

Masoud Emamy

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34
h-index

50
g-index

197
ext. papers

4,343
ext. citations

3
avg, IF

5.95
L-index

#	Paper	IF	Citations
191	Fabrication of Al/A ₂ O ₃ nano/micro composite by combining ball milling and stir casting technology. <i>Materials & Design</i> , 2013 , 49, 347-359		117
190	Investigation of microstructure, hardness and wear properties of Al-5wt.% Cu/C nanocomposites produced by mechanical milling. <i>Materials & Design</i> , 2011 , 32, 3718-3729		116
189	Formation of TiB ₂ particles during dissolution of TiAl ₃ in Al-TiB ₂ metal matrix composite using an in situ technique. <i>Composites Science and Technology</i> , 2006 , 66, 1063-1066	8.6	113
188	The effect of Li on the tensile properties of cast Al-Mg ₂ Si metal matrix composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 490, 250-257	5.3	107
187	Toward unraveling the effects of intermetallic compounds on the microstructure and mechanical properties of Mg-Cd-Al-Zn magnesium alloys in the as-cast, homogenized, and extruded conditions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 680, 33-46	5.3	87
186	Heat treatment effect on the microstructure, tensile properties and dry sliding wear behavior of A356-10%B ₄ C cast composites. <i>Materials & Design</i> , 2010 , 31, 4414-4422		86
185	The influence of pure Na on the microstructure and tensile properties of Al-Mg ₂ Si metal matrix composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 4337-4342	5.3	74
184	The effect of strontium on the microstructure and wear properties of A356-10%B ₄ C cast composites. <i>Materials & Design</i> , 2010 , 31, 2187-2195		71
183	Effects of particulate reinforcement and heat treatment on the hardness and wear properties of AA 2024-MoSi ₂ nanocomposites. <i>Materials & Design</i> , 2011 , 32, 2157-2164		67
182	The influence of Cu rich intermetallic phases on the microstructure, hardness and tensile properties of Al-5% Mg ₂ Si composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 2998-3004	5.3	65
181	Effect of Mn and Sr on intermetallics in Fe-rich eutectic Al-Si alloy. <i>International Journal of Cast Metals Research</i> , 2002 , 15, 17-24	1	60
180	Enhanced Ductility of a Fine-Grained Mg-Cd-Al-Zn Magnesium Alloy by Hot Extrusion. <i>Advanced Engineering Materials</i> , 2018 , 20, 1701171	3.5	58
179	The study of Li effect on the microstructure and tensile properties of cast Al-Mg ₂ Si metal matrix composite. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 9026-9033	5.7	57
178	The effect of solution temperature on the microstructure and tensile properties of Al-5%Mg ₂ Si composite. <i>Materials & Design</i> , 2011 , 32, 2701-2709		57
177	The effect of Ti and Zr elements and cooling rate on the microstructure and tensile properties of a new developed super high-strength aluminum alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 5318-5325	5.3	53
176	Preparation of the Ni-P composite coating co-deposited by nano TiC particles and evaluation of its corrosion property. <i>Applied Surface Science</i> , 2012 , 258, 2597-2601	6.7	51
175	Effect of Mn addition on the microstructure and tensile properties of Al-5%Mg ₂ Si composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 550, 191-198	5.3	50

