Alexander M. Korsunsky

List of Publications by Year in descending order

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455 papers 10,382 citations

50 h-index 79 g-index

479 all docs

479 docs citations

479 times ranked

8821 citing authors

#	Article	IF	CITATIONS
1	Increased connectivity of hiPSC-derived neural networks in multiphase granular hydrogel scaffolds. Bioactive Materials, 2022, 9, 358-372.	8.6	21
2	Metal-Based 3D-Printed Micro Parts & Structures., 2022,, 448-461.		10
3	Effect of Temperature on Shape Memory Materials. , 2022, , 239-253.		6
4	Improving ultra-fast charging performance and durability of all solid state thin film Li-NMC battery-on-chip systems by in situ TEM lamella analysis. Applied Materials Today, 2022, 26, 101282.	2.3	2
5	Empirical Implementation of the Steinmetz Equation to Compute Eddy Current Loss in Soft Magnetic Composite Components. IEEE Access, 2022, 10, 14610-14623.	2.6	12
6	A SERS platform based on diatomite modified by gold nanoparticles using a combination of layer-by-layer assembly and a freezing-induced loading method. Physical Chemistry Chemical Physics, 2022, 24, 8901-8912.	1.3	7
7	Photonic tools for evaluating the growth of diatom colonies during long-term batch cultivation. Journal of Physics: Conference Series, 2022, 2172, 012011.	0.3	O
8	The Fundamental Formulation for Inhomogeneous Inclusion Problems with the Equivalent Eigenstrain Principle. Metals, 2022, 12, 582.	1.0	3
9	Effect of Graphene Oxide and Nanosilica Modifications on Electrospun Core-Shell PVA–PEG〓SiO2@PVA–GO Fiber Mats. Nanomaterials, 2022, 12, 998.	1.9	7
10	Ultra-fast quantification of polycrystalline texture via single shot synchrotron X-ray or neutron diffraction. Materials Characterization, 2022, 186, 111827.	1.9	4
11	Multiscale stress and strain statistics in the deformation of polycrystalline alloys. International Journal of Plasticity, 2022, 152, 103260.	4.1	13
12	Comparative analysis of the effectiveness of modern methods of sterilization of instruments and the place of gas-dynamic treatment with carbon dioxide. Economy of Region, 2022, 15, 12.	0.1	1
13	Recovering the second moment of the strain distribution from neutron Bragg edge data. Applied Physics Letters, 2022, 120, 164102.	1.5	1
14	Fracture Toughness of Moldable Low-Temperature Carbonized Elastomer-Based Composites Filled with Shungite and Short Carbon Fibers. Polymers, 2022, 14, 1793.	2.0	2
15	Carbon dioxide sterilization in critical/subcritical condition as an alternative to modern methods of eradication of bacteria, fungi and viruses on medical items (literature review). Stomatology for All / International Dental Review, 2022, , 12-20.	0.0	O
16	Carbon dioxide sterilization in critical/subcritical condition as an alternative to modern methods of eradication of bacteria, fungi and viruses on medical items (literature review). Stomatology for All / International Dental Review, 2022, , 12-20.	0.0	0
17	Interface mismatch eigenstrain of non-slipping contacts between dissimilar elastic solids. International Journal of Solids and Structures, 2022, 253, 111760.	1.3	2
18	Hierarchical 2D to 3D micro/nano-histology of human dental caries lesions using light, X-ray and electron microscopy. Materials and Design, 2022, 220, 110829.	3.3	9

