Fawzy Samuel

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1856152/publications.pdf

Version: 2024-02-01

223 papers	6,557 citations	57758 44 h-index	91884 69 g-index
233 all docs	233 docs citations	233 times ranked	2192 citing authors

#	Article	IF	Citations
1	Assessment of the Effect of Mg Addition on the Solidification Behavior, Tensile and Impact Properties of Alâ€“Siâ€“Cu Cast Alloys. International Journal of Metalcasting, 2023, 17, 82-108.	1.9	3
2	A Study on the Factors Enhancing the High-Temperature Strength of B319.2-Type Alloys. International Journal of Metalcasting, 2023, 17, 648-663.	1.9	3
3	Effect of Intermetallics and Tramp Elements on Porosity Formation and Hardness of Alâ€“Siâ€“Mg and Alâ€“Siâ€“Cuâ€“Mg Alloys. International Journal of Metalcasting, 2023, 17, 664-681.	1.9	5
4	Intermetallics Formation, Hardness and Toughness of A413.1 Type Alloys: Role of Melt and Aging Treatments. International Journal of Metalcasting, 2023, 17, 1095-1113.	1.9	1
5	Hardening of Alâ€“Siâ€“Cuâ€“Mg Cast Alloys: Role of Ag and Zn addition. International Journal of Metalcasting, 2022, 16, 3-19.	1.9	5
6	The Effect of Ni and Zr Additions on the Tensile Properties of Isothermally Aged Aiâ€“Siâ€“Cuâ€“Mg Cast Alloys. International Journal of Metalcasting, 2022, 16, 435-457.	1.9	1
7	The Use of Rare Earth Metals in Alâ€“Siâ€“Cu Casting Alloys. International Journal of Metalcasting, 2022, 16, 535-552.	1.9	15
8	Role of the Addition of La and Ce on the Cooling Characteristics and Porosity Formation in A356 and A413 Alloys. International Journal of Metalcasting, 2022, 16, 553-572.	1.9	4
9	Effect of Minor Addition of Ni and Zr on the High-Temperature Performance of Alâ€“Siâ€“Cuâ€“Mg Cast Alloys. International Journal of Metalcasting, 2022, 16, 1235-1251.	1.9	4
10	Evolution and Methods of Residual Stresses Measurement in Al-Si-Cu-Mg Castings: Role of Heat Treatment. International Journal of Metalcasting, 2022, 16, 1488-1506.	1.9	1
11	Metallurgical Parameters Controlling Fragmentation and Spheroidization Processes of Eutectic Si Particles in Al-Si Cast Alloys. International Journal of Metalcasting, 2022, 16, 1709-1731.	1.9	3
12	Understanding the Effect of Be Addition on the Microstructure and Tensile Properties of Alâ€“Siâ€“Mg Cast Alloys. International Journal of Metalcasting, 2022, 16, 1777-1795.	1.9	1
13	Effects of Trace Elements on the Microstructural and Machinability Characteristics of Alâ€“Siâ€“Cuâ€“Mg Castings. Materials, 2022, 15, 377.	2.9	5
14	Effect of Caâ€“Srâ€“Mg and Biâ€“Srâ€“Mg Interactions on the Microstructural Characterization and Tensile Properties of B319 Alloy. International Journal of Metalcasting, 2022, 16, 1940-1959.	1.9	2
15	Effects of Free-Cutting Elements Addition on the Microstructure, Hardness, and Machinability of Al-11%Siâ€“Cuâ€“Mg Casting Alloys. International Journal of Metalcasting, 2022, 16, 1915-1931.	1.9	4
16	Intermetallics Formation during Solidification of Al-Si-Cu-Mg Cast Alloys. Materials, 2022, 15, 1335.	2.9	13
17	Mechanical Performance and Precipitation Behavior in Al-Si-Cu-Mg Cast Alloys: Effect of Prolonged Thermal Exposure. Materials, 2022, 15, 2830.	2.9	4
18	Assessment of the Influence of Additives on the Mechanical Properties and Machinability of Al-11%Si Cast Alloys: Application of DOE and ANOVA Methods. Materials, 2022, 15, 3297.	2.9	0

