Brad Wynne

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Twin recrystallization mechanisms and exceptional contribution to texture evolution during annealing in a magnesium alloy. Acta Materialia, 2017, 126, 132-144.	7.9	210
2	Individual effect of recrystallisation nucleation sites on texture weakening in a magnesium alloy: Part 1- double twins. Acta Materialia, 2017, 135, 14-24.	7.9	145
3	Development of Microstructure and Crystallographic Texture during Stationary Shoulder Friction Stir Welding of Ti-6Al-4V. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 2278-2289.	2.2	122
4	Basal slip mediated tension twin variant selection in magnesium WE43 alloy. Acta Materialia, 2019, 170, 1-14.	7.9	113
5	Individual effect of recrystallisation nucleation sites on texture weakening in a magnesium alloy: Part 2- shear bands. Acta Materialia, 2018, 145, 399-412.	7.9	104
6	Effect of composition and austenite deformation on the transformation characteristics of low-carbon and ultralow-carbon microalloyed steels. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2002, 33, 1331-1349.	2.2	99
7	Exploring the mechanism of "Rare Earth―texture evolution in a lean Mg–Zn–Ca alloy. Scientific Reports, 2019, 9, 7152.	3.3	65
8	The Use of Bobbin Tools for Friction Stir Welding of Aluminium Alloys. Materials Science Forum, 0, 638-642, 1179-1184.	0.3	57
9	Effect of Tool Geometry and Heat Input on the Hardness, Grain Structure, and Crystallographic Texture of Thick-Section Friction Stir-Welded Aluminium. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 271-284.	2.2	47
10	Effect of friction stir welding speed on mechanical properties and microstructure of nickel based super alloy Inconel 718. Science and Technology of Welding and Joining, 2013, 18, 680-687.	3.1	38
11	Conditions for the occurrence of acicular ferrite transformation in HSLA steels. Journal of Materials Science, 2018, 53, 3785-3804.	3.7	38
12	EBSD investigation of the microstructure and texture characteristics of hot deformed duplex stainless steel. Journal of Microscopy, 2006, 222, 85-96.	1.8	29
13	Effect of deformation twinning on crystallographic texture evolution in a Mg–6.6Zn–0.2Ca (ZX70) alloy during recrystallisation. Journal of Alloys and Compounds, 2019, 774, 556-564.	5.5	28
14	Effect of strain reversal on the dynamic spheroidization of Ti-6Al-4V during hot deformation. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2004, 35, 2993-3001.	2.2	27
15	The Effect of Simulated Thermomechanical Processing on the Transformation Behavior and Microstructure of a Low-Carbon Mo-Nb Linepipe Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 407-425.	2.2	27
16	Grain size measurement by EBSD in complex hot deformed metal alloy microstructures. Journal of Microscopy, 2007, 227, 298-308.	1.8	24
17	Constitutive equations of flow stress of magnesium AZ31 under dynamically recrystallizing conditions. Journal of Materials Processing Technology, 2014, 214, 1408-1417.	6.3	24
18	Subsurface deformation during precision turning of a near-alpha titanium alloy. Scripta Materialia, 2012, 67, 842-845.	5.2	23

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19	Refractory metals as structural materials for fusion high heat flux components. Journal of Nuclear Materials, 2018, 512, 169-183.	2.7	22
20	Hot working and crystallographic texture analysis of magnesium AZ alloys. Materials Science and Technology, 2011, 27, 461-477.	1.6	21
21	Microstructure and texture evolution of stationary shoulder friction stir welded Ti6Al4V alloy. Science and Technology of Welding and Joining, 2015, 20, 594-600.	3.1	20
22	Mapping microstructure inhomogeneity using electron backscatter diffraction in 316L stainless steel subjected to hot plane strain compression tests. Materials Science and Technology, 2010, 26, 1477-1486.	1.6	18
23	Development of Microstructure and Crystallographic Texture in a Double-Sided Friction Stir Welded Microalloyed Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 362-378.	2.2	18
24	Variant selection in stationary shoulder friction stir welded Ti-6Al-4V alloy. Journal of Materials Science and Technology, 2018, 34, 198-208.	10.7	16
25	An analysis of microband orientation in a commercial purity aluminium alloy subjected to forward and reverse torsion using Electron Backscatter Diffraction (EBSD). Journal of Microscopy, 2006, 222, 97-104.	1.8	15
26	The Impact of Strain Reversal on Microstructure Evolution and Orientation Relationships in Ti-6Al-4V with an Initial Alpha Colony Microstructure. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 5997-6007.	2.2	15
27	The Use of Fe-30% Ni and Fe-30% Ni–Nb Alloys as Model Systems for Studying the Microstructural Evolution during the Hot Deformation of Austenite. Materials and Manufacturing Processes, 2011, 26, 127-131.	4.7	12
28	Hydrogen Degassing in a Vacuum Arc Degasser Using a Threeâ€₽hase Eulerian Method and Discrete Population Balance Model. Steel Research International, 2018, 89, 1700550.	1.8	12
29	Exploring complex high heat flux geometries for fusion applications enabled by additive manufacturing. Fusion Engineering and Design, 2018, 136, 454-460.	1.9	11
30	Influence of Strain History and Cooling Rate on the Austenite Decomposition Behavior and Phase Transformation Products in a Microalloyed Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 3619-3630.	2.2	8
31	Modeling the Effect of Plug Positions and Ladle Aspect Ratio on Hydrogen Removal in the Vacuum Arc Degasser. Steel Research International, 2018, 89, 1700551.	1.8	8
32	EBSD investigation of the effect of strain path changes on the microstructure and texture of duplex stainless steel during hot deformation. Journal of Physics: Conference Series, 2006, 26, 331-334.	0.4	7
33	The Effect of Strain Path Reversal during Austenite Deformation on Phase Transformation in a Microalloyed Steel Subjected to Accelerated Cooling. Materials Science Forum, 0, 715-716, 667-672.	0.3	7
34	An analysis of the microstructure of spark plasma sintered and hot isostatically pressed V 4Cr 4Ti 1.8Y 0.4Ti3SiC2 alloy and its thermal stability. Journal of Alloys and Compounds, 2016, 680, 506-511.	5.5	7
35	Validation of neutron texture data on GEM at ISIS using electron backscattered diffraction. Measurement Science and Technology, 2008, 19, 034002.	2.6	6
36	The effect of thermomechanical controlled processing on recrystallisation and subsequent deformation-induced ferrite transformation textures in microalloyed steels. Journal of Materials Science, 2018, 53, 6922-6938.	3.7	6