174	The Effect of Fe-Rich Intermetallics on the Weibull Distribution of Tensile Properties in a Cast Al-5 Pct Si-3 Pct Cu-1 Pct Fe-0.3 Pct Mg Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2007 , 38, 659-670	2.3	50
173	Synergistic effect of Al and Gd on enhancement of mechanical properties of magnesium alloys. <i>Progress in Natural Science: Materials International</i> , 2017 , 27, 228-235	3.6	49
172	The microstructure, hardness and tensile properties of Al ₇₀ Mg ₂₀ Si in situ composite with yttrium addition. <i>Materials & Design</i> , 2011 , 32, 4559-4566		49
171	The Effects of Grain Refinement and Rare Earth Intermetallics on Mechanical Properties of As-Cast and Wrought Magnesium Alloys. <i>Journal of Materials Engineering and Performance</i> , 2018 , 27, 1327-1333	1.6	48
170	The effect of Zr on the microstructure and tensile properties of hot-extruded Al ₇₀ Mg ₂₀ Si composite. <i>Materials & Design</i> , 2012 , 36, 323-330		45
169	Mechanical properties of a hot deformed Al-Mg ₂ Si in-situ composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 726, 10-17	5.3	44
168	Preparation of electroless Ni ₃ P composite coatings containing nano-scattered alumina in presence of polymeric surfactant. <i>Progress in Natural Science: Materials International</i> , 2012 , 22, 318-325	3.6	43
167	Effects of Al ₇₀ Ti ₁₀ B and Al ₇₀ Zr master alloys on the structure, hardness and tensile properties of a highly alloyed aluminum alloy. <i>Materials & Design</i> , 2010 , 31, 200-209		43
166	The microstructure, hardness and tensile properties of a new super high strength aluminum alloy with Zr addition. <i>Materials & Design</i> , 2010 , 31, 4450-4456		41
165	Selection of an optimal refinement condition to achieve maximum tensile properties of Al ₇₀ Mg ₂₀ Si composite based on TOPSIS method. <i>Materials & Design</i> , 2013 , 46, 442-450		40
164	Precipitation of Fe rich intermetallics in Cr- and Co-modified A413 alloy. <i>International Journal of Cast Metals Research</i> , 2005 , 18, 73-79	1	40
163	The influence of Ti and Zr on electrochemical properties of aluminum sacrificial anodes. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 431, 263-276	5.3	39
162	An investigation on semi-solid Al ₇₀ Si ₁₀ .3Mg alloy produced by mechanical stirring. <i>Journal of Materials Processing Technology</i> , 2005 , 169, 382-387	5.3	39
161	Tailoring the mechanical properties of Mg ₇₀ Zn magnesium alloy by calcium addition and hot extrusion process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 774, 138929	5.3	39
160	Elucidating the effect of intermetallic compounds on the behavior of Mg ₇₀ ZnAl ₁₀ magnesium alloys at elevated temperatures. <i>Journal of Materials Research</i> , 2017 , 32, 4186-4195	2.5	38
159	Effects of La intermetallics on the structure and tensile properties of thin section gravity die-cast A357 Al alloy. <i>Materials and Design</i> , 2016 , 94, 111-120	8.1	36
158	The influence of Li on the tensile properties of extruded in situ Al ₇₀ Mg ₂₀ Si composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 532, 346-353	5.3	35
157	Mechanical and Tribological Characterization of Al-Mg ₂ Si Composites After Yttrium Addition and Heat Treatment. <i>Journal of Materials Engineering and Performance</i> , 2014 , 23, 1146-1156	1.6	34

156	Modification of Cast Al-Mg ₂ Si Metal Matrix Composite by Li. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2009 , 40, 822-832	2.5	34
155	The effect of strontium on the microstructure, porosity and tensile properties of A356/0%B4C cast composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 517, 170-179	5.3	34
154	The effect of mischmetal and heat treatment on the microstructure and tensile properties of A357 Al ₃ Si casting alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 556, 573-581	5.3	33
153	Microstructure, hardness and tensile properties of A380 aluminum alloy with and without Li additions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 582, 409-414	5.3	33
152	Unraveling the effects of Zn addition and hot extrusion process on the microstructure and mechanical properties of as-cast Mg/Al magnesium alloy. <i>Vacuum</i> , 2019 , 167, 214-222	3.7	32
151	Microstructure and tensile properties of cast Al/5%Mg ₂ Si composite: Effects of phosphorous addition and heat treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 556, 446-453	5.3	32
150	The effect of Cu addition and solution heat treatment on the microstructure, hardness and tensile properties of Al/5%Mg ₂ Si/0.15%Li composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 576, 36-44	5.3	31
149	Corrosion behavior of Ni ₃ P/nano-TiC composite coating prepared in electroless baths containing different types of surfactant. <i>Progress in Natural Science: Materials International</i> , 2012 , 22, 480-487	3.6	31
148	Investigation of the effect of Al ₃ Ti ₃ B grain refiner on dry sliding wear behavior of an Al ₇₀ Mg ₁₀ Cu alloy formed by strain-induced melt activation process. <i>Materials & Design</i> , 2013 , 46, 766-775		31
147	Mechanical and high temperature wear properties of extruded Al composite reinforced with Al ₁₃ Fe ₄ CMA nanoparticles. <i>Materials and Design</i> , 2016 , 90, 532-544	8.1	30
146	Microstructural evolution and tensile properties of the in situ Al/5%Mg ₂ Si composite with extra Si contents. <i>Materials & Design</i> , 2012 , 37, 215-222		30
145	The influence of Ni addition and hot-extrusion on the microstructure and tensile properties of Al/5%Mg ₂ Si composite. <i>Materials & Design</i> , 2013 , 46, 381-390		30
144	A novel aluminum based nanocomposite with high strength and good ductility. <i>Journal of Alloys and Compounds</i> , 2015 , 649, 461-473	5.7	29
143	Microstructural and mechanical characterization of Al/5%Mg ₂ Si composite containing chromium. <i>Materials & Design</i> , 2011 , 32, 4262-4269		29
142	Effects of pre-deformation and heat treatment conditions in the SIMA process on properties of an Al ₇₀ Mg ₁₀ Cu alloy modified by Al ₃ B ₃ grain refiner. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 4482-4490	5.3	27
141	Microstructure and Tensile Properties of Al-15wt%Mg ₂ Si Composite after Hot Extrusion and Heat Treatment. <i>Key Engineering Materials</i> , 2011 , 471-472, 1171-1176	0.4	27
140	The effect of Al ₃ Ti ₃ B on the microstructure, hardness and tensile properties of Al ₂ O ₃ and SiC-containing metal matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 485, 210-217	5.3	26
139	Enhancement of the microstructure and elevated temperature mechanical properties of as-cast Mg-Al ₂ Ca-Mg ₂ Ca in-situ composite by hot extrusion. <i>Materials Characterization</i> , 2019 , 147, 155-164	3.9	26

