

Philip B Prangnell

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148
papers

9,403
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155
ext. papers

10,474
ext. citations

4.3
avg, IF

6.49
L-index

#	Paper	IF	Citations
148	Tensile-compressive yield asymmetries in high strength wrought magnesium alloys. <i>Scripta Metallurgica Et Materialia</i> , 1994 , 31, 111-116		441
147	Effect of build geometry on the grain structure and texture in additive manufacture of Ti6Al4V by selective electron beam melting. <i>Materials Characterization</i> , 2013 , 84, 153-168	3.9	438
146	Grain structure formation during friction stir welding observed by the Etop action technique. <i>Acta Materialia</i> , 2005 , 53, 3179-3192	8.4	372
145	The effect of strain path on the development of deformation structures in severely deformed aluminium alloys processed by ECAE. <i>Acta Materialia</i> , 2000 , 48, 1115-1130	8.4	354
144	XCT analysis of the influence of melt strategies on defect population in Ti6Al4V components manufactured by Selective Electron Beam Melting. <i>Materials Characterization</i> , 2015 , 102, 47-61	3.9	347
143	Developing stable fine grain microstructures by large strain deformation. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 1999 , 357, 1663-1681	3	321
142	The solidification behaviour of dilute aluminium-cadmium alloys. <i>Acta Materialia</i> , 1998 , 46, 5715-5732	8.4	242
141	Dispersoid precipitation and process modelling in zirconium containing commercial aluminium alloys. <i>Acta Materialia</i> , 2001 , 49, 599-613	8.4	238
140	Stability of nugget zone grain structures in high strength Al-alloy friction stir welds during solution treatment. <i>Acta Materialia</i> , 2003 , 51, 1923-1936	8.4	227
139	Analysis of the billet deformation behaviour in equal channel angular extrusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000 , 287, 87-99	5.3	205
138	The effect of coarse second-phase particles on the rate of grain refinement during severe deformation processing. <i>Acta Materialia</i> , 2003 , 51, 2811-2822	8.4	202
137	Mechanisms of joint and microstructure formation in high power ultrasonic spot welding 6111 aluminium automotive sheet. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 6320-6334	5.3	189
136	Finite element modelling of equal channel angular extrusion. <i>Scripta Materialia</i> , 1997 , 37, 983-989	5.6	174
135	Effect of welding parameters on nugget zone microstructure and properties in high strength aluminium alloy friction stir welds. <i>Science and Technology of Welding and Joining</i> , 2003 , 8, 257-268	3.7	172
134	Production of ultra-fine grain microstructures in AlMg alloys by conventional rolling. <i>Acta Materialia</i> , 2002 , 50, 4461-4476	8.4	172
133	Quantification of the influence of increased pre-stretching on microstructure-strength relationships in the AlCuLi alloy AA2195. <i>Acta Materialia</i> , 2016 , 108, 55-67	8.4	159
132	The effectiveness of combining rolling deformation with Wire Arc Additive Manufacture on grain refinement and texture modification in Ti6Al4V. <i>Materials Characterization</i> , 2016 , 114, 103-114	3.9	156