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37	On the Effect of Strain Reversal on Static Recrystallisation and Strain-Induced Precipitation Process Kinetics in Microalloyed Steels. Materials Science Forum, 2012, 715-716, 655-660.	0.3	5
38	Effect of stress on transformation plasticity and texture in a tool steel. Scripta Materialia, 2007, 57, 473-476.	5.2	4
39	Combined Discrete/Finite Element Multiscale Approach for Modelling of the Tool/Workpiece Interface during High Shear Processing: Hot Rolling and Friction Stir Welding Applications. Materials Science Forum, 2010, 638-642, 2622-2627.	0.3	4
40	Quantifying Crystallographic Texture Variation in a Titanium Billet. IOP Conference Series: Materials Science and Engineering, 2018, 375, 012019.	0.6	4
41	An Analysis of Deformation Microstructure and Subsequent Recrystallisation in Hot Deformed Aluminium Alloy AA5052 Using Forward and Reverse Torsion. Materials Science Forum, 2007, 550, 223-228.	0.3	3
42	Effect of Dwell Time on Friction Stir Spot Welded Dual Phase Steel. Advanced Materials Research, 0, 83-86, 1143-1150.	0.3	3
43	Influence of strain reversal on dynamic transformation in microalloyed steels deformed above the Ae3 temperature. Journal of Materials Science, 2017, 52, 12427-12444.	3.7	3
44	Crystallographic Texture Investigation of Thick Section Friction Stir Welded AA6082 and AA5083 Using EBSD. Key Engineering Materials, 2018, 786, 44-51.	0.4	3
45	Influence of Surface Finish on Small Punch Testing of 9Cr Eurofer-97 Steel. Journal of Testing and Evaluation, 2020, 48, 1310-1318.	0.7	3
46	Effect of roll pass schedule on through thickness texture development in Al–Mn alloy. Materials Science and Technology, 2003, 19, 477-482.	1.6	2
47	An Analysis of Strain Path Effects on Static Recrystallisation in Hot Worked Aluminium Alloy AA5052 Using Forward and Reverse Torsion. Materials Science Forum, 2007, 558-559, 407-412.	0.3	2
48	Effect of Austenite Deformation on Recrystallisation Behaviour in an X-70 Microalloyed Steel. Advanced Materials Research, 0, 89-91, 721-726.	0.3	2
49	Influence of Strain Path on Microstructure Evolution of Low Carbon Steels. Materials Science Forum, 2010, 638-642, 3418-3423.	0.3	2
50	Use of controlled heat treatment to predict mechanical properties in steel components. Ironmaking and Steelmaking, 2016, 43, 351-357.	2.1	2
51	A Parametric Study on the Effects of Process Conditions on Dehydrogenation, Wall Shear and Slag Entrainment in the Vacuum Arc Degasser Using Mathematical Modelling. ISIJ International, 2018, 58, 1679-1686.	1.4	1
52	Response to comments on: "Effect of stress on transformation plasticity and texture in a tool steel― Scripta Materialia, 2008, 58, 937.	5.2	0
53	The Use of Model Systems Based on Fe-30%Ni for Studying the Microstructural Evolution during the Hot Deformation of Austenite. Materials Science Forum, 2010, 638-642, 2694-2699.	0.3	0
54	An Investigation of the Dynamic Recrystallisation Behaviour of Magnesium AZ31 Alloy at 450°C Using Plane Strain Compression Testing as a Tool. Materials Science Forum, 0, 715-716, 164-169.	0.3	0

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55	Constitutive Equation Development to Model the Hot Forging of ZERON®100 Super Duplex Stainless Steel and Associated Microstructural Evolution. Key Engineering Materials, 2016, 716, 632-642.	0.4	0
56	On the use of model alloys as a way to understand the effects of complex deformation conditions on austenite microstructure evolution during hot metal forming processes. Advances in Materials and Processing Technologies, 2016, 2, 143-151.	1.4	0
57	Microstructure and modelling of shear forming. AIP Conference Proceedings, 2019, , .	0.4	0