Joo Quinta da Fonseca

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114
papers2,130
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#	Paper	IF	Citations
114	Plastic Strain Mapping with Sub-micron Resolution Using Digital Image Correlation. <i>Experimental Mechanics</i> , 2013 , 53, 743-754	2.6	150
113	Full-field strain mapping by optical correlation of micrographs acquired during deformation. <i>Journal of Microscopy</i> , 2005 , 218, 9-21	1.9	127
112	An experimental study of the polycrystalline plasticity of austenitic stainless steel. <i>International Journal of Plasticity</i> , 2015 , 74, 92-109	7.6	120
111	Effect of ြgrain growth on variant selection and texture memory effect during பெரும் base transformation in TiB All V. <i>Acta Materialia</i> , 2012 , 60, 1048-1058	8.4	106
110	Texture memory and variant selection during phase transformation of a zirconium alloy. <i>Acta Materialia</i> , 2009 , 57, 5501-5511	8.4	92
109	The effect of aluminium on twinning in binary alpha-titanium. Acta Materialia, 2016, 103, 341-351	8.4	88
108	How magnesium accommodates local deformation incompatibility: A high-resolution digital image correlation study. <i>Acta Materialia</i> , 2017 , 133, 367-379	8.4	84
107	Deformation twinning in Ti-6Al-4V during low strain rate deformation to moderate strains at room temperature. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> 2010 , 527, 5734-5744	5.3	77
106	Influence of orientation on twin nucleation and growth at low strains in a magnesium alloy. <i>Acta Materialia</i> , 2014 , 80, 380-391	8.4	73
105	High-temperature deformation mechanisms in a polycrystalline nickel-base superalloy studied by neutron diffraction and electron microscopy. <i>Acta Materialia</i> , 2014 , 74, 18-29	8.4	59
104	The effect of Iphase on microstructure and texture evolution during thermomechanical processing of ⊞ITi alloy. <i>Acta Materialia</i> , 2013 , 61, 3200-3213	8.4	59
103	The influence of rolling temperature on texture evolution and variant selection during temperature evolution and temperature evolution evol	8.4	56
102	Deformation behaviour of an advanced nickel-based superalloy studied by neutron diffraction and electron microscopy. <i>Acta Materialia</i> , 2012 , 60, 6829-6841	8.4	53
101	Texture development in the cold rolling of IF steel. <i>Materials Science & Discourse Amp; Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> 2004 , 380, 365-377	5.3	53
100	Effect of nanoscale ⊉ precipitation on strain localisation in a two-phase Ti-alloy. <i>Acta Materialia</i> , 2017 , 129, 72-82	8.4	51
99	Modelling the effect of elastic and plastic anisotropies on stresses at grain boundaries. <i>International Journal of Plasticity</i> , 2014 , 61, 49-63	7.6	42
98	Microscopic strain localisation in Ti-6Al-4V during uniaxial tensile loading. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 680, 444-453	5.3	42

(2020-2012)

97	In situ neutron diffraction study of texture evolution and variant selection during the the hase transformation in TiBAlBV. <i>Acta Materialia</i> , 2012 , 60, 7169-7182	8.4	41
96	Evolution of intergranular stresses during in situ straining of IF steel with different grain sizes. Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 437, 26-32	5.3	41
95	On the ductility of alpha titanium: The effect of temperature and deformation mode. <i>Acta Materialia</i> , 2018 , 149, 1-10	8.4	26
94	The effect of Igrain coarsening on variant selection and texture evolution in a near-ITi alloy. Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 576, 272-279	5.3	25
93	Capturing the texture changes in a zirconium alloy during the allotropic phase transformation. <i>Scripta Materialia</i> , 2009 , 61, 399-402	5.6	25
92	Local Plastic Strain Measurement by EBSD. Applied Mechanics and Materials, 2007, 7-8, 173-179	0.3	25
91	Synchrotron diffraction investigation of the distribution and influence of residual stresses in fatigue. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2004 , 27, 609-622	3	23
90	The effect of solid solution and gamma prime on the deformation modes in Ni-based superalloys. <i>Acta Materialia</i> , 2020 , 194, 257-275	8.4	22
89	Twinning in structural material with a hexagonal close-packed crystal structure. <i>Journal of Strain Analysis for Engineering Design</i> , 2010 , 45, 377-390	1.3	22
88	Quantification of strain localisation in a bimodal two-phase titanium alloy. <i>Scripta Materialia</i> , 2018 , 145, 45-49	5.6	21
87	Macro and intergranular stress responses of austenitic stainless steel to 90\(\textit{0}\)strain path changes. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing , 2012, 546, 263-271	5.3	21
86	Residual Stresses in Linear Friction Welded IMI550. <i>Journal of Neutron Research</i> , 2004 , 12, 165-173	0.5	21
85	Identification of active slip mode in a hexagonal material by correlative scanning electron microscopy. <i>Acta Materialia</i> , 2019 , 175, 376-393	8.4	19
84	On the work hardening of titanium: new insights from nanoindentation. <i>Journal of Materials Science</i> , 2019 , 54, 7961-7974	4.3	19
83	Grain Breakup During Elevated Temperature Deformation of an HCP Metal. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 2143-2156	2.3	19
82	Microstructure and texture evolution during thermomechanical processing of Equenched Zr. <i>Acta Materialia</i> , 2015 , 88, 389-401	8.4	18
81	Enabling high resolution strain mapping in zirconium alloys. <i>Materials Characterization</i> , 2018 , 139, 355-3	63 9	18
80	A statistical study of the relationship between plastic strain and lattice misorientation on the surface of a deformed Ni-based superalloy. <i>Acta Materialia</i> , 2020 , 195, 555-570	8.4	18