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19	Grain Structure Engineering of NiTi Shape Memory Alloys by Intensive Plastic Deformation. ACS Applied Materials & Engineering of NiTi Shape Memory Alloys by Intensive Plastic Deformation. ACS Applied Materials & Engineering of NiTi Shape Memory Alloys by Intensive Plastic Deformation. ACS	4.0	12
20	Acid-induced demineralisation of human enamel as a function of time and pH observed using X-ray and polarised light imaging. Acta Biomaterialia, 2021, 120, 240-248.	4.1	22
21	Evolution of stress fields during crack growth and arrest in a brittle-ductile CrN-Cr clamped-cantilever analysed by X-ray nanodiffraction and modelling. Materials and Design, 2021, 198, 109365.	3.3	10
22	Finite Element Modelling and Experimental Validation of the Enamel Demineralisation Process at the Rod Level. Journal of Advanced Research, 2021, 29, 167-177.	4.4	12
23	Why is local stress statistics normal, and strain lognormal?. Materials and Design, 2021, 198, 109319.	3.3	10
24	In situ neutron diffraction investigation of texture-dependent Shape Memory Effect in a near equiatomic NiTi alloy. Acta Materialia, 2021, 202, 135-148.	3.8	45
25	The Analysis of Micro-Scale Deformation and Fracture of Carbonized Elastomer-Based Composites by In Situ SEM. Molecules, 2021, 26, 587.	1.7	6
26	Stress-Assisted Thermal Diffusion Barrier Breakdown in Ion Beam Deposited Cu/W Nano-Multilayers on Si Substrate Observed by <i>in Situ</i> GISAXS and Transmission EDX. ACS Applied Materials & Interfaces, 2021, 13, 6795-6804.	4.0	12
27	In Situ SEM Study of the Micro-Mechanical Behaviour of 3D-Printed Aluminium Alloy. Technologies, 2021, 9, 21.	3.0	5
28	Aberration characterization of x-ray optics using multi-modal ptychography and a partially coherent source. Applied Physics Letters, 2021, 118, 104104.	1.5	10
29	On the Structural Peculiarities of Self-Reinforced Composite Materials Based on UHMWPE Fibers. Polymers, 2021, 13, 1408.	2.0	7
30	Correlation between the macroscopic adhesion strength of cold spray coating and the microscopic single-particle bonding behaviour: Simulation, experiment and prediction. Applied Surface Science, 2021, 547, 149165.	3.1	17
31	3D analysis of enamel demineralisation in human dental caries using high-resolution, large field of view synchrotron X-ray micro-computed tomography. Materials Today Communications, 2021, 27, 102418.	0.9	14
32	Achieving Triply Periodic Minimal Surface Thin-Walled Structures by Micro Laser Powder Bed Fusion Process. Micromachines, 2021, 12, 705.	1.4	20
33	On the Grain Microstructure–Mechanical Properties Relationships in Aluminium Alloy Parts Fabricated by Laser Powder Bed Fusion. Metals, 2021, 11, 1175.	1.0	2
34	Analysis of in vitro demineralised human enamel using multi-scale correlative optical and scanning electron microscopy, and high-resolution synchrotron wide-angle X-ray scattering. Materials and Design, 2021, 206, 109739.	3.3	18
35	Combination of Metal Oxide and Polytriarylamine: A Design Principle to Improve the Stability of Perovskite Solar Cells. Energies, 2021, 14, 5115.	1.6	9
36	On the diatomite-based nanostructure-preserving material synthesis for energy applications. RSC Advances, 2021, 11, 31884-31922.	1.7	17

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37	On the reinforced polymer composites with optimised strength and fire resistance - In Memory of Arthur Geoffrey Gibson. Materials and Design, 2021, 212, 110244.	3.3	3
38	Comparative Multi-Modal, Multi-Scale Residual Stress Evaluation in SLM 3D-Printed Al-Si-Mg Alloy (RS-300) Parts. Metals, 2021, 11, 2064.	1.0	7
39	Shape memory polymer blends and composites for 3D and 4D printing applications. , 2020, , 161-189.		11
40	Micro-scale measurement & modelling of residual stresses in AA6082-T6 Al alloy generated by wire EDM cutting. Journal of Materials Processing Technology, 2020, 275, 116373.	3.1	44
41	Polar transformation of 2D X-ray diffraction patterns and the experimental validation of the hDIC technique. Measurement: Journal of the International Measurement Confederation, 2020, 151, 107193.	2.5	7
42	Highly stretchable two-dimensional auxetic metamaterial sheets fabricated via direct-laser cutting. International Journal of Mechanical Sciences, 2020, 167, 105242.	3.6	81
43	Pyrite â€~poste restante'. Materials Today, 2020, 32, 293-294.	8.3	3
44	Mechanical properties of thermally grown submicron oxide layers on a nickel-based superalloy. Corrosion Science, 2020, 165, 108388.	3.0	6
45	Evolution of thermal and mechanical properties of Nitinol wire as a function of ageing treatment conditions. Journal of Alloys and Compounds, 2020, 819, 153024.	2.8	25
46	Nano-scale residual stress depth profiling in Cu/W nano-multilayers as a function of magnetron sputtering pressure. Surface and Coatings Technology, 2020, 381, 125142.	2.2	22
47	Siliceous diatom frustules – A smart nanotechnology platform. Materials Today: Proceedings, 2020, 33, 2032-2040.	0.9	11
48	Microstructure evolution in a severely cold-worked NiTi wire during ageing treatment: An in situ neutron diffraction study. Materials Letters, 2020, 281, 128676.	1.3	9
49	FEM exploration of the potential of silica diatom frustules for vibrational MEMS applications. Sensors and Actuators A: Physical, 2020, 315, 112270.	2.0	7
50	Mode I fracture toughness determination in Cu/W nano-multilayers on polymer substrate by SEM - Digital Image Correlation. Journal of the Mechanics and Physics of Solids, 2020, 145, 104145.	2.3	5
51	Multi-Scale Digital Image Correlation Analysis of In Situ Deformation of Open-Cell Porous Ultra-High Molecular Weight Polyethylene Foam. Polymers, 2020, 12, 2607.	2.0	7
52	On the application of digital optical microscopy in the study of materials structure and deformation. Materials Today: Proceedings, 2020, 33, 1917-1923.	0.9	4
53	2D auxetic metamaterials with tuneable micro-/nanoscale apertures. Applied Materials Today, 2020, 20, 100780.	2.3	15
54	A Mini-Atlas of diatom frustule electron microscopy images at different magnifications. Materials Today: Proceedings, 2020, 33, 1924-1933.	0.9	5

