List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Slip activity during low-stress cold creep deformation in a near-α titanium alloy. Acta Materialia, 2022, 229, 117691.	7.9	22
2	Finite Element Modeling of Hot Compression Testing of Titanium Alloys. Journal of Materials Engineering and Performance, 2022, 31, 7160-7175.	2.5	2
3	Multi-dimensional study of the effect of early slip activity on fatigue crack initiation in a near-Î $\pm$ titanium alloy. Acta Materialia, 2022, 233, 117967.	7.9	24
4	Co-deformation and dynamic annealing effects on the texture development during alpha–beta processing of a model Zr-Nb alloy. Acta Materialia, 2021, 205, 116538.	7.9	14
5	Quantifying Processing Map Uncertainties by Modeling the Hot-Compression Behavior of a Zr-2.5Nb Alloy. , 2021, , 93-122.		1
6	The Effect of Loading Direction on Slip and Twinning in an Irradiated Zirconium Alloy. , 2021, , 233-261.		2
7	Understanding the role of local texture variation on slip activity in a two-phase titanium alloy. Acta Materialia, 2021, 216, 117111.	7.9	19
8	High-resolution digital image correlation study of the strain localization during loading of a shot-peened RR1000 nickel-based superalloy. Acta Materialia, 2021, 220, 117306.	7.9	11
9	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.	7.9	3
10	On the observation of annealing twins during simulating β-grain refinement in Ti–6Al–4V high deposition rate AM with in-process deformation. Acta Materialia, 2020, 186, 229-241.	7.9	33
11	The Ï"-plot, a multicomponent 1-D pole figure plot, to quantify the heterogeneity of plastic deformation. Materials Characterization, 2020, 160, 110114.	4.4	0
12	Initial plasticity stages in Mg alloys containing Long-Period Stacking Ordered phases using High Resolution Digital Image Correlation (HRDIC) and in-situ synchrotron radiation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 772, 138716	5.6	14
13	Measurement of local plastic strain during uniaxial reversed loading of nickel alloy 625. Materials Characterization, 2020, 168, 110561.	4.4	8
14	Microscopic strain localisation in WAAM Ti-6Al-4V during uniaxial tensile loading. MATEC Web of Conferences, 2020, 321, 03008.	0.2	2
15	The effect of solid solution and gamma prime on the deformation modes in Ni-based superalloys. Acta Materialia, 2020, 194, 257-275.	7.9	57
16	Slip band characteristics in the presence of grain boundaries in nickel-based superalloy. Acta Materialia, 2020, 193, 229-238.	7.9	27
17	Microstructure evolution and deformation texture during rolling of TIMETALⓇ 407. Materialia, 2020, 9, 100596.	2.7	5
18	Comparison of sub-grain scale digital image correlation calculated using commercial and open-source software packages. Materials Characterization, 2020, 163, 110271.	4.4	17

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19	Element segregation and α2 formation in primary α of a near-α Ti-alloy. Materials Characterization, 2020, 164, 110327.	4.4	24
20	A statistical study of the relationship between plastic strain and lattice misorientation on the surface of a deformed Ni-based superalloy. Acta Materialia, 2020, 195, 555-570.	7.9	55
21	The effect of loading direction on strain localisation in wire arc additively manufactured Ti–6Al–4V. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 788, 139608.	5.6	20
22	Analysis of the Development of Abnormal Grains Structures During Beta Annealing of Ti-64 Wrought Products. MATEC Web of Conferences, 2020, 321, 12043.	0.2	3
23	Understanding strain localisation behaviour in a near-α Ti-alloy during initial loading below the yield stress. MATEC Web of Conferences, 2020, 321, 11039.	0.2	0
24	A detailed study of texture changes during alpha–beta processing of a zirconium alloy. Journal of Alloys and Compounds, 2019, 804, 65-83.	5.5	17
25	Identification of active slip mode in a hexagonal material by correlative scanning electron microscopy. Acta Materialia, 2019, 175, 376-393.	7.9	38
26	On the work hardening of titanium: new insights from nanoindentation. Journal of Materials Science, 2019, 54, 7961-7974.	3.7	32
27	Characterisation of irradiation enhanced strain localisation in a zirconium alloy. Materialia, 2019, 5, 100248.	2.7	26