79	On the observation of annealing twins during simulating Egrain refinement in TiBALBV high deposition rate AM with in-process deformation. <i>Acta Materialia</i> , 2020 , 186, 229-241	8.4	17
78	Study of Līders phenomena in reactor pressure vessel steels. <i>Materials Science & Discourse amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 588, 151-166	5.3	16
77	Image Processing Issues in Digital Strain Mapping 2002 ,		16
76	Intergranular Stress Evolution in Titanium Studied by Neutron Diffraction and Self-consistent Modelling. <i>Journal of Neutron Research</i> , 2004 , 12, 33-37	0.5	15
75	Effects of flow forming parameters on the development of residual stresses in CrMoV steel tubes. <i>Materials Science & A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 624, 193-202	5.3	14
74	An evaluation of diffraction peak profile analysis (DPPA) methods to study plastically deformed metals. <i>Materials and Design</i> , 2016 , 111, 331-343	8.1	14
73	Three-dimensional observation and image-based modelling of thermal strains in polycrystalline alumina. <i>Acta Materialia</i> , 2013 , 61, 7521-7533	8.4	14
72	The effect of 🛮 size and alloy chemistry on dynamic strain ageing in advanced polycrystalline nickel base superalloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 573, 54-61	5.3	13
71	Characterisation of irradiation enhanced strain localisation in a zirconium alloy. <i>Materialia</i> , 2019 , 5, 100	248	13
70	Comparison between a near-field and a far-field indexing approach for characterization of a polycrystalline sample volume containing more than 1500 grains. <i>Journal of Applied Crystallography</i> , 2014 , 47, 1402-1416	3.8	12
69	Effect of pre-existing twinning on strain localization during deformation of a magnesium alloy. <i>Materials Letters</i> , 2017 , 209, 94-96	3.3	12
68	Element segregation and 2 formation in primary b f a near- l Ti-alloy. <i>Materials Characterization</i> , 2020 , 164, 110327	3.9	12
67	Slip band characteristics in the presence of grain boundaries in nickel-based superalloy. <i>Acta Materialia</i> , 2020 , 193, 229-238	8.4	11
66	The effect of loading direction on strain localisation in wire arc additively manufactured TiBAlBV. <i>Materials Science & Materials Science & Microstructure and Processing</i> , 2020 , 788, 139608	5.3	11
65	Peak broadening anisotropy in deformed face-centred cubic and hexagonal close-packed alloys. Journal of Applied Crystallography, 2014 , 47, 1535-1551	3.8	10
64	Modeling Twin Clustering and Strain Localization in Hexagonal Close-Packed Metals. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 5883-5890	2.3	10
63	Comparison of sub-grain scale digital image correlation calculated using commercial and open-source software packages. <i>Materials Characterization</i> , 2020 , 163, 110271	3.9	9
62	Discontinuous yielding in wrought magnesium. <i>Computational Materials Science</i> , 2017 , 132, 81-91	3.2	8