138	Mechanical and wear properties of Al-Al ₃ Mg ₂ nanocomposites prepared by mechanical milling and hot pressing. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2013 , 20, 290-297	3.1	25
137	Microstructures and tensile properties of hot-extruded Al matrix composites containing different amounts of Mg ₂ Si. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 586, 190-196	5.3	25
136	Effect of grain refinement on mechanical properties and sliding wear resistance of extruded Sc-free 7042 aluminum alloy. <i>Materials & Design</i> , 2014 , 54, 361-367		24
135	Effect of Zn addition on the microstructure and mechanical properties of Mg-0.5Ca-0.5RE magnesium alloy. <i>Journal of Alloys and Compounds</i> , 2020 , 815, 152380	5.7	24
134	The Effect of Copper Addition on the Fluidity and Viscosity of an Al-Mg-Si Alloy. <i>Journal of Materials Engineering and Performance</i> , 2014 , 23, 469-476	1.6	23
133	The effect of Fe-rich intermetallics on the microstructure, hardness and tensile properties of AlMg ₂ Si die-cast composite. <i>Materials & Design</i> , 2013 , 46, 881-888		23
132	The influence of beryllium addition on the microstructure and mechanical properties of Al-5%Mg ₂ Si in-situ metal matrix composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 8205-8211	5.3	23
131	The effect of Fe, Mn and Sr on the microstructure and tensile properties of A356-0% SiC composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 3733-3740	5.3	23
130	Enhanced mechanical properties of as-cast AZ91 magnesium alloy by combined RE-Sr addition and hot extrusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 792, 139817	5.3	22
129	The influence of Cu-5P master alloy on the microstructure and tensile properties of Al-5wt% Mg ₂ Si composite before and after hot-extrusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 566, 1-7	5.3	22
128	Effects of Al ₃ Ti ₂ B on the structure and hardness of a super high strength aluminum alloy produced by strain-induced melt activation process. <i>Materials & Design</i> , 2011 , 32, 4485-4492		22
127	Effect of gadolinium addition on microstructural evolution and solidification characteristics of Al-15%Mg ₂ Si in-situ composite. <i>Materials Characterization</i> , 2018 , 135, 57-70	3.9	21
126	Effects of reinforcing particle size and interface bonding strength on tensile properties and fracture behavior of Al-A206/alumina micro/nanocomposites. <i>Journal of Composite Materials</i> , 2014 , 48, 3331-3346	2.7	21
125	The effects of boron additions on the microstructure, hardness and tensile properties of in situ Al-5%Mg ₂ Si composite. <i>Materials & Design</i> , 2011 , 32, 5049-5054		21
124	A new intermetallic phase formation in MgSiNi magnesium-based in-situ formed alloys. <i>Vacuum</i> , 2019 , 164, 349-354	3.7	20
123	Effects of extrusion temperature on the microstructure and tensile properties of Al-6 wt% Al ₄ Sr metal matrix composite. <i>Materials & Design</i> , 2013 , 46, 598-604		20
122	Thermal analysis study on the grain refinement of Al-5Zn-0.5Mg-0.5Cu alloy. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017 , 127, 1941-1952	4.1	20
121	Enhanced mechanical properties of AZ91 magnesium alloy by inoculation and hot deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 802, 140667	5.3	20