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55	The use of profilometry techniques and eigenstrain theory for the analysis of creep behavior in nickel superalloy welds. Materials Today: Proceedings, 2020, 33, 2041-2058.	0.9	О
56	On the electrospinning of nanostructured collagen-PVA fiber mats. Materials Today: Proceedings, 2020, 33, 2013-2019.	0.9	8
57	Ovine Bone Morphology and Deformation Analysis Using Synchrotron X-ray Imaging and Scattering. Quantum Beam Science, 2020, 4, 29.	0.6	7
58	The Use of Surface Topography for the Identification of Discontinuous Displacements Due to Cracks. Metals, 2020, 10, 1037.	1.0	3
59	Synchrotron X-ray quantitative evaluation of transient deformation and damage phenomena in a single nickel-rich cathode particle. Energy and Environmental Science, 2020, 13, 3556-3566.	15.6	51
60	Fast Mass-Production of Medical Safety Shields under COVID-19 Quarantine: Optimizing the Use of University Fabrication Facilities and Volunteer Labor. International Journal of Environmental Research and Public Health, 2020, 17, 3418.	1.2	21
61	Nano-Scale Residual Stress Profiling in Thin Multilayer Films with Non-Equibiaxial Stress State. Nanomaterials, 2020, 10, 853.	1.9	12
62	Advances in additive manufacturing process simulation: Residual stresses and distortion predictions in complex metallic components. Materials and Design, 2020, 193, 108779.	3.3	113
63	Design and mechanical properties of 3D-printed auxetic honeycomb structure. Materials Today Communications, 2020, 24, 101173.	0.9	32
64	Micro selective laser melting of NiTi shape memory alloy: Defects, microstructures and thermal/mechanical properties. Optics and Laser Technology, 2020, 131, 106374.	2.2	61
65	The structure and phase composition of nano-silicon as a function of calcination conditions of diatomaceous earth. Materials Today: Proceedings, 2020, 33, 1884-1892.	0.9	1
66	Eigenstrain boundary layer modelling of the yttria-partially stabilised zirconia–porcelain interface in dental prostheses. International Journal of Engineering Science, 2020, 153, 103315.	2.7	2
67	The characterization of PVA/PHY hydrogels for 3D printing fabrication of organ phantoms. Materials Today: Proceedings, 2020, 33, 1874-1879.	0.9	4
68	The use of eigenstrain theory and fuzzy techniques for intelligent modeling of residual stress and creep relaxation in welded superalloys. Materials Today: Proceedings, 2020, 33, 1880-1883.	0.9	2
69	Photoacoustic and fluorescence lifetime imaging of diatoms. Photoacoustics, 2020, 18, 100171.	4.4	10
70	An analysis of fatigue failure mechanisms in an additively manufactured and shot peened IN 718 nickel superalloy. Materials and Design, 2020, 191, 108605.	3.3	48
71	The fabrication and characterization of bioengineered ultra-high molecular weight polyethylene-collagen-hap hybrid bone-cartilage patch. Materials Today Communications, 2020, 24, 101052.	0.9	7
72	Advanced Surface Enhancement. Metals, 2020, 10, 700.	1.0	0

