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## Dynamic In Situ Three-Dimensional Imaging and Digital Volume Correlation Analysis to Quantify Strain Localization and Fracture Coalescence in Sandstone

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#	Paper	IF	Citations
47	Volumetric and shear processes in crystalline rock approaching faulting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 16234-16239	11.5	30
46	How Porosity Controls Macroscopic Failure via Propagating Fractures and Percolating Force Chains in Porous Granular Rocks. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2019</b> , 124, 9920-9939	3.6	13
45	Synchrotron X-ray imaging in 4D: Multiscale failure and compaction localization in triaxially compressed porous limestone. <i>Earth and Planetary Science Letters</i> , <b>2019</b> , 528, 115831	5.3	21
44	Dynamics of Microscale Precursors During Brittle Compressive Failure in Carrara Marble. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2019</b> , 124, 6121-6139	3.6	20
43	Evolution of pore ensemble in solid and molten aluminum under dynamic tensile fracture: Molecular dynamics simulations and mechanical models. <i>International Journal of Mechanical Sciences</i> , <b>2019</b> , 157-158, 816-832	5.5	20
42	3D Strain Mapping of Opaque Materials Using an Improved Digital Volumetric Speckle Photography Technique with X-Ray Microtomography. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 1418	2.6	8
41	Frontiers in Studies of Earthquakes and Faults: Introduction. <i>Pure and Applied Geophysics</i> , <b>2019</b> , 176, 979-982	2.2	1
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39	Imaging strain localisation in porous andesite using digital volume correlation. <i>Journal of Volcanology and Geothermal Research</i> , <b>2020</b> , 404, 107038	2.8	8
38	The mixology of precursory strain partitioning approaching brittle failure in rocks. <i>Geophysical Journal International</i> , <b>2020</b> , 221, 1856-1872	2.6	7
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35	Effects of mineral composition on the fracture propagation of tight sandstones in the Zizhou area, east Ordos Basin, China. <i>Journal of Natural Gas Science and Engineering</i> , <b>2020</b> , 78, 103334	4.6	4
34	Neutron imaging for geomechanics: A review. <i>Geomechanics for Energy and the Environment</i> , <b>2021</b> , 27, 100206	3.7	8
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32	A three-dimensional multiscale damage-poroelasticity model for fractured porous media. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , <b>2021</b> , 45, 585-630	4	1
31	The competition between fracture nucleation, propagation, and coalescence in dry and water-saturated crystalline rock. <i>Solid Earth</i> , <b>2021</b> , 12, 375-387	3.3	3

30	Formation conditions and evolution of fractures in multiple tight rocks: Implications for unconventional reservoir exploitation. <i>Journal of Petroleum Science and Engineering</i> , <b>2021</b> , 200, 108354	4.4	2
29	3-D strain estimation in sandstone using improved digital volumetric speckle photography algorithm. <i>International Journal of Rock Mechanics and Minings Sciences</i> , <b>2021</b> , 141, 104736	6	2
28	Pore-Scale Imaging and Modelling of Reactive Flow in Evolving Porous Media: Tracking the Dynamics of the Fluid-Rock Interface. <i>Transport in Porous Media</i> , <b>2021</b> , 140, 181	3.1	10
27	Evaluation of Global and Local Digital Volume Correlation for Measuring 3D Deformation in Rocks. <i>Rock Mechanics and Rock Engineering</i> , <b>2021</b> , 54, 4949-4964	5.7	1
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16	Volumetric and shear strain localization throughout triaxial compression experiments on rocks. <i>Tectonophysics</i> , <b>2022</b> , 822, 229181	3.1	1
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