120	Influence of Cu Addition on the Structure, Mechanical and Corrosion Properties of Cast Mg-2%Zn Alloy. <i>Journal of Materials Engineering and Performance</i> , 2017 , 26, 2136-2150	1.6	19
119	The effect of Al ₃ Ti ₃ B on the microstructure, hardness and tensile properties of a new Zn rich aluminium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 636, 421-429	5.3	19
118	High temperature friction and wear properties of graphene oxide/polytetrafluoroethylene composite coatings deposited on stainless steel. <i>RSC Advances</i> , 2016 , 6, 5977-5987	3.7	19
117	The effect of Al ₃ Ti ₃ B grain refiner on the structure and tensile properties of Al ₉₀ %Mg alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 560, 148-153	5.3	19
116	Investigation of the effect of Al-8B master alloy and strain-induced melt activation process on dry sliding wear behavior of an Al ₇₀ Mg ₁₀ Cu alloy. <i>Materials & Design</i> , 2014 , 53, 308-316		18
115	Sr effect on the microstructure and tensile properties of A357 aluminum alloy and Al ₂ O ₃ /SiC-A357 cast composites. <i>Materials Characterization</i> , 2009 , 60, 1361-1369	3.9	18
114	Microstructures and tensile properties of Al/2024Al 4 Sr composite after hot extrusion and T6 heat treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 625, 303-310	5.3	17
113	Exploiting superior tensile properties of a novel network-structure AlA206 matrix composite by hybridizing micron-sized Al ₃ Ti with Al ₂ O ₃ nano particulates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 619, 190-198	5.3	17
112	Effects of pre-deformation on microstructure and tensile properties of Al ₇₀ Mg ₁₀ Cu alloy produced by modified strain induced melt activation. <i>Transactions of Nonferrous Metals Society of China</i> , 2016 , 26, 2283-2295	3.3	17
111	Evaluating the room temperature mechanical properties of age hardened AZ80 magnesium alloy using shear punch testing method. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 606, 360-369	5.3	16
110	On the conjoint influence of heat treatment and lithium content on microstructure and mechanical properties of A380 aluminum alloy. <i>Materials & Design</i> , 2014 , 59, 377-382		15
109	The Effect of La-intermetallic Compounds on Tensile Properties of Al-15%Mg ₂ Si In-situ Composite 2015 , 11, 55-60		15
108	Effect of Tool Pin Profile on the Microstructure and Tribological Properties of Friction Stir Processed Al-20 wt% Mg ₂ Si Composite. <i>Journal of Tribology</i> , 2019 , 141,	1.8	15
107	The effect of Al ₃ B ₃ grain refiner and heat treatment conditions on the microstructure, mechanical properties and dry sliding wear behavior of an Al ₉₂ Zn ₃ Mg _{2.5} Cu aluminum alloy. <i>Materials & Design</i> , 2012 , 38, 64-73		14
106	Effect of grain refinement on the microstructure and tensile properties of thin 319 Al castings. <i>Materials & Design</i> , 2011 , 32, 1542-1547		14
105	Effect of Si and Ni on microstructure and mechanical properties of in-situ magnesium-based composites in the as-cast and extruded conditions. <i>Materials Chemistry and Physics</i> , 2019 , 232, 305-310	4.4	13
104	Effects of Zr, Ti and B on structure and tensile properties of Al ₉₀ Mg alloy (A520). <i>International Journal of Cast Metals Research</i> , 2004 , 17, 17-22	1	13
103	Effect of microalloying by Ca on the microstructure and mechanical properties of as-cast and wrought Mg ₉₀ Mg ₂ Si composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 820, 141574	5.3	13