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7 3	Coupled Eulerian-Lagrangian (CEL) simulation of multiple particle impact during Metal Cold Spray process for coating porosity prediction. Surface and Coatings Technology, 2020, 385, 125433.	2.2	19
74	Neutron strain scanning for experimental validation of the artificial intelligence based eigenstrain contour method. Mechanics of Materials, 2020, 143, 103316.	1.7	14
75	FIB-SEM Investigation of Laser-Induced Periodic Surface Structures and Conical Surface Microstructures on D16T (AA2024-T4) Alloy. Metals, 2020, 10, 144.	1.0	5
76	An experimental and numerical analysis of residual stresses in a TIG weldment of a single crystal nickel-base superalloy. Journal of Manufacturing Processes, 2020, 53, 190-200.	2.8	36
77	In Situ Formation of Nanoporous Silicon on a Silicon Wafer via the Magnesiothermic Reduction Reaction (MRR) of Diatomaceous Earth. Nanomaterials, 2020, 10, 601.	1.9	11
78	Hard X-ray ptychography for optics characterization using a partially coherent synchrotron source. Journal of Synchrotron Radiation, 2020, 27, 1688-1695.	1.0	8
79	Synchrotron X-ray Scattering Analysis of Nylon-12 Crystallisation Variation Depending on 3D Printing Conditions. Polymers, 2020, 12, 1169.	2.0	7
80	Features of formation of colonial settlements of marine benthic diatoms on the surface of synthetic polymer. Marine Biological Journal, 2020, 5, 88-104.	0.3	0
81	New Approach for Fast Residual Strain Estimation Through Rational 2D Diffraction Pattern Processing. Communications in Computer and Information Science, 2020, , 282-288.	0.4	O
82	Engineering Materials Science Using Synchrotron Radiation. , 2020, , 1777-1802.		0
83	Porous Open-Đ;ell UHMWPE: Experimental Study of Structure and Mechanical Properties. Materials, 2019, 12, 2195.	1.3	15
84	Evaluation of single crystal elastic stiffness coefficients of a nickel-based superalloy by electron backscatter diffraction and nanoindentation. Journal of the Mechanics and Physics of Solids, 2019, 131, 303-312.	2.3	13
85	Composite NASICON (Na ₃ Zr ₂ Si ₂ PO ₁₂) Solid-State Electrolyte with Enhanced Na ⁺ Ionic Conductivity: Effect of Liquid Phase Sintering. ACS Applied Materials & Description (Nature 1) Applied Materials (Nature 2) Applied (Nat	4.0	115
86	Effect of Substrate Surface Roughness on Microstructure and Mechanical Properties of Cold-Sprayed Ti6Al4V Coatings on Ti6Al4V Substrates. Journal of Thermal Spray Technology, 2019, 28, 1959-1973.	1.6	25
87	Nanoscale Depth Profiling of Residual Stresses Due to Fine Surface Finishing. Advanced Materials Interfaces, 2019, 6, 1900947.	1.9	23
88	Datasets for multi-scale diffraction analysis (synchrotron XRD and EBSD) of twinning-detwinning during tensile-compressive deformation of AZ31B magnesium alloy samples. Data in Brief, 2019, 26, 104423.	0.5	4
89	Investigations into the interface failure of yttria partially stabilised zirconia - porcelain dental prostheses through microscale residual stress and phase quantification. Dental Materials, 2019, 35, 1576-1593.	1.6	10
90	Nature's neat nanostructuration. Materials Today, 2019, 22, 159-160.	8.3	13