131	Ultra-fine grain structures in aluminium alloys by severe deformation processing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 375-377, 178-183	5.3	153
130	The Effectiveness of Hot Isostatic Pressing for Closing Porosity in Titanium Parts Manufactured by Selective Electron Beam Melting. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 1939-1946	2.3	153
129	Porosity regrowth during heat treatment of hot isostatically pressed additively manufactured titanium components. <i>Scripta Materialia</i> , 2016 , 122, 72-76	5.6	148
128	The effect of high strain rate deformation on intermetallic reaction during ultrasonic welding aluminium to magnesium. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 556, 31-42	5.3	138
127	The effect of cooling rate on the morphology of primary Al ₃ Sc intermetallic particles in Al ₃ Sc alloys. <i>Acta Materialia</i> , 2001 , 49, 1327-1337	8.4	135
126	Modelling texture development during equal channel angular extrusion of aluminium. <i>Acta Materialia</i> , 2002 , 50, 2121-2136	8.4	134
125	The effect of dispersoids on the grain refinement mechanisms during deformation of aluminium alloys to ultra-high strains. <i>Acta Materialia</i> , 2005 , 53, 499-511	8.4	131
124	The formation of nanograin structures and accelerated room-temperature theta precipitation in a severely deformed Al ₃ wt.% Cu alloy. <i>Acta Materialia</i> , 2010 , 58, 1643-1657	8.4	117
123	On the origin of microstructural banding in Ti-6Al4V wire-arc based high deposition rate additive manufacturing. <i>Acta Materialia</i> , 2019 , 166, 306-323	8.4	112
122	Microstructure refinement and mechanical properties of severely deformed Al ₃ Mg ₂ Si alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002 , 328, 87-97	5.3	111
121	Extension of the N-model to predict competing homogeneous and heterogeneous precipitation in Al-Sc alloys. <i>Acta Materialia</i> , 2003 , 51, 1453-1468	8.4	109
120	Effect of grain size on tensile behaviour of a submicron grained Al ₃ wt.%Mg alloy produced by severe deformation. <i>Materials Science and Technology</i> , 2000 , 16, 1259-1263	1.5	107
119	Modelling Al ₃ Zr dispersoid precipitation in multicomponent aluminium alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 352, 240-250	5.3	101
118	The effect of cryogenic temperature and change in deformation mode on the limiting grain size in a severely deformed dilute aluminium alloy. <i>Acta Materialia</i> , 2008 , 56, 1619-1632	8.4	99
117	The effect of silver on microstructural evolution in two 2xxx series Al-alloys with a high Cu:Mg ratio during ageing to a T8 temper. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 491, 214-223	5.3	98
116	Material Interactions in a Novel Pinless Tool Approach to Friction Stir Spot Welding Thin Aluminum Sheet. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011 , 42, 1266-1282	2.3	93
115	A combined approach to microstructure mapping of an Al ₃ Si AA2199 friction stir weld. <i>Acta Materialia</i> , 2011 , 59, 3002-3011	8.4	93
114	Fine-grained alloys by thermomechanical processing. <i>Current Opinion in Solid State and Materials Science</i> , 2001 , 5, 15-21	12	90

113	Continuous recrystallisation of lamellar deformation structures produced by severe deformation. <i>Acta Materialia</i> , 2004 , 52, 3193-3206	8.4	89
112	Ultrasonic spot welding of aluminium to steel for automotive applications—microstructure and optimisation. <i>Materials Science and Technology</i> , 2011 , 27, 617-624	1.5	87
111	HAZ development and accelerated post-weld natural ageing in ultrasonic spot welding aluminium 6111-T4 automotive sheet. <i>Acta Materialia</i> , 2012 , 60, 2816-2828	8.4	86
110	Microstructure and texture evolution during annealing a cryogenic-SPD processed Al-alloy with a nanoscale lamellar HAGB grain structure. <i>Acta Materialia</i> , 2009 , 57, 3509-3521	8.4	85
109	Examination of the effect of Sc on 2000 and 7000 series aluminium alloy castings: for improvements in fusion welding. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 354, 188-198	5.3	83
108	Application of bulk deformation methods for microstructural and material property improvement and residual stress and distortion control in additively manufactured components. <i>Scripta Materialia</i> , 2017 , 135, 111-118	5.6	82
107	The effect of particle distribution on damage formation in particulate reinforced metal matrix composites deformed in compression. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1996 , 220, 41-56	5.3	79
106	The effect of Mn and Zr dispersoid-forming additions on recrystallization resistance in AlCuTi AA2198 sheet. <i>Acta Materialia</i> , 2014 , 77, 1-16	8.4	78
105	Effect of reduced or zero pin length and anvil insulation on friction stir spot welding thin gauge 6111 automotive sheet. <i>Science and Technology of Welding and Joining</i> , 2009 , 14, 443-456	3.7	73
104	Global mechanical tensioning for the management of residual stresses in welds. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 489, 351-362	5.3	73
103	Comparison of residual stress distributions in conventional and stationary shoulder high-strength aluminum alloy friction stir welds. <i>Journal of Materials Processing Technology</i> , 2017 , 242, 92-100	5.3	66
102	Dissimilar ultrasonic spot welding of aerospace aluminum alloy AA2139 to titanium alloy TiAl6V4. <i>Journal of Materials Processing Technology</i> , 2016 , 231, 382-388	5.3	60
101	Microstructural characterization and mechanical properties of high power ultrasonic spot welded aluminum alloy AA6111/TiAl6V4 dissimilar joints. <i>Materials Characterization</i> , 2014 , 97, 83-91	3.9	60
100	The deformation of discontinuously reinforced MMCs—The initial yielding behaviour. <i>Acta Metallurgica Et Materialia</i> , 1994 , 42, 3425-3436		59
99	Stationary shoulder FSW for joining high strength aluminum alloys. <i>Journal of Materials Processing Technology</i> , 2015 , 221, 187-196	5.3	58
98	Interactions between zirconium and manganese dispersoid-forming elements on their combined addition in AlCuTi alloys. <i>Acta Materialia</i> , 2012 , 60, 5245-5259	8.4	55
97	Continuous frictional angular extrusion and its application in the production of ultrafine-grained sheet metals. <i>Scripta Materialia</i> , 2007 , 56, 333-336	5.6	55
96	Predicting recrystallised volume fraction in aluminium alloy 7050 hot rolled plate. <i>Materials Science and Technology</i> , 2002 , 18, 607-614	1.5	52

