

Phil Withers

List of Publications by Year in descending order

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712
papers

32,841
citations

6250

80
h-index

9334

143
g-index

739
all docs

739
docs citations

739
times ranked

19738
citing authors

#	ARTICLE	IF	CITATIONS
1	In situ X-ray imaging of fatigue crack growth from multiple defects in additively manufactured AlSi10Mg alloy. International Journal of Fatigue, 2022, 155, 106616.	2.8	42
2	Damage Evaluation in 3D Woven Composites with Warp-way and Weft-way Binders. , 2022, , .		0
3	Improved thermal conductivity of graphite through infiltration with SiC and Si ₃ N ₄ inclusions. Journal of the European Ceramic Society, 2022, 42, 1877-1883.	2.8	4
4	Tailoring the Microstructure of Lamellar Ti ₃ C ₂ T _x MXene Aerogel by Compressive Straining. ACS Nano, 2022, 16, 1896-1908.	7.3	10
5	The potency of defects on fatigue of additively manufactured metals. International Journal of Mechanical Sciences, 2022, 221, 107185.	3.6	72
6	4D imaging of void nucleation, growth, and coalescence from large and small inclusions in steel under tensile deformation. Journal of Materials Science and Technology, 2022, 123, 168-176.	5.6	25
7	Recovering the second moment of the strain distribution from neutron Bragg edge data. Applied Physics Letters, 2022, 120, 164102.	1.5	1
8	Characterisation of the crack tip plastic zone in fatigue via synchrotron X-ray diffraction. Fatigue and Fracture of Engineering Materials and Structures, 2022, 45, 2086-2098.	1.7	3
9	Friction stir welding/processing of metals and alloys: A comprehensive review on microstructural evolution. Progress in Materials Science, 2021, 117, 100752.	16.0	436
10	Comparing Xe ⁺ pFIB and Ga ⁺ FIB for TEM sample preparation of Al alloys: Minimising FIB-induced artefacts. Journal of Microscopy, 2021, 282, 101-112.	0.8	29
11	Tracking polycrystal evolution non-destructively in 3D by laboratory X-ray diffraction contrast tomography. Materials Characterization, 2021, 172, 110814.	1.9	16
12	Realization of 3D epoxy resin/Ti ₃ C ₂ T _x MXene aerogel composites for low-voltage electrothermal heating. 2D Materials, 2021, 8, 025022.	2.0	17
13	Crystallographic tomography and molecular modelling of structured organic polycrystalline powders. CrystEngComm, 2021, 23, 2520-2531.	1.3	8
14	X-ray computed tomography. Nature Reviews Methods Primers, 2021, 1, .	11.8	305
15	A machine-learning fatigue life prediction approach of additively manufactured metals. Engineering Fracture Mechanics, 2021, 242, 107508.	2.0	149
16	Macro-, meso- and microstructural characterization of metallic lattice structures manufactured by additive manufacturing assisted investment casting. Scientific Reports, 2021, 11, 4974.	1.6	17
17	Corrosion fatigue lifetime assessment of high-speed railway axle EA4T steel with artificial scratch. Engineering Fracture Mechanics, 2021, 245, 107588.	2.0	86
18	Size segregation of irregular granular materials captured by time-resolved 3D imaging. Scientific Reports, 2021, 11, 8352.	1.6	12

