Joo Quinta da Fonseca

List of Publications by Year in Descending Order

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

114 2,130 23 43 g-index

117 2,532 4.3 5.31 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
114	Slip activity during low-stress cold creep deformation in a near-Etitanium alloy. <i>Acta Materialia</i> , 2022 , 117691	8.4	2
113	Multi-dimensional study of the effect of early slip activity on fatigue crack initiation in a near-titanium alloy. <i>Acta Materialia</i> , 2022 , 233, 117967	8.4	0
112	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	O
111	Quantifying Processing Map Uncertainties by Modeling the Hot-Compression Behavior of a Zr-2.5Nb Alloy 2021 , 93-122		1
110	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
109	The Effect of Loading Direction on Slip and Twinning in an Irradiated Zirconium Alloy 2021 , 233-261		0
108	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
107	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
106	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
105	Slip band characteristics in the presence of grain boundaries in nickel-based superalloy. <i>Acta Materialia</i> , 2020 , 193, 229-238	8.4	11
104	Microstructure evolution and deformation texture during rolling of TIMETAL(R) 407. <i>Materialia</i> , 2020 , 9, 100596	3.2	3
103	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
102	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	
101	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
100	The effect of loading direction on strain localisation in wire arc additively manufactured TiBAlAV. Materials Science & Lamp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 788, 139608	5.3	11
99	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
98	On the observation of annealing twins during simulating Egrain refinement in TiBAlAV high deposition rate AM with in-process deformation. <i>Acta Materialia</i> , 2020 , 186, 229-241	8.4	17

97	The Eplot, a multicomponent 1-D pole figure plot, to quantify the heterogeneity of plastic deformation. <i>Materials Characterization</i> , 2020 , 160, 110114	3.9	
96	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
95	Measurement of local plastic strain during uniaxial reversed loading of nickel alloy 625. <i>Materials Characterization</i> , 2020 , 168, 110561	3.9	2
94	Microscopic strain localisation in WAAM Ti-6Al-4V during uniaxial tensile loading. <i>MATEC Web of Conferences</i> , 2020 , 321, 03008	0.3	2
93	Element segregation and ₹ formation in primary to f a near-tri-alloy. <i>Materials Characterization</i> , 2020 , 164, 110327	3.9	12
92	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
91	On the work hardening of titanium: new insights from nanoindentation. <i>Journal of Materials Science</i> , 2019 , 54, 7961-7974	4.3	19
90	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
89	Characterisation of irradiation enhanced strain localisation in a zirconium alloy. <i>Materialia</i> , 2019 , 5, 100	2 4.8	13
88	Comparing local deformation measurements to predictions from crystal plasticity during reverse loading of an aerospace alloy. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 580, 0120	28 ^{.4}	
87	The effect of cold work on the transformation kinetics and texture of a zirconium alloy during fast thermal cycling. <i>Materials Science & Discourse ing A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 746, 424-433	5.3	7
86	On the ductility of alpha titanium: The effect of temperature and deformation mode. <i>Acta Materialia</i> , 2018 , 149, 1-10	8.4	26
85	Enabling high resolution strain mapping in zirconium alloys. <i>Materials Characterization</i> , 2018 , 139, 355-	3 63 9	18
84	Quantification of strain localisation in a bimodal two-phase titanium alloy. <i>Scripta Materialia</i> , 2018 , 145, 45-49	5.6	21
83	Predicting the Flow Stress of Zircaloy-4 under In-Reactor Accident Conditions 2018, 214-239		2
82	Texture Development during Rolling of ⊕ Dual-Phase ZrNb Alloys 2018 , 151-179		1
81	Back-stresses and geometrical hardening as competing mechanisms enhancing ductility in HCP metals. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 729, 37-47	5.3	4
8o	Effect of nanoscale ⊉ precipitation on strain localisation in a two-phase Ti-alloy. <i>Acta Materialia</i> , 2017 , 129, 72-82	8.4	51