95	Microstructural evolution during formation of ultrafine grain structures by severe deformation. <i>Materials Science and Technology</i> , 2000 , 16, 1246-1250	1.5	52
94	Interface structure and bonding in abrasion circle friction stir spot welding: A novel approach for rapid welding aluminium alloy to steel automotive sheet. <i>Materials Chemistry and Physics</i> , 2012 , 134, 459-463	4.4	51
93	High Resolution EBSD Analysis of the Grain Structure in an AA2024 Friction Stir Weld. <i>Materials Science Forum</i> , 2000 , 331-337, 1713-1718	0.4	51
92	Modelling intermetallic phase formation in dissimilar metal ultrasonic welding of aluminium and magnesium alloys. <i>Science and Technology of Welding and Joining</i> , 2012 , 17, 447-453	3.7	50
91	Microstructural parameters and flow stress in Al0.13% Mg deformed by ECAE processing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 387-389, 235-239	5.3	50
90	Effect of Interfacial Reaction on the Mechanical Performance of Steel to Aluminum Dissimilar Ultrasonic Spot Welds. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 334-346	2.3	47
89	Efficacy of active cooling for controlling residual stresses in friction stir welds. <i>Science and Technology of Welding and Joining</i> , 2010 , 15, 156-165	3.7	45
88	Effect of processing parameters on the densification, microstructure and crystallographic texture during the laser powder bed fusion of pure tungsten. <i>International Journal of Refractory Metals and Hard Materials</i> , 2019 , 78, 254-263	4.1	43
87	Effect of Zinc Coatings on Joint Properties and Interfacial Reactions in Aluminum to Steel Ultrasonic Spot Welding. <i>Jom</i> , 2012 , 64, 407-413	2.1	41
86	The Effectiveness of Surface Coatings on Preventing Interfacial Reaction During Ultrasonic Welding of Aluminum to Magnesium. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 5773-5781	2.3	40
85	Modelling and visualisation of material flow in friction stir spot welding. <i>Journal of Materials Processing Technology</i> , 2015 , 225, 473-484	5.3	38
84	Material interactions in laser polishing powder bed additive manufactured Ti6Al4V components. <i>Additive Manufacturing</i> , 2018 , 20, 11-22	6.1	38
83	Texture Evolution and Grain Refinement in Al Deformed to Ultra-High Strains by Accumulative Roll Bonding (ARB). <i>Materials Science Forum</i> , 2002 , 408-412, 733-738	0.4	36
82	Orientation correlations in aluminium deformed by ECAE. <i>Scripta Materialia</i> , 2002 , 47, 289-294	5.6	35
81	Effect of processing route and second phase particles on grain refinement during equal-channel angular extrusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 410-411, 381-385	5.3	34
80	Novel Approaches to Friction Spot Welding Thin Aluminium Automotive Sheet. <i>Materials Science Forum</i> , 2010 , 638-642, 1237-1242	0.4	32
79	Hydrogen-assisted stable crack growth in iron-3 wt% silicon steel. <i>Acta Materialia</i> , 1996 , 44, 3125-3140	8.4	31
78	Modeling of Intermetallic Compounds Growth Between Dissimilar Metals. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 4106-4114	2.3	29