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19	Generation of high-fidelity random fields from micro CT images and phase field-based mesoscale fracture modelling of concrete. <i>Engineering Fracture Mechanics</i> , 2021, 249, 107762.	2.0	21
20	Crystalline phase discriminating neutron tomography using advanced reconstruction methods. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 325502.	1.3	10
21	Depth-profiling of residual stress and microstructure for austenitic stainless steel surface treated by cavitation, shot and laser peening. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 813, 141037.	2.6	36
22	Compaction, nesting and image based permeability analysis of multi-layer dry preforms by computed tomography (CT). <i>Composite Structures</i> , 2021, 263, 113676.	3.1	10
23	Assessing the efficacy of tomographic reconstruction methods through physical quantification techniques. <i>Measurement Science and Technology</i> , 2021, 32, 075404.	1.4	5
24	In-situ synchrotron X-ray tomography investigation of damage mechanism of an extruded magnesium alloy in uniaxial low-cycle fatigue with ratchetting. <i>Acta Materialia</i> , 2021, 211, 116881.	3.8	40
25	Correction of artefacts associated with large area EBSD. <i>Ultramicroscopy</i> , 2021, 226, 113315.	0.8	15
26	Core Imaging Library - Part I: a versatile Python framework for tomographic imaging. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20200192.	1.6	29
27	Nanoscale orientation mapping made easy: a new sample preparation workflow for rapid, large-area TKD analysis. <i>Microscopy and Microanalysis</i> , 2021, 27, 1596-1598.	0.2	2
28	Core Imaging Library - Part II: multichannel reconstruction for dynamic and spectral tomography. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20200193.	1.6	22
29	Fine equiaxed zone induced softening and failure behavior of 7050 aluminum alloy hybrid laser welds. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 821, 141597.	2.6	15
30	Unlocking secrets of inhalation blends through X-ray Computed Tomography and Microscopy. <i>Microscopy and Microanalysis</i> , 2021, 27, 292-295.	0.2	1
31	Correlative Tomography - Bridging the length-scales through correlative X-ray and Electron Imaging. <i>Microscopy and Microanalysis</i> , 2021, 27, 932-933.	0.2	2
32	Damage accumulation during high temperature fatigue of Ti/SiCf metal matrix composites under different stress amplitudes. <i>Acta Materialia</i> , 2021, 213, 116976.	3.8	7
33	A three-dimensional mechanistic study of the drivers of classical twin nucleation and variant selection in Mg alloys: A mesoscale modelling and experimental study. <i>International Journal of Plasticity</i> , 2021, 143, 103027.	4.1	26
34	Complementary time-lapse datasets of x-ray computed tomography and real-time strain mapping for an ex-situ study of non-crimp glass fibre composites under fatigue loading. <i>Data in Brief</i> , 2021, 37, 107157.	0.5	0
35	Morphological variability in the mucosal attachment site of <i>Trichuris muris</i> revealed by X-ray microcomputed tomography. <i>International Journal for Parasitology</i> , 2021, 51, 797-807.	1.3	3
36	Evolution of fibre deflection leading to kink-band formation in unidirectional glass fibre/epoxy composite under axial compression. <i>Composites Science and Technology</i> , 2021, 213, 108929.	3.8	22

