

Erika Tudisco

List of Publications by Year in descending order

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23
papers

585
citations

623734

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all docs

23
docs citations

23
times ranked

794
citing authors

#	ARTICLE	IF	CITATIONS
1	TomoWarp2: A local digital volume correlation code. <i>SoftwareX</i> , 2017, 6, 267-270.	2.6	76
2	Quantifying Bulk Electrode Strain and Material Displacement within Lithium Batteries via High-Speed Operando Tomography and Digital Volume Correlation. <i>Advanced Science</i> , 2016, 3, 1500332.	11.2	66
3	4D analysis of the microstructural evolution of Si-based electrodes during lithiation: Time-lapse X-ray imaging and digital volume correlation. <i>Journal of Power Sources</i> , 2016, 320, 196-203.	7.8	53
4	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
5	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
6	Full-field Measurements of Strain Localisation in Sandstone by Neutron Tomography and 3D-Volumetric Digital Image Correlation. <i>Physics Procedia</i> , 2015, 69, 509-515.	1.2	37
7	Phase-field fracture modelling of crack nucleation and propagation in porous rock. <i>International Journal of Fracture</i> , 2020, 224, 31-46.	2.2	32
8	Neutron tomographic imaging of bone-implant interface: Comparison with X-ray tomography. <i>Bone</i> , 2017, 103, 295-301.	2.9	29
9	Sub-trabecular strain evolution in human trabecular bone. <i>Scientific Reports</i> , 2020, 10, 13788.	3.3	27
10	Localized Deformation in Compression and Folding of Paperboard. <i>Packaging Technology and Science</i> , 2016, 29, 397-414.	2.8	26
11	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
12	An extension of digital volume correlation for multimodality image registration. <i>Measurement Science and Technology</i> , 2017, 28, 095401.	2.6	23
13	A Modified Phase-Field Fracture Model for Simulation of Mixed Mode Brittle Fractures and Compressive Cracks in Porous Rock. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 5375-5388.	5.4	22
14	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
15	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
16	4D porosity evolution during pressure-solution of NaCl in the presence of phyllosilicates. <i>Earth and Planetary Science Letters</i> , 2018, 502, 115-125.	4.4	11
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Fast Tracking of Fluid Invasion Using Time-Resolved Neutron Tomography. <i>Transport in Porous Media</i> , 2018, 124, 117-135.	2.6	7
20	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
21	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
22	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
23	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