79	Discontinuous yielding in wrought magnesium. Computational Materials Science, 2017, 132, 81-91	3.2	8
78	How magnesium accommodates local deformation incompatibility: A high-resolution digital image correlation study. <i>Acta Materialia</i> , 2017 , 133, 367-379	8.4	84
77	Measurement and modelling of textures in flow formed Cr-Mo-V steel tubes. <i>Materials Science</i> & Samp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 685, 7-18	5.3	7
76	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
75	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
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	The effect of aluminium on twinning in binary alpha-titanium. Acta Materialia, 2016, 103, 341-351	8.4	88
7 ²	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		
71	Understanding the Limits of Lattice Orientation Data Analysis in Environmental Degradation Studies 2016 , 2321-2333		
70	The Effect of Aluminium on Deformation and Twinning in Alpha Titanium: The ND Case 2016 , 1051-10	55	1
7º 69	The Effect of Aluminium on Deformation and Twinning in Alpha Titanium: The ND Case 2016 , 1051-10 3D characterisation of early twin formation in Ti-4Al by diffraction contrast tomography 2016 , 1077-1		1
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69	3D characterisation of early twin formation in Ti-4Al by diffraction contrast tomography 2016 , 1077-1		
69 68	3D characterisation of early twin formation in Ti-4Al by diffraction contrast tomography 2016 , 1077-1 Slip Band Characterisation in Ti-6Al-4V with Varying Degrees of Macrozones 2016 , 1129-1134 The effect of loading direction and Sn alloying on the deformation modes of Zr: An in-situ neutron diffraction study. <i>Materials Science & Camp; Engineering A: Structural Materials: Properties</i> ,	082	1
69 68 67	3D characterisation of early twin formation in Ti-4Al by diffraction contrast tomography 2016 , 1077-1 Slip Band Characterisation in Ti-6Al-4V with Varying Degrees of Macrozones 2016 , 1129-1134 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 An experimental study of the polycrystalline plasticity of austenitic stainless steel. <i>International</i>	5-3	1 8
69 68 67 66	3D characterisation of early twin formation in Ti-4Al by diffraction contrast tomography 2016, 1077-1 Slip Band Characterisation in Ti-6Al-4V with Varying Degrees of Macrozones 2016, 1129-1134 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 An experimental study of the polycrystalline plasticity of austenitic stainless steel. <i>International Journal of Plasticity</i> , 2015, 74, 92-109 Microstructure and texture evolution during thermomechanical processing of Equenched Zr. <i>Acta</i>	5·3 7.6	1 8
69 68 67 66	3D characterisation of early twin formation in Ti-4Al by diffraction contrast tomography 2016, 1077-1 Slip Band Characterisation in Ti-6Al-4V with Varying Degrees of Macrozones 2016, 1129-1134 The effect of loading direction and Sn alloying on the deformation modes of Zr: An in-situ neutron diffraction study. <i>Materials Science & Degineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 650, 497-509 An experimental study of the polycrystalline plasticity of austenitic stainless steel. <i>International Journal of Plasticity</i> , 2015, 74, 92-109 Microstructure and texture evolution during thermomechanical processing of Equenched Zr. <i>Acta Materialia</i> , 2015, 88, 389-401 Grain Breakup During Elevated Temperature Deformation of an HCP Metal. <i>Metallurgical and</i>	5·3 7.6 8.4	1 8 120 18

