

# Yucel Birol

## List of Publications by Citations

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#	Paper	IF	Citations
172	Pre-aging to improve bake hardening in a twin-roll cast AlMgSi alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2005</b> , 391, 175-180	5.3	117
171	A357 thixoforming feedstock produced by cooling slope casting. <i>Journal of Materials Processing Technology</i> , <b>2007</b> , 186, 94-101	5.3	98
170	Pre-straining to improve the bake hardening response of a twin-roll cast AlMgSi alloy. <i>Scripta Materialia</i> , <b>2005</b> , 52, 169-173	5.6	89
169	Grain refining efficiency of AlTiC alloys. <i>Journal of Alloys and Compounds</i> , <b>2006</b> , 422, 128-131	5.7	76
168	High temperature sliding wear behaviour of Inconel 617 and Stellite 6 alloys. <i>Wear</i> , <b>2010</b> , 269, 664-671	3.5	75
167	Cooling slope casting and thixoforming of hypereutectic A390 alloy. <i>Journal of Materials Processing Technology</i> , <b>2008</b> , 207, 200-203	5.3	74
166	The effect of homogenization practice on the microstructure of AA6063 billets. <i>Journal of Materials Processing Technology</i> , <b>2004</b> , 148, 250-258	5.3	73
165	AlB3 master alloy to grain refine AlSi10Mg and AlSi12Cu aluminium foundry alloys. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 513, 150-153	5.7	66
164	Sliding wear of CrN, AlCrN and AlTiN coated AISI H13 hot work tool steels in aluminium extrusion. <i>Tribology International</i> , <b>2013</b> , 57, 101-106	4.9	64
163	An improved practice to manufacture AlTiB master alloys by reacting halide salts with molten aluminium. <i>Journal of Alloys and Compounds</i> , <b>2006</b> , 420, 71-76	5.7	63
162	A novel AlTiB alloy for grain refining AlSi foundry alloys. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 486, 219-222	5.7	61
161	Impact of grain size on mechanical properties of AlSi7Mg0.3 alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 559, 394-400	5.3	54
160	Semi-solid processing of the primary aluminium die casting alloy A365. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 473, 133-138	5.7	54
159	Thermal fatigue testing of Inconel 617 and Stellite 6 alloys as potential tooling materials for thixoforming of steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 527, 1938-1945	5.3	54
158	In situ synthesis of AlTiCp composites by reacting K <sub>2</sub> TiF <sub>6</sub> and particulate graphite in molten aluminium. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 454, 110-117	5.7	53
157	Microstructural evolution during annealing of a rapidly solidified Al <sub>2</sub> Si alloy. <i>Journal of Alloys and Compounds</i> , <b>2007</b> , 439, 81-86	5.7	53
156	Performance of AlTi5B1, AlTi3B3 and AlB3 master alloys in refining grain structure of aluminium foundry alloys. <i>Materials Science and Technology</i> , <b>2012</b> , 28, 481-486	1.5	52

155	Effect of silicon content in grain refining hypoeutectic AlSi foundry alloys with boron and titanium additions. <i>Materials Science and Technology</i> , <b>2012</b> , 28, 385-389	1.5	49
154	Production of AlTiB master alloys from Ti sponge and KBF <sub>4</sub> . <i>Journal of Alloys and Compounds</i> , <b>2007</b> , 440, 108-112	5.7	49
153	The effect of processing and Mn content on the T5 and T6 properties of AA6082 profiles. <i>Journal of Materials Processing Technology</i> , <b>2006</b> , 173, 84-91	5.3	48
152	Production of AlTiB grain refining master alloys from B <sub>2</sub> O <sub>3</sub> and K <sub>2</sub> TiF <sub>6</sub> . <i>Journal of Alloys and Compounds</i> , <b>2007</b> , 443, 94-98	5.7	46
151	Analysis of macro segregation in twin-roll cast aluminium strips via solidification curves. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 486, 168-172	5.7	44
150	Effect of the salt addition practice on the grain refining efficiency of AlTiB master alloys. <i>Journal of Alloys and Compounds</i> , <b>2006</b> , 420, 207-212	5.7	43
149	Homogenization of a twin-roll cast thin AlMn strip. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 471, 122-127	5.7	37