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37	Exploiting Confinement to Study the Crystallization Pathway of Calcium Sulfate. <i>Advanced Functional Materials</i> , 2021, 31, 2107312.	7.8	11
38	Hot dwell-fatigue behaviour of additively manufactured AlSi10Mg alloy: Relaxation, cyclic softening and fracture mechanisms. <i>International Journal of Fatigue</i> , 2021, 151, 106408.	2.8	19
39	The effect of defect population on the anisotropic fatigue resistance of AlSi10Mg alloy fabricated by laser powder bed fusion. <i>International Journal of Fatigue</i> , 2021, 151, 106317.	2.8	144
40	X-ray computed tomographic and focused ion beam/electron microscopic investigation of coating defects in niobium-coated copper superconducting radio-frequency cavities. <i>Materials Chemistry and Physics</i> , 2021, 273, 125062.	2.0	3
41	Enhanced hyperspectral tomography for bioimaging by spatio-spectral reconstruction. <i>Scientific Reports</i> , 2021, 11, 20818.	1.6	10
42	Tracking the calcium-magnesium-alumino-silicate (CMAS) infiltration into an air-plasma spray thermal barrier coating using X-ray imaging. <i>Scripta Materialia</i> , 2020, 176, 94-98.	2.6	20
43	The effect of anisotropic microstructure on the crack growth and fatigue overload behaviour of ultrafine-grained nickel. <i>Acta Materialia</i> , 2020, 184, 225-240.	3.8	13
44	Damage evolution in braided composite tubes under torsion studied by in-situ X-ray computed tomography. <i>Composites Science and Technology</i> , 2020, 188, 107976.	3.8	44
45	Redistribution of carbon caused by butterfly defects in bearing steels. <i>Acta Materialia</i> , 2020, 183, 390-397.	3.8	21
46	MXene Tunable Lamellae Architectures for Supercapacitor Electrodes. <i>ACS Applied Energy Materials</i> , 2020, 3, 411-422.	2.5	46
47	Following the effect of braid architecture on performance and damage of carbon fibre/epoxy composite tubes during torsional straining. <i>Composites Science and Technology</i> , 2020, 200, 108451.	3.8	17
48	Post-fatigue Investigation of SLM Ti64 Scaffolds by 3D Correlative Tomography. <i>Microscopy and Microanalysis</i> , 2020, 26, 424-425.	0.2	0
49	Observing the evolution of fatigue damage and associated strain fields in a correlative, multiscale 3D time-lapse study of quasi-unidirectional glass fibre composites. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 942, 012039.	0.3	1
50	An in-situ method for protecting internal cracks/pores from ion beam damage and reducing curtaining for TEM sample preparation using FIB. <i>Ultramicroscopy</i> , 2020, 219, 113135.	0.8	13
51	Measuring the Particle Packing of α -Glutamic Acid Crystals through X-ray Computed Tomography for Understanding Powder Flow and Consolidation Behavior. <i>Crystal Growth and Design</i> , 2020, 20, 4252-4263.	1.4	16
52	A new approach to correlate the defect population with the fatigue life of selective laser melted Ti-6Al-4V alloy. <i>International Journal of Fatigue</i> , 2020, 136, 105584.	2.8	133
53	Defect evolution during high temperature tension-tension fatigue of SLM AlSi10Mg alloy by synchrotron tomography. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 792, 139809.	2.6	62
54	Environmentally induced crack (EIC) initiation, propagation, and failure: A 3D in-situ time-lapse study of AA5083 H131. <i>Corrosion Science</i> , 2020, 174, 108834.	3.0	13

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55	X-ray Micro-Computed Tomography: An Emerging Technology to Analyze Vascular Calcification in Animal Models. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4538.	1.8	12
56	Role of SiC and Si ₃ N ₄ reinforcing particles in the tribological performance of graphite-based composites. <i>Wear</i> , 2020, 456-457, 203399.	1.5	4
57	X-ray computed tomography in life sciences. <i>BMC Biology</i> , 2020, 18, 21.	1.7	95
58	A conformable high temperature nitride coating for Ti alloys. <i>Acta Materialia</i> , 2020, 189, 274-283.	3.8	30
59	The effect of grain size on the fatigue overload behaviour of nickel. <i>Materials and Design</i> , 2020, 189, 108526.	3.3	21
60	Additive manufacturing assisted investment casting: A low-cost method to fabricate periodic metallic cellular lattices. <i>Additive Manufacturing</i> , 2020, 33, 101085.	1.7	41
61	The influence of electrodeposited Ni-Co alloy coating microstructure on CO ₂ corrosion resistance on X65 steel. <i>Corrosion Science</i> , 2020, 167, 108485.	3.0	28
62	Industrial Gear Oils: Influence of Bulk Oil Temperature and Contact Pressure on Tribological Performance and Subsurface Changes. <i>Tribology Letters</i> , 2020, 68, 1.	1.2	7
63	Serial sectioning in the SEM for three dimensional materials science. <i>Current Opinion in Solid State and Materials Science</i> , 2020, 24, 100817.	5.6	51
64	3D characterisation of dry powder inhaler formulations: Developing X-ray micro computed tomography approaches. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2020, 151, 32-44.	2.0	22
65	Characterisation of cuticular inflation development and ultrastructure in <i>Trichuris muris</i> using correlative X-ray computed tomography and electron microscopy. <i>Scientific Reports</i> , 2020, 10, 5846.	1.6	12
66	Novel Methods for Recording Stress-Strain Curves in Proton Irradiated Material. <i>Scientific Reports</i> , 2020, 10, 5353.	1.6	2
67	Coupled Broad Ion Beam Scanning Electron Microscopy (BIB-SEM) for polishing and three dimensional (3D) serial section tomography (SST). <i>Ultramicroscopy</i> , 2020, 214, 112989.	0.8	20
68	The effect of manufacturing defects on the fatigue life of selective laser melted Ti-6Al-4V structures. <i>Materials and Design</i> , 2020, 192, 108708.	3.3	209
69	pyCM: An open-source computational framework for residual stress analysis employing the Contour Method. <i>SoftwareX</i> , 2020, 11, 100458.	1.2	10
70	Multiscale image-based modelling of damage and fracture in carbon fibre reinforced polymer composites. <i>Composites Science and Technology</i> , 2020, 198, 108243.	3.8	20
71	Plasma FIB Spin Milling for Large Volume Serial Sectioning Tomography. <i>Microscopy and Microanalysis</i> , 2019, 25, 350-351.	0.2	4
72	On the Application of Xe ⁺ Plasma FIB for Micro-fabrication of Small-scale Tensile Specimens. <i>Experimental Mechanics</i> , 2019, 59, 1113-1125.	1.1	9