#	Article	IF	Citations
19	Effect of Zr and Ti Addition and Aging Treatment on the Microstructure and Tensile Properties of Al-2%Cu-Based Alloys. Materials, 2022, 15, 4511.	2.9	2
20	Effect of Transition Metals Addition on Tensile Properties of Alâ€“Siâ€“Cu-Based Alloys at 25ÂÂ°C and 250ÂÂ°C: Role of Heat Treatment. International Journal of Metalcasting, 2021, 15, 60-75.	1.9	8
21	A Review on the Criteria of Hot Tearing Susceptibility of Aluminum Cast Alloys. International Journal of Metalcasting, 2021, 15, 1362-1374.	1.9	21
22	Spheroidization and Coarsening of Eutectic Si Particles in Al-Si-Based Alloys. Advances in Materials Science and Engineering, 2021, 2021, 1-16.	1.8	12
23	Effects of Alloying Elements Additions on Ambient Temperature Performance of Alâ€“Siâ€“Cuâ€“Mg Base Alloys. International Journal of Metalcasting, 2021, 15, 1385-1401.	1.9	6
24	The Concept of Quality Index and Its Application for Alâ€“Si Cast Alloys. International Journal of Metalcasting, 2021, 15, 1197-1212.	1.9	12
25	Change of Tensile Properties with Aging Time and Temperature in Al-Si-Cu-Mg 354 Cast Alloys with/without Minor Addition of Ni and/or Zr. Advances in Materials Science and Engineering, 2021, 2021, 1-18.	1.8	2
26	Effect of Dispersoids and Intermetallics on Hardening the Al-Si-Cu-Mg Cast Alloys. Advances in Materials Science and Engineering, 2021, 2021, 1-15.	1.8	2
27	A Review Study on the Main Sources of Porosity in Al-Si Cast Alloys. Advances in Materials Science and Engineering, 2021, 2021, 1-16.	1.8	15
28	Strengthening precipitates and mechanical performance of Alâ€“Siâ€“Cuâ€“Mg cast alloys containing transition elements. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 820, 141497.	5.6	15
29	Various Aspects Influencing the Fracture Behavior of Impact-Tested Zr-Containing Alâ€“Siâ€“Cuâ€“Mgâ€“354-Type Alloys. International Journal of Metalcasting, 2021, 15, 1282-1297.	1.9	5
30	Effect of Rare Earth Metals on the Mechanical Properties and Fractography of Alâ€“Si-Based Alloys. International Journal of Metalcasting, 2020, 14, 108-124.	1.9	16
31	Development of Residual Stresses in Alâ€“Si Engine Blocks Subjected to Different Metallurgical Parameters. International Journal of Metalcasting, 2020, 14, 25-36.	1.9	4
32	Effect of Transition Metals Addition on the Microstructure and Incipient Melting of 354-Based Alloys. International Journal of Metalcasting, 2020, 14, 47-58.	1.9	3
33	Role of Heat Treatment on the Tensile Properties and Fractography of Alâ€“1.2Siâ€“2.4Cu and Alâ€“8.0Siâ€“2.4Cu Cast Alloys Modified with Ce, La and Sr Addition. International Journal of Metalcasting, 2020, 14, 218-242.	1.9	9
34	Effect of the Addition of La and Ce on the Solidification Behavior of Alâ€“Cu and Alâ€“Siâ€“Cu Cast Alloys. International Journal of Metalcasting, 2020, 14, 191-206.	1.9	14
35	Effect of tool quality on the machinability characteristics of Al-Cu and Al-Si cast alloys. International Journal of Advanced Manufacturing Technology, 2020, 106, 1317-1326.	3.0	3
36	Effect of morphological changes of eutectic Si particles on the ambient and high temperature tensile properties of Zr containing Alâ€“Si alloys. Journal of Materials Research and Technology, 2020, 9, 5962-5981.	5.8	18

#	Article	IF	Citations
37	Effect of Extended Thermal Exposure and Alloying Elements on the Morphology of Eutectic Si in Alâ€“Si Cast Alloys. International Journal of Metalcasting, 2020, 14, 1013-1024.	1.9	8
38	High-Temperature Tensile Fractography of Zr-, Ni-, and Mn-Containing Al-Si-Cu-Mg Cast Alloys. Advances in Materials Science and Engineering, 2020, 2020, 1-11.	1.8	2
39	Some aspects of grain refining of Al-Si cast alloys. International Journal of Cast Metals Research, 2019, 32, 1-14.	1.0	10
40	On the Enhancement of the Microstructure and Tensile Properties of an Alâ€“Cu Based Cast Alloy. Metallography, Microstructure, and Analysis, 2019, 8, 757-769.	1.0	6
41	Milling parameters of Al-Cu and Al-Si cast alloys. International Journal of Advanced Manufacturing Technology, 2019, 104, 3731-3743.	3.0	2
42	Effect of metallurgical parameters on the drilling and tapping characteristics of aluminum cast alloys. International Journal of Advanced Manufacturing Technology, 2019, 105, 1357-1370.	3.0	6
43	Effect of additives on the microstructure and tensile properties of Alâ€“Si alloys. Journal of Materials Research and Technology, 2019, 8, 2255-2268.	5.8	42
44	Melting and solidification characteristics of Zr-, Ni-, and Mn-containing 354-type Al-Si-Cu-Mg cast alloys. Philosophical Magazine, 2019, 99, 1633-1655.	1.6	13
45	On the Elevated Temperature, Tensile Properties of Al-Cu Cast Alloys: Role of Heat Treatment. Advances in Materials Science and Engineering, 2019, 2019, 1-15.	1.8	8
46	Grain refining of Al-Si alloys using Al-10% Ti master alloy: role of Zr addition. International Journal of Cast Metals Research, 2019, 32, 46-58.	1.0	9
47	Relation between residual stresses and microstructure evolution in Alâ€“Si alloys based on different casting parameters. Philosophical Magazine, 2019, 99, 284-305.	1.6	3
48	Static versus dynamic thermal exposure of transition elements-containing Al-Si-Cu-Mg cast alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 739, 499-512.	5.6	21
49	Effects of Alloying Elements and Testing Temperature on the Q-Index of Alâ€“Si Based Alloys. International Journal of Metalcasting, 2018, 12, 839-852.	1.9	9
50	Effect of Ni and Mn Additions on the Ambient and High-Temperature Performance of Zr-Containing Alâ€“Siâ€“Cuâ€“Mg-Based Alloys: Role of Precipitation Hardening. International Journal of Metalcasting, 2018, 12, 825-838.	1.9	7
51	Microstructural characterisation of Alâ€“Si cast alloys containing rare earth additions. Philosophical Magazine, 2018, 98, 1337-1359.	1.6	26
52	Metallurgical Aspects of Inclusion Assessment in Alâ€“6%Si Casting Alloy Using the LiMCA Technique. International Journal of Metalcasting, 2018, 12, 643-657.	1.9	3
53	Effect of Î²-Al5FeSi and Ï€-Al8Mg3FeSi6 Phases on the Impact Toughness and Fractography of Alâ€“Siâ€“Mg-Based Alloys. International Journal of Metalcasting, 2018, 12, 148-163.	1.9	15
54	Measurement of Particles in Molten Alâ€“Si Alloys Applying the Ultrasonic Technique. International Journal of Metalcasting, 2018, 12, 235-250.	1.9	4

