

Geoffrey A Abers

List of Publications by Year in Descending Order

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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.

76
papers

6,571
citations

39
h-index

81
g-index

86
ext. papers

7,414
ext. citations

5.6
avg. IF

6.07
L-index

#	Paper	IF	Citations
76	Subduction of an Oceanic Plateau Across Southcentral Alaska: Scattered-Wave Imaging. <i>Journal of Geophysical Research: Solid Earth</i> , 2022 , 127,	3.6	5
75	Subduction of an Oceanic Plateau Across Southcentral Alaska: High-Resolution Seismicity. <i>Journal of Geophysical Research: Solid Earth</i> , 2021 , 126, e2021JB022809	3.6	5
74	P- and S-Wave Velocities of Exhumed Metasediments From the Alaskan Subduction Zone: Implications for the In Situ Conditions Along the Megathrust. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL094511	4.9	1
73	Anisotropy Variations in the Alaska Subduction Zone Based on Shear-Wave Splitting From Intraslab Earthquakes. <i>Geochemistry, Geophysics, Geosystems</i> , 2021 , 22, e2020GC009558	3.6	1
72	Teleseismic Attenuation, Temperature, and Melt of the Upper Mantle in the Alaska Subduction Zone. <i>Journal of Geophysical Research: Solid Earth</i> , 2021 , 126, e2021JB021653	3.6	3
71	Shallow Slow Earthquake Episodes Near the Trench Axis off Costa Rica. <i>Journal of Geophysical Research: Solid Earth</i> , 2021 , 126, e2021JB021706	3.6	1
70	Shear Wave Splitting and Mantle Flow Beneath Alaska. <i>Journal of Geophysical Research: Solid Earth</i> , 2020 , 125, e2019JB018329	3.6	10
69	Local Source Vp and Vs Tomography in the Mount St. Helens Region With the iMUSH Broadband Array. <i>Geochemistry, Geophysics, Geosystems</i> , 2020 , 21, e2019GC008888	3.6	13
68	First-Order Mantle Subduction-Zone Structure Effects on Ground Motion: The 2016 Mw 7.1 Iniskin and 2018 Mw 7.1 Anchorage Earthquakes. <i>Seismological Research Letters</i> , 2020 , 91, 85-93	3	8
67	Deep decoupling in subduction zones: Observations and temperature limits 2020 , 16, 1408-1424		9
66	3D Seismic Velocity Models for Alaska from Joint Tomographic Inversion of Body-Wave and Surface-Wave Data. <i>Seismological Research Letters</i> , 2020 , 91, 3106-3119	3	9
65	The Alaska Amphibious Community Seismic Experiment. <i>Seismological Research Letters</i> , 2020 , 91, 3054-3063	3.6	6
64	Thermal Structure of the Forearc in Subduction Zones: A Comparison of Methodologies. <i>Geochemistry, Geophysics, Geosystems</i> , 2019 , 20, 3268-3288	3.6	11
63	The causes of spatiotemporal variations in erupted fluxes and compositions along a volcanic arc. <i>Nature Communications</i> , 2019 , 10, 1350	17.4	20
62	Imaging Subduction Beneath Mount St. Helens: Implications for Slab Dehydration and Magma Transport. <i>Geophysical Research Letters</i> , 2019 , 46, 3163-3171	4.9	10
61	SKS Splitting Beneath Mount St. Helens: Constraints on Subslab Mantle Entrainment. <i>Geochemistry, Geophysics, Geosystems</i> , 2019 , 20, 4202-4217	3.6	4
60	Shear Velocity Structure From Ambient Noise and Teleseismic Surface Wave Tomography in the Cascades Around Mount St. Helens. <i>Journal of Geophysical Research: Solid Earth</i> , 2019 , 124, 8358-8375	3.6	7