61	The Effect of Lattice Misfit on Deformation Mechanisms at High Temperature. <i>Advanced Materials Research</i> , 2011 , 278, 144-149	0.5	8
60	Predictionoftheoverallbehaviorofa3DmicrostructureofausteniticsteelbyusingFFTnumericalscheme. <i>Procedia Engineering</i> , 2011 , 10, 1883-1888		8
59	The effect of loading direction and Sn alloying on the deformation modes of Zr: An in-situ neutron diffraction study. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 650, 497-509	5.3	8
58	Measurement and modelling of textures in flow formed Cr-Mo-V steel tubes. <i>Materials Science</i> & Structural Materials: Properties, Microstructure and Processing, 2017 , 685, 7-18	5.3	7
57	The kinematics of deformation and the development of substructure in the particle deformation zone. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015 , 89, 012012	0.4	7
56	Deformation path effects on the internal stress development in cold worked austenitic steel deformed in tension. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 614, 326-337	5.3	7
55	Measurement and modelling of residual stress effects on cracks. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2007 , 30, 243-257	3	7
54	The effect of cold work on the transformation kinetics and texture of a zirconium alloy during fast thermal cycling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 746, 424-433	5.3	7
53	A detailed study of texture changes during alphaBeta processing of a zirconium alloy. <i>Journal of Alloys and Compounds</i> , 2019 , 804, 65-83	5.7	6
52	Initial plasticity stages in Mg alloys containing Long-Period Stacking Ordered phases using High Resolution Digital Image Correlation (HRDIC) and in-situ synchrotron radiation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 772, 138716	5.3	6
51	Characterization of abnormal grain coarsening in Alloy 718. MATEC Web of Conferences, 2014, 14, 07004	10.3	5
50	The Effect of Aluminium on Deformation and Twinning in Alpha Titanium: The 45 th Case. <i>Materials Science Forum</i> , 2013 , 765, 549-553	0.4	5
49	Determination and Interpretation of Texture Evolution during Deformation of a Zirconium Alloy550-550	0-14	5
48	Texture Formation in Flow Formed Ferritic Steel Tubes and the Influence of the Process Parameters. <i>Materials Science Forum</i> , 2014 , 783-786, 2602-2607	0.4	4
47	Effect of strain paths and residual delta ferrite on the failure of cold rolled austenitic stainless steels, type 304L. <i>Journal of Strain Analysis for Engineering Design</i> , 2013 , 48, 410-419	1.3	4
46	Measuring and Predicting the Effects of Residual Stresses on Crack Propagation. <i>Materials Science Forum</i> , 2006 , 524-525, 77-82	0.4	4
45	Co-deformation and dynamic annealing effects on the texture development during alpha B eta processing of a model Zr-Nb alloy. <i>Acta Materialia</i> , 2021 , 205, 116538	8.4	4
44	Back-stresses and geometrical hardening as competing mechanisms enhancing ductility in HCP metals. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> 2018, 729, 37-47	5.3	4

43	Microstructure evolution and deformation texture during rolling of TIMETAL(R) 407. <i>Materialia</i> , 2020 , 9, 100596	3.2	3
42	Effects of martensite development on lattice strain evolution during the in situ deformation of austenitic stainless steels at cryogenic temperatures. <i>Journal of Strain Analysis for Engineering Design</i> , 2013 , 48, 306-312	1.3	3
41	Towards Modelling Intergranular Stress-Corrosion Cracks Using Experimentally Obtained Grain Topologies 2009 ,		3
40	Constituent Particles and Dispersoids in an Al-Mn-Fe-Si Alloy Studied in Three-Dimensions by Serial Sectioning. <i>Materials Science Forum</i> , 2013 , 765, 451-455	0.4	2
39	Mechanical Property Mapping Using Image Correlation and Electronic Speckle Interferometry. <i>Applied Mechanics and Materials</i> , 2004 , 1-2, 147-152	0.3	2
38	Slip activity during low-stress cold creep deformation in a near-Etitanium alloy. <i>Acta Materialia</i> , 2022 , 117691	8.4	2
37	Determination and Interpretation of Texture Evolution during Deformation of a Zirconium Alloy. Journal of ASTM International, 2008 , 5, 101255		2
36	Predicting the Flow Stress of Zircaloy-4 under In-Reactor Accident Conditions 2018 , 214-239		2
35	Analysis of the Development of Abnormal Grains Structures During Beta Annealing of Ti-64 Wrought Products. <i>MATEC Web of Conferences</i> , 2020 , 321, 12043	0.3	2
34	Measurement of local plastic strain during uniaxial reversed loading of nickel alloy 625. <i>Materials Characterization</i> , 2020 , 168, 110561	3.9	2
33	Microscopic strain localisation in WAAM Ti-6Al-4V during uniaxial tensile loading. <i>MATEC Web of Conferences</i> , 2020 , 321, 03008	0.3	2
32	Understanding the role of local texture variation on slip activity in a two-phase titanium alloy. <i>Acta Materialia</i> , 2021 , 216, 117111	8.4	2
31	High-resolution digital image correlation study of the strain localization during loading of a shot-peened RR1000 nickel-based superalloy. <i>Acta Materialia</i> , 2021 , 220, 117306	8.4	2
30	Texture and Microstructure Evolution of a Zirconium Alloy During Uniaxial Compression at 500°C. <i>Materials Science Forum</i> , 2013 , 753, 42-45	0.4	1
29	Modelling and Measurement of Plastic Deformation and Grain Rotation at the Grain-to-Grain Level 2011 , 107-112		1
28	Intergranular Strains in Pre-Strained and Welded Pipes. <i>Materials Science Forum</i> , 2010 , 652, 13-18	0.4	1
27	In Situ Observation on the Influence of Grain Growth on Texture Evolution during Phase Transformation in Ti-6A-4V. <i>Materials Science Forum</i> , 2011 , 702-703, 854-857	0.4	1
26	In-Situ Observation and Modelling of Intergranular Cracking in Polycrystalline Alumina. <i>Key Engineering Materials</i> , 2011 , 465, 560-563	0.4	1

