

# William B Durham

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

32  
papers

2,187  
citations

21  
h-index

32  
g-index

32  
ext. papers

2,354  
ext. citations

6.2  
avg, IF

4.32  
L-index

#	Paper	IF	Citations
32	Dislocation interactions during low-temperature plasticity of olivine and their impact on the evolution of lithospheric strength. <i>Earth and Planetary Science Letters</i> , <b>2020</b> , 543, 116349	5.3	10
31	Plastic Faulting in Ice. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2020</b> , 125, e2019JB018749	3.6	1
30	Low-Temperature Plasticity in Olivine: Grain Size, Strain Hardening, and the Strength of the Lithosphere. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2019</b> , 124, 5427-5449	3.6	25
29	Inhibition of Grain Boundary Sliding in Fine-Grained Ice by Intergranular Particles: Implications for Planetary Ice Masses. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 12,757	4.9	8
28	Measurement of Activation Volume for Creep of Dry Olivine at Upper-Mantle Conditions. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2018</b> , 123, 8459-8473	3.6	9
27	The strength of ice-saturated extraterrestrial rock analogs. <i>Icarus</i> , <b>2018</b> , 315, 61-68	3.8	4
26	Making EBSD on water ice routine. <i>Journal of Microscopy</i> , <b>2015</b> , 259, 237-56	1.9	52
25	Weakening of ice by magnesium perchlorate hydrate. <i>Icarus</i> , <b>2013</b> , 225, 940-948	3.8	5
24	Insight into the phase transformations between ice Ih and ice II from electron backscatter diffraction data. <i>Scripta Materialia</i> , <b>2012</b> , 66, 69-72	5.6	12
23	Precise stress measurements with white synchrotron x rays. <i>Review of Scientific Instruments</i> , <b>2010</b> , 81, 013903	1.7	37
22	Experimental constraints on the strength of the lithospheric mantle. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		107
21	Rheological and Thermal Properties of Icy Materials. <i>Space Science Reviews</i> , <b>2010</b> , 153, 273-298	7.5	76
20	Rheological and Thermal Properties of Icy Materials. <i>Space Sciences Series of ISSI</i> , <b>2010</b> , 271-295	0.1	
19	Mobility of icy sand packs, with application to Martian permafrost. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4.9	23
18	Grain size-sensitive creep in ice II. <i>Science</i> , <b>2006</b> , 311, 1267-9	33.3	17
17	Flow strength of highly hydrated Mg- and Na-sulfate hydrate salts, pure and in mixtures with water ice, with application to Europa. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		24
16	The strength and rheology of methane clathrate hydrate. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		109

15	The deformation-DIA: A new apparatus for high temperature triaxial deformation to pressures up to 15 GPa. <i>Review of Scientific Instruments</i> , <b>2003</b> , 74, 3002-3011	1.7	232
14	Rheology of ice I at low stress and elevated confining pressure. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 11031-11042		62
13	Steady-state flow of solid CO <sub>2</sub> : Preliminary results. <i>Geophysical Research Letters</i> , <b>1999</b> , 26, 3493-3496	4.9	29
12	Creep of water ices at planetary conditions: A compilation. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 16293-16302		113
11	Grain-size-induced weakening of H <sub>2</sub> O ices I and II and associated anisotropic recrystallization. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 5313-5325		40
10	Flow of ices in the ammonia-water system. <i>Journal of Geophysical Research</i> , <b>1993</b> , 98, 17667-17682		52
9	Effects of dispersed particulates on the rheology of water ice at planetary conditions. <i>Journal of Geophysical Research</i> , <b>1992</b> , 97, 20883		123
8	Mantle phase changes and deep-earthquake faulting in subducting lithosphere. <i>Science</i> , <b>1991</b> , 252, 216-253	3.3	389
7	The Brittle-Ductile Transition in Rocks: Recent Experimental and Theoretical Progress. <i>Geophysical Monograph Series</i> , <b>1990</b> , 1-20	1.1	99
6	Rock Deformation Experimentation. <i>Geophysical Monograph Series</i> , <b>1990</b> , 187-194	1.1	91
5	A Triaxial Deformation Apparatus for Service at 77 ± 0.73 K. <i>Geophysical Monograph Series</i> , <b>1990</b> , 225-228	1.1	18
4	Water ice phases II, III, and V: Plastic deformation and phase relationships. <i>Journal of Geophysical Research</i> , <b>1988</b> , 93, 10191-10208		31
3	INELASTIC PROPERTIES OF ICE I <sub>h</sub> AT LOW TEMPERATURES AND HIGH PRESSURES. <i>Journal De Physique Colloque</i> , <b>1987</b> , 48, C1-227-C1-232		12
2	Experimental deformation of polycrystalline H <sub>2</sub> O ice at high pressure and low temperature: Preliminary results. <i>Journal of Geophysical Research</i> , <b>1983</b> , 88, B377		151
1	Plastic flow of oriented single crystals of olivine: 1. Mechanical data. <i>Journal of Geophysical Research</i> , <b>1977</b> , 82, 5737-5753		226