148	Thermal fatigue testing of Stellite 6-coated hot work tool steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 527, 6091-6097	5.3	37
147	Production of AlTiB grain refining master alloys from Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> and K <sub>2</sub> TiF <sub>6</sub> . <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 458, 271-276	5.7	37
146	Grain refinement of pure aluminium and AlSi with AlB master alloy. <i>Materials Science and Technology</i> , <b>2012</b> , 28, 363-367	1.5	36
145	Response to artificial ageing of dendritic and globular AlSiMg alloys. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 484, 164-167	5.7	34
144	The interaction of natural ageing with straining in a twin-roll cast AlMgSi automotive sheet. <i>Scripta Materialia</i> , <b>2006</b> , 55, 625-628	5.6	34
143	Recrystallization of a supersaturated AlMn alloy. <i>Scripta Materialia</i> , <b>2008</b> , 59, 611-614	5.6	33
142	The effect of holding conditions in the conventional halide salt process on the performance of AlTiB grain refiner alloys. <i>Journal of Alloys and Compounds</i> , <b>2007</b> , 427, 142-147	5.7	33
141	Response to thermal cycling of CAPVD (Al,Cr)N-coated hot work tool steel. <i>Surface and Coatings Technology</i> , <b>2010</b> , 205, 275-280	4.4	31
140	Microstructural characterization of a rapidly-solidified Al-12 wt% Si alloy. <i>Journal of Materials Science</i> , <b>1996</b> , 31, 2139-2143	4.3	31
139	Impact of homogenization on recrystallization of a supersaturated AlMn alloy. <i>Scripta Materialia</i> , <b>2009</b> , 60, 5-8	5.6	29
138	Solid fraction analysis with DSC in semi-solid metal processing. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 486, 173-177	5.7	28

137	Restoration of the bake hardening response in a naturally aged twin-roll cast AlMgSi automotive sheet. <i>Scripta Materialia</i> , <b>2006</b> , 54, 2003-2008	5.6	28
136	Effect of cooling rate on precipitation during homogenization cooling in an excess silicon AlMgSi alloy. <i>Materials Characterization</i> , <b>2012</b> , 73, 37-42	3.9	27
135	Thixoforming of EN AW-2014 alloy at high solid fraction. <i>Journal of Materials Processing Technology</i> , <b>2011</b> , 211, 1749-1756	5.3	27
134	Forming of AlSi8Cu3Fe alloy in the semi-solid state. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 470, 183-187	5.7	27
133	Thermomechanical processing of a twin-roll cast Al-Fe-0.2Si alloy. <i>Journal of Materials Processing Technology</i> , <b>2008</b> , 202, 564-568	5.3	27
132	The performance of Al-Ti grain refiners in twin-roll casting of aluminium foilstock. <i>Journal of Alloys and Compounds</i> , <b>2007</b> , 430, 179-187	5.7	27
131	Optimization of homogenization for a low alloyed AlMgSi alloy. <i>Materials Characterization</i> , <b>2013</b> , 80, 69-75	3.9	26
130	Production of AlB alloy by heating Al/KBF <sub>4</sub> powder blends. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 481, 195-198	5.7	26
129	Comparison of thixoformability of AA6082 reheated from the as-cast and extruded states. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 461, 132-138	5.7	25
128	Processing of high strength EN AW 6082 forgings without a solution heat treatment. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2016</b> , 674, 25-32	5.3	24
127	A novel C-free Co-based alloy for high temperature tooling applications. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2011</b> , 528, 1117-1124	5.3	24
126	Bake hardening of twin roll cast AlMgSi sheet. <i>Materials Science and Technology</i> , <b>2005</b> , 21, 153-158	1.5	24
125	Improved halide salt process to produce AlB master alloys. <i>Materials Science and Technology</i> , <b>2011</b> , 27, 1846-1850	1.5	23
124	Semisolid processing of near-eutectic and hypereutectic AlSiCu alloys. <i>Journal of Materials Science</i> , <b>2008</b> , 43, 3577-3581	4.3	23