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25	Evolution of Internal Stresses during the Plastic Deformation of IF Steel and Their Correlation with Crystal Orientation. <i>Materials Science Forum</i> , 2005 , 495-497, 1055-1060	0.4	1
24	Microyielding Effects in High-Volume-Fraction MMCs. Advanced Engineering Materials, 2001, 3, 913	3.5	1
23	Texture Development during Rolling of ⊕ Dual-Phase ZrNb Alloys 2018 , 151-179		1
22	Quantifying Processing Map Uncertainties by Modeling the Hot-Compression Behavior of a Zr-2.5Nb Alloy 2021 , 93-122		1
21	The Effect of Aluminium on Deformation and Twinning in Alpha Titanium: The ND Case 2016 , 1051-105	5	1
20	Slip Band Characterisation in Ti-6Al-4V with Varying Degrees of Macrozones 2016 , 1129-1134		1
19	Finite Element Modeling of Hot Compression Testing of Titanium Alloys. <i>Journal of Materials Engineering and Performance</i> ,1	1.6	1
18	The evolution of abnormally coarse grain structures in beta-annealed Ti-6Al%-4V% rolled plates, observed by in-situ investigation. <i>Acta Materialia</i> , 2021 , 221, 117362	8.4	О
17	The Effect of Loading Direction on Slip and Twinning in an Irradiated Zirconium Alloy 2021 , 233-261		О
16	Multi-dimensional study of the effect of early slip activity on fatigue crack initiation in a near-latical titanium alloy. <i>Acta Materialia</i> , 2022 , 233, 117967	8.4	О
15	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		
14	The Effect of Strain and Temperature Profiles on Static Recrystallization during Solution Heat Treatment After Hot Deformation of Alloy 718 2014 , 873-884		
13	Measurement of Strain and Lattice Rotation in the Particle Deformation Zone. <i>Materials Science Forum</i> , 2013 , 753, 21-24	0.4	
12	Influence of Temperature upon the Texture Evolution and Mechanical Behaviour of Zircaloy-4. <i>Materials Science Forum</i> , 2011 , 702-703, 834-837	0.4	
11	Local Strain Imaging during Mechanical Loading of Lamellar Microstructures in Titanium Based Alloys. <i>Applied Mechanics and Materials</i> , 2004 , 1-2, 159-164	0.3	
10	Assessment of Defects Under Combined Primary and Residual Stresses 2006 , 223-232		
9	Understanding strain localisation behaviour in a near—Ti-alloy during initial loading below the yield stress. <i>MATEC Web of Conferences</i> , 2020 , 321, 11039	0.3	
8	Influence of Sn on Deformation Mechanisms During Room Temperature Compression of Binary ZrBn Alloys 2015 , 138-158		

- Understanding the Limits of Lattice Orientation Data Analysis in Environmental Degradation Studies **2016**, 2321-2333
- 6 Texture Evolution of Zircaloy-2 During Beta-Quenching: Effect of Process Variables **2012**, 176-194
- 5 Texture Evolution of Zircaloy-2 During Beta-Quenching: Effect of Process Variables 2012, 176-194
- 4 Understanding the Limits of Lattice Orientation Data Analysis in Environmental Degradation Studies2321-2332
- The Eplot, a multicomponent 1-D pole figure plot, to quantify the heterogeneity of plastic deformation. *Materials Characterization*, **2020**, 160, 110114

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- 3D characterisation of early twin formation in Ti-4Al by diffraction contrast tomography **2016**, 1077-1082
- 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, 012028.4