28	Comparing local deformation measurements to predictions from crystal plasticity during reverse loading of an aerospace alloy. IOP Conference Series: Materials Science and Engineering, 2019, 580, 012028.	0.6	0
29	The effect of cold work on the transformation kinetics and texture of a zirconium alloy during fast thermal cycling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 746, 424-433.	5.6	9
30	On the ductility of alpha titanium: The effect of temperature and deformation mode. Acta Materialia, 2018, 149, 1-10.	7.9	39
31	Enabling high resolution strain mapping in zirconium alloys. Materials Characterization, 2018, 139, 355-363.	4.4	28
32	Quantification of strain localisation in a bimodal two-phase titanium alloy. Scripta Materialia, 2018, 145, 45-49.	5.2	36
33	Back-stresses and geometrical hardening as competing mechanisms enhancing ductility in HCP metals. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 729, 37-47.	5.6	9
34	Predicting the Flow Stress of Zircaloy-4 under In-Reactor Accident Conditions. , 2018, , 214-239.		2
35	Texture Development during Rolling of α + β Dual-Phase ZrNb Alloys. , 2018, , 151-179.		5
36	Effect of nanoscale α2 precipitation on strain localisation in a two-phase Ti-alloy. Acta Materialia, 2017, 129, 72-82.	7.9	75

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37	Discontinuous yielding in wrought magnesium. Computational Materials Science, 2017, 132, 81-91.	3.0	10
38	How magnesium accommodates local deformation incompatibility: A high-resolution digital image correlation study. Acta Materialia, 2017, 133, 367-379.	7.9	134
39	Measurement and modelling of textures in flow formed Cr-Mo-V steel tubes. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 685, 7-18.	5.6	12
40	Effect of pre-existing twinning on strain localization during deformation of a magnesium alloy. Materials Letters, 2017, 209, 94-96.	2.6	14
41	Microscopic strain localisation in Ti-6Al-4V during uniaxial tensile loading. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 680, 444-453.	5.6	52
42	The effect of loading direction and Sn alloying on the deformation modes of Zr: An in-situ neutron diffraction study. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 650, 497-509.	5.6	13
43	An evaluation of diffraction peak profile analysis (DPPA) methods to study plastically deformed metals. Materials and Design, 2016, 111, 331-343.	7.0	19
44	The effect of aluminium on twinning in binary alpha-titanium. Acta Materialia, 2016, 103, 341-351.	7.9	126
45	Understanding the Limits of Lattice Orientation Data Analysis in Environmental Degradation Studies. , 2016, , 2321-2333.		0
46	The kinematics of deformation and the development of substructure in the particle deformation zone. IOP Conference Series: Materials Science and Engineering, 2015, 89, 012012.	0.6	10
47	An experimental study of the polycrystalline plasticity of austenitic stainless steel. International Journal of Plasticity, 2015, 74, 92-109.	8.8	154
48	Microstructure and texture evolution during thermomechanical processing of β-quenched Zr. Acta Materialia, 2015, 88, 389-401.	7.9	24
49	Grain Breakup During Elevated Temperature Deformation of an HCP Metal. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 2143-2156.	2.2	22
50	Effects of flow forming parameters on the development of residual stresses in Cr–Mo–V steel tubes. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 624, 193-202.	5.6	18
51	Influence of Sn on Deformation Mechanisms During Room Temperature Compression of Binary Zr–Sn Alloys. , 2015, , 138-158.		0
52	Characterization of abnormal grain coarsening in Alloy 718. MATEC Web of Conferences, 2014, 14, 07004.	0.2	6
53	Modeling Twin Clustering and Strain Localization in Hexagonal Close-Packed Metals. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 5883-5890.	2.2	10
54	Deformation path effects on the internal stress development in cold worked austenitic steel deformed in tension. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 614, 326-337.	5.6	9

