Philip B Prangnell

List of Publications by Year in Descending Order

148 papers	9,403 citations	52 h-index	95 g-index
155 ext. papers	10,474 ext. citations	4.3 avg, IF	6.49 L-index

#	Paper	IF	Citations
148	Modelling of friction stir welded AA2139 aluminium alloy panels in tension and blast. *International Journal of Impact Engineering*, **2022**, 163, 104163	4	0
147	Understanding the environmentally assisted cracking (EAC) initiation and propagation of new generation 7xxx alloys using slow strain rate testing. *Corrosion Science*, **2022**, 110161	6.8	1
146	Grain refinement by yttrium addition in Ti-6Al-4V Wire-Arc Additive Manufacturing. *Journal of Alloys and Compounds*, **2022**, 895, 162735	5.7	0
145	Making sustainable aluminum by recycling scrap: The science of "dirty" alloys. *Progress in Materials Science*, **2022**, 100947	42.2	8
144	Microstructure transition gradients in titanium dissimilar alloy (Ti-5Al-5V-5Mo-3Cr/Ti-6Al-4V) tailored wire-arc additively manufactured components. *Materials Characterization*, **2021**, 182, 111577	3.9	1
143	The evolution of abnormally coarse grain structures in beta-annealed Ti-6Al%-4V% rolled plates, observed by in-situ investigation. *Acta Materialia*, **2021**, 221, 117362	8.4	0
142	The potential for grain refinement of Wire-Arc Additive Manufactured (WAAM) Ti-6Al-4V by ZrN and TiN inoculation. *Additive Manufacturing*, **2021**, 40, 101928	6.1	2
141	Effect of deposition strategies on fatigue crack growth behaviour of wire + arc additive manufactured titanium alloy Ti6Al4V. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2021**, 814, 141194	5.3	12
140	In-situ observation of single variant colony formation in Ti-6Al-4V. *Acta Materialia*, **2021**, 220, 117315	8.4	5
139	Tailoring equiaxed grain structures in Ti-6Al-4V coaxial electron beam wire additive manufacturing. *Materialia*, **2021**, 20, 101202	3.2	2
138	Confirmation of rapid-heating recrystallization in wire-arc additively manufactured Ti-6Al-4V. *Materialia*, **2020**, 13, 100857	3.2	3
137	Isomorphic grain inoculation in Ti-6Al-4V during additive manufacturing. *Materials Letters: X*, **2020**, 8, 100057	0.5	0
136	The effect of processing parameters on rapid-heating recrystallization in inter-pass deformed Ti-6Al-4V wire-arc additive manufacturing. *Materials Characterization*, **2020**, 163, 110298	3.9	9
135	The effect of loading direction on strain localisation in wire arc additively manufactured Ti6Al4V. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2020**, 788, 139608	5.3	11
134	On the observation of annealing twins during simulating grain refinement in Ti6Al4V high deposition rate AM with in-process deformation. *Acta Materialia*, **2020**, 186, 229-241	8.4	17
133	Quantification of strain fields and grain refinement in Ti-6Al-4V inter-pass rolled wire-arc AM by EBSD misorientation analysis. *Materials Characterization*, **2020**, 170, 110673	3.9	5
132	Interfacial Segregation of Alloying Elements During Dissimilar Ultrasonic Welding of AA6111 Aluminum and Ti6Al4V Titanium. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2019**, 50, 5143-5152	2.3	26