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91	The height Digital Image Correlation (hDIC) technique for the identification of triaxial surface deformations. International Journal of Mechanical Sciences, 2019, 159, 417-423.	3.6	16
92	Transverse fatigue behaviour and residual stress analyses of double sided FSW aluminium alloy joints. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 1980-1990.	1.7	21
93	On the analysis of post weld heat treatment residual stress relaxation in Inconel alloy 740H by combining the principles of artificial intelligence with the eigenstrain theory. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 752, 180-191.	2.6	26
94	A review of experimental approaches to fracture toughness evaluation at the micro-scale. Materials and Design, 2019, 173, 107762.	3.3	167
95	Multi-scale mechanisms of twinning-detwinning in magnesium alloy AZ31B simulated by crystal plasticity modeling and validated via in situ synchrotron XRD and in situ SEM-EBSD. International Journal of Plasticity, 2019, 119, 43-56.	4.1	64
96	Multiscale synchrotron scattering studies of the temperature-dependent changes in the structure and deformation response of a thermoplastic polyurethane elastomer. Materials Today Advances, 2019, 4, 100024.	2.5	10
97	Probing the complex thermo-mechanical properties of a 3D-printed polylactide-hydroxyapatite composite using in situ synchrotron X-ray scattering. Journal of Advanced Research, 2019, 16, 113-122.	4.4	27
98	Generalised residual stress depth profiling at the nanoscale using focused ion beam milling. Journal of the Mechanics and Physics of Solids, 2019, 125, 488-501.	2.3	29
99	On the application of principles of artificial intelligence for eigenstrain reconstruction of volumetric residual stresses in non-uniform Inconel alloy 740H weldments. Finite Elements in Analysis and Design, 2019, 155, 43-51.	1.7	15
100	Residual strain mapping through pair distribution function analysis of the porcelain veneer within a yttria partially stabilised zirconia dental prosthesis. Dental Materials, 2019, 35, 257-269.	1.6	6
101	The effect of surface damage and residual stresses on the fatigue life of nickel superalloys at high temperature. International Journal of Fatigue, 2019, 119, 34-42.	2.8	24
102	Engineering Materials Science Using Synchrotron Radiation. , 2019, , 1-26.		1
103	Combined analysis of structure and strain in engineering materials by neutron and synchrotron X-ray diffraction, and electron microscopy. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, e340-e340.	0.0	0
104	A simplified FEM eigenstrain residual stress reconstruction for surface treatments in arbitrary 3D geometries. International Journal of Mechanical Sciences, 2018, 138-139, 457-466.	3.6	35
105	Nanoscale residual stress depth profiling by Focused Ion Beam milling and eigenstrain analysis. Materials and Design, 2018, 145, 55-64.	3.3	54
106	An Arrhenius equation-based model to predict the residual stress relief of post weld heat treatment of Ti-6Al-4V plate. Journal of Manufacturing Processes, 2018, 32, 763-772.	2.8	41
107	Multiscale analysis of bamboo deformation mechanisms following NaOH treatment using X-ray and correlative microscopy. Acta Biomaterialia, 2018, 72, 329-341.	4.1	19
108	On the origins of strain inhomogeneity in amorphous materials. Scientific Reports, 2018, 8, 1574.	1.6	15

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109	Complex variable formulation for a rigid line inclusion interacting with a generalized singularity. Archive of Applied Mechanics, 2018, 88, 613-627.	1.2	7
110	Nanoscale structural damage due to focused ion beam milling of silicon with Ga ions. Materials Letters, 2018, 213, 346-349.	1.3	38
111	The inclusion of short-transverse displacements in the eigenstrain reconstruction of residual stress and distortion in in740h weldments. Journal of Manufacturing Processes, 2018, 36, 601-612.	2.8	18
112	Influence of Particle Velocity When Propelled Using N2 or N2-He Mixed Gas on the Properties of Cold-Sprayed Ti6Al4V Coatings. Coatings, 2018, 8, 327.	1.2	30
113	On the Dependence of $\hat{I}^3 \hat{a} \in 2$ Precipitate Size in a Nickel-Based Superalloy on the Cooling Rate from Super-Solvus Temperature Heat Treatment. Materials, 2018, 11, 1528.	1.3	15
114	3D-printed PEEK-carbon fiber (CF) composites: Structure and thermal properties. Composites Science and Technology, 2018, 164, 319-326.	3.8	185
115	Evaluation of macro- and microscopic residual stresses in laser shock-peened titanium alloy by FIB-DIC ring-core milling with different core diameters. Surface and Coatings Technology, 2018, 349, 719-724.	2.2	18
116	Separating macro- (Type I) and micro- (Type II+III) residual stresses by ring-core FIB-DIC milling and eigenstrain modelling of a plastically bent titanium alloy bar. Acta Materialia, 2018, 156, 43-51.	3.8	38
117	Residual stresses in single particle splat of metal cold spray process – Numerical simulation and direct measurement. Materials Letters, 2018, 230, 152-156.	1.3	41
118	Influence of size effect and plastic strain gradient on the springback behaviour of metallic materials in microbending process. International Journal of Mechanical Sciences, 2018, 146-147, 105-115.	3.6	26
119	Digital Image Correlation of 2D X-ray Powder Diffraction Data for Lattice Strain Evaluation. Materials, 2018, 11, 427.	1.3	8
120	Nanoscale Origins of the Size Effect in the Compression Response of Single Crystal Ni-Base Superalloy Micro-Pillars. Materials, 2018, 11, 561.	1.3	8
121	In Situ Diagnostics of Damage Accumulation in Ni-Based Superalloys Using High-Temperature Computed Tomography. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 4274-4289.	1.1	4
122	In situ monitoring and analysis of enamel demineralisation using synchrotron X-ray scattering. Acta Biomaterialia, 2018, 77, 333-341.	4.1	14
123	On the identification of eigenstrain sources of welding residual stress in bead-on-plate inconel 740H specimens. International Journal of Mechanical Sciences, 2018, 145, 231-245.	3.6	27
124	Structure-Function Correlative Microscopy of Peritubular and Intertubular Dentine. Materials, 2018, 11, 1493.	1.3	12
125	A 3DP-based procedure for the fabrication of artificial UHMWPE trabecular bone tissue. Biomaterials and Medical Applications, $2018,02,\ldots$	0.0	1
126	Probing the deformation and fracture properties of Cu/W nano-multilayers by in situ SEM and synchrotron XRD strain microscopy. Surface and Coatings Technology, 2017, 320, 158-167.	2.2	14