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55	High-temperature deformation mechanisms in a polycrystalline nickel-base superalloy studied by neutron diffraction and electron microscopy. Acta Materialia, 2014, 74, 18-29.	7.9	75
56	Peak broadening anisotropy in deformed face-centred cubic and hexagonal close-packed alloys. Journal of Applied Crystallography, 2014, 47, 1535-1551.	4.5	12
57	Influence of orientation on twin nucleation and growth at low strains in a magnesium alloy. Acta Materialia, 2014, 80, 380-391.	7.9	89
58	Comparison between a near-field and a far-field indexing approach for characterization of a polycrystalline sample volume containing more than 1500 grains. Journal of Applied Crystallography, 2014, 47, 1402-1416.	4.5	17
59	Modelling the effect of elastic and plastic anisotropies on stresses at grain boundaries. International Journal of Plasticity, 2014, 61, 49-63.	8.8	56
60	Plastic Strain Mapping with Sub-micron Resolution Using Digital Image Correlation. Experimental Mechanics, 2013, 53, 743-754.	2.0	192
61	Three-dimensional observation and image-based modelling of thermal strains in polycrystalline alumina. Acta Materialia, 2013, 61, 7521-7533.	7.9	18
62	Study of Lüders phenomena in reactor pressure vessel steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 588, 151-166.	5.6	19
63	The effect of β grain coarsening on variant selection and texture evolution in a near-β Ti alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 576, 272-279.	5.6	33
64	The effect of γ′ size and alloy chemistry on dynamic strain ageing in advanced polycrystalline nickel base superalloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 573, 54-61.	5.6	23
65	The effect of $\hat{I}^2$ phase on microstructure and texture evolution during thermomechanical processing of $\hat{I}_{\pm}$ + $\hat{I}^2$ Ti alloy. Acta Materialia, 2013, 61, 3200-3213.	7.9	77
66	Measurement of Strain and Lattice Rotation in the Particle Deformation Zone. Materials Science Forum, 2013, 753, 21-24.	0.3	0
67	Effects of martensite development on lattice strain evolution during the in situ deformation of austenitic stainless steels at cryogenic temperatures. Journal of Strain Analysis for Engineering Design, 2013, 48, 306-312.	1.8	4
68	Texture and Microstructure Evolution of a Zirconium Alloy During Uniaxial Compression at 500°C. Materials Science Forum, 2013, 753, 42-45.	0.3	1
69	Effect of strain paths and residual delta ferrite on the failure of cold rolled austenitic stainless steels, type 304L. Journal of Strain Analysis for Engineering Design, 2013, 48, 410-419.	1.8	4
70	The influence of rolling temperature on texture evolution and variant selection during α → β → α phase transformation in Ti–6Al–4V. Acta Materialia, 2012, 60, 6013-6024.	7.9	77
71	Deformation behaviour of an advanced nickel-based superalloy studied by neutron diffraction and electron microscopy. Acta Materialia, 2012, 60, 6829-6841.	7.9	82
72	In situ neutron diffraction study of texture evolution and variant selection during the α → β → α phase transformation in Ti–6Al–4V. Acta Materialia, 2012, 60, 7169-7182.	7.9	50

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73	Effect of β grain growth on variant selection and texture memory effect during α→β→α phase transformation in Ti–6 Al–4 V. Acta Materialia, 2012, 60, 1048-1058.	7.9	142
74	Macro and intergranular stress responses of austenitic stainless steel to 90° strain path changes. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 546, 263-271.	5.6	24
75	Texture Evolution of Zircaloy-2 During Beta-Quenching: Effect of Process Variables. , 2012, , 176-194.		0
76	Texture Evolution of Zircaloy-2 During Beta-Quenching: Effect of Process Variables. , 2012, , 176-194.		0
77	Predictionoftheoverallbehaviorofa3DmicrostructureofausteniticsteelbyusingFFTnumericalscheme. Procedia Engineering, 2011, 10, 1883-1888.	1.2	8
78	Deformation twinning in Ti-6Al-4V during low strain rate deformation to moderate strains at room temperature. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 5734-5744.	5.6	95
79	Twinning in structural material with a hexagonal close-packed crystal structure. Journal of Strain Analysis for Engineering Design, 2010, 45, 377-390.	1.8	23