131	On the origin of microstructural banding in Ti-6Al4V wire-arc based high deposition rate additive manufacturing. *Acta Materialia*, **2019**, 166, 306-323	8.4	112
130	Mechanical performance and microstructural characterisation of titanium alloy-alloy composites built by wire-arc additive manufacture. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2019**, 765, 138289	5.3	13
129	Weld zone and residual stress development in AA7050 stationary shoulder friction stir T-joint weld. *Journal of Materials Processing Technology*, **2019**, 263, 256-265	5.3	21
128	Automated image mapping and quantification of microstructure heterogeneity in additive manufactured Ti6Al4V. *Materials Characterization*, **2019**, 147, 131-145	3.9	14
127	Effect of processing parameters on the densification, microstructure and crystallographic texture during the laser powder bed fusion of pure tungsten. *International Journal of Refractory Metals and Hard Materials*, **2019**, 78, 254-263	4.1	43
126	Material interactions in laser polishing powder bed additive manufactured Ti6Al4V components. *Additive Manufacturing*, **2018**, 20, 11-22	6.1	38
125	Evaluation of Zn-rich coatings for IMC reaction control in aluminum-magnesium dissimilar welds. *Materials Characterization*, **2018**, 139, 100-110	3.9	13
124	The Effectiveness of Al-Si Coatings for Preventing Interfacial Reaction in Al-Mg Dissimilar Metal Welding. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2018**, 49, 162-176	2.3	11
123	The effect of shoulder coupling on the residual stress and hardness distribution in AA7050 friction stir butt welds. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 735, 218-227	5.3	26
122	Investigation of residual stress distribution and texture evolution in AA7050 stationary shoulder friction stir welded joints. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 712, 531-538	5.3	20
121	The Influence of Grain Structure on Intermetallic Compound Layer Growth Rates in Fe-Al Dissimilar Welds. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2018**, 49, 515-526	2.3	21
120	Comparison of residual stress distributions in conventional and stationary shoulder high-strength aluminum alloy friction stir welds. *Journal of Materials Processing Technology*, **2017**, 242, 92-100	5.3	66
119	The significance of intermetallic compounds formed during interdiffusion in aluminum and magnesium dissimilar welds. *Materials Characterization*, **2017**, 134, 84-95	3.9	21
118	Application of bulk deformation methods for microstructural and material property improvement and residual stress and distortion control in additively manufactured components. *Scripta Materialia*, **2017**, 135, 111-118	5.6	82
117	Thermal Modeling of Al-Al and Al-Steel Friction Stir Spot Welding. *Journal of Materials Engineering and Performance*, **2016**, 25, 4089-4098	1.6	23
116	The effectiveness of combining rolling deformation with Wire□Arc Additive Manufacture on □grain refinement and texture modification in Ti□Al□V. *Materials Characterization*, **2016**, 114, 103-114	3.9	156
115	Porosity regrowth during heat treatment of hot isostatically pressed additively manufactured titanium components. *Scripta Materialia*, **2016**, 122, 72-76	5.6	148
114	Effect of microstructure on the tensile strength of Ti6Al4V specimens manufactured using additive manufacturing electron beam process. *Powder Metallurgy*, **2016**, 59, 41-50	1.9	13

113	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		
112	Dissimilar ultrasonic spot welding of aerospace aluminum alloy AA2139 to titanium alloy TiAl6V4. *Journal of Materials Processing Technology*, **2016**, 231, 382-388	5.3	60
111	Quantification of the influence of increased pre-stretching on microstructure-strength relationships in the Al□Cu□Li alloy AA2195. *Acta Materialia*, **2016**, 108, 55-67	8.4	159
110	Effect of Interfacial Reaction on the Mechanical Performance of Steel to Aluminum Dissimilar Ultrasonic Spot Welds. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2016**, 47, 334-346	2.3	47
109	The Effectiveness of Hot Isostatic Pressing for Closing Porosity in Titanium Parts Manufactured by Selective Electron Beam Melting. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2016**, 47, 1939-1946	2.3	153
108	Stationary shoulder FSW for joining high strength aluminum alloys. *Journal of Materials Processing Technology*, **2015**, 221, 187-196	5.3	58
107	Modelling and visualisation of material flow in friction stir spot welding. *Journal of Materials Processing Technology*, **2015**, 225, 473-484	5.3	38
106	Modeling of the Thermal Field in Dissimilar Alloy Ultrasonic Welding. *Journal of Materials Engineering and Performance*, **2015**, 24, 799-807	1.6	19
105	XCT analysis of the influence of melt strategies on defect population in Ti□Al□V components manufactured by Selective Electron Beam Melting. *Materials Characterization*, **2015**, 102, 47-61	3.9	347
104	Coating Design for Controlling □Phase IMC Formation in Dissimilar Al-Mg Metal Welding **2015**, 171-179		
103	Modeling of Intermetallic Compounds Growth Between Dissimilar Metals. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2015**, 46, 4106-4114	2.3	29
102	Coating Design for Controlling □Phase IMC Formation in Dissimilar Al-Mg Metal Welding **2015**, 171-179		
101	Comparison of the Effect of Individual and Combined Zr and Mn Additions on the Fracture Behavior of Al-Cu-Li Alloy AA2198 Rolled Sheet. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2014**, 45, 1338-1351	2.3	19
100	Microstructural characterization and mechanical properties of high power ultrasonic spot welded aluminum alloy AA6111□TiAl6V4 dissimilar joints. *Materials Characterization*, **2014**, 97, 83-91	3.9	60
99	The effect of Mn and Zr dispersoid-forming additions on recrystallization resistance in Al□Cu□Li AA2198 sheet. *Acta Materialia*, **2014**, 77, 1-16	8.4	78
98	Dissimilar metal laser spot joining of steel to aluminium in conduction mode. *International Journal of Advanced Manufacturing Technology*, **2014**, 73, 365-373	3.2	26
97	Controlling Interfacial Reaction during Dissimilar Metal Welding of Aluminium Alloys. *Materials Science Forum*, **2014**, 794-796, 416-421	0.4	4
96	Systematic Evaluation of the Advantages of Static Shoulder FSW for Joining Aluminium. *Materials Science Forum*, **2014**, 794-796, 407-412	0.4	2