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73	Anisotropic crack propagation and deformation in dentin observed by four-dimensional X-ray nano-computed tomography. <i>Acta Biomaterialia</i> , 2019, 96, 400-411.	4.1	27
74	MAR-M-247 creep assessment through a modified theta projection model. <i>Materialia</i> , 2019, 7, 100392.	1.3	5
75	Advances in Multi-Beam and Multi-Ion FIB-SEM for 3D Correlative Microscopy. <i>Microscopy and Microanalysis</i> , 2019, 25, 870-871.	0.2	3
76	Laminography in the lab: imaging planar objects using a conventional x-ray CT scanner. <i>Measurement Science and Technology</i> , 2019, 30, 035401.	1.4	25
77	Evolution of kink bands in a notched unidirectional carbon fibre-epoxy composite under four-point bending. <i>Composites Science and Technology</i> , 2019, 172, 143-152.	3.8	38
78	Estimation of the plastic zone in fatigue through the thickness based on synchrotron diffraction data. <i>Procedia Structural Integrity</i> , 2019, 17, 872-877.	0.3	1
79	Plasma FIB Spin Milling for 3D Residual Stress Measurements. <i>Microscopy and Microanalysis</i> , 2019, 25, 882-883.	0.2	1
80	Initiation and short crack growth behaviour of environmentally induced cracks in AA5083 H131 investigated across time and length scales. <i>Corrosion Reviews</i> , 2019, 37, 469-481.	1.0	12
81	Completing the picture through correlative characterization. <i>Nature Materials</i> , 2019, 18, 1041-1049.	13.3	73
82	Behavior of 316L stainless steel containing corrosion pits under cyclic loading. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2019, 70, 2009-2019.	0.8	10
83	Soft body impact resistance of composite foam core sandwich panels with unidirectional corrugated and tubular reinforcements. <i>International Journal of Impact Engineering</i> , 2019, 132, 103320.	2.4	20
84	In situ through-thickness analysis of crack tip fields with synchrotron X-ray diffraction. <i>International Journal of Fatigue</i> , 2019, 127, 500-508.	2.8	10
85	In Situ Study of the Stress Relaxation During Aging of Nickel-Base Superalloy Forgings. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019, 50, 3555-3565.	1.1	8
86	The heterogenous distribution of white etching matter (WEM) around subsurface cracks in bearing steels. <i>Acta Materialia</i> , 2019, 174, 300-309.	3.8	31
87	Determination of local residual stress in an air plasma spray thermal barrier coating (APS-TBC) by microscale ring coring using a picosecond laser. <i>Scripta Materialia</i> , 2019, 167, 126-130.	2.6	14
88	CCPI-Regularisation toolkit for computed tomographic image reconstruction with proximal splitting algorithms. <i>SoftwareX</i> , 2019, 9, 317-323.	1.2	17
89	Reliability of Algorithms Interpreting Topological and Geometric Properties of Porous Media for Pore Network Modelling. <i>Transport in Porous Media</i> , 2019, 128, 271-301.	1.2	53
90	Time-lapse imaging of particle invasion and deposition in porous media using in situ X-ray radiography. <i>Journal of Petroleum Science and Engineering</i> , 2019, 177, 384-391.	2.1	11