123	Analysis of wear of a gas nitrided H13 tool steel die in aluminium extrusion. <i>Engineering Failure Analysis</i> , <b>2012</b> , 26, 203-210	3.2	22
122	Ni-based superalloy as a potential tool material for thixoforming of steels. <i>Ironmaking and Steelmaking</i> , <b>2009</b> , 36, 555-560	1.3	22
121	Sliding wear behaviour of thixoformed AlSiCuFe alloys. <i>Wear</i> , <b>2008</b> , 265, 1902-1908	3.5	22
120	Effect of welding parameters on microstructure and mechanical properties of friction stir welded EN AW 5083 H111 plates. <i>Materials Science and Technology</i> , <b>2013</b> , 29, 1354-1362	1.5	21

119	Precipitation during homogenization cooling in AlMgSi alloys. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2013</b> , 23, 1875-1881	3.3	21
118	Performance of gas nitrided and AlTiN coated AISI H13 hot work tool steel in aluminium extrusion. <i>Surface and Coatings Technology</i> , <b>2012</b> , 207, 461-466	4.4	21
117	Aluminothermic reduction of boron oxide for the manufacture of AlB alloys. <i>Materials Chemistry and Physics</i> , <b>2012</b> , 136, 963-966	4.4	21
116	Thermal cycling of AlTiN- and AlTiON-coated hot work tool steels at elevated temperatures. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2011</b> , 528, 4703-4709	5.3	21
115	In situ processing of TiCp-Al composites by reacting graphite with Al-Ti melts. <i>Journal of Materials Science</i> , <b>1999</b> , 34, 1653-1657	4.3	21
114	Effect of chemical etching on the morphology of anodic aluminum oxides in the two-step anodization process. <i>Applied Surface Science</i> , <b>2012</b> , 258, 4544-4550	6.7	20
113	AlTiB grain refiners via powder metallurgy processing of Al/K <sub>2</sub> TiF <sub>6</sub> /KBF <sub>4</sub> powder blends. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 480, 311-314	5.7	20
112	Testing of a novel CrNiCo alloy for tooling applications in semi-solid processing of steels. <i>International Journal of Material Forming</i> , <b>2010</b> , 3, 65-70	2	20
111	Thixoforming experiments with 6082 extrusion feedstock. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 455, 178-185	5.7	20
110	Response to annealing treatments of twin-roll cast thin AlBeBi strips. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 458, 265-270	5.7	20
109	DSC analysis of the precipitation reaction in AA6005 alloy. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2008</b> , 93, 977-981	4.1	20
108	Interaction of grain refinement with B and modification with Sr in aluminium foundry alloys. <i>Materials Science and Technology</i> , <b>2012</b> , 28, 70-76	1.5	19
107	DSC Analysis of the precipitation reactions in the alloy AA6082. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2006</b> , 83, 219-222	4.1	19
106	Cooling slope casting to produce EN AW 6082 forging stock for manufacture of suspension components. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2014</b> , 24, 1674-1682	3.3	18
105	Response to thermal cycling of tool materials under steel thixoforming conditions. <i>Ironmaking and Steelmaking</i> , <b>2010</b> , 37, 41-46	1.3	18
104	The Use of CrNiCo-Based Superalloy as Die Material in Semi-Solid Processing of Steels. <i>Solid State Phenomena</i> , <b>2008</b> , 141-143, 289-294	0.4	18
103	Response to thermal exposure of Al/K <sub>2</sub> TiF <sub>6</sub> /C powder blends. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 455, 164-167	5.7	17
102	Wear properties of high-pressure die cast and thixoformed aluminium alloys for connecting rod applications in compressors. <i>Wear</i> , <b>2008</b> , 265, 590-597	3.5	17

101	Effect of bulk die temperature on die cavity surface strains in thixoforming of steels. <i>Ironmaking and Steelmaking</i> , <b>2009</b> , 36, 397-400	1.3	16
100	Response to annealing treatment of a twin-roll cast thin AlFeMnSi strip. <i>Journal of Materials Processing Technology</i> , <b>2009</b> , 209, 506-510	5.3	16
99	What happens to the energy input during fatigue crack propagation?. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1988</b> , 104, 117-124	5.3	16
