

Hersh Gilbert

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.

40
papers

1,435
citations

21
h-index

37
g-index

42
ext. papers

1,600
ext. citations

7.3
avg, IF

4.52
L-index

#	Paper	IF	Citations
40	Active foundering of a continental arc root beneath the southern Sierra Nevada in California. <i>Nature</i> , 2004 , 431, 41-6	50.4	322
39	Lithospheric and upper mantle structure of central Chile and Argentina. <i>Geophysical Journal International</i> , 2006 , 165, 383-398	2.6	122
38	Continental and oceanic crustal structure of the Pampean flat slab region, western Argentina, using receiver function analysis: new high-resolution results. <i>Geophysical Journal International</i> , 2011 , 186, 45-58	2.6	94
37	2012 , 8, 141		82
36	Structure of the Sierra Nevada from receiver functions and implications for lithospheric foundering 2011 , 7, 898-921		72
35	Upper mantle discontinuity structure beneath East Anatolian Plateau (Turkey) from receiver functions. <i>Earth and Planetary Science Letters</i> , 2008 , 269, 427-435	5.3	64
34	Effect of slab temperature on deep-earthquake aftershock productivity and magnitude-frequency relations. <i>Nature</i> , 1996 , 384, 153-156	50.4	62
33	Mantle discontinuity structure beneath the southern east pacific rise from P-to-S converted phases. <i>Science</i> , 1998 , 280, 1232-5	33.3	58
32	P-wave tomography of potential convective downwellings and their source regions, Sierra Nevada, California 2014 , 10, 505-533		38
31	Shear wave velocities in the Pampean flat-slab region from Rayleigh wave tomography: Implications for slab and upper mantle hydration. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		38
30	Crustal structure across the central Alaska Range: Anatomy of a Mesozoic collisional zone. <i>Geochemistry, Geophysics, Geosystems</i> , 2011 , 12, n/a-n/a	3.6	34
29	Estimating a Continuous Moho Surface for the California Unified Velocity Model. <i>Seismological Research Letters</i> , 2012 , 83, 728-735	3	30
28	Shear velocity structure beneath the central United States: implications for the origin of the Illinois Basin and intraplate seismicity. <i>Geochemistry, Geophysics, Geosystems</i> , 2016 , 17, 1020-1041	3.6	29
27	Crustal structure of the Eastern Sierras Pampeanas of Argentina using high frequency local receiver functions. <i>Tectonophysics</i> , 2012 , 580, 208-217	3.1	26
26	Preservation of Proterozoic terrane boundaries within the Colorado Plateau and implications for its tectonic evolution. <i>Earth and Planetary Science Letters</i> , 2007 , 258, 237-248	5.3	26
25	Upper mantle discontinuity structure in the region of the Tonga Subduction Zone. <i>Geophysical Research Letters</i> , 2001 , 28, 1855-1858	4.9	26
24	The basement revealed: Tectonic insight from a digital elevation model of the Great Unconformity, USA cratonic platform. <i>Geology</i> , 2017 , 45, 391-394	5	25

23	Seismic images of crustal variations beneath the East Anatolian Plateau (Turkey) from teleseismic receiver functions. <i>Geological Society Special Publication</i> , 2010 , 340, 485-496	1.7	24
22	2012 , 8, 1310		24
21	Seismicity within the actively deforming Eastern Sierras Pampeanas, Argentina. <i>Geophysical Journal International</i> , 2012 , 188, 408-420	2.6	22
20	Neogene and Quaternary tectonics of the Eastern Sierras Pampeanas, Argentina: Active intraplate deformation inboard of flat-slab subduction. <i>Tectonics</i> , 2013 , 32, 780-796	4.3	22
19	Imaging Sierra Nevada lithospheric sinking. <i>Eos</i> , 2007 , 88, 225	1.5	19
18	Detailed crustal thickness variations beneath the Illinois Basin area: Implications for crustal evolution of the midcontinent. <i>Journal of Geophysical Research: Solid Earth</i> , 2017 , 122, 6323-6345	3.6	17
17	Lithospheric discontinuities beneath the U.S. Midcontinent: Signatures of Proterozoic terrane accretion and failed rifting. <i>Earth and Planetary Science Letters</i> , 2018 , 481, 223-235	5.3	17
16	Flat-slab subduction and crustal models for the seismically active Sierras Pampeanas region of Argentina 2009 ,		17
15	Mantle flow through a tear in the Nazca slab inferred from shear wave splitting. <i>Geophysical Research Letters</i> , 2017 , 44, 6735-6742	4.9	15
14	Aftershock sequences of moderate-sized intermediate and deep earthquakes in the Tonga Subduction Zone. <i>Geophysical Research Letters</i> , 1997 , 24, 2059-2062	4.9	15
13	Converted wave imaging of the Toba Caldera, Indonesia. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	15
12	Crustal signatures of the tectonic development of the North American midcontinent. <i>Earth and Planetary Science Letters</i> , 2016 , 433, 339-349	5.3	14
11	Seismicity of the Ste. Genevieve Seismic Zone Based on Observations from the EarthScope OIINK Flexible Array. <i>Seismological Research Letters</i> , 2014 , 85, 1285-1294	3	14
10	Seismological estimates of means of isostatic support of the Sierra Nevada 2013 , 9, 1552-1561		11
9	Support of high elevation in the southern Basin and Range based on the composition and architecture of the crust in the Basin and Range and Colorado Plateau. <i>Earth and Planetary Science Letters</i> , 2006 , 249, 62-73	5.3	11
8	A multicomponent Isabella anomaly: Resolving the physical state of the Sierra Nevada upper mantle from Vp/Vs anisotropy tomography 2019 , 15, 2018-2042		7
7	Improved imaging with phase-weighted common conversion point stacks of receiver functions. <i>Geophysical Journal International</i> , 2010 , no-no	2.6	6
6	New insights on regional tectonics and basement composition beneath the eastern Sierras Pampeanas (Argentine back-arc region) from seismological and gravity data. <i>Tectonophysics</i> , 2018 , 740-741, 42-52	3.1	6

5	Lithospheric structure of the Pampean flat slab region from double-difference tomography. <i>Journal of South American Earth Sciences</i> , 2020 , 97, 102417	2	5
4	Structure and Dynamics of the Southern Rocky Mountain Trench near Valemount, British Columbia, Inferred from Local Seismicity. <i>Seismological Research Letters</i> , 2021 , 92, 3087-3099	3	2
3	Unusually deep earthquakes in the central Sierra Nevada (California, USA): Foundering ultramafic lithosphere? 2020 , 16, 357-377		1
2	Nonlinear Multiple Earthquake Location and Velocity Estimation in the Canadian Rocky Mountain Trench. <i>Bulletin of the Seismological Society of America</i> , 2020 , 110, 3103-3114	2-3	1
1	Resolving the Cenozoic History of Rock Exhumation Along the Central Rocky Mountain Trench Using Apatite Low-Temperature Thermochronology. <i>Tectonics</i> , 2021 , 40, e2021TC006847	4-3	1