#	Article	IF	Citations
55	Inclusion Measurement and Identification in Mg-Based Alloys: Application of the Brightimeter Technique. International Journal of Metalcasting, 2018, 12, 2-19.	1.9	8
56	On the Impact Properties and Fractography of Alâ€“11%Si Casting Alloy. International Journal of Metalcasting, 2018, 12, 36-54.	1.9	5
57	Beta Al5FeSi phase platelets-porosity formation relationship in A319.2 type alloys. International Journal of Metalcasting, 2018, 12, 55-70.	1.9	19
58	Effect of Rare Earth Metals on Porosity Formation in A356 Alloy. International Journal of Metalcasting, 2018, 12, 251-265.	1.9	23
59	Response of Varying Levels of Silicon and Transition Elements on Room- and Elevated-Temperature Tensile Properties in an Alâ€“Cu Alloy. International Journal of Metalcasting, 2018, 12, 396-414.	1.9	6
60	Inclusion Measurements in Alâ€“Si Foundry Alloys Using Qualiflash and Prefil Filtration Techniques. International Journal of Metalcasting, 2018, 12, 625-642.	1.9	8
61	Effect of Srâ€“Grain Refiningâ€“Si Interactions on the Microstructural Characteristics of Alâ€“Si Hypoeutectic Alloys. International Journal of Metalcasting, 2018, 12, 343-361.	1.9	20
62	Intermetallic precipitation in rare earth-treated A413.1 alloy: A metallographic study. International Journal of Materials Research, 2018, 109, 157-171.	0.3	5
63	Mechanical Performance of Zr-Containing 354-Type Al-Si-Cu-Mg Cast Alloy: Role of Additions and Heat Treatment. Advances in Materials Science and Engineering, 2018, 2018, 1-17.	1.8	10
64	Rare Earth Metal-Based Intermetallics Formation in Alâ€“Cuâ€“Mg and Alâ€“Siâ€“Cuâ€“Mg Alloys: A Metallographic Study. Advances in Materials Science and Engineering, 2018, 2018, 1-15.	1.8	7
65	Effects of heat treatment and testing temperature on the tensile properties of Alâ€“Cu and Alâ€“Cuâ€“Si based alloys. International Journal of Materials Research, 2018, 109, 314-331.	0.3	4
66	Effect of Microalloying Elements on the Heat Treatment Response and Tensile Properties of Al-Si-Mg Alloys. , 2018, , .		4
67	Effect of Melt Temperature on the Effectiveness of the Grain Refining in Al-Si Castings. Advances in Materials Science and Engineering, 2018, 2018, 1-11.	1.8	7
68	Effects of Addition of Transition Metals on Intermetallic Precipitation in Alâ€“2%Cuâ€“1%Si-Based Alloys. International Journal of Metalcasting, 2018, 12, 574-588.	1.9	7
69	Effect of Srâ€“Grain Refinerâ€“Si Interactions on the Microstructure Characteristics of Alâ€“Si Hypereutectic Alloys. International Journal of Metalcasting, 2018, 12, 307-320.	1.9	13
70	Effect of Aging Conditions on Precipitation Hardening in Alâ€“Siâ€“Mg and Alâ€“Siâ€“Cuâ€“Mg Alloys. International Journal of Metalcasting, 2017, 11, 274-286.	1.9	30
71	On the Microstructure, Hardness and Impact Toughness of 356 and 413 Alloys. International Journal of Metalcasting, 2017, 11, 240-254.	1.9	5
72	Porosity Formation in Alâ€“Si Sand Mold Castings. International Journal of Metalcasting, 2017, 11, 812-822.	1.9	12

