

William B Durham

List of Publications by Citations

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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	Mantle phase changes and deep-earthquake faulting in subducting lithosphere. <i>Science</i> , 1991 , 252, 216-253	3.3	389
31	The deformation-DIA: A new apparatus for high temperature triaxial deformation to pressures up to 15 GPa. <i>Review of Scientific Instruments</i> , 2003 , 74, 3002-3011	1.7	232
30	Plastic flow of oriented single crystals of olivine: 1. Mechanical data. <i>Journal of Geophysical Research</i> , 1977 , 82, 5737-5753		226
29	Experimental deformation of polycrystalline H ₂ O ice at high pressure and low temperature: Preliminary results. <i>Journal of Geophysical Research</i> , 1983 , 88, B377		151
28	Effects of dispersed particulates on the rheology of water ice at planetary conditions. <i>Journal of Geophysical Research</i> , 1992 , 97, 20883		123
27	Creep of water ices at planetary conditions: A compilation. <i>Journal of Geophysical Research</i> , 1997 , 102, 16293-16302		113
26	The strength and rheology of methane clathrate hydrate. <i>Journal of Geophysical Research</i> , 2003 , 108,		109
25	Experimental constraints on the strength of the lithospheric mantle. <i>Journal of Geophysical Research</i> , 2010 , 115,		107
24	The Brittle-Ductile Transition in Rocks: Recent Experimental and Theoretical Progress. <i>Geophysical Monograph Series</i> , 1990 , 1-20	1.1	99
23	Rock Deformation Experimentation. <i>Geophysical Monograph Series</i> , 1990 , 187-194	1.1	91
22	Rheological and Thermal Properties of Icy Materials. <i>Space Science Reviews</i> , 2010 , 153, 273-298	7.5	76
21	Rheology of ice I at low stress and elevated confining pressure. <i>Journal of Geophysical Research</i> , 2001 , 106, 11031-11042		62
20	Making EBSD on water ice routine. <i>Journal of Microscopy</i> , 2015 , 259, 237-56	1.9	52
19	Flow of ices in the ammonia-water system. <i>Journal of Geophysical Research</i> , 1993 , 98, 17667-17682		52
18	Grain-size-induced weakening of H ₂ O ices I and II and associated anisotropic recrystallization. <i>Journal of Geophysical Research</i> , 1997 , 102, 5313-5325		40
17	Precise stress measurements with white synchrotron x rays. <i>Review of Scientific Instruments</i> , 2010 , 81, 013903	1.7	37
16	Water ice phases II, III, and V: Plastic deformation and phase relationships. <i>Journal of Geophysical Research</i> , 1988 , 93, 10191-10208		31

15	Steady-state flow of solid CO ₂ : Preliminary results. <i>Geophysical Research Letters</i> , 1999 , 26, 3493-3496	4.9	29
14	Low-Temperature Plasticity in Olivine: Grain Size, Strain Hardening, and the Strength of the Lithosphere. <i>Journal of Geophysical Research: Solid Earth</i> , 2019 , 124, 5427-5449	3.6	25
13	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> , 2005 , 110,		24
12	Mobility of icy sand packs, with application to Martian permafrost. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	23
11	A Triaxial Deformation Apparatus for Service at 77 ± 273 K. <i>Geophysical Monograph Series</i> , 1990 , 225-228	1	18
10	Grain size-sensitive creep in ice II. <i>Science</i> , 2006 , 311, 1267-9	33.3	17
9	Insight into the phase transformations between ice Ih and ice II from electron backscatter diffraction data. <i>Scripta Materialia</i> , 2012 , 66, 69-72	5.6	12
8	INELASTIC PROPERTIES OF ICE Ih AT LOW TEMPERATURES AND HIGH PRESSURES. <i>Journal De Physique Colloque</i> , 1987 , 48, C1-227-C1-232		12
7	Dislocation interactions during low-temperature plasticity of olivine and their impact on the evolution of lithospheric strength. <i>Earth and Planetary Science Letters</i> , 2020 , 543, 116349	5.3	10
6	Measurement of Activation Volume for Creep of Dry Olivine at Upper-Mantle Conditions. <i>Journal of Geophysical Research: Solid Earth</i> , 2018 , 123, 8459-8473	3.6	9
5	Inhibition of Grain Boundary Sliding in Fine-Grained Ice by Intergranular Particles: Implications for Planetary Ice Masses. <i>Geophysical Research Letters</i> , 2018 , 45, 12,757	4.9	8
4	Weakening of ice by magnesium perchlorate hydrate. <i>Icarus</i> , 2013 , 225, 940-948	3.8	5
3	The strength of ice-saturated extraterrestrial rock analogs. <i>Icarus</i> , 2018 , 315, 61-68	3.8	4
2	Plastic Faulting in Ice. <i>Journal of Geophysical Research: Solid Earth</i> , 2020 , 125, e2019JB018749	3.6	1
1	Rheological and Thermal Properties of Icy Materials. <i>Space Sciences Series of ISSI</i> , 2010 , 271-295	0.1	