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127	Characterisation of nanovoiding in dental porcelain using small angle neutron scattering and transmission electron microscopy. Dental Materials, 2017, 33, 486-497.	1.6	5
128	Wear Characteristics of Medical Hearing-Aid Components and Friction Reduction Mechanisms. Journal of Tribology, 2017, 139, .	1.0	1
129	Characterisation of handling and service surface damage on Nickel alloys caused by low velocity impacts of blunt hard objects. Mechanics of Materials, 2017, 107, 45-55.	1.7	9
130	Probing the nano-scale architecture of diamond-patterned electrospun fibre mats by synchrotron small angle X-ray scattering. RSC Advances, 2017, 7, 8200-8204.	1.7	2
131	Photoluminescence Segmentation within Individual Hexagonal Monolayer Tungsten Disulfide Domains Grown by Chemical Vapor Deposition. ACS Applied Materials & Interfaces, 2017, 9, 15005-15014.	4.0	59
132	Eigenstrain reconstruction of residual strains in an additively manufactured and shot peened nickel superalloy compressor blade. Computer Methods in Applied Mechanics and Engineering, 2017, 320, 335-351.	3.4	74
133	An analysis of macro- and micro-scale residual stresses of Type I, II and III using FIB-DIC micro-ring-core milling and crystal plasticity FE modelling. International Journal of Plasticity, 2017, 98, 123-138.	4.1	79
134	Strain softening of nano-scale fuzzy interfaces causes Mullins effect in thermoplastic polyurethane. Scientific Reports, 2017, 7, 916.	1.6	29
135	Introduction and Outline. , 2017, , 1-4.		0
136	Elastic and Inelastic Deformation and Residual Stress. , 2017, , 5-20.		0
137	Simple Residual Stress Systems. , 2017, , 21-40.		0
138	Inelastic Bending of Beams., 2017,, 41-51.		0
139	Plastic Yielding of Cylinders. , 2017, , 53-65.		1
140	Dislocations. , 2017, , 79-92.		1
141	Residual Stress "Measurement― , 2017, , 93-107.		11
142	Microscale Methods of Residual Stress Evaluation. , 2017, , 109-156.		0
143	The Inverse Eigenstrain Method of Residual Stress Reconstruction. , 2017, , 157-165.		O
144	Eigenstrain Methods in Structural Integrity Analysis. , 2017, , 167-172.		0

