

Nicole Ellen Stanford

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122
papers

6,139
citations

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76
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124
ext. papers

7,050
ext. citations

4.8
avg, IF

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L-index

#	Paper	IF	Citations
122	The origin of rare earth texture development in extruded Mg-based alloys and its effect on tensile ductility. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 496, 399-408	5.3	576
121	Effect of precipitate shape on slip and twinning in magnesium alloys. <i>Acta Materialia</i> , 2011 , 59, 1945-1956	8.4	292
120	Micro-alloying Mg with Y, Ce, Gd and La for texture modification – a comparative study. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 2669-2677	5.3	285
119	Effect of microalloying with rare-earth elements on the texture of extruded magnesium-based alloys. <i>Scripta Materialia</i> , 2008 , 59, 772-775	5.6	271
118	Effect of composition on the texture and deformation behaviour of wrought Mg alloys. <i>Scripta Materialia</i> , 2008 , 58, 179-182	5.6	243
117	The effect of Gd on the recrystallisation, texture and deformation behaviour of magnesium-based alloys. <i>Acta Materialia</i> , 2010 , 58, 6773-6783	8.4	239
116	Crystallographic variant selection in TiAl ₃ V. <i>Acta Materialia</i> , 2004 , 52, 5215-5224	8.4	199
115	Comparative study of the microstructures and mechanical properties of direct laser fabricated and arc-melted Al x CoCrFeNi high entropy alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 633, 184-193	5.3	189
114	Effect of particles on the formation of deformation twins in a magnesium-based alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 516, 226-234	5.3	187
113	Magnesium extrusion alloys: a review of developments and prospects. <i>International Materials Reviews</i> , 2019 , 64, 27-62	16.1	165
112	Solute segregation and texture modification in an extruded magnesium alloy containing gadolinium. <i>Scripta Materialia</i> , 2011 , 65, 919-921	5.6	162
111	Effect of plate-shaped particle distributions on the deformation behaviour of magnesium alloy AZ91 in tension and compression. <i>Acta Materialia</i> , 2012 , 60, 218-228	8.4	161
110	Solute strengthening of prismatic slip, basal slip and {101 $\bar{2}$ } twinning in Mg and Mg ₂ Zn binary alloys. <i>International Journal of Plasticity</i> , 2013 , 47, 165-181	7.6	157
109	Deformation mechanisms and plastic anisotropy in magnesium alloy AZ31. <i>Acta Materialia</i> , 2011 , 59, 4866-4874	8.4	107
108	Effect of particles in promoting twin nucleation in a Mg ₃ wt.% Zn alloy. <i>Scripta Materialia</i> , 2010 , 63, 823-826	5.6	103
107	The effect of calcium on the texture, microstructure and mechanical properties of extruded Mg ₂ MnCa alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 528, 314-322	5.3	103
106	The effect of high yttrium solute concentration on the twinning behaviour of magnesium alloys. <i>Acta Materialia</i> , 2015 , 82, 447-456	8.4	100