98	Thixoforming of non-dendritic AA6061 feedstock produced by low superheat casting with and without a cooling slope. <i>International Journal of Materials Research</i> , <b>2007</b> , 98, 1019-1024	0.5	15
97	Effect of solute Si and Cu on grain size of aluminium alloys. <i>International Journal of Cast Metals Research</i> , <b>2013</b> , 26, 22-27	1	14
96	Inconel 617 and Stellite 6 alloys for tooling in thixoforming of steels. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2010</b> , 20, 1656-1662	3.3	14
95	Grain refinement and modification of AlBi foundry alloys with B and Sr additions. <i>Materials Science and Technology</i> , <b>2014</b> , 30, 1154-1161	1.5	13
94	Effect of solute Mg on grain size of aluminium alloys. <i>Materials Science and Technology</i> , <b>2012</b> , 28, 924-927.5	1.5	13
93	Abrasive wear performance of AlCrN-coated hot work tool steel at elevated temperatures under three-body regime. <i>Wear</i> , <b>2011</b> , 270, 281-286	3.5	13
92	Production of AA6082 Feedstock for Forming in the Semi-Solid State. <i>Materials Science Forum</i> , <b>2006</b> , 519-521, 1919-1924	0.4	13
91	Evolution of globular microstructures during processing of aluminium slurries. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2013</b> , 23, 1-6	3.3	12
90	Response to thermal cycling of duplex-coated hot work tool steels at elevated temperatures. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2011</b> , 528, 8402-8409	5.3	12
89	Response to thermal cycling of plasma nitrided hot work tool steel at elevated temperatures. <i>Surface and Coatings Technology</i> , <b>2010</b> , 205, 597-602	4.4	12
88	Response to thermal exposure of the mechanically alloyed AlTi/C powders. <i>Journal of Materials Science</i> , <b>2007</b> , 42, 5123-5128	4.3	12
87	Thermomechanical processing of AA6061 billets for semi-solid forming. <i>International Journal of Materials Research</i> , <b>2007</b> , 98, 53-59	0.5	12
86	Effect of cast and extruded stock on grain structure of EN AW 6082 alloy forgings. <i>Materials Science and Technology</i> , <b>2014</b> , 30, 860-866	1.5	11
85	Internal cooling to produce aluminium alloy slurries for rheocasting. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 480, 365-368	5.7	11
84	Thermal fatigue testing of CuCrZr alloy for high temperature tooling applications. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 4501-4506	4.3	11

83	Impact of partial recrystallization on the performance of 6005A tube extrusions. <i>Engineering Failure Analysis</i> , <b>2010</b> , 17, 1110-1116	3.2	11
82	Response to thermal exposure of the mechanically alloyed Al/C powder blends. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 460, L1-L5	5.7	11
81	Plastic deformation around fatigue cracks. <i>Metallography</i> , <b>1988</b> , 21, 77-90		11
80	Microstructure of a Thin Cast Al-Fe-Mn-Si Strip. <i>Praktische Metallographie/Practical Metallography</i> , <b>2005</b> , 42, 325-338	0.3	11
79	Melt treatment of AlSi foundry alloys with B and Sr additions. <i>Journal of Materials Science</i> , <b>2017</b> , 52, 6856-6865	4.3	10
78	Effect of Cr and Zr on the grain structure of extruded EN AW 6082 alloy. <i>Metals and Materials International</i> , <b>2014</b> , 20, 727-732	2.4	10
77	Homogenization of EN AW 6005A Alloy for Improved Extrudability. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2013</b> , 44, 504-511	2.3	10
76	Effect of iron on microstructure and mechanical properties of primary AlSi7Mg0.3 alloy. <i>International Journal of Cast Metals Research</i> , <b>2017</b> , 30, 96-102	1	10
75	Efficiency of binary and ternary alloys from AlMgB system in grain refining aluminium foundry alloys. <i>International Journal of Cast Metals Research</i> , <b>2013</b> , 26, 283-288	1	10
74	Analysis of the response to thermal exposure of Al/K2TiF6 powder blends. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 478, 265-268	5.7	10