#	Article	IF	Citations
73	On the Impact Properties and Fracture Mechanisms of A356.2-Type Cast Alloys. International Journal of Metalcasting, 2017, 11, 766-777.	1.9	6
74	Effect of additives and heat treatment on the tensile properties of 354 alloy at 25 Â°C and 250 Â°C. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 708, 77-90.	5.6	7
75	On the Enhancement of the Impact Toughness of A319 Alloys: Role of Mg Content and Melt Treatment. International Journal of Metalcasting, 2017, 11, 536-551.	1.9	4
76	Effect of Solidification Parameters on the Microstructure and Tensile Properties of 319-Type Alloys. International Journal of Metalcasting, 2017, 11, 552-567.	1.9	4
77	Effect of Metallurgical Parameters on the Performance of Al-2%Cu-Based Alloys. International Journal of Metalcasting, 2017, 11, 581-597.	1.9	7
78	Effect of Fe, Sr, P, Ti and Undercooling on the Precipitation of Î²-Al5FeSi in A319.2 Type Alloys. International Journal of Metalcasting, 2017, 11, 675-687.	1.9	8
79	A Metallographic Study of Grain Refining of Sr-Modified 356 Alloy. International Journal of Metalcasting, 2017, 11, 305-320.	1.9	27
80	Effect of Ni, Mn, Sc, and Zr Addition on the Tensile Properties of 354-Type Alloys at Ambient Temperature. International Journal of Metalcasting, 2017, 11, 396-412.	1.9	7
81	Effect of Transition Metals on the Tensile Properties of 354 Alloy: Role of Precipitation Hardening. International Journal of Metalcasting, 2017, 11, 413-427.	1.9	16
82	Thermal Analysis for Detection of Zr-Rich Phases in Alâ€“Siâ€“Cuâ€“Mg 354-Type Alloys. International Journal of Metalcasting, 2017, 11, 428-439.	1.9	13
83	New Method of Eutectic Silicon Modification in Cast Alâ€“Si Alloys. International Journal of Metalcasting, 2017, 11, 475-493.	1.9	18
84	Effect of Mold Type on the Microstructure and Tensile Properties of A356 Alloy. International Journal of Metalcasting, 2017, 11, 523-535.	1.9	3
85	On the Mechanical Properties of Lost Foam Cast A356 Automotive Components: Effects of Melt Treatment and Solidification Conditions. International Journal of Metalcasting, 2017, 11, 494-505.	1.9	5
86	Influence of Oxides on Porosity Formation in Sr-Treated Alloys. International Journal of Metalcasting, 2017, 11, 729-742.	1.9	19
87	Phase precipitation in transition metal-containing 354-type alloys. International Journal of Materials Research, 2017, 108, 108-125.	0.3	6
88	Effect of Rare Earth Metals, Sr, and Ti Addition on the Microstructural Characterization of A413.1 Alloy. Advances in Materials Science and Engineering, 2017, 2017, 1-12.	1.8	14
89	Effect of Solidification Rate and Rare Earth Metal Addition on the Microstructural Characteristics and Porosity Formation in A356 Alloy. Advances in Materials Science and Engineering, 2017, 2017, 1-19.	1.8	7
90	Effect of Aluminum Addition on the Microstructure, Tensile Properties, and Fractography of Cast Mg-Based Alloys. Advances in Materials Science and Engineering, 2017, 2017, 1-10.	1.8	13

#	Article	IF	Citations
91	Effect of Sr-P Interaction on the Microstructure and Tensile Properties of A413.0 Type Alloys. Advances in Materials Science and Engineering, 2016, 2016, 1-11.	1.8	8
92	Effect of Mg Content and Heat Treatment on the Mechanical Properties of Low Pressure Die-Cast 380 Alloy. Advances in Materials Science and Engineering, 2016, 2016, 1-12.	1.8	4
93	Effects of La and Ce Addition on the Modification of Al-Si Based Alloys. Advances in Materials Science and Engineering, 2016, 2016, 1-13.	1.8	29
94	Effect of Rare Earth Metals on the Microstructure of Al-Si Based Alloys. Materials, 2016, 9, 45.	2.9	41
95	Metallurgical Parameters Controlling the Eutectic Silicon Charateristics in Be-Treated Al-Si-Mg Alloys. Materials, 2016, 9, 78.	2.9	19
96	The Effect of Bi-Sr and Ca-Sr Interactions on the Microstructure and Tensile Properties of Al-Si-Based Alloys. Materials, 2016, 9, 126.	2.9	14
97	Effect of metallurgical parameters on the microstructure, hardness impact properties, and fractography of Al-(6.5â€“11.5) wt% Si based alloys. Materials and Design, 2016, 107, 426-439.	7.0	18
98	Effect of Additions of SiC and Al2O3 Particulates on the Microstructure and Tensile Properties of Alâ€“Siâ€“Cuâ€“Mg Cast Alloys. International Journal of Metalcasting, 2016, 10, 253-263.	1.9	8
99	Influence of Metallurgical Parameters on the Impact Toughness of Near Eutectic Alâ€“Si Alloys. International Journal of Metalcasting, 2016, 10, 276-288.	1.9	4
100	Optimizing the Heat Treatment of High-Strength 7075-Type Wrought Alloys: A Metallographic Study. International Journal of Metalcasting, 2016, 10, 264-275.	1.9	10
101	On the impact toughness of Alâ€“Si cast alloys. Materials and Design, 2016, 91, 388-397.	7.0	30
102	Role of cerium, lanthanum, and strontium additions in an Al â€“ Si â€“ Mg (A356) alloy. International Journal of Materials Research, 2016, 107, 446-458.	0.3	15
103	Microstructural Characterization of Beryllium Treated Al-Si Alloys. Advances in Materials Science and Engineering, 2015, 2015, 1-10.	1.8	6
104	Effect of intermetallics on the microstructure and tensile properties of aluminum based alloys: Role of Sr, Mg and Be addition. Materials and Design, 2015, 86, 30-40.	7.0	19
105	On the impact toughness of Al-15Âvol.% B 4 C metal matrix composites. Composites Part B: Engineering, 2015, 79, 83-94.	12.0	59
106	Role of modification and melt thermal treatment processes on the microstructure and tensile properties of Alâ€“Si alloys. Materials & Design, 2015, 80, 99-108.	5.1	47
107	Microstructural evolution during solidification of Alâ€“Cu-based alloys. International Journal of Materials Research, 2015, 106, 1144-1153.	0.3	2
108	Role of Zr and Sc addition in controlling the microstructure and tensile properties of aluminumâ€“copper based alloys. Materials and Design, 2015, 88, 1134-1144.	7.0	29

