

Nicole Ellen Stanford

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/3975001/nicole-ellen-stanford-publications-by-year.pdf>

Version: 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

122
papers

6,139
citations

43
h-index

76
g-index

124
ext. papers

7,050
ext. citations

4.8
avg, IF

6.44
L-index

#	Paper	IF	Citations
122	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	
121	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	
120	The Energetics and Topology of Grain Boundaries in Magnesium: An Ab Initio Study 2022 , 1, 15-30		
119	Grain boundary kinetics in magnesium alloys from first principles. <i>Computational Materials Science</i> , 2021 , 111042	3.2	1
118	Oxygenation of conducting polymers facilitated by structure-breaking anions. <i>Journal of Polymer Science</i> , 2021 , 59, 745-753	2.4	2
117	The electronic origins of the "rare earth" texture effect in magnesium alloys. <i>Scientific Reports</i> , 2021 , 11, 14159	4.9	6
116	The Effect of Molybdenum on Precipitation Behaviour in Austenite of Strip-Cast Steels Containing Niobium. <i>Metals</i> , 2020 , 10, 1330	2.3	2
115	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
114	Emerging Hot Topics and Research Questions in Wrought Magnesium Alloy Development. <i>Jom</i> , 2020 , 72, 2561-2567	2.1	5
113	The Microstructure, Antimicrobial Properties, and Corrosion Resistance of Cu-Bearing Strip Cast Steel. <i>Advanced Engineering Materials</i> , 2020 , 22, 1901265	3.5	4
112	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
111	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
110	The effect of molybdenum on clustering and precipitation behaviour of strip-cast steels containing niobium. <i>Materialia</i> , 2019 , 8, 100462	3.2	5
109	Local topology and its effects on grain boundary and solute segregation in HCP magnesium. <i>Materialia</i> , 2019 , 6, 100258	3.2	7
108	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
107	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
106	Magnesium extrusion alloys: a review of developments and prospects. <i>International Materials Reviews</i> , 2019 , 64, 27-62	16.1	165

105	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
104	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
103	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
102	Effect of hot isostatic pressing on the microstructure and mechanical properties of additive manufactured AlxCoCrFeNi high entropy alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 733, 59-70	5.3	55
101	Austenite plasticity mechanisms and their behavior during cyclic loading. <i>International Journal of Fatigue</i> , 2018 , 106, 185-195	5	11
100	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
99	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
98	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
97	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
96	Understanding the mechanical behaviour and the large strength/ductility differences between FCC and BCC AlxCoCrFeNi high entropy alloys. <i>Journal of Alloys and Compounds</i> , 2017 , 726, 885-895	5.7	90
95	Anisotropic compressive behaviour of turbostratic graphite in carbon fibre. <i>Applied Materials Today</i> , 2017 , 9, 196-203	6.6	6
94	Tension/compression asymmetry in additive manufactured face centered cubic high entropy alloy. <i>Scripta Materialia</i> , 2017 , 129, 30-34	5.6	76
93	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
92	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
91	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
90	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
89	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
88	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

87	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
86	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	5.3	41
85	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
84	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
83	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
82	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
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	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
79	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
78	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
77	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
76	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
75	Correlation of tensile test properties with those predicted by the shear punch test. <i>Materials & Design</i> , 2013 , 47, 258-266		30
74	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
73	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
72	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
71	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
70	Plastic relaxation of the internal stress induced by twinning. <i>Acta Materialia</i> , 2013 , 61, 7859-7867	8.4	62

69	Solute strengthening of prismatic slip, basal slip and {101 $\bar{1}$ 2} twinning in Mg and MgZn binary alloys. <i>International Journal of Plasticity</i> , 2013 , 47, 165-181	7.6	157
68	The effect of rare earth elements on the behaviour of magnesium-based alloys: Part 2 \square recrystallisation and texture development. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 565, 469-475	5.3	72
67	The effect of rare earth elements on the behaviour of magnesium-based alloys: Part 1 \square Hot deformation behaviour. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 565, 459-468	5.3	52
66	Quantitative measurement of strain partitioning and slip systems in a dual-phase steel. <i>Scripta Materialia</i> , 2013 , 69, 13-16	5.6	74
65	Shear bands evolution in ultrafine-grained aluminium under cyclic loading. <i>Scripta Materialia</i> , 2013 , 68, 821-824	5.6	15
64	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
63	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
62	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
61	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
60	The role of shear banding on the fatigue ductility of ultrafine-grained aluminium. <i>Scripta Materialia</i> , 2013 , 68, 269-272	5.6	20
59	Cryo-Rolling and Formability of 2024 Aluminium. <i>Materials Science Forum</i> , 2013 , 765, 434-438	0.4	4
58	Recrystallisation of Magnesium Alloys Containing Rare-Earth Elements. <i>Materials Science Forum</i> , 2013 , 753, 297-300	0.4	6
57	Recrystallization Kinetic Behavior of Copper-Bearing Strip Cast Steel. <i>Steel Research International</i> , 2013 , 84, 1273-1280	1.6	2
56	Castability and Microstructural Development of Iron-based Alloys under Conditions Pertinent to Strip Casting \square Specialty FeCrAl Alloys. <i>ISIJ International</i> , 2013 , 53, 1803-1811	1.7	5
55	Solidification Behaviour and Microstructural Development of Iron-based Alloys under Conditions Pertinent to Strip Casting \square 200 Series Stainless Steels. <i>ISIJ International</i> , 2013 , 53, 2152-2159	1.7	6
54	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
53	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
52	Wetting Behavior and Evolution of Microstructure of Sn3.5Ag Solder Alloy on Electroplated 304 Stainless Steel Substrates. <i>Transactions of the Indian Institute of Metals</i> , 2012 , 65, 713-717	1.2	2