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91	Experimental steering of electron microscopy studies using prior X-ray computed tomography. Ultramicroscopy, 2019, 201, 58-67.	0.8	14
92	Effect of preheating on the thermal, microstructural and mechanical properties of selective electron beam melted Ti-6Al-4V components. Materials and Design, 2019, 174, 107792.	3.3	57
93	High temperature low cycle fatigue characterization of equiaxed MAR-M-247. International Journal of Fatigue, 2019, 123, 225-237.	2.8	2
94	Rich multi-dimensional correlative imaging. IOP Conference Series: Materials Science and Engineering, 2019, 580, 012014.	0.3	4
95	Tracking capsule activation and crack healing in a microcapsule-based self-healing polymer. Scientific Reports, 2019, 9, 17773.	1.6	22
96	Weld zone and residual stress development in AA7050 stationary shoulder friction stir T-joint weld. Journal of Materials Processing Technology, 2019, 263, 256-265.	3.1	30
97	The effect of powder oxidation on defect formation in laser additive manufacturing. Acta Materialia, 2019, 166, 294-305.	3.8	217
98	4D visualisation of <i>in situ</i> nano-compression of Li-ion cathode materials to mimic early stage calendaring. Materials Horizons, 2019, 6, 612-617.	6.4	26
99	Time-lapse three-dimensional imaging of crack propagation in beetle cuticle. Acta Biomaterialia, 2019, 86, 109-116.	4.1	15
100	Multi-modal plasma focused ion beam serial section tomography of an organic paint coating. Ultramicroscopy, 2019, 197, 1-10.	0.8	10
101	Quantifying fatigue overload retardation mechanisms by energy dispersive X-ray diffraction. Journal of the Mechanics and Physics of Solids, 2019, 124, 392-410.	2.3	23
102	Versatile regularisation toolkit for iterative image reconstruction with proximal splitting algorithms. , 2019, , .		0
103	Time-dependent <i>in situ</i> measurement of atmospheric corrosion rates of duplex stainless steel wires. Npj Materials Degradation, 2018, 2, .	2.6	34
104	X-ray micro-computed tomography (<i>µ</i> CT): an emerging opportunity in parasite imaging. Parasitology, 2018, 145, 848-854.	0.7	34
105	Industrial Gear Oils: Tribological Performance and Subsurface Changes. Tribology Letters, 2018, 66, 65.	1.2	8
106	3D characterization of porosity in an air plasma-sprayed thermal barrier coating and its effect on thermal conductivity. Journal of the American Ceramic Society, 2018, 101, 2482-2492.	1.9	34
107	Thermo-mechanical properties of SPS produced self-healing thermal barrier coatings containing pure and alloyed MoSi ₂ particles. Journal of the European Ceramic Society, 2018, 38, 4268-4275.	2.8	25
108	Microstructural degradation of Electron Beam-Physical Vapour Deposition Thermal Barrier Coating during thermal cycling tracked by X-ray micro-computed tomography. Scripta Materialia, 2018, 152, 79-83.	2.6	5

