Richard E Johnston

List of Publications by Year
in descending order

35	529	623574	713332
papers	citations	14 h-index	21 g-index

42	42	42	606
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Indentation Plastometry of Welds. Advanced Engineering Materials, 2022, 24, .	1.6	14
2	Correlating Local Volumetric Tissue Strains with Global Lung Mechanics Measurements. Materials, 2021, 14, 439.	1.3	17
3	Correlative Microscopy: a tool for understanding soil weathering in modern analogues of early terrestrial biospheres. Scientific Reports, 2021, 11, 12736.	1.6	7
4	Modeling the effect of flow-induced mechanical erosion during coffee filtration. Physics of Fluids, 2021, 33, .	1.6	8
5	Time-resolved in situ synchrotron-microCT: 4D deformation of bone and bone analogues using digital volume correlation. Acta Biomaterialia, 2021, 131, 424-439.	4.1	24
6	Effects of TiC content on microstructure and mechanical properties of nickel-based hastelloy X nanocomposites manufactured by selective laser melting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 796, 140008.	2.6	35
7	Evidence of diet, deification, and death within ancient Egyptian mummified animals. Scientific Reports, 2020, 10, 14113.	1.6	9
8	Indomethacin-induced gut damage in a surrogate insect model, Galleria mellonella. Archives of Toxicology, 2019, 93, 2347-2360.	1.9	29
9	Additive manufacturing of high-strength crack-free Ni-based Hastelloy X superalloy. Additive Manufacturing, 2019, 30, 100919.	1.7	48
10	Macro-to-nanoscale investigation of wall-plate joints in the acorn barnacle Semibalanus balanoides : correlative imaging, biological form and function, and bioinspiration. Journal of the Royal Society Interface, 2019, 16, 20190218.	1.5	11
11	What Lies Beneath: 3D vs 2D Correlative Imaging Challenges and How to Overcome Them. Microscopy and Microanalysis, 2019, 25, 416-417.	0.2	4
12	Bridging Industry to Beamline through an Advanced Laboratory-Based Characterisation Facility. Microscopy and Microanalysis, 2019, 25, 786-787.	0.2	0
13	Correlating Microstructure to in situ Micromechanical Behaviour and Toughening Strategies in Biological Materials. Microscopy and Microanalysis, 2019, 25, 372-373.	0.2	2
14	Mechanical characterisation of additively manufactured elastomeric structures for variable strain rate applications. Additive Manufacturing, 2019, 27, 398-407.	1.7	14
15	Morphology of powerful suction organs from blephariceridlarvae living in raging torrents. BMC Zoology, 2019, 4, .	0.3	19
16	The transport of liquids in softwood: timber as a model porous medium. Scientific Reports, 2019, 9, 20282.	1.6	6
17	An Assessment of Polarized Light Microscopy for the Quantification of Grain Size and Orientation in Titanium Alloys via Microanalytical Correlative Light to Electron Microscopy (CLEM). Microscopy and Microanalysis, 2018, 24, 400-401.	0.2	2
18	Cell geometry across the ring structure of Sitka spruce. Journal of the Royal Society Interface, 2018, 15, 20180144.	1.5	9

#	Article	IF	Citations
19	Correlative Imaging and Bio-inspiration: Multi-scale and Multi-modal Investigations of the Acorn Barnacle (Semibalanus balanoides). Microscopy and Microanalysis, 2018, 24, 376-377.	0.2	5
20	Biomechanical properties and microstructure of neonatal porcine ventricles. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 88, 18-28.	1.5	20
21	Region-Specific Microstructure in the Neonatal Ventricles of a Porcine Model. Annals of Biomedical Engineering, 2018, 46, 2162-2176.	1.3	9
22	Microstructural characterisation of a nickel alloy processed via blown powder direct laser deposition (DLD). Materials and Design, 2017, 117, 47-57.	3.3	33
23	Three-dimensional computational model of a blood oxygenator reconstructed from micro-CT scans. Medical Engineering and Physics, 2017, 47, 190-197.	0.8	14
24	Interrelated chemical-microstructural-nanomechanical variations in the structural units of the cuttlebone of Sepia officinalis. APL Materials, 2017, 5, .	2.2	19
25	Phantom creation and analysis: Improving X-Ray microtomography scanning of soft sediment cores containing volcanic ash. Journal of Physics: Conference Series, 2017, 849, 012012.	0.3	1
26	The effects of thermomechanical history on the microstructure of a nickel-base superalloy during forging. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 668, 263-270.	2.6	15
27	Visualizing tephra deposits and sedimentary processes in the marine environment: The potential of Xâ€ray microtomography. Geochemistry, Geophysics, Geosystems, 2015, 16, 4329-4343.	1.0	23
28	Mechanical characterisation of a fibre reinforced oxide/oxide ceramic matrix composite. Journal of the European Ceramic Society, 2015, 35, 4513-4520.	2.8	22
29	Crack growth in the creep-fatigue regime under constrained loading of thin sheet combustor alloys. International Journal of Fatigue, 2012, 42, 82-87.	2.8	4
30	Neural networks for critical high temperature component life prediction. Materials Science and Technology, 2011, 27, 108-114.	0.8	4
31	Mechanical characterisation of AlSi-hBN, NiCrAl-Bentonite, and NiCrAl-Bentonite-hBN freestanding abradable coatings. Surface and Coatings Technology, 2011, 205, 3268-3273.	2.2	51
32	The Sensitivity of Abradable Coating Residual Stresses to Varying Material Properties. Journal of Thermal Spray Technology, 2009, 18, 1004-1013.	1.6	14
33	Stochastic Modelling of Times to Temperature for Furnaces Supplying Titanium Blooms to a Rolling Mill at TIMET. Journal of Applied Statistics, 2007, 34, 383-397.	0.6	1
34	Freestanding abradable coating manufacture and tensile test development. Surface and Coatings Technology, 2007, 202, 725-729.	2.2	24
35	World's slowest-moving drop caught on camera at last. Nature, 0, , .	13.7	9