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145	Separating plasticity-induced closure and residual stress contributions to fatigue crack retardation following an overload. Journal of the Mechanics and Physics of Solids, 2017, 98, 222-235.	2.3	108
146	High resolution imaging and analysis of residual elastic strain in an additively manufactured turbine blade. International Journal of Nanotechnology, 2017, 14, 166.	0.1	3
147	The Eigenstrain Theory of Residual Stress. , 2017, , 67-77.		0
148	Investigation of microstructure within metal welds by energy resolved neutron imaging. Journal of Physics: Conference Series, 2016, 746, 012040.	0.3	5
149	A study of overload effect on fatigue crack propagation using EBSD, FIB–DIC and FEM methods. Engineering Fracture Mechanics, 2016, 167, 210-223.	2.0	54
150	Experimental and modelling characterisation of residual stresses in cylindrical samples of rapidly cooled bulk metallic glass. Materials and Design, 2016, 104, 235-241.	3.3	19
151	Uncertainty quantification of residual stress evaluation by the FIB–DIC ring-core method due to elastic anisotropy effects. International Journal of Solids and Structures, 2016, 87, 61-69.	1.3	43
152	Full in-plane strain tensor analysis using the microscale ring-core FIB milling and DIC approach. Journal of the Mechanics and Physics of Solids, 2016, 94, 47-67.	2.3	24
153	Operando observation of the Taylor cone during electrospinning by multiple synchrotron X-ray techniques. Materials and Design, 2016, 110, 933-934.	3.3	9
154	Fatigue and Fracture behaviour of AZ31b Mg alloy plastically deformed by Constrained Groove Pressing in the Presence of Overloads. Procedia Structural Integrity, 2016, 2, 3772-3781.	0.3	12
155	A review of geometrical and microstructural size effects in micro-scale deformation processing of metallic alloy components. International Journal of Machine Tools and Manufacture, 2016, 109, 94-125.	6.2	109
156	Quantifying eigenstrain distributions induced by focused ion beam damage in silicon. Materials Letters, 2016, 185, 47-49.	1.3	36
157	Elucidating the Mechanism of Fatigue Crack Acceleration Following the Occurrence of an Underload. Advanced Engineering Materials, 2016, 18, 2076-2087.	1.6	22
158	Crack surface morphology and grain misorientation in fatigued aluminium alloy AA7050 samples after interrupted ageing and retrogression-reageing treatments. Procedia Structural Integrity, 2016, 2, 3697-3704.	0.3	2
159	Ripples in amorphous chalcogenide films under homogeneous laser illumination. Materials Letters, 2016, 183, 156-160.	1.3	9
160	Strengthening mechanisms in an Al-Fe-Cr-Ti nano-quasicrystalline alloy and composites. Materials Science & Science & Properties, Microstructure and Processing, 2016, 672, 175-183.	2.6	42
161	Multi-scale Characterisation of the 3D Microstructure of a Thermally-Shocked Bulk Metallic Glass Matrix Composite. Scientific Reports, 2016, 6, 18545.	1.6	7
162	A Na+ Superionic Conductor for Room-Temperature Sodium Batteries. Scientific Reports, 2016, 6, 32330.	1.6	160

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163	Operando X-ray Absorption Spectroscopy Study of Atomic Phase Reversibility with Wavelet Transform in the Lithium-Rich Manganese Based Oxide Cathode. Chemistry of Materials, 2016, 28, 4191-4203.	3.2	30
164	Mitigated phase transition during first cycle of a Li-rich layered cathode studied by in operando synchrotron X-ray powder diffraction. Physical Chemistry Chemical Physics, 2016, 18, 4745-4752.	1.3	33
165	On the fragmentation of active material secondary particles in lithium ion battery cathodes induced by charge cycling. Extreme Mechanics Letters, 2016, 9, 449-458.	2.0	86
166	In operando X-ray absorption spectroscopy study of charge rate effects on the atomic environment in graphene-coated Li-rich mixed oxide cathode. Materials and Design, 2016, 98, 231-242.	3.3	20
167	The effect of eigenstrain induced by ion beam damage on the apparent strain relief in FIB-DIC residual stress evaluation. Materials and Design, 2016, 92, 649-658.	3.3	50
168	Analysis of increasing torque with recurrent slip in interference-fits. Engineering Failure Analysis, 2016, 62, 58-74.	1.8	8
169	High Li ion conductivity in a garnet-type solid electrolyte via unusual site occupation of the doping Ca ions. Materials and Design, 2016, 93, 232-237.	3.3	67
170	Understanding nature's residual strain engineering at the human dentine–enamel junction interface. Acta Biomaterialia, 2016, 32, 256-263.	4.1	23
171	The influence of welding procedure and plate geometry on residual stresses in thick components. International Journal of Solids and Structures, 2016, 80, 420-429.	1.3	54
172	Residual Stress Measurement on Shot Peened Samples Using FIB-DIC. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 275-283.	0.3	2
173	Elastic Behavior of Materials: Continuum Aspects. , 2016, , .		1
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