77	Microstructure simulation and ballistic behaviour of weld zones in friction stir welds in high strength aluminium 7xxx plate. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 3409-3422	5.3	27
76	Interfacial Segregation of Alloying Elements During Dissimilar Ultrasonic Welding of AA6111 Aluminum and Ti6Al4V Titanium. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019 , 50, 5143-5152	2.3	26
75	Dissimilar metal laser spot joining of steel to aluminium in conduction mode. <i>International Journal of Advanced Manufacturing Technology</i> , 2014 , 73, 365-373	3.2	26
74	Microstructure and performance of a biodegradable Mg-Ca-Zn-TCP composite fabricated by combined solidification and deformation processing. <i>Materials Letters</i> , 2012 , 82, 7-9	3.3	26
73	The effect of shoulder coupling on the residual stress and hardness distribution in AA7050 friction stir butt welds. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 735, 218-227	5.3	26
72	The Effect of Small Scandium Additions to AA7050 on the As-Cast and Homogenized Microstructure. <i>Materials Science Forum</i> , 2002 , 396-402, 757-762	0.4	25
71	Processing to ultrafine grain structures by conventional routes. <i>Materials Science and Technology</i> , 2000 , 16, 1251-1255	1.5	25
70	Grain refinement response during twist extrusion of an Al-0.13% Mg alloy. <i>International Journal of Materials Research</i> , 2007 , 98, 200-204	0.5	24
69	The deformation of discontinuously reinforced MMCs. The elastic response. <i>Acta Metallurgica Et Materialia</i> , 1994 , 42, 3437-3442		24
68	Thermal Modeling of Al-Al and Al-Steel Friction Stir Spot Welding. <i>Journal of Materials Engineering and Performance</i> , 2016 , 25, 4089-4098	1.6	23
67	Grain structure and homogeneity of pulsed laser treated surfaces on Al-aerospace alloys and FSWs. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 479, 65-75	5.3	23
66	Structure and mechanical behaviour of an Al-Mg alloy after equal channel angular extrusion. <i>Scripta Materialia</i> , 1999 , 12, 839-842		22
65	An examination of the mean stress contribution to the Bauschinger effect by neutron diffraction. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1995 , 197, 215-221	5.3	22
64	The significance of intermetallic compounds formed during interdiffusion in aluminum and magnesium dissimilar welds. <i>Materials Characterization</i> , 2017 , 134, 84-95	3.9	21
63	The influence of temperature on microstructural damage during uniaxial compression of aluminium matrix composites. <i>Scripta Metallurgica Et Materialia</i> , 1995 , 33, 323-329		21
62	Weld zone and residual stress development in AA7050 stationary shoulder friction stir T-joint weld. <i>Journal of Materials Processing Technology</i> , 2019 , 263, 256-265	5.3	21
61	The Influence of Grain Structure on Intermetallic Compound Layer Growth Rates in Fe-Al Dissimilar Welds. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018 , 49, 515-526	2.3	21
60	Development of new high strength Al-Sc filler wires for fusion welding 7000 series aluminium aerospace alloys. <i>Science and Technology of Welding and Joining</i> , 2003 , 8, 235-245	3.7	20

59	Investigation of residual stress distribution and texture evolution in AA7050 stationary shoulder friction stir welded joints. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 712, 531-538	5.3	20
58	Modeling of the Thermal Field in Dissimilar Alloy Ultrasonic Welding. <i>Journal of Materials Engineering and Performance</i> , 2015 , 24, 799-807	1.6	19
57	Comparison of the Effect of Individual and Combined Zr and Mn Additions on the Fracture Behavior of Al-Cu-Li Alloy AA2198 Rolled Sheet. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 1338-1351	2.3	19
56	The effect of a paint bake treatment on joint performance in friction stir spot welding AA6111-T4 sheet using a pinless tool. <i>Materials Chemistry and Physics</i> , 2013 , 141, 768-775	4.4	19
55	Effect of Wall Thickness Transitions on Texture and Grain Structure in Additive Layer Manufacture (ALM) of Ti-6Al-4V. <i>Materials Science Forum</i> , 2012 , 706-709, 205-210	0.4	19
54	On the observation of annealing twins during simulating grain refinement in Ti6Al4V high deposition rate AM with in-process deformation. <i>Acta Materialia</i> , 2020 , 186, 229-241	8.4	17
53	Through Thickness Microstructural Gradients in 7475 and 2022 Creep - Ageformed Bend Coupons. <i>Materials Science Forum</i> , 2006 , 519-521, 407-412	0.4	15
52	Mechanisms of Formation of Submicron Grain Structures by Severe Deformation. <i>Materials Science Forum</i> , 2007 , 550, 159-168	0.4	14
51	Characterisation of thin silica films deposited on carbon fibre by an atmospheric pressure non-equilibrium plasma (APNEP). <i>Composites Part A: Applied Science and Manufacturing</i> , 2002 , 33, 1403-1408	8.4	14
50	Automated image mapping and quantification of microstructure heterogeneity in additive manufactured Ti6Al4V. <i>Materials Characterization</i> , 2019 , 147, 131-145	3.9	14
49	Evaluation of Zn-rich coatings for IMC reaction control in aluminum-magnesium dissimilar welds. <i>Materials Characterization</i> , 2018 , 139, 100-110	3.9	13
48	Effect of microstructure on the tensile strength of Ti6Al4V specimens manufactured using additive manufacturing electron beam process. <i>Powder Metallurgy</i> , 2016 , 59, 41-50	1.9	13
47	Mechanical performance and microstructural characterisation of titanium alloy-alloy composites built by wire-arc additive manufacture. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 765, 138289	5.3	13
46	Discontinuous precipitation in high Li content Al-Li-Zr alloys. <i>Acta Metallurgica Et Materialia</i> , 1994 , 42, 419-433		13
45	Effect of deposition strategies on fatigue crack growth behaviour of wire + arc additive manufactured titanium alloy Ti6Al4V. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 814, 141194	5.3	12
44	Mechanical and Microstructural Characterization of Percussive Arc Welded Hyper-Pins for Titanium to Composite Metal Joining. <i>Materials Science Forum</i> , 2013 , 765, 771-775	0.4	11
43	Grain Refinement and Texture Evolution during the Deformation of Al to Ultra-High Strains by Accumulative Roll Bonding (ARB). <i>Materials Science Forum</i> , 2002 , 396-402, 429-434	0.4	11
42	The effect of loading direction on strain localisation in wire arc additively manufactured Ti6Al4V. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 788, 139608	5.3	11

