

Stephen A Hall

List of Publications by Year in descending order

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71
papers

1,944
citations

257450

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265206

42
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73
all docs

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docs citations

73
times ranked

1717
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental quantification of 3D deformations in sensitive clay during stress-probing. <i>Geotechnique</i> , 2023, 73, 655-666.	4.0	5
2	Innovatively processed quinoa (<i>Chenopodium quinoa</i>) food: chemistry, structure and end-use characteristics. <i>Journal of the Science of Food and Agriculture</i> , 2022, 102, 5065-5076.	3.5	15
3	Localised strain in fissured clays: the combined effect of fissure orientation and confining pressure. <i>Acta Geotechnica</i> , 2022, 17, 1585-1603.	5.7	5
4	Quantifying the hierarchy of structural and mechanical length scales in granular systems. <i>Extreme Mechanics Letters</i> , 2022, 51, 101590.	4.1	6
5	Quantifying local rearrangements in three-dimensional granular materials: Rearrangement measures, correlations, and relationship to stresses. <i>Physical Review E</i> , 2022, 105, 014904.	2.1	10
6	Fibre directions at a branch-stem junction in Norway spruce: a microscale investigation using X-ray computed tomography. <i>Wood Science and Technology</i> , 2022, 56, 147-169.	3.2	7
7	Innovative Green Way to Design Biobased Electrospun Fibers from Wheat Gluten and These Fibers' Potential as Absorbents of Biofluids. <i>ACS Environmental Au</i> , 2022, 2, 232-241.	7.0	7
8	Impact of Compression on the Electrochemical Performance of the Sulfur/Carbon Composite Electrode in Lithium-Sulfur Batteries. <i>Batteries and Supercaps</i> , 2022, 5, .	4.7	3
9	Characterisation of Grains and Flour Fractions from Field Grown Transgenic Oil-Accumulating Wheat Expressing Oat WRI1. <i>Plants</i> , 2022, 11, 889.	3.5	1
10	Prolonged heat and drought versus cool climate on the Swedish spring wheat breeding lines: Impact on the gluten protein quality and grain microstructure. <i>Food and Energy Security</i> , 2022, 11, .	4.3	7
11	<i>In situ</i> microstructural evolution of spruce wood during soda pulping using synchrotron X-ray tomography. <i>Holzforschung</i> , 2022, 76, 611-621.	1.9	1
12	Unravelling the deformation process of a compacted paper: in-situ tensile loading, 4D X-ray tomography and image-based analysis. <i>International Journal of Solids and Structures</i> , 2022, 242, 111539.	2.7	2
13	Microscale deformation mechanisms in paperboard during continuous tensile loading and 4D synchrotron X-ray tomography. <i>Strain</i> , 2022, 58, .	2.4	5
14	The scale of a martian hydrothermal system explored using combined neutron and x-ray tomography. <i>Science Advances</i> , 2022, 8, eabn3044.	10.3	4
15	Nanostructurally Controllable Strong Wood Aerogel toward Efficient Thermal Insulation. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 24697-24707.	8.0	34
16	3D Strain Field Evolution and Failure Mechanisms in Anisotropic Paperboard. <i>Experimental Mechanics</i> , 2021, 61, 581-608.	2.0	7
17	Lupin Protein Isolate Structure Diversity in Frozen-Cast Foams: Effects of Transglutaminases and Edible Fats. <i>Molecules</i> , 2021, 26, 1717.	3.8	4
18	The Brittle-Ductile Transition in Porous Limestone: Failure Mode, Constitutive Modeling of Inelastic Deformation and Strain Localization. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB021602.	3.4	14

