca alloy. <i>Acta Materialia</i> , <b>2019</b> , 181, 185-199	8.4	30
136	Nanostructured Al <sub>2</sub> O <sub>3</sub> -YAG-ZrO <sub>2</sub> ternary eutectic components prepared by laser engineered net shaping. <i>Acta Materialia</i> , <b>2019</b> , 170, 24-37	8.4	45
135	Recent understanding of the oxidation and burning of magnesium alloys. <i>Surface Innovations</i> , <b>2019</b> , 7, 71-92	1.9	12
134	Tissue Imaging of Glutathione-Specific Naphthalimide-Cyanine Dye with Two-Photon and Near-Infrared Manners. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 11343-11348	7.8	31
133	Novel cost-effective Fe-based high entropy alloys with balanced strength and ductility. <i>Materials and Design</i> , <b>2019</b> , 162, 24-33	8.1	32
132	Generalisation of the oxide reinforcement model for the high oxidation resistance of some Mg alloys micro-alloyed with Be. <i>Corrosion Science</i> , <b>2019</b> , 147, 357-371	6.8	17
131	Further study of the hydrogen embrittlement of martensitic advanced high-strength steel in simulated auto service conditions. <i>Corrosion Science</i> , <b>2018</b> , 135, 120-135	6.8	30
130	Growth of diopside crystals in CMAS glass-ceramics using Cr <sub>2</sub> O <sub>3</sub> as a nucleating agent. <i>Journal of the American Ceramic Society</i> , <b>2018</b> , 101, 3968-3978	3.8	28
129	Anodic electrochemistry of mono- and dinuclear aminophenylferrocene and diphenylaminoferrocene complexes. <i>Dalton Transactions</i> , <b>2018</b> , 47, 6112-6123	4.3	8
128	Determination of the equivalent hydrogen fugacity during electrochemical charging of 3.5NiCrMoV steel. <i>Corrosion Science</i> , <b>2018</b> , 132, 90-106	6.8	29
127	The role of the microstructure on the influence of hydrogen on some advanced high-strength steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 715, 370-378	5.3	37

126	Improved oxidation resistance of Mg-9Al-1Zn alloy microalloyed with 60 wt ppm Be attributed to the formation of a more protective (Mg,Be)O surface oxide. <i>Corrosion Science</i> , <b>2018</b> , 132, 272-283	6.8	18
125	Effect of Solute on Grain Refinement of As-Cast Fe-4Si Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2018</b> , 49, 2235-2247	2.3	9
124	Equivalent Hydrogen Fugacity during Electrochemical Charging of 980DP Steel Determined by Thermal Desorption Spectroscopy. <i>Advanced Engineering Materials</i> , <b>2018</b> , 20, 1700469	3.5	11
123	Hydrogen Trapping in Some Automotive Martensitic Advanced High-Strength Steels. <i>Advanced Engineering Materials</i> , <b>2018</b> , 20, 1700468	3.5	24
122	The influence of microstructure on the hydrogen embrittlement susceptibility of martensitic advanced high strength steels. <i>Materials Today Communications</i> , <b>2018</b> , 17, 1-14	2.5	40
121	Evaluation of automobile service performance using laboratory testing. <i>Materials Science and Technology</i> , <b>2018</b> , 34, 1893-1909	1.5	9
120	A Visible-Light-Induced Strategy To Construct Osmanaphthalynes, Osmaanthracyne, and Osmaphenanthryne. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 14891-14895	4.8	11
119	Effect of cooling rate on grain refinement of cast aluminium alloys. <i>Materialia</i> , <b>2018</b> , 3, 113-121	3.2	32
118	The influence of cold and detonation thermal spraying processes on the microstructure and properties of Al-based composite coatings on Mg alloy. <i>Surface and Coatings Technology</i> , <b>2018</b> , 352, 627-633	4.4	20
117	Evaluation of the influence of hydrogen on some commercial DP, Q&P and TWIP advanced high-strength steels during automobile service. <i>Engineering Failure Analysis</i> , <b>2018</b> , 94, 249-273	3.2	15
116	Current development of creep-resistant magnesium cast alloys: A review. <i>Materials and Design</i> , <b>2018</b> , 155, 422-442	8.1	82
115	Roles of Lanthanum and Cerium in Grain Refinement of Steels during Solidification. <i>Metals</i> , <b>2018</b> , 8, 884	2.3	23
114	Diphenylamine-Substituted Osmanaphthalene Complexes: Structural, Bonding, and Redox Properties of Unusual Donor-Bridge-Acceptor Systems. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 18998-19009	4.8	10
113	Multi-view feature selection and classification for Alzheimer's Disease diagnosis. <i>Multimedia Tools and Applications</i> , <b>2017</b> , 76, 10761-10775	2.5	16