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109	Effect of hydration and crack orientation on crack-tip strain, crack opening displacement and crack-tip shielding in elephant dentin. <i>Dental Materials</i> , 2018, 34, 1041-1053.	1.6	12
110	In situ X-ray imaging of defect and molten pool dynamics in laser additive manufacturing. <i>Nature Communications</i> , 2018, 9, 1355.	5.8	495
111	Joint image reconstruction method with correlative multi-channel prior for x-ray spectral computed tomography. <i>Inverse Problems</i> , 2018, 34, 064001.	1.0	35
112	Digital element simulation of aligned tows during compaction validated by computed tomography (CT). <i>International Journal of Solids and Structures</i> , 2018, 154, 78-87.	1.3	33
113	Time-lapse 3D imaging of calcite precipitation in a microporous column. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 222, 156-170.	1.6	18
114	Residual stress control of multipass welds using low transformation temperature fillers. <i>Materials Science and Technology</i> , 2018, 34, 519-528.	0.8	18
115	The effect of shoulder coupling on the residual stress and hardness distribution in AA7050 friction stir butt welds. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 735, 218-227.	2.6	35
116	Investigation of residual stress distribution and texture evolution in AA7050 stationary shoulder friction stir welded joints. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 712, 531-538.	2.6	33
117	X-ray computed tomography of polymer composites. <i>Composites Science and Technology</i> , 2018, 156, 305-319.	3.8	455
118	Time-Lapse Correlative 3D Imaging Applied to the Corrosion Study of AZ31Mg Alloy in a Saline Environment. , 2018, , 165-177.		4
119	MicroCT imaging reveals differential 3D micro-scale remodelling of the murine aorta in ageing and Marfan syndrome. <i>Theranostics</i> , 2018, 8, 6038-6052.	4.6	17
120	3D Imaging of Indentation Damage in Bone. <i>Materials</i> , 2018, 11, 2533.	1.3	3
121	Time-Lapse Helical X-ray Computed Tomography (CT) Study of Tensile Fatigue Damage Formation in Composites for Wind Turbine Blades. <i>Materials</i> , 2018, 11, 2340.	1.3	16
122	Linking microstructure and processing defects to mechanical properties of selectively laser melted AlSi10Mg alloy. <i>Theoretical and Applied Fracture Mechanics</i> , 2018, 98, 123-133.	2.1	92
123	New software protocols for enabling laboratory based temporal CT. <i>Review of Scientific Instruments</i> , 2018, 89, 093702.	0.6	22
124	Synchrotron X-ray diffraction based method for stress intensity factor evaluation in the bulk of materials. <i>Theoretical and Applied Fracture Mechanics</i> , 2018, 98, 72-77.	2.1	9
125	Quantifying fibre reorientation during axial compression of a composite through time-lapse X-ray imaging and individual fibre tracking. <i>Composites Science and Technology</i> , 2018, 168, 47-54.	3.8	41
126	Laser-matter interactions in additive manufacturing of stainless steel SS316L and 13-93 bioactive glass revealed by in situ X-ray imaging. <i>Additive Manufacturing</i> , 2018, 24, 647-657.	1.7	57

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127	Improved Low Cycle Fatigue Analysis for Ni-Based Turbine Nozzles. , 2018, , .		1
128	7.6 Computed Tomography of Composites. , 2018, , 101-118.		3
129	High resolution low kV EBSD of heavily deformed and nanocrystalline Aluminium by dictionary-based indexing. Scientific Reports, 2018, 8, 10991.	1.6	51
130	Investigation of Cracking in Additively Manufactured IN718 by Correlative Tomography. Microscopy and Microanalysis, 2018, 24, 366-367.	0.2	3
131	4.10 Residual Stresses in Metal Matrix Composites. , 2018, , 275-286.		0
132	TomoPhantom, a software package to generate 2D to 4D analytical phantoms for CT image reconstruction algorithm benchmarks. SoftwareX, 2018, 7, 150-155.	1.2	29
133	On compression and damage evolution in two thermoplastics. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2017, 473, 20160495.	1.0	3
134	On the compression of aluminium foam structures under shock. AIP Conference Proceedings, 2017, , .	0.3	3
135	On the high-rate failure of carbon fibre composites. AIP Conference Proceedings, 2017, , .	0.3	3
136	On compression and damage evolution in PTFE and PEEK. AIP Conference Proceedings, 2017, , .	0.3	0
137	How to fragment peralkaline rhyolites: Observations on pumice using combined multi-scale 2D and 3D imaging. Journal of Volcanology and Geothermal Research, 2017, 336, 179-191.	0.8	23
138	A Novel Tomographic Reconstruction Method Based on the Robust Student's t Function For Suppressing Data Outliers. IEEE Transactions on Computational Imaging, 2017, 3, 682-693.	2.6	12
139	Time-lapse lab-based x-ray nano-CT study of corrosion damage. Journal of Microscopy, 2017, 267, 98-106.	0.8	18
140	Comparison of grain to grain orientation and stiffness mapping by spatially resolved acoustic spectroscopy and EBSD. Journal of Microscopy, 2017, 267, 89-97.	0.8	14
141	Influence of Tow Architecture on Compaction and Nesting in Textile Preforms. Applied Composite Materials, 2017, 24, 337-350.	1.3	33
142	Crystallographic effects on the corrosion of twin roll cast AZ31 Mg alloy sheet. Acta Materialia, 2017, 133, 90-99.	3.8	83
143	Mapping fibre failure in situ in carbon fibre reinforced polymers by fast synchrotron X-ray computed tomography. Composites Science and Technology, 2017, 149, 81-89.	3.8	71
144	Ablation-resistant carbide Zr _{0.8} Ti _{0.2} Co _{0.74} B _{0.26} for oxidizing environments up to 3,000 °C. Nature Communications, 2017, 8, 15836.	5.8	154