#	Article	IF	Citations
109	Intermetallic phases in Alâ€“Si based cast alloys: new perspective. International Journal of Cast Metals Research, 2014, 27, 107-114.	1.0	57
110	Effect of melt treatment on impact toughness of 356 type alloys. International Journal of Cast Metals Research, 2014, 27, 101-106.	1.0	0
111	On thermal analysis, macrostructure and microstructure of grain refined Alâ€“Siâ€“Mg cast alloys: role of Sr addition. International Journal of Cast Metals Research, 2014, 27, 257-266.	1.0	11
112	Optimizing the tensile properties of Alâ€“Siâ€“Cuâ€“Mg 319-type alloys: Role of solution heat treatment. Materials & Design, 2014, 58, 426-438.	5.1	75
113	Effect of Fe content on the fracture behaviour of Alâ€“Siâ€“Cu cast alloys. Materials & Design, 2014, 57, 366-373.	5.1	64
114	The ambient and high temperature deformation behavior of Alâ€“Siâ€“Cuâ€“Mg alloy with minor Ti, Zr, Ni additions. Materials & Design, 2014, 58, 89-101.	5.1	115
115	Effect of grain refiner on the tensile and impact properties of Alâ€“Siâ€“Mg cast alloys. Materials & Design, 2014, 56, 468-479.	5.1	105
116	Ni- and Zr-Based Intermetallics in Alâ€“Siâ€“Cuâ€“Mg Cast Alloys. Metallography, Microstructure, and Analysis, 2014, 3, 408-420.	1.0	2
117	Impact toughness of Alâ€“Siâ€“Cuâ€“Mgâ€“Fe cast alloys: Effects of minor additives and aging conditions. Materials & Design, 2014, 60, 496-509.	5.1	26
118	A preliminary study on optimizing the heat treatment of high strength Alâ€“Cuâ€“Mgâ€“Zn alloys. Materials & Design, 2014, 57, 342-350.	5.1	48
119	Effect of grain refining and Sr-modification interactions on the impact toughness of Alâ€“Siâ€“Mg cast alloys. Materials & Design, 2014, 56, 264-273.	5.1	84
120	Mechanical properties and fracture of Alâ€“15 vol.-%B₄C based metal matrix composites. International Journal of Cast Metals Research, 2014, 27, 7-14.	1.0	37
121	Relationship between tensile and impact properties in Alâ€“Siâ€“Cuâ€“Mg cast alloys and their fracture mechanisms. Materials & Design, 2014, 53, 938-946.	5.1	40
122	Effect of multi-temperature aging on the characterization of aluminum based castings heat treated using fluidized bed technique. Metals and Materials International, 2013, 19, 783-802.	3.4	2
123	Influence of Fluidized Bed Quenching on the Mechanical Properties and Quality Index of T6 Tempered B319.2-Type Aluminum Alloys. Journal of Materials Engineering and Performance, 2013, 22, 3476-3489.	2.5	2
124	Defects related to incipient melting in Alâ€“Siâ€“Cuâ€“Mg alloys. Materials & Design, 2013, 52, 947-956.	5.1	31
125	Metallurgical parameters controlling matrix/B₄C particulate interaction in aluminiumâ€“boron carbide metal matrix composites. International Journal of Cast Metals Research, 2013, 26, 364-373.	1.0	19
126	Microstructure, tensile properties and fracture behavior of high temperature Alâ€“Siâ€“Mgâ€“Cu cast alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 577, 64-72.	5.6	117