112	Effect of Solute Additions on the Microstructure and Mechanical Properties of Cast Mg/Al Based Alloys. <i>Minerals, Metals and Materials Series</i> , <b>2017</b> , 259-267	0.3	
111	Hydrogen influence on some advanced high-strength steels. <i>Corrosion Science</i> , <b>2017</b> , 125, 114-138	6.8	61
110	Combined influence of Be and Ca on improving the high-temperature oxidation resistance of the magnesium alloy Mg-9Al-1Zn. <i>Corrosion Science</i> , <b>2017</b> , 122, 1-11	6.8	25
109	Development of the slope cutting method for determining the residual stresses in roll formed products. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2017</b> , 100, 26-35	4.6	10

108	A New Grain Refiner for Ferritic Steels. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2017</b> , 48, 2902-2912	2.5	9
107	Conjugated fatty acid-rich oil from <i>Gynostemma pentaphyllum</i> seed can ameliorate lipid and glucose metabolism in type 2 diabetes mellitus mice. <i>Food and Function</i> , <b>2017</b> , 8, 3696-3706	6.1	13
106	Equivalent hydrogen fugacity during electrochemical charging of some martensitic advanced high-strength steels. <i>Corrosion Science</i> , <b>2017</b> , 127, 45-58	6.8	22
105	Bonding and Electronic Properties of Linear Diethynyl Oligothiophene-Bridged Diruthenium Complexes and Their Oxidized Forms. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 11074-11086	5.1	23
104	Stress-Relaxation Behavior of Magnesium-3Gadolinium-2Calcium-Based Alloys at Elevated Temperatures. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2017</b> , 48, 5710-5716	2.3	9
103	A magnesium-based alloy with theoretical strength. <i>Science Bulletin</i> , <b>2017</b> , 62, 978-979	10.6	
102	Grain Coarsening of Cast Magnesium Alloys at High Cooling Rate: A New Observation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2017</b> , 48, 474-481	2.3	19
101	Enhanced mechanical properties of AZ31B magnesium alloy thin sheets processed by on-line heating rolling. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 693, 414-420	5.7	21
100	Effects of Mn and Zn Solute on Grain Refinement of Commercial Pure Magnesium. <i>Minerals, Metals and Materials Series</i> , <b>2017</b> , 191-198	0.3	1
99	Influence of CaO Grain Refiner Addition on the Microstructure and Mechanical Properties of As-Cast Mg Alloys. <i>Minerals, Metals and Materials Series</i> , <b>2017</b> , 93-98	0.3	
98	Hydrogen Concentration in Dual-Phase (DP) and Quenched and Partitioned (Q&P) Advanced High-Strength Steels (AHSS) under Simulated Service Conditions Compared with Cathodic Charging Conditions. <i>Advanced Engineering Materials</i> , <b>2016</b> , 18, 1588-1599	3.5	24
97	Hydrogen trapping in some advanced high strength steels. <i>Corrosion Science</i> , <b>2016</b> , 111, 770-785	6.8	72
96	A review of the influence of hydrogen on the mechanical properties of DP, TRIP, and TWIP advanced high-strength steels for auto construction. <i>Corrosion Reviews</i> , <b>2016</b> , 34, 127-152	3.2	55
95	Effect of Grain Refinement on Tensile Properties of Cast Zinc Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2016</b> , 47, 830-841	2.3	21
94	Crystallographic study of grain refinement in low and medium carbon steels. <i>Philosophical Magazine</i> , <b>2016</b> , 96, 1556-1578	1.6	11
93	On grain coarsening and refining of the MgBAl alloy by Sm. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 663, 387-394	5.7	24
92	A review of hydrogen embrittlement of martensitic advanced high-strength steels. <i>Corrosion Reviews</i> , <b>2016</b> , 34, 153-186	3.2	80
91	Oxidation of magnesium alloys at elevated temperatures in air: A review. <i>Corrosion Science</i> , <b>2016</b> , 112, 734-759	6.8	84

90	The intrinsic effect of long period stacking ordered phases on mechanical properties in Mg-RE based alloys. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 660, 252-257	5.7	34
89	Asymmetric oxidation of vinyl- and ethynyl terthiophene ligands in triruthenium complexes. <i>Dalton Transactions</i> , <b>2016</b> , 45, 768-82	4.3	17
88	Oxidation resistance of Mg <sub>92</sub> Al <sub>8</sub> Zn alloys micro-alloyed with Be. <i>Scripta Materialia</i> , <b>2016</b> , 115, 38-41	5.6	26
87	The influence of CaO addition on grain refinement of cast magnesium alloys. <i>Scripta Materialia</i> , <b>2016</b> , 114, 103-107	5.6	41