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19	3D X-ray Diffraction Characterization of Grain Growth and Recrystallization in Rolled Braze Clad Aluminum Sheet. <i>Advanced Engineering Materials</i> , 2021, 23, 2100126.	3.5	1
20	Dual modality neutron and x-ray tomography for enhanced image analysis of the bone-metal interface. <i>Physics in Medicine and Biology</i> , 2021, 66, 135016.	3.0	9
21	3D-printed monolithic biofilters based on a polylactic acid (PLA) – hydroxyapatite (HAp) composite for heavy metal removal from an aqueous medium. <i>RSC Advances</i> , 2021, 11, 32408-32418.	3.6	35
22	Micro/nano-structural evolution in spruce wood during soda pulping. <i>Holzforschung</i> , 2021, 75, 754-764.	1.9	11
23	A Continuity Flow Based Tomographic Reconstruction Algorithm for 4D Multi-Beam High Temporal – Low Angular Sampling. <i>Journal of Imaging</i> , 2021, 7, 246.	3.0	2
24	New Remains of <i>Scandiavis mikkelseni</i> Inform Avian Phylogenetic Relationships and Brain Evolution. <i>Diversity</i> , 2021, 13, 651.	1.7	3
25	A Bibliometric Study on Swedish Neutron Users for the Period 2006 – 2020. <i>Neutron News</i> , 2021, 32, 28-33.	0.2	0
26	Characterisation of Single-Phase Fluid-Flow Heterogeneity Due to Localised Deformation in a Porous Rock Using Rapid Neutron Tomography. <i>Journal of Imaging</i> , 2021, 7, 275.	3.0	3
27	Bone Damage Evolution Around Integrated Metal Screws Using X-Ray Tomography – in situ Pullout and Digital Volume Correlation. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 934.	4.1	16
28	Surface analysis of tissue paper using laser scanning confocal microscopy and micro-computed tomography. <i>Cellulose</i> , 2020, 27, 8989-9003.	4.9	12
29	Sub-trabecular strain evolution in human trabecular bone. <i>Scientific Reports</i> , 2020, 10, 13788.	3.3	27
30	Exploring the visual world of fossilized and modern fungus gnat eyes (Diptera: Keroplatidae) with X-ray microtomography. <i>Journal of the Royal Society Interface</i> , 2020, 17, 20190750.	3.4	14
31	Reconstructing intragranular strain fields in polycrystalline materials from scanning 3DXRD data. <i>Journal of Applied Crystallography</i> , 2020, 53, 314-325.	4.5	36
32	Influence of fissure inclination and confining pressure on the local behaviour of natural clays. <i>E3S Web of Conferences</i> , 2019, 92, 03004.	0.5	2
33	Monitoring of the nano-structure response of natural clay under mechanical perturbation using small angle X-ray scattering and digital image correlation. <i>Acta Geotechnica</i> , 2019, 14, 1965-1975.	5.7	9
34	Fast 4D Imaging of Fluid Flow in Rock by High-Speed Neutron Tomography. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 3557-3569.	3.4	24
35	Combining spectral induced polarization with X-ray tomography to investigate the importance of DNAPL geometry in sand samples. <i>Geophysics</i> , 2019, 84, E173-E188.	2.6	9
36	Long term evolution of microstructure and stress around tin whiskers investigated using scanning Laue microdiffraction. <i>Acta Materialia</i> , 2019, 168, 210-221.	7.9	10

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37	Scanning 3DXRD Measurement of Grain Growth, Stress, and Formation of Cu ₆ Sn ₅ around a Tin Whisker during Heat Treatment. <i>Materials</i> , 2019, 12, 446.	2.9	38
38	Linking multiscale deformation to microstructure in cortical bone using in situ loading, digital image correlation and synchrotron X-ray scattering. <i>Acta Biomaterialia</i> , 2018, 69, 323-331.	8.3	29
39	An alternative method for calibration of flow field flow fractionation channels for hydrodynamic radius determination: The nanoemulsion method (featuring multi angle light scattering). <i>Journal of Chromatography A</i> , 2018, 1533, 155-163.	3.7	4
40	Evidence of 3D strain gradients associated with tin whisker growth. <i>Scripta Materialia</i> , 2018, 144, 1-4.	5.2	21
41	Micromechanics of Granular Media Characterised Using X-Ray Tomography and 3DXRD. <i>Trends in Mathematics</i> , 2018, , 169-176.	0.1	2
42	Investigating the Onset of Strain Localization Within Anisotropic Shale Using Digital Volume Correlation of Time-Resolved X-ray Microtomography Images. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 7509-7528.	3.4	42
43	Fast Tracking of Fluid Invasion Using Time-Resolved Neutron Tomography. <i>Transport in Porous Media</i> , 2018, 124, 117-135.	2.6	7
44	Analysis of Failure Modes in Fiber Reinforced Concrete Using X-ray Tomography and Digital Volume Correlation. <i>Proceedings (mdpi)</i> , 2018, 2, 401.	0.2	2
45	Investigating the Mechanical Characteristics of Bone-Metal Implant Interface Using in situ Synchrotron Tomographic Imaging. <i>Frontiers in Bioengineering and Biotechnology</i> , 2018, 6, 208.	4.1	20
46	Multi-scale mechanics of granular solids from grain-resolved X-ray measurements. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017, 473, 20170491.	2.1	21
47	Time-of-Flight Three Dimensional Neutron Diffraction in Transmission Mode for Mapping Crystal Grain Structures. <i>Scientific Reports</i> , 2017, 7, 9561.	3.3	36
48	Neutron tomographic imaging of bone-implant interface: Comparison with X-ray tomography. <i>Bone</i> , 2017, 103, 295-301.	2.9	29
49	TomoWarp2: A local digital volume correlation code. <i>SoftwareX</i> , 2017, 6, 267-270.	2.6	76
50	An extension of digital volume correlation for multimodality image registration. <i>Measurement Science and Technology</i> , 2017, 28, 095401.	2.6	23
51	Force measurements in stiff, 3D, opaque granular materials. <i>EPJ Web of Conferences</i> , 2017, 140, 02006.	0.3	2
52	Characterization of the bone-metal implant interface by Digital Volume Correlation of in-situ loading using neutron tomography. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 75, 271-278.	3.1	41
53	Quantifying Interparticle Forces and Heterogeneity in 3D Granular Materials. <i>Physical Review Letters</i> , 2016, 117, 098005.	7.8	109
54	Stabilizing nanocellulose-nonionic surfactant composite foams by delayed Ca-induced gelation. <i>Journal of Colloid and Interface Science</i> , 2016, 472, 44-51.	9.4	47

