## Jessica A Mcbeck

List of Publications by Year in descending order

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686830 752256 33 476 13 20 g-index citations h-index papers 43 43 43 363 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Predicting Fracture Network Development in Crystalline Rocks. Pure and Applied Geophysics, 2022, 179, 275-299.	0.8	6
2	Volumetric and shear strain localization throughout triaxial compression experiments on rocks. Tectonophysics, 2022, 822, 229181.	0.9	18
3	The Influence of Fracture Growth and Coalescence on the Energy Budget Leading to Failure. Frontiers in Earth Science, 2022, 10, .	0.8	2
4	4D Synchrotron X-ray Imaging of Grain Scale Deformation Mechanisms in a Seismogenic Gas Reservoir Sandstone During Axial Compaction. Rock Mechanics and Rock Engineering, 2022, 55, 4697-4715.	2.6	4
5	Predicting fault reactivation and macroscopic failure in discrete element method simulations of restraining and releasing step overs. Earth and Planetary Science Letters, 2022, 593, 117667.	1.8	3
6	Decrypting healed fault zones: how gouge production reduces the influence of fault roughness. Geophysical Journal International, 2021, 225, 759-774.	1.0	7
7	The competition between fracture nucleation, propagation, and coalescence in dry and water-saturated crystalline rock. Solid Earth, 2021, 12, 375-387.	1.2	13
8	How the force and fracture architectures develop within and around healed fault zones during biaxial loading toward macroscopic failure. Journal of Structural Geology, 2021, 147, 104329.	1.0	2
9	The influence of preexisting host rock damage on fault network localization. Journal of Structural Geology, 2021, 153, 104471.	1.0	6
10	Fracture Network Localization Preceding Catastrophic Failure in Triaxial Compression Experiments on Rocks. Frontiers in Earth Science, 2021, 9, .	0.8	10
11	Imaging strain localisation in porous andesite using digital volume correlation. Journal of Volcanology and Geothermal Research, 2020, 404, 107038.	0.8	14
12	Deformation Precursors to Catastrophic Failure in Rocks. Geophysical Research Letters, 2020, 47, e2020GL090255.	1.5	20
13	Creep Burst Coincident With Faulting in Marble Observed in 4â€D Synchrotron Xâ€Ray Imaging Triaxial Compression Experiments. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB020354.	1.4	9
14	Predicting the propagation and interaction of frontal accretionary thrust faults with work optimization. Tectonophysics, 2020, 786, 228461.	0.9	4
15	Predicting the proximity to macroscopic failure using local strain populations from dynamic in situ X-ray tomography triaxial compression experiments on rocks. Earth and Planetary Science Letters, 2020, 543, 116344.	1.8	23
16	Competition between slow slip and damage on and off faults revealed in 4D synchrotron imaging experiments. Tectonophysics, 2020, 782-783, 228437.	0.9	5
17	How the energy budget scales from the laboratory to the crust in accretionary wedges. Earth and Planetary Science Letters, 2020, 541, 116276.	1.8	4
18	Volumetric and shear processes in crystalline rock approaching faulting. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16234-16239.	3.3	56

#	Article	IF	CITATIONS
19	How Porosity Controls Macroscopic Failure via Propagating Fractures and Percolating Force Chains in Porous Granular Rocks. Journal of Geophysical Research: Solid Earth, 2019, 124, 9920-9939.	1.4	24
20	Isolating the Factors That Govern Fracture Development in Rocks Throughout Dynamic In Situ Xâ€Ray Tomography Experiments. Geophysical Research Letters, 2019, 46, 11127-11135.	1.5	13
21	The evolving energy budget of experimental faults within continental crust: Insights from in situ dynamic X-ray microtomography. Journal of Structural Geology, 2019, 123, 42-53.	1.0	11
22	Mixedâ€Mode Strain Localization Generated by Hydration Reaction at Crustal Conditions. Journal of Geophysical Research: Solid Earth, 2019, 124, 4507-4522.	1.4	15
23	Volumetric and Shear Strain Localization in Mt. Etna Basalt. Geophysical Research Letters, 2019, 46, 2425-2433.	1.5	19
24	Linking macroscopic failure with micromechanical processes in layered rocks: How layer orientation and roughness control macroscopic behavior. Tectonophysics, 2019, 750, 229-242.	0.9	11
25	Dynamic In Situ Three-Dimensional Imaging and Digital Volume Correlation Analysis to Quantify Strain Localization and Fracture Coalescence in Sandstone. Pure and Applied Geophysics, 2019, 176, 1083-1115.	0.8	57
26	The influence of detachment strength on the evolving deformational energy budget of physical accretionary prisms. Solid Earth, 2018, 9, 1421-1436.	1.2	11
27	Investigating the Onset of Strain Localization Within Anisotropic Shale Using Digital Volume Correlation of Timeâ€Resolved Xâ€Ray Microtomography Images. Journal of Geophysical Research: Solid Earth, 2018, 123, 7509-7528.	1.4	42
28	Energy budget and propagation of faults via shearing and opening using work optimization. Journal of Geophysical Research: Solid Earth, 2017, 122, 6757-6772.	1.4	17
29	Work Optimization Predicts the Evolution of Extensional Step Overs Within Anisotropic Host Rock: Implications for the San Pablo Bay, CA. Tectonics, 2017, 36, 2630-2646.	1.3	12
30	Work Optimization Predicts Accretionary Faulting: An Integration of Physical and Numerical Experiments. Journal of Geophysical Research: Solid Earth, 2017, 122, 7485-7505.	1.4	17
31	TRACKING EFFICIENCY ASSOCIATED WITH FAULT SYSTEM REORGANIZATION IN LABORATORY AND NUMERICAL EXPERIMENTS. , 2017, , .		0
32	Growth by Optimization of Work (GROW): A new modeling tool that predicts fault growth through work minimization. Computers and Geosciences, 2016, 88, 142-151.	2.0	14
33	Synchrotron 4D X-Ray Imaging Reveals Strain Localization at the Onset of System-Size Failure in Porous Reservoir Rocks. Pure and Applied Geophysics, 0, , .	0.8	6