73	The effect of sample preparation on the DSC analysis of 6061 alloy. <i>Journal of Materials Science</i> , <b>2005</b> , 40, 6357-6361	4.3	10
72	Effect of extrusion press exit temperature and chromium on grain structure of EN AW 6082 alloy forgings. <i>Materials Science and Technology</i> , <b>2015</b> , 31, 207-211	1.5	9
71	Grain refining aluminium foundry alloys with commercial AlB master alloys. <i>Materials Science and Technology</i> , <b>2014</b> , 30, 277-282	1.5	9
70	Comparison of Cast and Extruded Stock for the Forging of AA6082 Alloy Suspension Parts. <i>Advanced Materials Research</i> , <b>2014</b> , 939, 299-304	0.5	9
69	Grain refinement of AlCu foundry alloys with B additions. <i>International Journal of Cast Metals Research</i> , <b>2012</b> , 25, 117-120	1	9
68	Response to T6 heat treatment of extruded and thixoformed EN AW 2014 alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2011</b> , 528, 5636-5641	5.3	9
67	Effect of post-oxidation treatment on thermal fatigue behaviour of plasma nitrided hot work tool steel at elevated temperatures. <i>Surface and Coatings Technology</i> , <b>2011</b> , 205, 2763-2769	4.4	9
66	Effect of solution heat treatment on the age hardening capacity of dendritic and globular AlSi7Mg0.6 alloys. <i>International Journal of Materials Research</i> , <b>2010</b> , 101, 439-444	0.5	9

65	Effect of natural ageing on the performance of pre-ageing to improve bake-hardening response of a twin-roll cast AlMgSi alloy. <i>International Journal of Materials Research</i> , <b>2005</b> , 96, 380-384		9
64	Heat treatment of twin-belt cast EN AW 7075 alloy. <i>Materials Characterization</i> , <b>2012</b> , 63, 1-8	3.9	8
63	Effect of Welding Parameters on the Microstructure and Strength of Friction Stir Weld Joints in Twin Roll Cast EN AW Al-Mn1Cu Plates. <i>Journal of Materials Engineering and Performance</i> , <b>2013</b> , 22, 3024-3033	1.6	8
62	Performance of AlTiB and AlB grain refiners in investment casting of AlSi7Mg0.3 alloy with preheated ceramic moulds. <i>International Journal of Cast Metals Research</i> , <b>2012</b> , 25, 296-300	1	8
61	Friction stir welding of twin-roll cast EN AW 3003 plates. <i>Metals and Materials International</i> , <b>2013</b> , 19, 1259-1266	2.4	8
60	AlTiN and AlTiON-coated hot work tool steels for tooling in steel thixoforming. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2010</b> , 20, s1022-s1028	3.3	8
59	Extrusion of EN AW-2014 alloy in semisolid state. <i>Materials Science and Technology</i> , <b>2011</b> , 27, 1851-1857	1.5	8
58	Fatigue failures in low pressure die cast AlSi10Mg cylinder heads. <i>International Journal of Cast Metals Research</i> , <b>2008</b> , 21, 408-415	1	8
57	Effect of homogenization on recrystallization in a twin-roll cast AlBeSi alloy. <i>Journal of Materials Science</i> , <b>2008</b> , 43, 4652-4657	4.3	8
56	Effect of processing on microstructure, texture and mechanical properties of twin roll cast 5754 sheet. <i>Materials Science and Technology</i> , <b>2006</b> , 22, 987-994	1.5	8
55	Evolution of grain structure across joints in friction stir welded EN AW 5083 H111 plates during thermal exposure. <i>Materials Science and Technology</i> , <b>2013</b> , 29, 1283-1289	1.5	7
54	Interannealing twin-roll cast AlBeSi strips without homogenization. <i>Scripta Materialia</i> , <b>2009</b> , 61, 185-188	5.6	7
53	PVD coated hot work tool steels for tooling applications in semi-solid processing of steels. <i>International Journal of Material Forming</i> , <b>2010</b> , 3, 747-750	2	7
52	Impact of pre-ageing on age hardening response of twin-belt cast AlMg1SiCu sheet. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 6727-6731	4.3	7
51	Microstructure Evolution of Twin-Roll Cast AA5xxx Alloys during Homogenisation-Like Annealing. <i>Materials Science Forum</i> , <b>2002</b> , 396-402, 711-716	0.4	7
50	A calorimetric analysis of the precipitation reactions in AlSi1MgMn alloy with Cu additions. <i>Thermochimica Acta</i> , <b>2017</b> , 650, 39-43	2.9	6