105	Understanding the mechanical behaviour and the large strength/ductility differences between FCC and BCC Al _x CoCrFeNi high entropy alloys. <i>Journal of Alloys and Compounds</i> , 2017 , 726, 885-895	5.7	90
104	Effect of Precipitate Shape and Habit on Mechanical Asymmetry in Magnesium Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 2984-2995	2.3	79
103	Tension/compression asymmetry in additive manufactured face centered cubic high entropy alloy. <i>Scripta Materialia</i> , 2017 , 129, 30-34	5.6	76
102	Quantitative measurement of strain partitioning and slip systems in a dual-phase steel. <i>Scripta Materialia</i> , 2013 , 69, 13-16	5.6	74
101	Effect of Al and Gd Solute on the Strain Rate Sensitivity of Magnesium Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2010 , 41, 734-743	2.3	74
100	The effect of rare earth elements on the behaviour of magnesium-based alloys: Part 2 □ recrystallisation and texture development. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 565, 469-475	5.3	72
99	Investigation of precipitate hardening of slip and twinning in Mg5%Zn by micropillar compression. <i>Acta Materialia</i> , 2015 , 100, 53-63	8.4	70
98	Texture selection mechanisms in uniaxially extruded magnesium alloys. <i>Scripta Materialia</i> , 2010 , 63, 721-724	5.4	68
97	Deformation Twinning and the Hall-Petch Relation in Commercial Purity Ti. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2008 , 39, 934-944	2.3	66
96	Slip mode dependency of dislocation shearing and looping of precipitates in Mg alloy WE43. <i>Acta Materialia</i> , 2018 , 146, 55-62	8.4	65
95	Plastic relaxation of the internal stress induced by twinning. <i>Acta Materialia</i> , 2013 , 61, 7859-7867	8.4	62
94	Effect of hot isostatic pressing on the microstructure and mechanical properties of additive manufactured Al _x CoCrFeNi high entropy alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 733, 59-70	5.3	55
93	Evaluating the effect of yttrium as a solute strengthener in magnesium using in situ neutron diffraction. <i>Acta Materialia</i> , 2014 , 78, 1-13	8.4	52
92	Strain partitioning in dual-phase steels containing tempered martensite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 611, 90-99	5.3	52
91	The effect of rare earth elements on the behaviour of magnesium-based alloys: Part 1 □ Hot deformation behaviour. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 565, 459-468	5.3	52
90	In situ observations of Widmanstätten ferrite formation in a low-carbon steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 407, 127-134	5.3	52
89	Thermo-mechanical processing and the shape memory effect in an Fe-Mn-Si-based shape memory alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 422, 352-359	5.3	51
88	Fine grained AZ31 produced by conventional thermo-mechanical processing. <i>Journal of Alloys and Compounds</i> , 2008 , 466, 182-188	5.7	50

87	Microstructures and mechanical properties of dual phase steel produced by laboratory simulated strip casting. <i>Materials and Design</i> , 2015 , 88, 537-549	8.1	47
86	Dependence of deformation behavior on grain size and strain rate in an ultrahigh strength-ductile Mn-based TRIP alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 653, 35-42	5.3	47
85	Seeding of single crystal superalloys: Role of seed melt-back on casting defects. <i>Scripta Materialia</i> , 2004 , 50, 159-163	5.6	47
84	Site-specific atomic-scale characterisation of retained austenite in a strip cast TRIP steel. <i>Acta Materialia</i> , 2017 , 134, 1-15	8.4	45
83	Twinning in magnesium-based lamellar microstructures. <i>Scripta Materialia</i> , 2012 , 67, 704-707	5.6	44
82	Effect of martensite volume fraction on low cycle fatigue behaviour of dual phase steels: Experimental and microstructural investigation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 638, 296-304	5.3	43
81	Influence of cooling rate on the microstructure and corrosion behavior of AlBe alloys. <i>Corrosion Science</i> , 2015 , 100, 396-403	6.8	43
80	Processing and properties of Mg ₉₅ Gd ₁ Zn _{0.6} Zr. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 3659-3665	5.3	43
79	Role of microstructure in the low cycle fatigue of multi-phase steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 534, 288-296	5.3	42
78	Influence of microstructure on strain distribution in Mg ₉₅ Al ₁ Zn. <i>Scripta Materialia</i> , 2007 , 57, 1125-1128	5.6	42
77	The effect of low cycle fatigue, ratcheting and mean stress relaxation on stress-strain response and microstructural development in a dual phase steel. <i>International Journal of Fatigue</i> , 2015 , 80, 341-348	5.5	41
76	Deformation mechanisms in Mg alloys and the challenge of extending room-temperature plasticity. <i>Jom</i> , 2009 , 61, 19-24	2.1	41
75	Processing and properties of Mg ₉₅ Gd ₁ Zn _{0.6} Zr: Part 1 Recrystallisation and texture development. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 3653-3658	5.3	37
74	The Effect of Mn-rich Precipitates on the Strength of AZ31 Extrudates. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 4830-4843	2.3	35
73	Effect of Si on the reversibility of stress-induced martensite in Fe ₅₀ Mn ₅₀ Bi shape memory alloys. <i>Acta Materialia</i> , 2010 , 58, 6752-6762	8.4	33
72	General trends between solute segregation tendency and grain boundary character in aluminum - An ab initio study. <i>Acta Materialia</i> , 2018 , 158, 257-268	8.4	32
71	Re-examination of the effect of NbC precipitation on shape memory in Fe ₅₀ Mn ₅₀ Bi-based alloys. <i>Scripta Materialia</i> , 2008 , 58, 583-586	5.6	32
70	Correlation of tensile test properties with those predicted by the shear punch test. <i>Materials & Design</i> , 2013 , 47, 258-266		30