#	Article	IF	Citations
127	Mechanical characterisation and quality index of A356-type aluminium castings heat treated using fluidised bed quenching. Materials Science and Technology, 2013, 29, 412-425.	1.6	6
128	Effects of grain refiner additions (Zr, Tiâ€“B) and of mould variables on hot tearing susceptibility of recently developed Alâ€“2 wt-%Cu alloy. International Journal of Cast Metals Research, 2013, 26, 308-317.	1.0	12
129	Intermetallic phases observed in non-modified and Sr modified Alâ€“Si cast alloys containing mischmetal. International Journal of Cast Metals Research, 2013, 26, 1-15.	1.0	14
130	Effect of Mg addition of microstructure of 319 type alloys. International Journal of Cast Metals Research, 2013, 26, 354-363.	1.0	13
131	Effect of rapid heating on quality assessment of 356 and 319 aluminium cast alloys using fluidised bed. International Journal of Cast Metals Research, 2012, 25, 129-143.	1.0	2
132	Influence of Mg and solution heat treatment on the occurrence of incipient melting in Alâ€“Siâ€“Cuâ€“Mg cast alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 543, 22-34.	5.6	78
133	Influence of Aging Parameters on the Tensile Properties and Quality Index of Al-9ÂPct Si-1.8ÂPct Cu-0.5ÂPct Mg 354-Type Casting Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 61-73.	2.2	46
134	Aging behavior of 359-type Alâ€“9%Siâ€“0.5%Mg casting alloys. Journal of Materials Science, 2012, 47, 1331-1338.	3.7	13
135	Influence of additions of Zr, Tiâ€“B, Sr, and Si as well as of mold temperature on the hot-tearing susceptibility of an experimental Alâ€“2% Cuâ€“1%ÂSi alloy. Journal of Materials Science, 2012, 47, 4146-4158.	3.7	30
136	Effects of Sr-modification, iron-based intermetallics and aging treatment on the impact toughness of 356 Alâ€“Siâ€“Mg alloy. Journal of Materials Science, 2011, 46, 3027-3045.	3.7	51
137	Serrated Flow and Enhanced Ductility in Coarse-Grained Al-Mg Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 1028-1037.	2.2	3
138	Influence of fluidized sand bed heat treatment on the performance of Alâ€“Si cast alloys. Materials & Design, 2011, 32, 1177-1193.	5.1	18
139	Metallurgical parameters controlling the microstructure and hardness of Alâ€“Siâ€“Cuâ€“Mg base alloys. Materials & Design, 2011, 32, 2130-2142.	5.1	94
140	The role of alloying additives and aging treatment on the impact behavior of 319 cast alloy. Materials & Design, 2011, 32, 3205-3220.	5.1	41
141	Impact toughness and fractography of Alâ€“Siâ€“Cuâ€“Mg base alloys. Materials & Design, 2011, 32, 3900-3910.	5.1	45
142	Precipitation-hardening in cast ALâ€“Siâ€“Cuâ€“Mg alloys. Journal of Materials Science, 2010, 45, 641-651.	3.7	68
143	Effects of Mg, Fe, Be additions and solution heat treatment on the Ï€-AlMgFeSi iron intermetallic phase in Alâ€“7Siâ€“Mg alloys. Journal of Materials Science, 2010, 45, 1528-1539.	3.7	46
144	Parameters controlling the microstructure of Alâ€“11Siâ€“2.5Cuâ€“Mg alloys. Materials & Design, 2010, 31, 902-912.	5.1	37

#	Article	IF	Citations
145	Influence of aging treatments and alloying additives on the hardness of Alâ€“11Siâ€“2.5Cuâ€“Mg alloys. Materials & Design, 2010, 31, 3791-3803.	5.1	34
146	Effects of aging parameters on the quality of 413-type commercial alloys. Materials & Design, 2009, 30, 1014-1025.	5.1	10
147	Precipitation of Î²-Al5FeSi Phase Platelets in Al-Si Based Casting Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2009, 40, 2457-2469.	2.2	36
148	Influence of additives on the impact toughness of Alâ€“10.8% Si near-eutectic cast alloys. Materials & Design, 2009, 30, 4218-4229.	5.1	44
149	Influence of additives on the microstructure and tensile properties of near-eutectic Alâ€“10.8%Si cast alloy. Materials & Design, 2009, 30, 3943-3957.	5.1	157
150	The effects of mischmetal, cooling rate and heat treatment on the hardness of A319.1, A356.2 and A413.1 Alâ€“Si casting alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 486, 241-252.	5.6	50
151	Influences of alloying elements, solution treatment time and quenching media on quality indices of 413-type Alâ€“Si casting alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 489, 426-438.	5.6	47
152	Influence of Tin Addition on the Microstructure and Mechanical Properties of Al-Si-Cu-Mg and Al-Si-Mg Casting Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2008, 39, 490-501.	2.2	41
153	Effect of Mg and Sr-modification on the mechanical properties of 319-type aluminum cast alloys subjected to artificial aging. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 480, 356-364.	5.6	78
154	Effects of surface porosity on the fatigue strength of AE425 and PM390 hypereutectic Alâ€“Si casting alloys at medium and elevated temperatures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 473, 58-64.	5.6	31
155	Effect of casting imperfections on the fatigue life of 319-F and A356-T6 Alâ€“Si casting alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 473, 65-75.	5.6	168
156	The effects of mischmetal, cooling rate and heat treatment on the eutectic Si particle characteristics of A319.1, A356.2 and A413.1 Alâ€“Si casting alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 480, 342-355.	5.6	82
157	A study of tensile properties in Alâ€“Siâ€“Cu and Alâ€“Siâ€“Mg alloys: Effect of Î²-iron intermetallics and porosity. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 490, 36-51.	5.6	167
158	Dissolution of Al₂Cu phase in non-modified and Sr modified 319 type alloys. International Journal of Cast Metals Research, 2008, 21, 387-393.	1.0	24
159	Effect of metallurgical parameters on the hardness and microstructural characterization of as-cast and heat-treated 356 and 319 aluminum alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 443, 185-201.	5.6	115
160	Effect of metallurgical parameters on the machinability of heat-treated 356 and 319 aluminum alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 434, 207-217.	5.6	52
161	Metallographic observations ofÎ²-AlFeSi phase and its role in porosity formation in Alâ€“7%Si alloys. International Journal of Cast Metals Research, 2006, 19, 156-166.	1.0	37
162	Nucleation of Fe-intermetallic phases in the Al-Si-Fe alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2005, 36, 1017-1032.	2.2	58