49	Effect of Strontium Addition on Microstructure and Mechanical Properties of AlSi7Mg0.3 Alloy. <i>International Journal of Metalcasting</i> , <b>2017</b> , 11, 688-695	1.4	6
48	Survey of inclusions in twin roll casting of wrought aluminium alloys. <i>International Journal of Cast Metals Research</i> , <b>2010</b> , 23, 250-255	1	6



47	Thermomechanical processing of an aluminium casting alloy for thixoforming. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 479, 113-120	5.7	6
46	Recrystallization of twin-roll cast AlBeSi foil stock processed without homogenization. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 488, 112-116	5.7	6
45	High-temperature abrasive wear testing of potential tool materials for thixoforming of steels. <i>Tribology International</i> , <b>2010</b> , 43, 2222-2230	4.9	6
44	Twin-roll cast AlMgSi sheet for automotive applications. <i>International Journal of Materials Research</i> , <b>2004</b> , 95, 381-386		6
43	Potential of twin-belt-cast EN AW 6082 blanks for the manufacture of wishbone suspension forgings. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2017</b> , 92, 3693-3701	3.2	5
42	AlSi5Mg0.3 Alloy for the Manufacture of Automotive Wheels. <i>International Journal of Metalcasting</i> , <b>2018</b> , 12, 614-624	1.4	5
41	Effect of Vanadium and Zirconium Additions on Mechanical Properties and Microstructure of Gravity Die-Cast AlSi9Cu2 Alloy Cylinder Heads. <i>International Journal of Metalcasting</i> , <b>2019</b> , 13, 137-145	1.4	5
40	Age hardening of EN AW 2014 alloy extruded in the semi-solid state. <i>Materials Chemistry and Physics</i> , <b>2012</b> , 131, 694-697	4.4	5
39	Homogenization of direct chill cast AlSi1MgMn billets. <i>International Journal of Materials Research</i> , <b>2014</b> , 105, 75-82	0.5	5
38	Internal cooling process to prepare aluminium rheocasting feedstock. <i>International Journal of Cast Metals Research</i> , <b>2010</b> , 23, 55-59	1	5
37	Ni- and Co-based superalloys as potential tool materials for thixoforming of steels. <i>International Journal of Material Forming</i> , <b>2010</b> , 3, 739-742	2	5
36	Crystallization of A Fe36Ni36B28 metallic glass during ball-milling. <i>Scripta Materialia</i> , <b>1996</b> , 34, 1081-1085	5.6	5
35	Analysis of fatigue crack tip plasticity in Fe-2.6Si. <i>Journal of Materials Science</i> , <b>1988</b> , 23, 2079-2086	4.3	5
34	Optimising the T6 heat treatment for gravity cast AlSi7MgCu0.5 alloy V8 cylinder heads. <i>International Journal of Cast Metals Research</i> , <b>2017</b> , 30, 244-250	1	4
33	Grain refining AlSi7Mg0B foundry alloy with commercial AlB master alloy. <i>Materials Science and Technology</i> , <b>2014</b> , 30, 465-470	1.5	4
32	A novel processing route for the manufacture of EN AW 6082 forged components. <i>Materials Research Innovations</i> , <b>2015</b> , 19, S10-311-S10-314	1.9	4
31	Effect of homogenisation cooling rate and press exit temperature on extrudability and T5 hardness of EN AW 6082 alloy. <i>Materials Science and Technology</i> , <b>2013</b> , 29, 1518-1521	1.5	4
30	Thermal Fatigue Testing of Plasma Transfer Arc Stellite Coatings on Hot Work Tool Steels under Steel Thixoforming Conditions. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2011</b> , 42, 3277-3283	2.3	4

29	Thermal Cycling of Yttria-Stabilized Zirconia-Coated Hot Work Tool Steel. <i>Journal of Thermal Spray Technology</i> , <b>2011</b> , 20, 1110-1117	2.5	4
28	Plastic zone characterization by recrystallization. <i>Journal of Materials Science Letters</i> , <b>1987</b> , 6, 1161-1163		4
27	Synthesis of Al <sub>3</sub> BrB <sub>6</sub> composite via powder metallurgy processing. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2015</b> , 25, 677-682	3.3	3
26	Optimization of the Strontium Modification Process in Gravity Permanent Mould Tilt Cast AlSi <sub>6</sub> Cu <sub>4</sub> Cylinder Heads. <i>International Journal of Metalcasting</i> , <b>2018</b> , 12, 266-274	1.4	3
25	Formation of pinch marks on pack rolled aluminium foil. <i>Engineering Failure Analysis</i> , <b>2013</b> , 28, 82-89	3.2	3