86	High tensile plasticity and strength of a CuZr-based bulk metallic glass composite. <i>Materials and Design</i> , <b>2016</b> , 90, 145-150	8.1	47
85	Effects of Al addition on the structure and mechanical properties of Zn alloys. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 687, 885-892	5.7	23
84	Influence of hydrogen on the mechanical and fracture properties of some martensitic advanced high strength steels in simulated service conditions. <i>Corrosion Science</i> , <b>2016</b> , 111, 602-624	6.8	44
83	Crystallography of phase transformation in the self-inclined InAs nanowires grown on GaAs{111}. <i>Scripta Materialia</i> , <b>2016</b> , 121, 79-83	5.6	4
82	L <sub>2</sub> ,p-norm and sample constraint based feature selection and classification for AD diagnosis. <i>Neurocomputing</i> , <b>2016</b> , 195, 104-111	5.4	10
81	On the dynamic mechanical property and deformation mechanism of as-extruded Mg-Sn-Ca alloys under tension. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2016</b> , 664, 43-48	5.3	19
80	Decoration of Reduced Graphene Oxide Nanosheets with Aryldiazonium Salts and Gold Nanoparticles toward a Label-Free Amperometric Immunosensor for Detecting Cytokine Tumor Necrosis Factor- $\alpha$ in Live Cells. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 9614-9621	7.8	64
79	A review on hot tearing of magnesium alloys. <i>Journal of Magnesium and Alloys</i> , <b>2016</b> , 4, 151-172	8.8	67
78	Crystallography of grain refinement in cast zinc-copper alloys. <i>Journal of Applied Crystallography</i> , <b>2015</b> , 48, 890-900	3.8	22
77	Effect of the thickness of cold sprayed aluminium alloy coating on the adhesive bond strength with an aluminium alloy substrate. <i>Surface and Coatings Technology</i> , <b>2015</b> , 270, 259-265	4.4	32
76	Grain refinement of cast zinc through magnesium inoculation: Characterisation and mechanism. <i>Materials Characterization</i> , <b>2015</b> , 106, 1-10	3.9	19
75	The influence of hydrogen on the mechanical and fracture properties of some martensitic advanced high strength steels studied using the linearly increasing stress test. <i>Corrosion Science</i> , <b>2015</b> , 99, 98-117	6.8	86
74	Diruthenium Complexes with Bridging Diethynyl Polyaromatic Ligands: Synthesis, Spectroelectrochemistry, and Theoretical Calculations. <i>Organometallics</i> , <b>2015</b> , 34, 3967-3978	3.8	37
73	Hashing with Inductive Supervised Learning. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 447-455	0.9	3

72	Strain rate dependence in the nanoindentation-induced deformation of Mg-Al intermetallic compounds produced by packed powder diffusion coating. <i>Metals and Materials International</i> , <b>2015</b> , 21, 793-798	2.4	3
71	The Influence of the Effect of Solute on the Thermodynamic Driving Force on Grain Refinement of Al Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2015</b> , 46, 505-515	2.3	26
70	Current research progress in grain refinement of cast magnesium alloys: A review article. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 619, 639-651	5.7	293
69	High resolution microstructure characterization of the interface between cold sprayed Al coating and Mg alloy substrate. <i>Applied Surface Science</i> , <b>2014</b> , 289, 366-369	6.7	42
68	Crystallographic study of Al <sub>3</sub> Zr and Al <sub>3</sub> Nb as grain refiners for Al alloys. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2014</b> , 24, 2034-2040	3.3	27
67	The grain refining mechanism of cast zinc through silver inoculation. <i>Acta Materialia</i> , <b>2014</b> , 79, 315-326	8.4	51
66	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
65	Effect of Mg <sub>24</sub> Y <sub>5</sub> intermetallic particles on grain refinement of Mg-9Li alloy. <i>Intermetallics</i> , <b>2014</b> , 45, 18-23	3.5	26
64	The nucleation crystallography and wettability of Mg grains on active Al <sub>2</sub> Y inoculants in an Mg-10 wt% Y Alloy. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 586, 39-44	5.7	54
63	The effect of cold sprayed coatings on the mechanical properties of AZ91D magnesium alloys. <i>Surface and Coatings Technology</i> , <b>2014</b> , 253, 89-95	4.4	28
62	A simple and inclusive method to determine the habit plane in transmission electron microscope based on accurate measurement of foil thickness. <i>Materials Characterization</i> , <b>2014</b> , 94, 1-6	3.9	2