102	Enhanced mechanical properties of as-cast Mg-Al-Ca magnesium alloys by friction stir processing. <i>Materials Letters</i> , 2021 , 296, 129880	3.3	13
101	The influence of Ti on the microstructure and tensile properties of cast Al _{0.5} Cu _{0.3} Mg alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 590, 161-167	5.3	12
100	The effect of strain-induced melt activation process on the microstructure and mechanical properties of Ti-refined A6070 Al alloy. <i>Materials & Design</i> , 2013 , 46, 824-831		11
99	Effect of Hot Extrusion on Microstructure and Tensile Properties of Ca Modified Mg-Mg ₂ Si Composite 2015 , 11, 38-43		11
98	Fluidity of Al based metal matrix composites containing Al ₂ O ₃ and SiC particles. <i>International Journal of Cast Metals Research</i> , 2009 , 22, 430-437	1	11
97	Wear Behavior of Al/CMA-Type Al ₃ Mg ₂ Nanocomposites Fabricated by Mechanical Milling and Hot Extrusion. <i>Tribology Transactions</i> , 2016 , 59, 219-228	1.8	10
96	Ca Addition Effects on the Microstructure, Tensile and Corrosion Properties of Mg Matrix Alloy Containing 8 wt.% Mg ₂ Si. <i>Journal of Materials Engineering and Performance</i> , 2018 , 27, 411-422	1.6	10
95	Mechanical properties of Mg-Al-Mn magnesium alloys with low Al content in the as-cast and extruded conditions. <i>Materials Research Express</i> , 2019 , 6, 106521	1.7	10
94	Grain refinement and enhanced mechanical properties of ZK20 magnesium alloy via hot extrusion and mischmetal addition. <i>Materials Research Express</i> , 2019 , 6, 116522	1.7	10
93	Mechanical Behavior of As-Cast and Extruded Mg-Si-Ni-Ca Magnesium Alloys. <i>Journal of Materials Engineering and Performance</i> , 2020 , 29, 7728-7735	1.6	10
92	Effects of Zr addition on solidification characteristics of Al _{0.2} Mg _{0.1} Cu alloy using thermal analysis. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018 , 134, 1457-1469	4.1	9
91	Effect of Ca additions on evolved microstructures and subsequent mechanical properties of a cast and hot-extruded Mg _{0.2} Zr magnesium alloy. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 104, 4265-4275	3.2	9
90	The Effect of Si and Extrusion Process on the Microstructure and Tensile Properties of Mg-Mg ₂ Si Composite 2015 , 11, 79-83		9
89	Microstructures and Tensile Properties of Hot-Extruded Al Matrix Composites Containing Different Amounts of Al ₄ Sr. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 5344-5350	2.3	9
88	Effects of Al ₃ Ti _{0.5} B master alloy on the microstructural evaluation of a highly alloyed aluminum alloy produced by SIMA process 2010 ,		9
87	Constitutive modeling of flow stress during hot deformation of Sn _{0.1} Al _{0.2} Ni _{0.1} Cu _{0.1} Mg multi-principal-element alloy. <i>Vacuum</i> , 2019 , 170, 108970	3.7	8
86	Effects of Be additions on microstructure, hardness and tensile properties of A380 aluminum alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2015 , 25, 3539-3545	3.3	8
85	Surface treatment and nickel plating of iron powder metallurgy parts for corrosion protection. <i>Materials & Design</i> , 2009 , 30, 3560-3565		8