#	Article	IF	Citations
163	Effect of grain refining and Sr modification on Prefil measurement sensitivity in 356 alloys using electron probe microanalysis technique. International Journal of Cast Metals Research, 2004, 17, 79-87.	1.0	10
164	Characteristics of Î±-dendritic and eutectic structures in Sr-treated Alâ€"Si casting alloys. Journal of Materials Science, 2004, 39, 215-224.	3.7	24
165	Nucleation of solid aluminum on inclusion particles injected into Al-Si-Fe alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2004, 35, 3233-3250.	2.2	24
166	Parameters controlling the performance of AA319-type alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 367, 96-110.	5.6	83
167	Parameters controlling the performance of AA319-type alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 367, 111-122.	5.6	33
168	Role of P and Fe on the precipitation of copper intermetallics in 319 alloys. Journal of Materials Science Letters, 2003, 22, 585-587.	0.5	2
169	Title is missing!. Journal of Materials Science, 2003, 38, 4507-4522.	3.7	89
170	Title is missing!. Journal of Materials Science, 2003, 38, 4523-4534.	3.7	47
171	Title is missing!. Journal of Materials Science, 2003, 38, 1203-1218.	3.7	123
172	Influence of oxides on porosity formation in Sr-treated Al-Si casting alloys. Journal of Materials Science, 2003, 38, 1255-1267.	3.7	89
173	Iron intermetallic phases in the Al corner of the Al-Si-Fe system. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2003, 34, 807-825.	2.2	18
174	Influence of composition, Sr modification, and annealing treatment on the structure and properties of cast Al-4 pct Mg alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2003, 34, 115-129.	2.2	16
175	Iron intermetallic phases in the Al corner of the Al-Si-Fe system. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2003, 34, 807-825.	2.2	134
176	Effects of Bi and Ca addition on the characteristics of eutectic Si particles in Sr-modified 319 alloys. International Journal of Cast Metals Research, 2003, 15, 551-564.	1.0	15
177	Metallographic observations on phase precipitation in strontium-modified Al-11.7% Si alloys: Role of alloying elements. International Journal of Cast Metals Research, 2003, 15, 609-626.	1.0	18
178	Role of iron in relation to silicon modification in Sr-treated 319 and 356 alloys. International Journal of Cast Metals Research, 2003, 16, 397-408.	1.0	19
179	Effect of Mg and Cu additions on the microstructural characteristics and tensile properties of Sr-modified Al-Si eutectic alloys. International Journal of Cast Metals Research, 2002, 14, 235-253.	1.0	57
180	Effect of trace elements on Î²-Al₅FeSi characteristics, porosity and tensile properties of Al-Si-Cu (319) cast alloys. International Journal of Cast Metals Research, 2001, 14, 97-120.	1.0	44

#	Article	IF	Citations
181	Effect of Mg on the ageing behaviour of Al-Si-Cu 319 type aluminium casting alloys. Journal of Materials Science, 1999, 34, 4671-4697.	3.7	112
182	Microstructural observations on Fe-intermetallics in unmodified and Sr-modified Al-Si-Cu (A380.1) die casting alloy. International Journal of Cast Metals Research, 1999, 12, 197-210.	1.0	19
183	Measurements of oxide films in Al-(6â€“17) wt%Si foundry alloys using the Qualiflash filtration technique. International Journal of Cast Metals Research, 1999, 12, 49-65.	1.0	6
184	Fragmentation and dissolution of Î²-Al₅FeSi phase during solution heat treatment of Al-13wt%Si-Fe alloys. International Journal of Cast Metals Research, 1999, 12, 145-160.	1.0	24
185	Incipient melting of Al5Mg8Si6Cu2 and Al2Cu intermetallics in unmodified and strontium-modified Alâ€“Siâ€“Cuâ€“Mg (319) alloys during solution heat treatment. Journal of Materials Science, 1998, 33, 2283-2297.	3.7	115
186	Effect of Mg and Sr additions on the formation of intermetallics in Al-6 Wt pct Si-3.5 Wt pct Cu-(0.45) to (0.8) Wt pct Fe 319-type alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1998, 29, 2871-2884.	2.2	96
187	Modification of iron intermetallics by magnesium and strontium in Al-Si alloys. International Journal of Cast Metals Research, 1997, 10, 147-157.	1.0	24
188	Title is missing!. Journal of Materials Science, 1997, 32, 5901-5925.	3.7	25
189	Title is missing!. Journal of Materials Science, 1997, 32, 5927-5944.	3.7	15
190	Solution heat treatment of 319 aluminium alloy containing ~0.5 wt% Mg. Part 2â€”microstructure and fractography. International Journal of Cast Metals Research, 1996, 9, 213-225.	1.0	18
191	Porosity formation in Al-9 Wt Pct Si-3 Wt Pct Cu alloy systems: Metallographic observations. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1996, 27, 415-429.	2.2	144
192	Microstructural aspects of the dissolution and melting of Al2Cu phase in Al-Si alloys during solution heat treatment. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1996, 27, 1785-1798.	2.2	135
193	Observations on the formation of ?-Al5FeSi phase in 319 type Al-Si alloys. Journal of Materials Science, 1996, 31, 5529-5539.	3.7	107
194	Porosity formation in Al-9 wt% Si-3 wt% Cu-X alloy systems: measurements of porosity. Journal of Materials Science, 1996, 31, 1243-1254.	3.7	16
195	Statistical analysis of porosity in Al-9 wt% Si-3 wt% Cu-X alloy systems. Journal of Materials Science, 1996, 31, 4725-4740.	3.7	13
196	Heat treatment of 319.2 aluminium automotive alloy Part 1, Solution heat treatment. Cast Metals, 1995, 8, 91-106.	0.4	61
197	Heat treatment of 319.2 aluminium automotive alloy Part 2, Ageing behaviour. Cast Metals, 1995, 8, 107-114.	0.4	25
198	Effect of solidification rate and metal feedability on porosity and SiCAl2O3 particle distribution in an Al-Si-Mg (359) alloy. Composites Science and Technology, 1995, 53, 301-315.	7.8	57