95	Assessment of the Advantages of Static Shoulder FSW for Joining Aluminium Aerospace Alloys. *Materials Science Forum*, **2014**, 783-786, 1770-1775	0.4	
94	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	
93	Effect of build geometry on the β-grain structure and texture in additive manufacture of Ti6Al4V by selective electron beam melting. *Materials Characterization*, **2013**, 84, 153-168	3.9	438
92	The effect of a paint bake treatment on joint performance in friction stir spot welding AA6111-T4 sheet using a pinless tool. *Materials Chemistry and Physics*, **2013**, 141, 768-775	4.4	19
91	The Effectiveness of Surface Coatings on Preventing Interfacial Reaction During Ultrasonic Welding of Aluminum to Magnesium. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2013**, 44, 5773-5781	2.3	40
90	Mechanical and Microstructural Characterization of Percussive Arc Welded Hyper-Pins for Titanium to Composite Metal Joining. *Materials Science Forum*, **2013**, 765, 771-775	0.4	11
89	Interface structure and bonding in abrasion circle friction stir spot welding: A novel approach for rapid welding aluminium alloy to steel automotive sheet. *Materials Chemistry and Physics*, **2012**, 134, 459-463	4.4	51
88	Microstructure and performance of a biodegradable Mg–Ca–Zn–TCP composite fabricated by combined solidification and deformation processing. *Materials Letters*, **2012**, 82, 7-9	3.3	26
87	Interactions between zirconium and manganese dispersoid-forming elements on their combined addition in Al–Cu–Li alloys. *Acta Materialia*, **2012**, 60, 5245-5259	8.4	55
86	The effect of high strain rate deformation on intermetallic reaction during ultrasonic welding aluminium to magnesium. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2012**, 556, 31-42	5.3	138
85	Effect of Wall Thickness Transitions on Texture and Grain Structure in Additive Layer Manufacture (ALM) of Ti-6Al-4V. *Materials Science Forum*, **2012**, 706-709, 205-210	0.4	19
84	Loss of High Angle Boundary Area during Annealing a Cryo-SPD Processed Al-Alloy with a Nano-Scale Lamellar Grain Structure. *Materials Science Forum*, **2012**, 715-716, 219-226	0.4	1
83	Effect of Zinc Coatings on Joint Properties and Interfacial Reactions in Aluminum to Steel Ultrasonic Spot Welding. *Jom*, **2012**, 64, 407-413	2.1	41
82	HAZ development and accelerated post-weld natural ageing in ultrasonic spot welding aluminium 6111-T4 automotive sheet. *Acta Materialia*, **2012**, 60, 2816-2828	8.4	86
81	Modelling intermetallic phase formation in dissimilar metal ultrasonic welding of aluminium and magnesium alloys. *Science and Technology of Welding and Joining*, **2012**, 17, 447-453	3.7	50
80	Microstructure simulation and ballistic behaviour of weld zones in friction stir welds in high strength aluminium 7xxx plate. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2011**, 528, 3409-3422	5.3	27
79	Material Interactions in a Novel Pinless Tool Approach to Friction Stir Spot Welding Thin Aluminum Sheet. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2011**, 42, 1266-1282	2.3	93
78	A combined approach to microstructure mapping of an Al–Li AA2199 friction stir weld. *Acta Materialia*, **2011**, 59, 3002-3011	8.4	93