41	The Effectiveness of Al-Si Coatings for Preventing Interfacial Reaction in Al-Mg Dissimilar Metal Welding. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018 , 49, 162-176	2.3	11
40	Effects of Combined Zr and Mn Additions on Dispersoid Formation and Recrystallisation Behaviour of AA2198 Sheet. <i>Advanced Materials Research</i> , 2010 , 89-91, 568-573	0.5	10
39	The effect of processing parameters on rapid-heating \square recrystallization in inter-pass deformed Ti-6Al-4V wire-arc additive manufacturing. <i>Materials Characterization</i> , 2020 , 163, 110298	3.9	9
38	Control of weld composition when arc welding high strength aluminium alloys using multiple filler wires. <i>Science and Technology of Welding and Joining</i> , 2010 , 15, 491-496	3.7	9
37	Novel processing routes to ultrafine grained steel. <i>Ironmaking and Steelmaking</i> , 2001 , 28, 203-208	1.3	9
36	Microstructural Evolution of the Deformed State during Severe Deformation of an ECAE Processed Al-0.13%Mg Alloy. <i>Materials Science Forum</i> , 2000 , 331-337, 545-550	0.4	9
35	Stability of Ultra-Fine \square Grain Structures \square Produced by Severe Deformation. <i>Materials Science Forum</i> , 2004 , 467-470, 1261-1270	0.4	8
34	Cast microstructure and dispersoid formation in spray deposited Al \square i alloys. <i>Materials Science and Technology</i> , 1999 , 15, 328-336	1.5	8
33	Making sustainable aluminum by recycling scrap: The science of 'dirty' alloys. <i>Progress in Materials Science</i> , 2022 , 100947	42.2	8
32	Control of weld composition when welding high strength aluminium alloy using the tandem process. <i>Science and Technology of Welding and Joining</i> , 2009 , 14, 734-739	3.7	7
31	The effect of cryogenic deformation on the limiting grain size in an SMG Al-alloy. <i>Journal of Materials Science</i> , 2008 , 43, 7280-7285	4.3	7
30	Ultrafine grain structures formed by thermomechanical processing of spray cast Al \square i alloys. <i>Materials Science and Technology</i> , 1999 , 15, 605-615	1.5	6
29	Quantification of strain fields and grain refinement in Ti-6Al-4V inter-pass rolled wire-arc AM by EBSD misorientation analysis. <i>Materials Characterization</i> , 2020 , 170, 110673	3.9	5
28	In-situ observation of single variant \square colony formation in Ti-6Al-4V. <i>Acta Materialia</i> , 2021 , 220, 117315	8.4	5
27	Controlling Interfacial Reaction during Dissimilar Metal Welding of Aluminium Alloys. <i>Materials Science Forum</i> , 2014 , 794-796, 416-421	0.4	4
26	Room temperature instability of an Al-4%Cu super saturated solid solution in a nano-crystalline alloy produced by SPD. <i>Journal of Materials Science</i> , 2010 , 45, 4851-4857	4.3	4
25	The Effect of Dispersoids and Processing Variables on Grain Refinement of Aluminium Alloys Deformed by ECAE. <i>Solid State Phenomena</i> , 2006 , 114, 151-158	0.4	4
24	Ultrafine-Grain Structures Produced by Severe Deformation Processing. <i>Materials Science Forum</i> , 2004 , 447-448, 423-428	0.4	4