69	Crystallographic variant selection in Brass. <i>Acta Materialia</i> , 2005 , 53, 859-867	8.4	30
68	Strength and biaxial formability of cryo-rolled 2024 aluminium subject to concurrent recovery and precipitation. <i>Acta Materialia</i> , 2013 , 61, 5278-5289	8.4	29
67	Observation of {1121} twinning in a Mg-based alloy. <i>Philosophical Magazine Letters</i> , 2008 , 88, 379-386	1	29
66	Effect of NbC and TiC precipitation on shape memory in an iron-based alloy. <i>Journal of Materials Science</i> , 2006 , 41, 4883-4891	4.3	27
65	Quantitative examination of carbide and sulphide precipitates in chemically complex steels processed by direct strip casting. <i>Materials Characterization</i> , 2016 , 112, 259-268	3.9	24
64	Effect of deformation on microstructure and mechanical properties of dual phase steel produced via strip casting simulation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 651, 291-305	5.3	23
63	Atom Probe Tomography of Solute Distributions in Mg-Based Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2009 , 40, 2480-2487	2.3	23
62	Effect of Alloying Additions on the SFE, Neel Temperature and Shape Memory Effect in Fe-Mn-Si-based Alloys. <i>ISIJ International</i> , 2007 , 47, 883-889	1.7	22
61	Austenite stability in FeMnSi-based shape memory alloys. <i>Journal of Alloys and Compounds</i> , 2007 , 430, 107-115	5.7	22
60	Deformation and annealing of (011)[011] oriented Al single crystals. <i>Acta Materialia</i> , 2003 , 51, 665-676	8.4	22
59	Quantification of precipitate hardening of twin nucleation and growth in Mg and Mg-5Zn using micro-pillar compression. <i>Acta Materialia</i> , 2019 , 163, 68-77	8.4	21
58	The role of shear banding on the fatigue ductility of ultrafine-grained aluminium. <i>Scripta Materialia</i> , 2013 , 68, 269-272	5.6	20
57	Effect of coiling treatment on microstructural development and precipitate strengthening of a strip cast steel. <i>Acta Materialia</i> , 2016 , 115, 167-177	8.4	19
56	The formation of randomly textured magnesium alloy sheet through rapid solidification. <i>Acta Materialia</i> , 2010 , 58, 3642-3654	8.4	19
55	In-situ observations of phase transformations in titanium. <i>Jom</i> , 2006 , 58, 67-69	2.1	19
54	Formability of cryo-rolled aluminium in uniaxial and biaxial tension. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 555, 148-153	5.3	18
53	Effect of martensite morphology on low cycle fatigue behaviour of dual phase steels: Experimental and microstructural investigation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 644, 53-60	5.3	17
52	Effect of orientation stability on recrystallization textures of deformed aluminium single crystals. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 348, 154-162	5.3	17