84	Microstructure Evolution and Mechanical Properties of the AZ91 Magnesium Alloy with Sr and Ti Additions in the As-Cast and As-Aged Conditions. <i>Journal of Materials Engineering and Performance</i> , 2019 , 28, 6853-6863	1.6	7
83	Effects of Zr and B on the structure and tensile properties of Al \square 0%Mg alloy. <i>Materials & Design</i> , 2014 , 56, 557-564		7
82	The effect of Bi addition on the microstructure and tensile properties of cast Al-15%Mg2Si composite. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2013 , 44, 431-435	0.9	7
81	Statistical analysis of tensile properties of cast A357/Al \square O \square MMCs. <i>Materials Science and Technology</i> , 2010 , 26, 149-156	1.5	7
80	The Effect of Sr and Grain Refining Elements on the Microstructure and Tensile Properties of A356-10%B \square C Metal Matrix Composite. <i>Mechanics of Advanced Materials and Structures</i> , 2011 , 18, 210-217	1.8	7
79	Influence of sintering on bending strength of underwater shock consolidated AlBiCp composites. <i>Materials Science and Technology</i> , 2006 , 22, 349-352	1.5	7
78	The statistical analysis of tensile and compression properties of the as-cast AZ91-X%B \square C composites. <i>International Journal of Metalcasting</i> , 2020 , 14, 505-517	1.4	7
77	Improvement in Tensile and Wear Properties of As-Cast Al \square 5%Mg \square Si Composite Modified by Zn and Ni. <i>International Journal of Metalcasting</i> , 2017 , 11, 790-801	1.4	6
76	The Microstructure, and Mechanical and Corrosion Properties of As-Cast and As-Extruded Mg-2%Zn-x%Cu Alloys After Solution and Aging Heat Treatments. <i>Journal of Materials Engineering and Performance</i> , 2019 , 28, 2305-2315	1.6	6
75	Evaluating the Effect of Hot-Rolling Reduction on the Mechanical Properties of In Situ Formed AluminumMagnesiumBilicon (Al-Mg \square Si) Composites. <i>Advanced Engineering Materials</i> , 2019 , 21, 1900609	3.5	6
74	Effects of Zn addition on the microstructure and tensile properties of hot-extruded Al \square 6wt% Al \square Sr in-situ composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 606, 92-100	5.3	6
73	Structural characterization of AA 2024-MoSi \square nanocomposite powders produced by mechanical milling. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2013 , 20, 298-306	3.1	6
72	Investigation the Effect of Al-5Ti-1B Grain Refiner and T6 Heat Treatment on Tensile Properties of Al-8%Mg 2015 , 11, 32-37		6
71	Hardness and Wear Properties of Al–4.5%Cu/Al \square Mg \square Nanocomposite Prepared by Mechanical Alloying. <i>Materials Transactions</i> , 2012 , 53, 1310-1317	1.3	6
70	Microstructure and Interface Studies of Al/SiCp Composites Produced by Dynamic Compaction. <i>Materials Science Forum</i> , 2004 , 465-466, 213-218	0.4	6
69	Effect of Isothermal Holding on Semisolid Microstructure of Al \square Mg \square Si Composites. <i>ISRN Metallurgy</i> , 2012 , 2012, 1-7		6
68	Influence of Cu Addition on the Microstructure, Mechanical, and Corrosion Properties of Extruded Mg-2%Zn Alloy. <i>Journal of Materials Engineering and Performance</i> , 2020 , 29, 2991-3003	1.6	6
67	Microstructure and Tensile Properties of Mg \square Zn Alloy Containing Ca. <i>Metals and Materials International</i> , 2021 , 27, 1565-1577	2.4	6

66	In- vitro corrosion behavior of the cast and extruded biodegradable Mg-Zn-Cu alloys in simulated body fluid (SBF). <i>Journal of Magnesium and Alloys</i> , 2021 , 9, 2078-2078	8.8	6
65	The Microstructure and Tensile Properties of a Newly Developed MgAl/Mg3Sb2 In Situ Composite in As-Cast and Extruded Conditions. <i>Metals and Materials International</i> , 2018 , 24, 1099-1111	2.4	5
64	Effects of Ca/Al ratio and extrusion process on MgAlCa alloys to produce a high toughness in-situ composite. <i>Philosophical Magazine</i> , 2018 , 98, 2826-2844	1.6	5
63	Effects of Morphological Characteristics of Alumina Particles and Interfacial Bonding Strength on Wear Behavior of Nano/Micro-alumina Particulates Reinforced Al/A206 Matrix Composites. <i>Tribology Letters</i> , 2013 , 51, 499-511	2.8	5
62	The Effect of Ca Content on the Microstructure, Hardness and Tensile Properties of AZ81 Mg Cast Alloy. <i>Journal of Materials Engineering and Performance</i> , 2017 , 26, 2151-2161	1.6	4
61	The Influence of Anode Composition on Energy Consumption and Current Efficiency in Zinc Electrowinning. <i>Journal of the Electrochemical Society</i> , 2017 , 164, E166-E172	3.9	4
60	Effects of Mg2Sn intermetallic on the microstructure and tensile properties of Al5% Mg2Si3% Sn composite. <i>Journal of Materials Research</i> , 2016 , 31, 3891-3899	2.5	4
59	The Study of Microstructures and Tensile Properties of an In Situ A356-ZrB2 Metal Matrix Composite. <i>Key Engineering Materials</i> , 2013 , 553, 29-33	0.4	4
58	Study on fracture behaviour of Al5%Mg2Si metal matrix composite with and without beryllium additions. <i>Journal of Materials Science</i> , 2011 , 46, 6856-6862	4.3	4
57	The Evolution of Heat Treatment on the Tensile Properties of Na-Modified Al-Mg2Si In Situ Composite. <i>Advanced Materials Research</i> , 2011 , 311-313, 283-286	0.5	4
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