77	Ultrasonic spot welding of aluminium to steel for automotive applications: microstructure and optimisation. *Materials Science and Technology*, **2011**, 27, 617-624	1.5	87
76	Effects of Combined Zr and Mn Additions on Dispersoid Formation and Recrystallisation Behaviour of AA2198 Sheet. *Advanced Materials Research*, **2010**, 89-91, 568-573	0.5	10
75	Analysis of the Homogeneity of Particle Refinement in Friction Stir Processing Al-Si Alloys. *Advanced Materials Research*, **2010**, 89-91, 85-90	0.5	3
74	Novel Approaches to Friction Spot Welding Thin Aluminium Automotive Sheet. *Materials Science Forum*, **2010**, 638-642, 1237-1242	0.4	32
73	Efficacy of active cooling for controlling residual stresses in friction stir welds. *Science and Technology of Welding and Joining*, **2010**, 15, 156-165	3.7	45
72	Control of weld composition when arc welding high strength aluminium alloys using multiple filler wires. *Science and Technology of Welding and Joining*, **2010**, 15, 491-496	3.7	9
71	Mechanisms of joint and microstructure formation in high power ultrasonic spot welding 6111 aluminium automotive sheet. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2010**, 527, 6320-6334	5.3	189
70	Room temperature instability of an Al-4%Cu super saturated solid solution in a nano-crystalline alloy produced by SPD. *Journal of Materials Science*, **2010**, 45, 4851-4857	4.3	4
69	The formation of nanograin structures and accelerated room-temperature theta precipitation in a severely deformed Al□4 wt.% Cu alloy. *Acta Materialia*, **2010**, 58, 1643-1657	8.4	117
68	Control of weld composition when welding high strength aluminium alloy using the tandem process. *Science and Technology of Welding and Joining*, **2009**, 14, 734-739	3.7	7
67	Effect of reduced or zero pin length and anvil insulation on friction stir spot welding thin gauge 6111 automotive sheet. *Science and Technology of Welding and Joining*, **2009**, 14, 443-456	3.7	73
66	Microstructure and texture evolution during annealing a cryogenic-SPD processed Al-alloy with a nanoscale lamellar HAGB grain structure. *Acta Materialia*, **2009**, 57, 3509-3521	8.4	85
65	Global mechanical tensioning for the management of residual stresses in welds. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2008**, 489, 351-362	5.3	73
64	The effect of cryogenic deformation on the limiting grain size in an SMG Al-alloy. *Journal of Materials Science*, **2008**, 43, 7280-7285	4.3	7
63	The effect of cryogenic temperature and change in deformation mode on the limiting grain size in a severely deformed dilute aluminium alloy. *Acta Materialia*, **2008**, 56, 1619-1632	8.4	99
62	Grain structure and homogeneity of pulsed laser treated surfaces on Al-aerospace alloys and FSWs. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2008**, 479, 65-75	5.3	23
61	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. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2008**, 491, 214-223	5.3	98
60	Ultra-Fine Grained High Carbon Steel by Innovative Deformation. *Materials Science Forum*, **2007**, 550, 301-306	0.4	2