51	Rapid synthesis of Bi and Sb sulfides using electric discharge assisted mechanical milling. <i>Journal of Alloys and Compounds</i> , 2008 , 455, 285-288	5.7	16
50	Shear bands evolution in ultrafine-grained aluminium under cyclic loading. <i>Scripta Materialia</i> , 2013 , 68, 821-824	5.6	15
49	Static recrystallization of strip cast alloys in the presence of complex nano-sulfide and nitride precipitates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 581, 39-47	5.3	15
48	Effect of hot working on dynamic recrystallisation study of as-cast austenitic stainless steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 556, 685-695	5.3	15
47	Na Partitioning During Thermomechanical Processing of an Mg-Sn-Zn-Na Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 5216-5225	2.3	14
46	Effect of second-phase particles on shape memory in FeMnBi-based alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 454-455, 407-413	5.3	14
45	Suppression of Ms temperature by carbon partitioning from carbon-supersaturated ferrite to metastable austenite during intercritical annealing. <i>Materials & Design</i> , 2013 , 51, 409-414		12
44	Effect of Cooling Rate on Phase Transformations in a High-Strength Low-Alloy Steel Studied from the Liquid Phase. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 5561-5571	2.3	12
43	A critical assessment of work hardening in TWIP steels through micropillar compression. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 696, 42-51	5.3	11
42	Austenite plasticity mechanisms and their behavior during cyclic loading. <i>International Journal of Fatigue</i> , 2018 , 106, 185-195	5	11
41	Grain Refinement of an Extruded Mg Alloy via Na Microalloying. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 2466-2469	2.3	9
40	Optimization of Alloy Design and Hot Rolling Conditions for Shape Memory in FeMnBi-based Alloys. <i>ISIJ International</i> , 2006 , 46, 1703-1711	1.7	9
39	The Martensitic Transformation Texture in Ti-6Al-4V. <i>Materials Science Forum</i> , 2005 , 495-497, 669-674	0.4	9
38	Observations using atomic force microscopy of surface-relief associated with deformation in cube-oriented single crystals. <i>Scripta Materialia</i> , 2001 , 44, 941-946	5.6	9
37	Reduction of PbS and Sb ₂ S ₃ with elemental Fe and Mg in dusty plasma environment created during electrical discharge assisted mechanical milling (EDAMM). <i>Journal of Alloys and Compounds</i> , 2009 , 467, 477-484	5.7	8
36	Martensitic surface relief in an FeMnBi-based alloy strained by bending. <i>Scripta Materialia</i> , 2005 , 53, 739-744	5.6	8
35	Effect of molybdenum on phase transformation and microstructural evolution of strip cast steels containing niobium. <i>Journal of Materials Science</i> , 2019 , 54, 1769-1784	4.3	8
34	Complex precipitation phenomena in strip cast steels with high sulfur and copper contents. <i>Journal of Applied Crystallography</i> , 2016 , 49, 1777-1785	3.8	7

33	Local topology and its effects on grain boundary and solute segregation in HCP magnesium. <i>Materialia</i> , 2019 , 6, 100258	3.2	7
32	Anisotropic compressive behaviour of turbostratic graphite in carbon fibre. <i>Applied Materials Today</i> , 2017 , 9, 196-203	6.6	6
31	Recrystallisation of Magnesium Alloys Containing Rare-Earth Elements. <i>Materials Science Forum</i> , 2013 , 753, 297-300	0.4	6
30	Solidification Behaviour and Microstructural Development of Iron-based Alloys under Conditions Pertinent to Strip Casting 200 Series Stainless Steels. <i>ISIJ International</i> , 2013 , 53, 2152-2159	1.7	6
29	The electronic origins of the "rare earth" texture effect in magnesium alloys. <i>Scientific Reports</i> , 2021 , 11, 14159	4.9	6
28	The effect of molybdenum on clustering and precipitation behaviour of strip-cast steels containing niobium. <i>Materialia</i> , 2019 , 8, 100462	3.2	5
27	Emerging Hot Topics and Research Questions in Wrought Magnesium Alloy Development. <i>Jom</i> , 2020 , 72, 2561-2567	2.1	5
26	Enhanced strength-ductility of medium Mn steel by quenching, partitioning and tempering. <i>Materials Science and Technology</i> , 2020 , 36, 584-597	1.5	5
25	Static recrystallisation of steels produced by direct strip casting – The effect of carbon and vanadium concentration. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 671, 147-157	5.3	5
24	Castability and Microstructural Development of Iron-based Alloys under Conditions Pertinent to Strip Casting – Specialty Fe-Cr-Al Alloys. <i>ISIJ International</i> , 2013 , 53, 1803-1811	1.7	5
23	Martensite/particle interactions and the shape memory effect in an Fe-Mn-Bi-based alloy. <i>Journal of Materials Science</i> , 2007 , 42, 4334-4343	4.3	5
22	Characterisation of NiTi thin films produced by filtered arc deposition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 473, 172-179	5.3	5
21	The contrasting fracture behaviour of twin boundaries and general boundaries – A first principles study based on experimental observation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 781, 139225	5.3	5
20	A critical assessment of deformation twinning and epsilon martensite formation in austenitic alloys during complex forming operations. <i>Materials Characterization</i> , 2018 , 145, 423-434	3.9	5
19	The Microstructure, Antimicrobial Properties, and Corrosion Resistance of Cu-Bearing Strip Cast Steel. <i>Advanced Engineering Materials</i> , 2020 , 22, 1901265	3.5	4
18	The Effect of Nb Micro-alloying on the Bainitic Phase Transformation Under Strip Casting Conditions. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018 , 49, 1021-1025	2.3	4
17	Static recrystallisation study of as-cast austenitic stainless steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 576, 118-125	5.3	4
16	Cryo-Rolling and Formability of 2024 Aluminium. <i>Materials Science Forum</i> , 2013 , 765, 434-438	0.4	4