51	Twinning in magnesium-based lamellar microstructures. <i>Scripta Materialia</i> , 2012 , 67, 704-707	5.6	44
50	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
49	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
48	Solute segregation and texture modification in an extruded magnesium alloy containing gadolinium. <i>Scripta Materialia</i> , 2011 , 65, 919-921	5.6	162
47	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
46	Effect of precipitate shape on slip and twinning in magnesium alloys. <i>Acta Materialia</i> , 2011 , 59, 1945-1956	5.4	292
45	Deformation mechanisms and plastic anisotropy in magnesium alloy AZ31. <i>Acta Materialia</i> , 2011 , 59, 4866-4874	8.4	107
44	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
43	Atomic Scale Simulation of Deformation in Magnesium Single Crystals. <i>Materials Science Forum</i> , 2010 , 638-642, 1585-1590	0.4	3
42	The formation of randomly textured magnesium alloy sheet through rapid solidification. <i>Acta Materialia</i> , 2010 , 58, 3642-3654	8.4	19
41	Effect of Al and Gd Solutes 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
40	Texture selection mechanisms in uniaxially extruded magnesium alloys. <i>Scripta Materialia</i> , 2010 , 63, 721-724	5.4	68
39	Effect of particles in promoting twin nucleation in a Mg ₉₅ wt.% Zn alloy. <i>Scripta Materialia</i> , 2010 , 63, 823-826	5.6	103
38	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
37	The effect of calcium on the texture, microstructure and mechanical properties of extruded Mg ₉₅ Mn ₅ Ca alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 528, 314-322	5.3	103
36	Effect of Si on the reversibility of stress-induced martensite in Fe ₉₀ Mn ₁₀ Bi shape memory alloys. <i>Acta Materialia</i> , 2010 , 58, 6752-6762	8.4	33
35	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
34	Fine Grained AZ31 by Conventional Thermo-Mechanical Processing. <i>Materials Science Forum</i> , 2009 , 618-619, 239-244	0.4	

33	Deformation mechanisms in Mg alloys and the challenge of extending room-temperature plasticity. <i>Jom</i> , 2009 , 61, 19-24	2.1	41
32	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
31	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
30	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
29	Effect of composition on the texture and deformation behaviour of wrought Mg alloys. <i>Scripta Materialia</i> , 2008 , 58, 179-182	5.6	243
28	Re-examination of the effect of NbC precipitation on shape memory in FeMnBi-based alloys. <i>Scripta Materialia</i> , 2008 , 58, 583-586	5.6	32
27	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
26	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
25	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
24	Fine grained AZ31 produced by conventional thermo-mechanical processing. <i>Journal of Alloys and Compounds</i> , 2008 , 466, 182-188	5.7	50
23	Observation of {1121} twinning in a Mg-based alloy. <i>Philosophical Magazine Letters</i> , 2008 , 88, 379-386	1	29
22	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
21	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
20	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
19	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
18	Influence of microstructure on strain distribution in Mg ₉₂ Al ₇ Zn. <i>Scripta Materialia</i> , 2007 , 57, 1125-1128	5.6	42
17	Martensite/particle interactions and the shape memory effect in an FeMnBi-based alloy. <i>Journal of Materials Science</i> , 2007 , 42, 4334-4343	4.3	5
16	Effect of quenching temperature on reversible martensitic transformation in a CuAlBe alloy. <i>Philosophical Magazine Letters</i> , 2007 , 87, 483-492	1	1

15	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
14	Austenite stability in FeMnSi-based shape memory alloys. <i>Journal of Alloys and Compounds</i> , 2007 , 430, 107-115	5.7	22
13	In-situ observations of phase transformations in titanium. <i>Jom</i> , 2006 , 58, 67-69	2.1	19
12	Optimization of Alloy Design and Hot Rolling Conditions for Shape Memory in FeMnSi-based Alloys. <i>ISIJ International</i> , 2006 , 46, 1703-1711	1.7	9
11	Thermo-mechanical processing and the shape memory effect in an FeMnSi-based shape memory alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 422, 352-359	5.3	51
10	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
9	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
8	Crystallographic variant selection in Brass. <i>Acta Materialia</i> , 2005 , 53, 859-867	8.4	30
7	Martensitic surface relief in an FeMnSi-based alloy strained by bending. <i>Scripta Materialia</i> , 2005 , 53, 739-744	5.6	8
6	The Martensitic Transformation Texture in Ti-6Al-4V. <i>Materials Science Forum</i> , 2005 , 495-497, 669-674	0.4	9
5	Seeding of single crystal superalloys: Role of seed melt-back on casting defects. <i>Scripta Materialia</i> , 2004 , 50, 159-163	5.6	47
4	Crystallographic variant selection in Ti-6Al-4V. <i>Acta Materialia</i> , 2004 , 52, 5215-5224	8.4	199
3	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
2	Deformation and annealing of (011)[011] oriented Al single crystals. <i>Acta Materialia</i> , 2003 , 51, 665-676	8.4	22
1	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