24	High-Temperature Sliding Wear Testing of Cathodic Arc Physical Vapor Deposition AlTiN- and AlTiON-Coated Hot Work Tool Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2011</b> , 42, 3316-3322	2.3	3
23	Wear properties of thixoformed AlSiCuFe alloys. <i>International Journal of Material Forming</i> , <b>2008</b> , 1, 981-984	2.5	3
22	Potential of horizontal direct chill cast EN AW 6082 rods as forging stock in the manufacture of light weight suspension components. <i>Metallurgical Research and Technology</i> , <b>2017</b> , 114, 209	0.9	2
21	Potential of cast EN AW7075 billet as thixoforging feedstock. <i>Materials Science and Technology</i> , <b>2012</b> , 28, 553-559	1.5	2
20	Heat treatment of thixoformed EN AW 7075 alloy. <i>Materials Science and Technology</i> , <b>2012</b> , 28, 651-657	1.5	2
19	Design of potent grain refiners for wrought aluminium alloys. <i>International Journal of Cast Metals Research</i> , <b>2013</b> , 26, 273-278	1	2
18	Investigation of Isothermal and Cyclic Oxidation of Plasma-Nitrided Hot-Work Tool Steel at Elevated Temperatures. <i>Oxidation of Metals</i> , <b>2011</b> , 76, 399-417	1.6	2
17	Metallographic investigation of hot tear in direct chill cast Al <sub>75</sub> Zn <sub>20</sub> Mg <sub>5</sub> billet. <i>International Journal of Cast Metals Research</i> , <b>2011</b> , 24, 1-5	1	2
16	Reversion Treatment to Improve Bake Hardening Response of a Twin-Roll Cast 6016 Automotive Sheet. <i>Materials Science Forum</i> , <b>2007</b> , 539-543, 345-350	0.4	2
15	A low-cycle fatigue approach to fatigue crack propagation. <i>Journal of Materials Science</i> , <b>1989</b> , 24, 2093-2098	1.5	2
14	Dynamic recrystallization during fatigue crack propagation. <i>Scripta Metallurgica</i> , <b>1988</b> , 22, 405-408		2
13	Corrosion behaviour of twin belt cast EN AW 7075 alloy. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , <b>2013</b> , 64, 881-889	1.6	1
12	Response to Thermal Exposure of Ball-Milled Aluminum-Borax Powder Blends. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2013</b> , 44, 359-364	2.5	1

11	Effect of Copper on Corrosion of Forged AlSi1MgMn Automotive Suspension Components. <i>Journal of Materials Engineering and Performance</i> , <b>2017</b> , 26, 4188-4196	1.6	1
10	Corrosion of twin belt and twin roll cast AlMg3Mn alloys. <i>Corrosion Engineering Science and Technology</i> , <b>2014</b> , 49, 228-235	1.7	1
9	Investigation of wear behaviour of thixoformed and conventional gravity cast AlSi8Cu3Fe alloys. <i>Industrial Lubrication and Tribology</i> , <b>2014</b> , 66, 46-50	1.3	1
8	Effect of processing on structural features of anodic aluminum oxides. <i>Applied Physics A: Materials Science and Processing</i> , <b>2012</b> , 108, 587-592	2.6	1
7	Low-temperature synthesis of MgB <sub>2</sub> via powder metallurgy processing. <i>Applied Physics A: Materials Science and Processing</i> , <b>2016</b> , 122, 1	2.6	1
6	Processing of twin-roll cast thin AlFeSi strips for the manufacture of aluminium finstock. <i>Metallurgical Research and Technology</i> , <b>2017</b> , 114, 202	0.9	0
5	Response to Thermal Exposure of Ball-Milled Cu-Mg/B <sub>2</sub> O <sub>3</sub> Powder Blends. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2013</b> , 44, 969-973	2.5	
4	Impact of interannealing on recrystallization during final annealing in twin-belt cast AlBeSi sheet. <i>International Journal of Materials Research</i> , <b>2012</b> , 103, 992-997	0.5	
3	Isothermal oxidation of plasma-nitrided hot-work tool steel at 750°C. <i>Materials at High Temperatures</i> , <b>2012</b> , 29, 17-22	1.1	
2	Geometrical characterization of fatigue plastic zones in hot-rolled Fe-2.6%Si. <i>Journal of Materials Science Letters</i> , <b>1988</b> , 7, 539-541		
1	A calorimetric analysis of the response to heating of EN AW-2014 alloy formed in the liquid, solid and semi-solid states. <i>Thermochimica Acta</i> , <b>2018</b> , 663, 189-193	2.9	