59	Grain refinement response during twist extrusion of an Al-0.13% Mg alloy. *International Journal of Materials Research*, **2007**, 98, 200-204	0.5	24
58	Continuous frictional angular extrusion and its application in the production of ultrafine-grained sheet metals. *Scripta Materialia*, **2007**, 56, 333-336	5.6	55
57	Modelling the Precipitation of Al3X Dispersoids in Aluminium Alloys and their Effect on Recrystallization. *Materials Science Forum*, **2007**, 550, 45-54	0.4	
56	Deformation Processing of Sheet Metals by Continuous Frictional Angular Extrusion. *Materials Science Forum*, **2007**, 550, 241-246	0.4	2
55	Mechanisms of Formation of Submicron Grain Structures by Severe Deformation. *Materials Science Forum*, **2007**, 550, 159-168	0.4	14
54	The Effect of Dispersoids and Processing Variables on Grain Refinement of Aluminium Alloys Deformed by ECAE. *Solid State Phenomena*, **2006**, 114, 151-158	0.4	4
53	Through Thickness Microstructural Gradients in 7475 and 2022 Creep - Ageformed Bend Coupons. *Materials Science Forum*, **2006**, 519-521, 407-412	0.4	15
52	Effect of processing route and second phase particles on grain refinement during equal-channel angular extrusion. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2005**, 410-411, 381-385	5.3	34
51	The effect of dispersoids on the grain refinement mechanisms during deformation of aluminium alloys to ultra-high strains. *Acta Materialia*, **2005**, 53, 499-511	8.4	131
50	Grain structure formation during friction stir welding observed by the stop action technique. *Acta Materialia*, **2005**, 53, 3179-3192	8.4	372
49	Ultrafine-Grain Structures Produced by Severe Deformation Processing. *Materials Science Forum*, **2004**, 447-448, 423-428	0.4	4
48	Microstructural parameters and flow stress in Al 0.13% Mg deformed by ECAE processing. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2004**, 387-389, 235-239	5.3	50
47	Ultra-fine grain structures in aluminium alloys by severe deformation processing. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2004**, 375-377, 178-185	5.3	153
46	Continuous recrystallisation of lamellar deformation structures produced by severe deformation. *Acta Materialia*, **2004**, 52, 3193-3206	8.4	89
45	Stability of Ultra-Fine Grain Structures Produced by Severe Deformation. *Materials Science Forum*, **2004**, 467-470, 1261-1270	0.4	8
44	Effect of welding parameters on nugget zone microstructure and properties in high strength aluminium alloy friction stir welds. *Science and Technology of Welding and Joining*, **2003**, 8, 257-268	3.7	172
43	Development of new high strength Al Sc filler wires for fusion welding 7000 series aluminium aerospace alloys. *Science and Technology of Welding and Joining*, **2003**, 8, 235-245	3.7	20
42	Modelling Al3Zr dispersoid precipitation in multicomponent aluminium alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2003**, 352, 240-250	5.3	101

41	Examination of the effect of Sc on 2000 and 7000 series aluminium alloy castings: for improvements in fusion welding. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2003**, 354, 188-198	5.3	83
40	The effect of coarse second-phase particles on the rate of grain refinement during severe deformation processing. *Acta Materialia*, **2003**, 51, 2811-2822	8.4	202
39	Extension of the N-model to predict competing homogeneous and heterogeneous precipitation in Al-Sc alloys. *Acta Materialia*, **2003**, 51, 1453-1468	8.4	109
38	Stability of nugget zone grain structures in high strength Al-alloy friction stir welds during solution treatment. *Acta Materialia*, **2003**, 51, 1923-1936	8.4	227
37	Orientation correlations in aluminium deformed by ECAE. *Scripta Materialia*, **2002**, 47, 289-294	5.6	35
36	Microstructure refinement and mechanical properties of severely deformed Al–Mg–Li alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2002**, 328, 87-97	5.3	111
35	Modelling texture development during equal channel angular extrusion of aluminium. *Acta Materialia*, **2002**, 50, 2121-2136	8.4	134
34	Production of ultra-fine grain microstructures in Al–Mg alloys by coventional rolling. *Acta Materialia*, **2002**, 50, 4461-4476	8.4	172
33	Texture Evolution and Grain Refinement in Al Deformed to Ultra-High Strains by Accumulative Roll Bonding (ARB). *Materials Science Forum*, **2002**, 408-412, 733-738	0.4	36
32	Grain Refinement and Texture Evolution during the Deformation of Al to Ultra-High Strains by Accumulative Roll Bonding (ARB). *Materials Science Forum*, **2002**, 396-402, 429-434	0.4	11
31	Predicting recrystallised volume fraction in aluminium alloy 7050 hot rolled plate. *Materials Science and Technology*, **2002**, 18, 607-614	1.5	52
30	The Effect of Small Scandium Additions to AA7050 on the As-Cast and Homogenized Microstructure. *Materials Science Forum*, **2002**, 396-402, 757-762	0.4	25
29	Characterisation of thin silica films deposited on carbon fibre by an atmospheric pressure non-equilibrium plasma (APNEP). *Composites Part A: Applied Science and Manufacturing*, **2002**, 33, 1403-1408	8.4	14
28	Dispersoid precipitation and process modelling in zirconium containing commercial aluminium alloys. *Acta Materialia*, **2001**, 49, 599-613	8.4	238
27	The effect of cooling rate on the morphology of primary Al3Sc intermetallic particles in Al–Sc alloys. *Acta Materialia*, **2001**, 49, 1327-1337	8.4	135
26	Novel processing routes to ultrafine grained steel. *Ironmaking and Steelmaking*, **2001**, 28, 203-208	1.3	9
25	Fine-grained alloys by thermomechanical processing. *Current Opinion in Solid State and Materials Science*, **2001**, 5, 15-21	12	90
24	Processing to ultrafine grain structures by conventional routes. *Materials Science and Technology*, **2000**, 16, 1251-1255	1.5	25

