## David Goldsby

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Using grain boundary irregularity to quantify dynamic recrystallization in ice. Acta Materialia, 2021, 209, 116810.	3.8	13
2	An Experimental Investigation of the Effect of Grain Size on "Dislocation Creep―of Ice. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB021824.	1.4	6
3	Kinking facilitates grain nucleation and modifies crystallographic preferred orientations during high-stress ice deformation. Earth and Planetary Science Letters, 2021, 572, 117136.	1.8	5
4	Crystallographic Preferred Orientation (CPO) Development Governs Strain Weakening in Ice: Insights From Highâ€Temperature Deformation Experiments. Journal of Geophysical Research: Solid Earth, 2021, 126, .	1.4	6
5	The Rheological Behavior of CO <sub>2</sub> Ice: Application to Glacial Flow on Mars. Geophysical Research Letters, 2020, 47, e2020GL090431.	1.5	6
6	Dislocation interactions during low-temperature plasticity of olivine and their impact on the evolution of lithospheric strength. Earth and Planetary Science Letters, 2020, 543, 116349.	1.8	24
7	Thermal Pressurization Weakening in Laboratory Experiments. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB018872.	1.4	19
8	Deformation Structures From Splay and Décollement Faults in the Nankai Accretionary Prism, SW Japan(IODP NanTroSEIZE Expedition 316): Evidence for Slow and Rapid Slip in Fault Rocks. Geochemistry, Geophysics, Geosystems, 2020, 21, e2019GC008786.	1.0	5
9	Temperature and strain controls on ice deformation mechanisms: insights from the microstructures of samples deformed to progressively higher strains at â^10, â^20 and â^30 °C. Cryosphere, 2020, 14, 3875-3905.	1.5	21
10	Memory Distance for Interfacial Chemical Bond-Induced Friction at the Nanoscale. ACS Nano, 2019, 13, 7425-7434.	7.3	12
11	Lowâ€Temperature Plasticity in Olivine: Grain Size, Strain Hardening, and the Strength of the Lithosphere. Journal of Geophysical Research: Solid Earth, 2019, 124, 5427-5449.	1.4	44
12	Nanoindentation Studies of Plasticity and Dislocation Creep in Halite. Geosciences (Switzerland), 2019, 9, 79.	1.0	14
13	Constraints on the Physical Mechanism of Frictional Aging From Nanoindentation. Geophysical Research Letters, 2018, 45, 13,306.	1.5	15
14	Inhibition of Grain Boundary Sliding in Fineâ€Grained Ice by Intergranular Particles: Implications for Planetary Ice Masses. Geophysical Research Letters, 2018, 45, 12,757.	1.5	15
15	Size effects resolve discrepancies in 40 years of work on low-temperature plasticity in olivine. Science Advances, 2017, 3, e1701338.	4.7	51
16	Nanoscale Roughness of Natural Fault Surfaces Controlled by Scaleâ€Dependent Yield Strength. Geophysical Research Letters, 2017, 44, 9299-9307.	1.5	27
17	Generation of shock lamellae and melting in rocks by lightningâ€induced shock waves and electrical heating. Geophysical Research Letters, 2017, 44, 8757-8768.	1.5	24
18	The down-stress transition from cluster to cone fabrics in experimentally deformed ice. Earth and Planetary Science Letters, 2017, 471, 136-147.	1.8	36

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19	Mineralogical and compositional features of rock fulgurites: A record of lightning effects on granite. American Mineralogist, 2017, 102, 1470-1481.	0.9	29
20	Flash weakening of serpentinite at near-seismic slip rates. Journal of Geophysical Research, 2011, 116, .	3.3	61
21	Frictional ageing from interfacial bonding and the origins of rate and state friction. Nature, 2011, 480, 233-236.	13.7	236
22	Flash Heating Leads to Low Frictional Strength of Crustal Rocks at Earthquake Slip Rates. Science, 2011, 334, 216-218.	6.0	249
23	Rheological and Thermal Properties of Icy Materials. Space Science Reviews, 2010, 153, 273-298.	3.7	87
24	Constitutive relationships and physical basis of fault strength due to flash heating. Journal of Geophysical Research, 2008, 113, .	3.3	210
25	Nanoindentation creep of quartz, with implications for rate- and state-variable friction laws relevant to earthquake mechanics. Journal of Materials Research, 2004, 19, 357-365.	1.2	61
26	Friction falls towards zero in quartz rock as slip velocity approaches seismic rates. Nature, 2004, 427, 436-439.	13.7	479
27	Low frictional strength of quartz rocks at subseismic slip rates. Geophysical Research Letters, 2002, 29, 25-1-25-4.	1.5	231
28	Superplastic deformation of ice: Experimental observations. Journal of Geophysical Research, 2001, 106, 11017-11030.	3.3	527
29	Superplastic Flow of Ice Relevant to Glacier and Ice-Sheet Mechanics. , 0, , 308-314.		18