Science Forum, 2013, 765, 549-553

Influence of Sn on Deformation Mechanisms During Room Temperature Compression of Binary 61 ZrBn Alloys 2015, 138-158 Peak broadening anisotropy in deformed face-centred cubic and hexagonal close-packed alloys. 60 3.8 10 Journal of Applied Crystallography, 2014, 47, 1535-1551 Texture Formation in Flow Formed Ferritic Steel Tubes and the Influence of the Process 59 0.4 4 Parameters. Materials Science Forum, 2014, 783-786, 2602-2607 Influence of orientation on twin nucleation and growth at low strains in a magnesium alloy. Acta 8.4 58 73 Materialia, 2014, 80, 380-391 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 3.8 57 12 , **2014**, 47, 1402-1416 Modelling the effect of elastic and plastic anisotropies on stresses at grain boundaries. 56 7.6 42 International Journal of Plasticity, 2014, 61, 49-63 The Effect of Strain and Temperature Profiles on Static Recrystallization during Solution Heat 55 Treatment After Hot Deformation of Alloy 718 2014, 873-884 Characterization of abnormal grain coarsening in Alloy 718. MATEC Web of Conferences, 2014, 14, 070040.3 54 Modeling Twin Clustering and Strain Localization in Hexagonal Close-Packed Metals. Metallurgical 2.3 53 10 and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 5883-5890 Deformation path effects on the internal stress development in cold worked austenitic steel deformed in tension. Materials Science & Transcription A: Structural Materials: Properties, 52 5.3 Microstructure and Processing, 2014, 614, 326-337 High-temperature deformation mechanisms in a polycrystalline nickel-base superalloy studied by 51 8.4 59 neutron diffraction and electron microscopy. Acta Materialia, 2014, 74, 18-29 Plastic Strain Mapping with Sub-micron Resolution Using Digital Image Correlation. Experimental 2.6 50 150 Mechanics, 2013, 53, 743-754 Three-dimensional observation and image-based modelling of thermal strains in polycrystalline 8.4 49 14 alumina. Acta Materialia, 2013, 61, 7521-7533 Study of Lders phenomena in reactor pressure vessel steels. Materials Science & amp; Engineering 48 16 5.3 A: Structural Materials: Properties, Microstructure and Processing, 2013, 588, 151-166 The effect of Igrain coarsening on variant selection and texture evolution in a near-ITi alloy. Materials Science & Digineering A: Structural Materials: Properties, Microstructure and Processing 47 5.3 25 , **2013**, 576, 272-279 The effect of 🛮 size and alloy chemistry on dynamic strain ageing in advanced polycrystalline nickel 46 base superalloys. Materials Science & Damp; Engineering A: Structural Materials: Properties, 13 5.3 Microstructure and Processing, 2013, 573, 54-61 The effect of phase on microstructure and texture evolution during thermomechanical 8.4 45 59 processing of #ITi alloy. Acta Materialia, 2013, 61, 3200-3213 The Effect of Aluminium on Deformation and Twinning in Alpha Titanium: The 45th Case. Materials

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43	Measurement of Strain and Lattice Rotation in the Particle Deformation Zone. <i>Materials Science Forum</i> , 2013 , 753, 21-24	0.4	
42	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
41	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
40	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
39	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
38	Macro and intergranular stress responses of austenitic stainless steel to 90°1 strain path changes. <i>Materials Science & Description of the Americal Materials: Properties, Microstructure and Processing</i> , 2012 , 546, 263-271	5.3	21
37	The influence of rolling temperature on texture evolution and variant selection during the hase transformation in TiBALBV. <i>Acta Materialia</i> , 2012 , 60, 6013-6024	8.4	56
36	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
35	In situ neutron diffraction study of texture evolution and variant selection during the Hephase transformation in TiBALBV. <i>Acta Materialia</i> , 2012 , 60, 7169-7182	8.4	41
34	Effect of டூrain growth on variant selection and texture memory effect during பெரும் base transformation in TiB Ala V. <i>Acta Materialia</i> , 2012 , 60, 1048-1058	8.4	106
33	Texture Evolution of Zircaloy-2 During Beta-Quenching: Effect of Process Variables 2012 , 176-194		
33	Texture Evolution of Zircaloy-2 During Beta-Quenching: Effect of Process Variables 2012 , 176-194 Texture Evolution of Zircaloy-2 During Beta-Quenching: Effect of Process Variables 2012 , 176-194		
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32	Texture Evolution of Zircaloy-2 During Beta-Quenching: Effect of Process Variables 2012 , 176-194 Modelling and Measurement of Plastic Deformation and Grain Rotation at the Grain-to-Grain Level	0.5	1 8
3 ²	Texture Evolution of Zircaloy-2 During Beta-Quenching: Effect of Process Variables 2012 , 176-194 Modelling and Measurement of Plastic Deformation and Grain Rotation at the Grain-to-Grain Level 2011 , 107-112 The Effect of Lattice Misfit on Deformation Mechanisms at High Temperature. <i>Advanced Materials</i>	0.5	
31 30	Texture Evolution of Zircaloy-2 During Beta-Quenching: Effect of Process Variables 2012 , 176-194 Modelling and Measurement of Plastic Deformation and Grain Rotation at the Grain-to-Grain Level 2011 , 107-112 The Effect of Lattice Misfit on Deformation Mechanisms at High Temperature. <i>Advanced Materials Research</i> , 2011 , 278, 144-149 Predictionoftheoverallbehaviorofa3DmicrostructureofausteniticsteelbyusingFFTnumericalscheme.	0.5	8
32 31 30 29	Texture Evolution of Zircaloy-2 During Beta-Quenching: Effect of Process Variables 2012, 176-194 Modelling and Measurement of Plastic Deformation and Grain Rotation at the Grain-to-Grain Level 2011, 107-112 The Effect of Lattice Misfit on Deformation Mechanisms at High Temperature. Advanced Materials Research, 2011, 278, 144-149 Predictionoftheoverallbehaviorofa3DmicrostructureofausteniticsteelbyusingFFTnumericalscheme. Procedia Engineering, 2011, 10, 1883-1888 In Situ Observation on the Influence of Grain Growth on Texture Evolution during Phase		8