80	Capturing the texture changes in a zirconium alloy during the allotropic phase transformation. Scripta Materialia, 2009, 61, 399-402.	5.2	27
81	Texture memory and variant selection during phase transformation of a zirconium alloy. Acta Materialia, 2009, 57, 5501-5511.	7.9	104
82	Towards Modelling Intergranular Stress-Corrosion Cracks Using Experimentally Obtained Grain Topologies. , 2009, , .		3
83	Determination and Interpretation of Texture Evolution during Deformation of a Zirconium Alloy. , 2009, , 550-563.		5
84	Grain-Scale Heterogeneity Effect on Mechanistic Modelling of Cleavage Fracture of a Ferritic RPV Steel Forging Material. , 2008, , .		0
85	Determination and Interpretation of Texture Evolution during Deformation of a Zirconium Alloy. Journal of ASTM International, 2008, 5, 1-14.	0.2	3
86	Measurement and modelling of residual stress effects on cracks. Fatigue and Fracture of Engineering Materials and Structures, 2007, 30, 243-257.	3.4	11
87	Assessing the Effect of Intrinsic Microscale Heterogeneity on Brittle Fracture of a Ferritic Steel. , 2007, , .		Ο
88	Evolution of intergranular stresses during in situ straining of IF steel with different grain sizes. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 437, 26-32.	5.6	45
89	Measuring and Predicting the Effects of Residual Stresses on Crack Propagation. Materials Science Forum, 2006, 524-525, 77-82.	0.3	4
90	Full-field strain mapping by optical correlation of micrographs acquired during deformation. Journal of Microscopy, 2005, 218, 9-21.	1.8	137

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91	Evolution of Internal Stresses during the Plastic Deformation of IF Steel and Their Correlation with Crystal Orientation. Materials Science Forum, 2005, 495-497, 1055-1060.	0.3	2
92	Intergranular Stress Evolution in Titanium Studied by Neutron Diffraction and Self-consistent Modelling. Journal of Neutron Research, 2004, 12, 33-37.	1.1	16
93	Local Strain Imaging during Mechanical Loading of Lamellar Microstructures in Titanium Based Alloys. Applied Mechanics and Materials, 2004, 1-2, 159-164.	0.2	0
94	Mechanical Property Mapping Using Image Correlation and Electronic Speckle Interferometry. Applied Mechanics and Materials, 2004, 1-2, 147-152.	0.2	3
95	Residual Stresses in Linear Friction Welded IMI550. Journal of Neutron Research, 2004, 12, 165-173.	1.1	23
96	Synchrotron diffraction investigation of the distribution and influence of residual stresses in fatigue. Fatigue and Fracture of Engineering Materials and Structures, 2004, 27, 609-622.	3.4	32
97	Texture development in the cold rolling of IF steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 380, 365-377.	5.6	61
98	Image Processing Issues in Digital Strain Mapping. , 2002, , .		19
99	Microyielding Effects in High-Volume-Fraction MMCs. Advanced Engineering Materials, 2001, 3, 913.	3.5	1
100	Local Plastic Strain Measurement by EBSD. Applied Mechanics and Materials, 0, 7-8, 173-179.	0.2	43
101	Intergranular Strains in Pre-Strained and Welded Pipes. Materials Science Forum, 0, 652, 13-18.	0.3	1
102	The Effect of Lattice Misfit on Deformation Mechanisms at High Temperature. Advanced Materials Research, 0, 278, 144-149.	0.3	12
103	<i>In Situ</i> Observation on the Influence of ß Grain Growth on Texture Evolution during Phase Transformation in Ti-6A-4V. Materials Science Forum, 0, 702-703, 854-857.	0.3	1
104	<i>In-Situ</i> Observation and Modelling of Intergranular Cracking in Polycrystalline Alumina. Key Engineering Materials, 0, 465, 560-563.	0.4	1
105	Influence of Temperature upon the Texture Evolution and Mechanical Behaviour of Zircaloy-4. Materials Science Forum, 0, 702-703, 834-837.	0.3	0
106	The Effect of Aluminium on Deformation and Twinning in Alpha Titanium: The 45° Case. Materials Science Forum, 0, 765, 549-553.	0.3	7
107	Constituent Particles and Dispersoids in an Al-Mn-Fe-Si Alloy Studied in Three-Dimensions by Serial Sectioning. Materials Science Forum, 0, 765, 451-455.	0.3	2
108	Texture Formation in Flow Formed Ferritic Steel Tubes and the Influence of the Process Parameters. Materials Science Forum, 0, 783-786, 2602-2607.	0.3	4