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145	A multi-scale correlative investigation of ductile fracture. <i>Acta Materialia</i> , 2017, 130, 56-68.	3.8	42
146	Comparison of residual stress distributions in conventional and stationary shoulder high-strength aluminum alloy friction stir welds. <i>Journal of Materials Processing Technology</i> , 2017, 242, 92-100.	3.1	77
147	X-ray micro computed tomography characterization of cellular SiC foams for their applications in chemical engineering. <i>Materials Characterization</i> , 2017, 123, 20-28.	1.9	43
148	Broad ion beam serial section tomography. <i>Ultramicroscopy</i> , 2017, 172, 52-64.	0.8	46
149	X-ray computed tomography study of kink bands in unidirectional composites. <i>Composite Structures</i> , 2017, 160, 917-924.	3.1	69
150	Evolution of Residual Stress in Tensile Armour Wires of Flexible Pipes During Pipe Manufacture. , 2017, , .		2
151	Model-based iterative reconstruction using higher-order regularization of dynamic synchrotron data. <i>Measurement Science and Technology</i> , 2017, 28, 094004.	1.4	14
152	Developments in Large Volume 3D Analysis via P-FIB: EBSD & EDS. <i>Microscopy and Microanalysis</i> , 2017, 23, 284-285.	0.2	3
153	Correlative Tomography for Additive Manufacturing of Biomedical Implants. <i>Microscopy and Microanalysis</i> , 2017, 23, 342-343.	0.2	4
154	The quantification of impact damage distribution in composite laminates by analysis of X-ray computed tomograms. <i>Composites Science and Technology</i> , 2017, 152, 139-148.	3.8	62
155	The Influence of Porosity on Fatigue Crack Initiation in Additively Manufactured Titanium Components. <i>Scientific Reports</i> , 2017, 7, 7308.	1.6	303
156	The imaging of failure in structural materials by synchrotron radiation X-ray microtomography. <i>Engineering Fracture Mechanics</i> , 2017, 182, 127-156.	2.0	168
157	Microstructural evolution during sintering of copper particles studied by laboratory diffraction contrast tomography (LabDCT). <i>Scientific Reports</i> , 2017, 7, 5251.	1.6	58
158	Multiscale correlative tomography: an investigation of creep cavitation in 316 stainless steel. <i>Scientific Reports</i> , 2017, 7, 7332.	1.6	33
159	Degradation of metallic materials studied by correlative tomography. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 219, 012001.	0.3	7
160	Special Issue on "Modern Imaging Techniques in Fracture and Damage Analyses": Selected papers from the 21st European Conference of Fracture (ECF 21), held in Catania, Sicily, Italy, on 20-24 June 2016. <i>Engineering Fracture Mechanics</i> , 2017, 183, iii-iv.	2.0	0
161	3D elemental mapping of materials and structures by laboratory scale spectroscopic X-ray tomography. <i>Journal of Physics: Conference Series</i> , 2017, 849, 012013.	0.3	0
162	X-ray microtomography as a tool for investigating the petrological context of Precambrian cellular remains. <i>Geological Society Special Publication</i> , 2017, 448, 33-56.	0.8	8

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