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55	Coupled diffusion-deformation multiphase field model for elastoplastic materials applied to the growth of Cu ₆ Sn ₅ . <i>Acta Materialia</i> , 2016, 108, 98-109.	7.9	30
56	Three-dimensional experimental granular mechanics. <i>Geotechnique Letters</i> , 2015, 5, 236-242.	1.2	17
57	Timelapse ultrasonic tomography for measuring damage localization in geomechanics laboratory tests. <i>Journal of the Acoustical Society of America</i> , 2015, 137, 1389-1400.	1.1	5
58	Characterization of pore structure and strain localization in Majella limestone by X-ray computed tomography and digital image correlation. <i>Geophysical Journal International</i> , 2015, 200, 701-719.	2.4	56
59	Shear-enhanced compaction band identification at the laboratory scale using acoustic and full-field methods. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2014, 67, 240-252.	5.8	38
60	Multi-scale Measurement of (Amorphous) Polymer Deformation: Simultaneous X-ray Scattering, Digital Image Correlation and In-situ Loading. <i>Experimental Mechanics</i> , 2014, 54, 1373-1383.	2.0	14
61	Strain fields and mechanical response of a highly to medium fissured bentonite clay. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2013, 37, 1510-1534.	3.3	30
62	Localized deformation in intensely fissured clays studied by 2D digital image correlation. <i>Acta Geotechnica</i> , 2013, 8, 247-263.	5.7	36
63	Characterization of fluid flow in a shear band in porous rock using neutron radiography. <i>Geophysical Research Letters</i> , 2013, 40, 2613-2618.	4.0	38
64	Experimental micro-mechanics of granular media studied by x-ray tomography: recent results and challenges. <i>Geotechnique Letters</i> , 2013, 3, 142-146.	1.2	125
65	Experimental micromechanics: grain-scale observation of sand deformation. <i>Geotechnique Letters</i> , 2012, 2, 107-112.	1.2	75
66	Experimental characterisation of (localised) Deformation Phenomena in Granular Geomaterials from Sample Down to Inter-and Intra-grain Scales. <i>Procedia IUTAM</i> , 2012, 4, 54-65.	1.2	24
67	Grain-scale experimental investigation of localised deformation in sand: a discrete particle tracking approach. <i>Acta Geotechnica</i> , 2012, 7, 1-13.	5.7	276
68	Characterization of shear and compaction bands in a porous sandstone deformed under triaxial compression. <i>Tectonophysics</i> , 2011, 503, 8-17.	2.2	105
69	Can intergranular force transmission be identified in sand?. <i>Granular Matter</i> , 2011, 13, 251-254.	2.2	51
70	Localised deformation patterning in 2D granular materials revealed by digital image correlation. <i>Granular Matter</i> , 2010, 12, 1-14.	2.2	101
71	The Hydration State of Bone Tissue Affects Contrast in Neutron Tomographic Images. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 10, .	4.1	4