61	Crystallographic study of grain refinement of Al by Nb addition. <i>Journal of Applied Crystallography</i> , <b>2014</b> , 47, 770-779	3.8	25
60	The grain refinement mechanism of cast aluminium by zirconium. <i>Acta Materialia</i> , <b>2013</b> , 61, 5636-5645	8.4	133
59	The Effect of Solute Elements on the Grain Refinement of Cast Zn. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2013</b> , 44, 4025-4030	2.3	33
58	Microstructure characterization and nanomechanics of cold-sprayed pure Al and Al-Al <sub>2</sub> O <sub>3</sub> composite coatings. <i>Surface and Coatings Technology</i> , <b>2013</b> , 232, 216-223	4.4	40
57	Crystallography of surface precipitates associated with shape change in a Ti-26wt.% Cr alloy. <i>Acta Materialia</i> , <b>2013</b> , 61, 7624-7638	8.4	7
56	Discovery of plate-shaped athermal $\beta$ phase forming pairs with $\beta'$ martensite in a Ti-26 wt.% Cr Alloy. <i>Scripta Materialia</i> , <b>2013</b> , 69, 752-755	5.6	10
55	Effect of Ce addition on microstructure of Mg-9Li alloy. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2013</b> , 23, 1936-1941	3.3	8

54	Heat treatment, microstructure and mechanical properties of a Mg <sub>92</sub> Al <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
53	The role of Al <sub>2</sub> Y in grain refinement in Mg <sub>92</sub> Al <sub>8</sub> alloy system. <i>Journal of Magnesium and Alloys</i> , <b>2013</b> , 1, 115-121	8.8	53
52	Effects of Sn on microstructure of as-cast and as-extruded Mg <sub>92</sub> Li alloys. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2013</b> , 23, 904-908	3.3	20
51	Revisiting the role of peritectics in grain refinement of Al alloys. <i>Acta Materialia</i> , <b>2013</b> , 61, 360-370	8.4	128
50	A novel composite porous coating approach for bioactive titanium-based orthopedic implants. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2013</b> , 101, 862-72	5.4	17
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45	Residual stresses in cold spray Al coatings: The effect of alloying and of process parameters. <i>Surface and Coatings Technology</i> , <b>2012</b> , 206, 4249-4255	4.4	94
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34	The influence of ceramic particles on bond strength of cold spray composite coatings on AZ91 alloy substrate. <i>Surface and Coatings Technology</i> , <b>2010</b> , 205, 50-56	4-4	110
33	Identifying close-packed planes in complex crystal structures. <i>Acta Materialia</i> , <b>2010</b> , 58, 3091-3095	8-4	41
32	Crystallography of self-assembled DySi <sub>2</sub> nanowires on a Si substrate. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 083105	3-4	10
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29	The morphology and formation mechanism of pearlite in steels. <i>Materials Characterization</i> , <b>2009</b> , 60, 545-554	3-9	30
28	The use of kinetic metallization to form intermetallic reinforced composite coatings by post-spray heat treatment. <i>Surface and Coatings Technology</i> , <b>2009</b> , 203, 3019-3025	4-4	23
27	Sliding wear-induced microstructure evolution of nanocrystalline and coarse-grained AZ91D Mg alloy. <i>Wear</i> , <b>2009</b> , 266, 666-670	3-5	33
26	The use of Al <sub>2</sub> O <sub>3</sub> cold spray coatings to improve the surface properties of magnesium alloys. <i>Surface and Coatings Technology</i> , <b>2009</b> , 204, 336-344	4-4	205
25	Crystallographic features of phase transformations in solids. <i>Progress in Materials Science</i> , <b>2009</b> , 54, 1101-1170	1-64	164
24	A new approach to designing a grain refiner for Mg casting alloys and its use in Mg <sub>92</sub> -based alloys. <i>Acta Materialia</i> , <b>2009</b> , 57, 3052-3059	8-4	129
23	Grain refinement by AlN particles in Mg <sub>2</sub> Al based alloys. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 478, 809-812	5-7	69
22	Effect of active heterogeneous nucleation particles on the grain refining efficiency in an Mg <sub>90</sub> wt.% Y cast alloy. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 488, 260-264	5-7	53
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20	The development of a new grain refiner for magnesium alloys using the edge-to-edge model. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 456, 390-394	5-7	68
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