23	Forging of β sections from aluminium metal matrix composite bars, modelled using the finite element method. <i>Journal of Materials Processing Technology</i> , 1994 , 45, 421-428	5.3	4
22	Confirmation of rapid-heating β recrystallization in wire-arc additively manufactured Ti-6Al-4V. <i>Materialia</i> , 2020 , 13, 100857	3.2	3
21	Analysis of the Homogeneity of Particle Refinement in Friction Stir Processing Al-Si Alloys. <i>Advanced Materials Research</i> , 2010 , 89-91, 85-90	0.5	3
20	Precipitation Behaviors in MMCs 2000 , 61-90		3
19	Systematic Evaluation of the Advantages of Static Shoulder FSW for Joining Aluminium. <i>Materials Science Forum</i> , 2014 , 794-796, 407-412	0.4	2
18	Ultra-Fine Grained High Carbon Steel by Innovative Deformation. <i>Materials Science Forum</i> , 2007 , 550, 301-306	0.4	2
17	Deformation Processing of Sheet Metals by Continuous Frictional Angular Extrusion. <i>Materials Science Forum</i> , 2007 , 550, 241-246	0.4	2
16	The potential for grain refinement of Wire-Arc Additive Manufactured (WAAM) Ti-6Al-4V by ZrN and TiN inoculation. <i>Additive Manufacturing</i> , 2021 , 40, 101928	6.1	2
15	Tailoring equiaxed β grain structures in Ti-6Al-4V coaxial electron beam wire additive manufacturing. <i>Materialia</i> , 2021 , 20, 101202	3.2	2
14	Loss of High Angle Boundary Area during Annealing a Cryo-SPD Processed Al-Alloy with a Nano-Scale Lamellar Grain Structure. <i>Materials Science Forum</i> , 2012 , 715-716, 219-226	0.4	1
13	Decomposition of the supersaturated solid solution in a rapidly solidified hypereutectic Al-Cu alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1994 , 179-180, 327-333	5.3	1
12	Understanding the environmentally assisted cracking (EAC) initiation and propagation of new generation 7xxx alloys using slow strain rate testing. <i>Corrosion Science</i> , 2022 , 110161	6.8	1
11	Microstructure transition gradients in titanium dissimilar alloy (Ti-5Al-5V-5Mo-3Cr/Ti-6Al-4V) tailored wire-arc additively manufactured components. <i>Materials Characterization</i> , 2021 , 182, 111577	3.9	1
10	Isomorphic grain inoculation in Ti-6Al-4V during additive manufacturing. <i>Materials Letters: X</i> , 2020 , 8, 100057	0.5	0
9	Modelling of friction stir welded AA2139 aluminium alloy panels in tension and blast. <i>International Journal of Impact Engineering</i> , 2022 , 163, 104163	4	0
8	β Grain refinement by yttrium addition in Ti-6Al-4V Wire-Arc Additive Manufacturing. <i>Journal of Alloys and Compounds</i> , 2022 , 895, 162735	5.7	0
7	The evolution of abnormally coarse grain structures in beta-annealed Ti-6Al-4V rolled plates, observed by in-situ investigation. <i>Acta Materialia</i> , 2021 , 221, 117362	8.4	0
6	Coating Design for Controlling β Phase IMC Formation in Dissimilar Al-Mg Metal Welding 2015 , 171-179		

- 5 In-Situ High Temperature EBSD Analysis of the Effect of a Deformation Step on the Alpha to Beta Transition in Additive Manufactured Ti-6Al-4V **2016**, 1283-1288
- 4 Assessment of the Advantages of Static Shoulder FSW for Joining Aluminium Aerospace Alloys. *Materials Science Forum*, **2014**, 783-786, 1770-1775 0.4
- 3 Influence of Galvanized Coatings on Abrasion Circle Friction Stir Spot Welding Aluminium to Steel for Automotive Applications. *Materials Science Forum*, **2014**, 783-786, 1741-1746 0.4
- 2 Modelling the Precipitation of Al₃X Dispersoids in Aluminium Alloys and their Effect on Recrystallization. *Materials Science Forum*, **2007**, 550, 45-54 0.4
- 1 Coating Design for Controlling β Phase IMC Formation in Dissimilar Al-Mg Metal Welding **2015**, 171-179