

# Derek L Schutt

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4552097/publications.pdf>

Version: 2024-02-01

26  
papers

1,135  
citations

471061

17  
h-index

610482

24  
g-index

28  
all docs

28  
docs citations

28  
times ranked

1176  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of melt depletion on the density and seismic velocity of garnet and spinel lherzolite. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	251
2	Xenolith constraints on seismic velocities in the upper mantle beneath southern Africa. <i>Geochemistry, Geophysics, Geosystems</i> , 2004, 5, n/a-n/a.	1.0	121
3	Imaging Yellowstone plume–lithosphere interactions from inversion of ballistic and diffusive Rayleigh wave dispersion and crustal thickness data. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	1.0	68
4	3D multiobservable probabilistic inversion for the compositional and thermal structure of the lithosphere and upper mantle: III. Thermochemical tomography in the Western–Central U.S.. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 7337-7370.	1.4	67
5	Crust and upper mantle velocity structure of the Yellowstone hot spot and surroundings. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	57
6	Compositional trends among Kaapvaal Craton garnet peridotite xenoliths and their effects on seismic velocity and density. <i>Earth and Planetary Science Letters</i> , 2010, 300, 367-373.	1.8	57
7	Cause of Upper Triassic climate crisis revealed by Re–Os geochemistry of Boreal black shales. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2014, 395, 222-232.	1.0	57
8	Moho temperature and mobility of lower crust in the western United States. <i>Geology</i> , 2018, 46, 219-222.	2.0	56
9	Thermal structure beneath the Snake River Plain: Implications for the Yellowstone hotspot. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 188, 57-67.	0.8	52
10	The effects of polybaric partial melting on density and seismic velocities of mantle restites. <i>Lithos</i> , 2012, 134-135, 289-303.	0.6	42
11	Continental lithospheric temperatures: A review. <i>Physics of the Earth and Planetary Interiors</i> , 2020, 306, 106509.	0.7	41
12	Anisotropy of the Yellowstone Hot Spot Wake, Eastern Snake River Plain, Idaho. <i>Pure and Applied Geophysics</i> , 1998, 151, 443-462.	0.8	34
13	Models of lithosphere and asthenosphere anisotropic structure of the Yellowstone hot spot from shear wave splitting. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	32
14	Evidence for a deep asthenosphere beneath North America from western United States SKS splits. <i>Geology</i> , 2001, 29, 291.	2.0	31
15	PandSwave velocity and VP/VS in the wake of the Yellowstone hot spot. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	30
16	Temperature of the plume layer beneath the Yellowstone hotspot. <i>Geology</i> , 2008, 36, 623.	2.0	28
17	The influence of plume head–lithosphere interaction on magmatism associated with the Yellowstone hotspot track. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 188, 68-85.	0.8	22
18	A comparison of oceanic and continental mantle lithosphere. <i>Physics of the Earth and Planetary Interiors</i> , 2020, 309, 106600.	0.7	20

#	ARTICLE	IF	CITATIONS
19	Surfaceâ€Wave Tomography of the Northern Canadian Cordillera Using Earthquake Rayleigh Wave Group Velocities. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB021960.	1.4	13
20	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, .	3.3	11
21	Seismic evidence for craton chiseling and displacement of lithospheric mantle by the Tintina fault in the northern Canadian Cordillera. Geology, 2020, 48, 1120-1125.	2.0	11
22	Moho Variations across the Northern Canadian Cordillera. Seismological Research Letters, 2020, 91, 3076-3085.	0.8	11
23	Toolbox for Analysis of Flexural Isostasy (TAFI)â€”A MATLAB toolbox for modeling flexural deformation of the lithosphere. , 2017, 13, 1555-1565.		10
24	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.	0.8	10
25	Evidence for asthenospheric flow rotation in northwest Canada: insights from shear wave splitting. Geophysical Journal International, 2021, 228, 1780-1792.	1.0	3
26	Wet roots of high elevation in the western United States. Earth and Planetary Science Letters, 2022, 584, 117483.	1.8	0