15	The effect of molybdenum on interphase precipitation at 700°C in a strip-cast low-carbon niobium steel. <i>Materials Characterization</i> , 2020 , 166, 110444	3.9	3
14	Atomic Scale Simulation of Deformation in Magnesium Single Crystals. <i>Materials Science Forum</i> , 2010 , 638-642, 1585-1590	0.4	3
13	Rapid synthesis of TiC/Be ₃ C composite by electric discharge assisted mechanical milling of ilmenite (FeTiO ₃) with graphite. <i>Journal of Alloys and Compounds</i> , 2008 , 459, 498-500	5.7	3
12	The Effect of Molybdenum on Precipitation Behaviour in Austenite of Strip-Cast Steels Containing Niobium. <i>Metals</i> , 2020 , 10, 1330	2.3	2
11	Wetting Behavior and Evolution of Microstructure of Sn ₃ .5Ag Solder Alloy on Electroplated 304 Stainless Steel Substrates. <i>Transactions of the Indian Institute of Metals</i> , 2012 , 65, 713-717	1.2	2
10	Recrystallization Kinetic Behavior of Copper-Bearing Strip Cast Steel. <i>Steel Research International</i> , 2013 , 84, 1273-1280	1.6	2
9	Oxygenation of conducting polymers facilitated by structure-breaking anions. <i>Journal of Polymer Science</i> , 2021 , 59, 745-753	2.4	2
8	Rapid Formation of Diamond-Like Nano-Carbons in a Gas Bubble Discharge in Liquid Ethanol. <i>Plasma Chemistry and Plasma Processing</i> , 2018 , 38, 75-87	3.6	2
7	Effect of quenching temperature on reversible martensitic transformation in a Cu ₃ AlBe alloy. <i>Philosophical Magazine Letters</i> , 2007 , 87, 483-492	1	1
6	Grain boundary kinetics in magnesium alloys from first principles. <i>Computational Materials Science</i> , 2021 , 111042	3.2	1
5	Influence of Coiling on Microstructural Evolution and Mechanical Properties of Strip-Cast Low-Carbon Low-Niobium Steel. <i>Materials Science Forum</i> , 2016 , 879, 1182-1187	0.4	0
4	Fine Grained AZ31 by Conventional Thermo-Mechanical Processing. <i>Materials Science Forum</i> , 2009 , 618-619, 239-244	0.4	
3	The microstructure of high manganese TWIP steels produced via simulated direct strip casting. <i>Materials Science and Technology</i> , 2022 , 38, 30-38	1.5	
2	The Effect of Direct Strip Casting on the Kinetics of Phase Transformation of a Dual Phase Steel. <i>Metals</i> , 2022 , 12, 170	2.3	
1	The Energetics and Topology of Grain Boundaries in Magnesium: An Ab Initio Study 2022 , 1, 15-30		