23	The effect of strain path on the development of deformation structures in severely deformed aluminium alloys processed by ECAE. *Acta Materialia*, **2000**, 48, 1115-1130	8.4	354
22	Analysis of the billet deformation behaviour in equal channel angular extrusion. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2000**, 287, 87-99	5.3	205
21	Precipitation Behaviors in MMCs **2000**, 61-90		3
20	Microstructural evolution during formation of ultrafine grain structures by severe deformation. *Materials Science and Technology*, **2000**, 16, 1246-1250	1.5	52
19	Microstructural Evolution of the Deformed State during Severe Deformation of an ECAE Processed Al-0.13%Mg Alloy. *Materials Science Forum*, **2000**, 331-337, 545-550	0.4	9
18	High Resolution EBSD Analysis of the Grain Structure in an AA2024 Friction Stir Weld. *Materials Science Forum*, **2000**, 331-337, 1713-1718	0.4	51
17	Effect of grain size on tensile behaviour of a submicron grained Al wt-%Mg alloy produced by severe deformation. *Materials Science and Technology*, **2000**, 16, 1259-1263	1.5	107
16	Cast microstructure and dispersoid formation in spray deposited Al i alloys. *Materials Science and Technology*, **1999**, 15, 328-336	1.5	8
15	Developing stable fine grain microstructures by large strain deformation. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **1999**, 357, 1663-1681	3	321
14	Structure and mechanical behaviour of an Al-Mg alloy after equal channel angular extrusion. *Scripta Materialia*, **1999**, 12, 839-842		22
13	Ultrafine grain structures formed by thermomechanical processing of spray cast Al i alloys. *Materials Science and Technology*, **1999**, 15, 605-615	1.5	6
12	The solidification behaviour of dilute aluminium candium alloys. *Acta Materialia*, **1998**, 46, 5715-5732	8.4	242
11	Finite element modelling of equal channel angular extrusion. *Scripta Materialia*, **1997**, 37, 983-989	5.6	174
10	Hydrogen-assisted stable crack growth in iron-3 wt% silicon steel. *Acta Materialia*, **1996**, 44, 3125-3140	8.4	31
9	The effect of particle distribution on damage formation in particulate reinforced metal matrix composites deformed in compression. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1996**, 220, 41-56	5.3	79
8	An examination of the mean stress contribution to the Bauschinger effect by neutron diffraction. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **1995**, 197, 215-221	5.3	22
7	The influence of temperature on microstructural damage during uniaxial compression of aluminium matrix composites. *Scripta Metallurgica Et Materialia*, **1995**, 33, 323-329		21
6	Decomposition of the supersaturated solid solution in a rapidly solidified hypereutectic Al?Cu alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **1994**, 179-180, 327-333	5.3	1

5	Forging of H-sections from aluminium metal matrix composite bars, modelled using the finite element method. *Journal of Materials Processing Technology*, **1994**, 45, 421-428	5.3	4
4	Discontinuous precipitation in high Li content Al?Li?Zr alloys. *Acta Metallurgica Et Materialia*, **1994**, 42, 419-433		13
3	Tensile-compressive yield asymmetries in high strength wrought magnesium alloys. *Scripta Metallurgica Et Materialia*, **1994**, 31, 111-116		441
2	The deformation of discontinuously reinforced MMCs-II. The elastic response. *Acta Metallurgica Et Materialia*, **1994**, 42, 3437-3442		24
1	The deformation of discontinuously reinforced MMCs-I The initial yielding behaviour. *Acta Metallurgica Et Materialia*, **1994**, 42, 3425-3436		59