Derek L Schutt

List of Publications by Year in Descending Order

25 papers	881 citations	16 h-index	28 g-index
28 ext. papers	1,005 ext. citations	3.5 avg, IF	4.26 L-index

#	Paper	IF	Citations
25	Wet roots of high elevation in the western United States. *Earth and Planetary Science Letters*, **2022**, 584, 117483	5.3	
24	Surface-Wave Tomography of the Northern Canadian Cordillera Using Earthquake Rayleigh Wave Group Velocities. *Journal of Geophysical Research: Solid Earth*, **2021**, 126, e2021JB021960	3.6	2
23	A comparison of oceanic and continental mantle lithosphere. *Physics of the Earth and Planetary Interiors*, **2020**, 309, 106600	2.3	11
22	Continental lithospheric temperatures: A review. *Physics of the Earth and Planetary Interiors*, **2020**, 306, 106509	2.3	15
21	The Mackenzie Mountains EarthScope Project: Studying Active Deformation in the Northern North American Cordillera from Margin to Craton. *Seismological Research Letters*, **2020**, 91, 521-532	3	5
20	Seismic evidence for craton chiseling and displacement of lithospheric mantle by the Tintina fault in the northern Canadian Cordillera. *Geology*, **2020**, 48, 1120-1125	5	5
19	Moho Variations across the Northern Canadian Cordillera. *Seismological Research Letters*, **2020**, 91, 3076-3085	5	5
18	Moho temperature and mobility of lower crust in the western United States. *Geology*, **2018**, 46, 219-222	5	27
17	Toolbox for Analysis of Flexural Isostasy (TAFI): A MATLAB toolbox for modeling flexural deformation of the lithosphere **2017**, 13, 1555-1565		5
16	3-D multiobservable probabilistic inversion for the compositional and thermal structure of the lithosphere and upper mantle: III. Thermochemical tomography in the Western-Central U.S.. *Journal of Geophysical Research: Solid Earth*, **2016**, 121, 7337-7370	3.6	47
15	Cause of Upper Triassic climate crisis revealed by Re-Os geochemistry of Boreal black shales. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2014**, 395, 222-232	2.9	45
14	The effects of polybaric partial melting on density and seismic velocities of mantle restites. *Lithos*, **2012**, 134-135, 289-303	2.9	34
13	Compositional trends among Kaapvaal Craton garnet peridotite xenoliths and their effects on seismic velocity and density. *Earth and Planetary Science Letters*, **2010**, 300, 367-373	5.3	49
12	The influence of plume head–lithosphere interaction on magmatism associated with the Yellowstone hotspot track. *Journal of Volcanology and Geothermal Research*, **2009**, 188, 68-85	2.8	20
11	Thermal structure beneath the Snake River Plain: Implications for the Yellowstone hotspot. *Journal of Volcanology and Geothermal Research*, **2009**, 188, 57-67	2.8	47
10	Testing five of the simplest upper mantle anisotropic velocity parameterizations using teleseismic S and SKS data from the Billings, Montana PASSCAL array. *Journal of Geophysical Research*, **2008**, 113,		11
9	Crust and upper mantle velocity structure of the Yellowstone hot spot and surroundings. *Journal of Geophysical Research*, **2008**, 113,		41

8	Imaging Yellowstone plume-lithosphere interactions from inversion of ballistic and diffusive Rayleigh wave dispersion and crustal thickness data. *Geochemistry, Geophysics, Geosystems*, **2008**, 9, n/a-n/a	3.6	55
7	Temperature of the plume layer beneath the Yellowstone hotspot. *Geology*, **2008**, 36, 623	5	22
6	Effects of melt depletion on the density and seismic velocity of garnet and spinel lherzolite. *Journal of Geophysical Research*, **2006**, 111, n/a-n/a		216
5	Models of lithosphere and asthenosphere anisotropic structure of the Yellowstone hot spot from shear wave splitting. *Journal of Geophysical Research*, **2005**, 110,		26
4	Xenolith constraints on seismic velocities in the upper mantle beneath southern Africa. *Geochemistry, Geophysics, Geosystems*, **2004**, 5, n/a-n/a	3.6	105
3	P and S wave velocity and VP/VS in the wake of the Yellowstone hot spot. *Journal of Geophysical Research*, **2004**, 109,		28
2	Evidence for a deep asthenosphere beneath North America from western United States SKS splits. *Geology*, **2001**, 29, 291	5	29
1	Anisotropy of the Yellowstone Hot Spot Wake, Eastern Snake River Plain, Idaho. *Pure and Applied Geophysics*, **1998**, 151, 443-462	2.2	31