#	Article	IF	Citations
199	Effect of melt treatment, solidification conditions and porosity level on the tensile properties of 319.2 endchill aluminium castings. Journal of Materials Science, 1995, 30, 4823-4833.	3.7	27
200	FRACTURE BEHAVIOUR OF Al12wt.%Si0.35wt.%Mg(0?0.02)wt.%Sr CASTING ALLOYS UNDER FATIGUE TESTING. Fatigue and Fracture of Engineering Materials and Structures, 1995, 18, 385-396.	3.4	23
201	Effect of silicon particles on the fatigue crack growth characteristics of Al-12 Wt Pct Si-0.35 Wt Pct Mg-(0 to 0.02) Wt Pct Sr casting alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1995, 26, 1553-1570.	2.2	73
202	Studies on addition of inclusions to molten aluminum using a novel technique. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 1995, 26, 103-109.	2.1	57
203	Dissolution of iron intermetallics in Al-Si Alloys through nonequilibrium heat treatment. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1995, 26, 2161-2174.	2.2	95
204	A metallographic study of porosity and fracture behavior in relation to the tensile properties in 319.2 end chill castings. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1995, 26, 2359-2372.	2.2	103
205	Effect of heat treatment on the microstructure, tensile properties, and fracture behavior of permanent mold Al-10 wt pct Si-0.6 wt pct Mg/SiC/10p composite castings. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1994, 25, 2247-2263.	2.2	14
206	Crystallization behavior of iron-containing intermetallic compounds in 319 aluminum alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1994, 25, 1761-1773.	2.2	250
207	Effect of melt cleanliness on the properties. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1993, 24, 1631-1645.	1.4	27
208	Mechanism of Heterogeneous Nucleation of Pores in Metals and Alloys. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1993, 24, 1845-1856.	1.4	26
209	The Reduced Pressure Test as a Measuring Tool in the Evaluation of Porosity/Hydrogen Content in Al-7 Wt pct Si-10 Vol pct SiC(p) Metal Matrix Composite. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1993, 24, 1857-1868.	1.4	29
210	Various aspects involved in the production of low-hydrogen aluminium castings. Journal of Materials Science, 1992, 27, 6533-6563.	3.7	55
211	A Review on the Heat Treatment of Al-Si-Cu/Mg Casting Alloys. , 0, , .		44
212	Melt Treatment-Porosity Formation Relationship in Al-Si Cast Alloys. , 0, , .		0
213	Generation and Relaxation of Residual Stresses in Automotive Cylinder Blocks. , 0, , .		0
214	Effect of Rare Earth Metals (Ce and La) Addition on the Performance of Al-Si-Cu-Mg Cast Alloys. International Journal of Metalcasting, 0, , 1.	1.9	2
215	Effect of Iron, Copper and Heat Treatments on the Microstructure and Tensile Properties of Al-Si-Based Alloys. International Journal of Metalcasting, 0, , 1.	1.9	1
216	The Influence of Hot Isostatic Pressing on the Fatigue Life of Alâ€“Siâ€“Cuâ€“Mg 354-T6 Casting Alloy. International Journal of Metalcasting, 0, , 1.	1.9	0

#	Article	IF	Citations
217	Premium Strength and Optimum Quality in Al-Si-Mg/Al-Si-Mg-Cu Cast Alloys Using Two Different Types of Molds. International Journal of Metalcasting, 0, , 1.	1.9	1
218	Applications of Rare Earth Metals in Al-Si Cast Alloys. , 0, , .		2
219	Why Al-B4C Metal Matrix Composites? A Review. , 0, , .		0
220	The Influence of Microstructure and Composition on the Machinability of Al-Si Alloys. , 0, , 843-848.		1
221	Effect of Zr Addition and Aging Treatment on the Tensile Properties of Al-Si-Cu-Mg Cast Alloys. , 0, , .		1
222	Appropriate Heat Treatment Procedures for Improving Strength and Quality Index in 354 Casting Alloys. International Journal of Metalcasting, 0, , 1.	1.9	1
223	Effect of Free Cutting Elements on the Microstructural Evaluation and Mechanical Properties of Alâ€“Si Cast Alloys. International Journal of Metalcasting, 0, , .	1.9	0