

William B Durham

List of Publications by Year in descending order

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32
papers

2,608
citations

304701

22
h-index

434170

31
g-index

32
all docs

32
docs citations

32
times ranked

1863
citing authors

#	ARTICLE	IF	CITATIONS
1	Mantle Phase Changes and Deep-Earthquake Faulting in Subducting Lithosphere. <i>Science</i> , 1991, 252, 216-225.	12.6	442
2	Plastic flow of oriented single crystals of olivine: 1. Mechanical data. <i>Journal of Geophysical Research</i> , 1977, 82, 5737-5753.	3.3	264
3	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.	1.3	262
4	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.	3.3	165
5	The strength and rheology of methane clathrate hydrate. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	141
6	Effects of dispersed particulates on the rheology of water ice at planetary conditions. <i>Journal of Geophysical Research</i> , 1992, 97, 20883-20897.	3.3	140
7	Experimental constraints on the strength of the lithospheric mantle. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	136
8	Creep of water ices at planetary conditions: A compilation. <i>Journal of Geophysical Research</i> , 1997, 102, 16293-16302.	3.3	132
9	The brittle-ductile transition in rocks: Recent experimental and theoretical progress. <i>Geophysical Monograph Series</i> , 1990, , 1-20.	0.1	128
10	Rock deformation experimentation. <i>Geophysical Monograph Series</i> , 1990, , 187-194.	0.1	117
11	Rheological and Thermal Properties of Icy Materials. <i>Space Science Reviews</i> , 2010, 153, 273-298.	8.1	87
12	Rheology of ice I at low stress and elevated confining pressure. <i>Journal of Geophysical Research</i> , 2001, 106, 11031-11042.	3.3	73
13	Flow of ices in the ammonia-water system. <i>Journal of Geophysical Research</i> , 1993, 98, 17667-17682.	3.3	64
14	Making EBSD on water ice routine. <i>Journal of Microscopy</i> , 2015, 259, 237-256.	1.8	64
15	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.	3.3	46
16	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.	3.4	44
17	Precise stress measurements with white synchrotron x rays. <i>Review of Scientific Instruments</i> , 2010, 81, 013903.	1.3	42
18	Steady-state flow of solid CO ₂ : Preliminary results. <i>Geophysical Research Letters</i> , 1999, 26, 3493-3496.	4.0	34

#	ARTICLE	IF	CITATIONS
19	Water ice phases II, III, and V: Plastic deformation and phase relationships. <i>Journal of Geophysical Research</i> , 1988, 93, 10191-10208.	3.3	33
20	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, .	3.3	30
21	Mobility of icy sand packs, with application to Martian permafrost. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	26
22	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.	4.4	24
23	A triaxial deformation apparatus for service at 77 ± T ± 273 K. <i>Geophysical Monograph Series</i> , 1990, , 225-228.	0.1	21
24	Grain Size-Sensitive Creep in Ice II. <i>Science</i> , 2006, 311, 1267-1269.	12.6	18
25	INELASTIC PROPERTIES OF ICE I _h AT LOW TEMPERATURES AND HIGH PRESSURES. <i>Journal De Physique Colloque</i> , 1987, 48, C1-227-C1-232.	0.2	18
26	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.	4.0	15
27	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.	3.4	15
28	Insight into the phase transformations between ice Ih and ice II from electron backscatter diffraction data. <i>Scripta Materialia</i> , 2012, 66, 69-72.	5.2	12
29	Weakening of ice by magnesium perchlorate hydrate. <i>Icarus</i> , 2013, 225, 940-948.	2.5	6
30	The strength of ice-saturated extraterrestrial rock analogs. <i>Icarus</i> , 2018, 315, 61-68.	2.5	6
31	Plastic Faulting in Ice. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018749.	3.4	3
32	Rheological and Thermal Properties of Icy Materials. <i>Space Sciences Series of ISSI</i> , 2010, , 271-295.	0.0	0