(2004-2010)

25	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
24	Intergranular Strains in Pre-Strained and Welded Pipes. <i>Materials Science Forum</i> , 2010 , 652, 13-18	0.4	1
23	Deformation twinning in Ti-6Al-4V during low strain rate deformation to moderate strains at room temperature. <i>Materials Science & Discountive and Processing</i> , 2010 , 527, 5734-5744	5.3	77
22	Capturing the texture changes in a zirconium alloy during the allotropic phase transformation. <i>Scripta Materialia</i> , 2009 , 61, 399-402	5.6	25
21	Texture memory and variant selection during phase transformation of a zirconium alloy. <i>Acta Materialia</i> , 2009 , 57, 5501-5511	8.4	92
20	Towards Modelling Intergranular Stress-Corrosion Cracks Using Experimentally Obtained Grain Topologies 2009 ,		3
19	Determination and Interpretation of Texture Evolution during Deformation of a Zirconium Alloy. <i>Journal of ASTM International</i> , 2008 , 5, 101255		2
18	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
17	Local Plastic Strain Measurement by EBSD. Applied Mechanics and Materials, 2007, 7-8, 173-179	0.3	25
16	Measuring and Predicting the Effects of Residual Stresses on Crack Propagation. <i>Materials Science Forum</i> , 2006 , 524-525, 77-82	0.4	4
15	Evolution of intergranular stresses during in situ straining of IF steel with different grain sizes. <i>Materials Science & Amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 437, 26-32	5.3	41
14	Assessment of Defects Under Combined Primary and Residual Stresses 2006 , 223-232		
13	Full-field strain mapping by optical correlation of micrographs acquired during deformation. <i>Journal of Microscopy</i> , 2005 , 218, 9-21	1.9	127
12	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
11	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
10	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	
9	Mechanical Property Mapping Using Image Correlation and Electronic Speckle Interferometry. <i>Applied Mechanics and Materials</i> , 2004 , 1-2, 147-152	0.3	2
8	Residual Stresses in Linear Friction Welded IMI550. <i>Journal of Neutron Research</i> , 2004 , 12, 165-173	0.5	21

2	Finite Element Modeling of Hot Compression Testing of Titanium Alloys. <i>Journal of Materials</i> Engineering and Performance,1	1.6	1
3	Understanding the Limits of Lattice Orientation Data Analysis in Environmental Degradation Studies2	321-23	32
4	Microyielding Effects in High-Volume-Fraction MMCs. Advanced Engineering Materials, 2001, 3, 913	3.5	1
5	Image Processing Issues in Digital Strain Mapping 2002 ,		16
6	Texture development in the cold rolling of IF steel. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> 2004 , 380, 365-377	5.3	53
7	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