59	Amphibious surface-wave phase-velocity measurements of the Cascadia subduction zone. <i>Geophysical Journal International</i> , 2019 , 217, 1929-1948	2.6	25
58	Enhanced Resolution of the Subducting Plate Interface in Central Alaska From Autocorrelation of Local Earthquake Coda. <i>Journal of Geophysical Research: Solid Earth</i> , 2019 , 124, 1583-1600	3.6	15
57	Mafic High-Pressure Rocks Are Preferentially Exhumed From Warm Subduction Settings. <i>Geochemistry, Geophysics, Geosystems</i> , 2018 , 19, 2934-2961	3.6	45
56	Connections between subducted sediment, pore-fluid pressure, and earthquake behavior along the Alaska megathrust. <i>Geology</i> , 2018 , 46, 299-302	5	25
55	The cold and relatively dry nature of mantle forearcs in subduction zones. <i>Nature Geoscience</i> , 2017 , 10, 333-337	18.3	93
54	High seismic attenuation at a mid-ocean ridge reveals the distribution of deep melt. <i>Science Advances</i> , 2017 , 3, e1602829	14.3	41
53	Tsunamigenic structures in a creeping section of the Alaska subduction zone. <i>Nature Geoscience</i> , 2017 , 10, 609-613	18.3	42
52	Seismic evidence for a cold serpentized mantle wedge beneath Mount St Helens. <i>Nature Communications</i> , 2016 , 7, 13242	17.4	39
51	Southeast Papuan crustal tectonics: Imaging extension and buoyancy of an active rift. <i>Journal of Geophysical Research: Solid Earth</i> , 2016 , 121, 951-971	3.6	29
50	A MATLAB toolbox and Excel workbook for calculating the densities, seismic wave speeds, and major element composition of minerals and rocks at pressure and temperature. <i>Geochemistry, Geophysics, Geosystems</i> , 2016 , 17, 616-624	3.6	77
49	A joint inversion for shear velocity and anisotropy: the Woodlark Rift, Papua New Guinea. <i>Geophysical Journal International</i> , 2016 , 206, 807-824	2.6	6
48	Imaging the Plate Interface in the Cascadia Seismogenic Zone: New Constraints from Offshore Receiver Functions. <i>Seismological Research Letters</i> , 2015 , 86, 1261-1269	3	31
47	Link between plate fabric, hydration and subduction zone seismicity in Alaska. <i>Nature Geoscience</i> , 2015 , 8, 961-964	18.3	95
46	Imaging continental breakup using teleseismic body waves: The Woodlark Rift, Papua New Guinea. <i>Geochemistry, Geophysics, Geosystems</i> , 2015 , 16, 2529-2548	3.6	23
45	Magmatic arc structure around Mount Rainier, WA, from the joint inversion of receiver functions and surface wave dispersion. <i>Geochemistry, Geophysics, Geosystems</i> , 2015 , 16, 178-194	3.6	9
44	Alaska Megathrust 2: Imaging the megathrust zone and Yakutat/Pacific plate interface in the Alaska subduction zone. <i>Journal of Geophysical Research: Solid Earth</i> , 2014 , 119, 1924-1941	3.6	43
43	Physical state of Himalayan crust and uppermost mantle: Constraints from seismic attenuation and velocity tomography. <i>Journal of Geophysical Research: Solid Earth</i> , 2014 , 119, 567-580	3.6	33
42	Insights into mantle structure and flow beneath Alaska based on a decade of observations of shear wave splitting. <i>Journal of Geophysical Research: Solid Earth</i> , 2014 , 119, 8366-8377	3.6	10

41	Reconciling mantle attenuation-temperature relationships from seismology, petrology, and laboratory measurements. <i>Geochemistry, Geophysics, Geosystems</i> , 2014 , 15, 3521-3542	3.6	53
40	Anisotropy beneath a highly extended continental rift. <i>Geochemistry, Geophysics, Geosystems</i> , 2014 , 15, 545-564	3.6	20
39	Thermal-petrological controls on the location of earthquakes within subducting plates. <i>Earth and Planetary Science Letters</i> , 2013 , 369-370, 178-187	5.3	111
38	Alaska megathrust 1: Seismicity 43 years after the great 1964 Alaska megathrust earthquake. <i>Journal of Geophysical Research: Solid Earth</i> , 2013 , 118, 4861-4871	3.6	29
37	Crustal structure along the Aleutian island arc: New insights from receiver functions constrained by active-source data. <i>Geochemistry, Geophysics, Geosystems</i> , 2013 , 14, 2977-2992	3.6	38
36	Subduction Factory 5: Unusually low Poisson's ratios in subduction zones from elastic anisotropy of peridotite. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		31
35	Predicted velocity and density structure of the exhuming Papua New Guinea ultrahigh-pressure terrane. <i>Journal of Geophysical Research</i> , 2011 , 116,		29
34	Shallow structure of the Cascadia subduction zone beneath western Washington from spectral ambient noise correlation. <i>Journal of Geophysical Research</i> , 2011 , 116,		30
33	New geophysical insight into the origin of the Denali volcanic gap. <i>Geophysical Journal International</i> , 2010 , 182, 613-630	2.6	52
32	Seismic anisotropy under central Alaska from SKS splitting observations. <i>Journal of Geophysical Research</i> , 2010 , 115,		39
31	Imaging a steeply dipping subducting slab in Southern Central America. <i>Earth and Planetary Science Letters</i> , 2010 , 296, 459-468	5.3	28
30	The global range of subduction zone thermal models. <i>Physics of the Earth and Planetary Interiors</i> , 2010 , 183, 73-90	2.3	1044
29	Shear wave anisotropy beneath Nicaragua and Costa Rica: Implications for flow in the mantle wedge. <i>Geochemistry, Geophysics, Geosystems</i> , 2009 , 10, n/a-n/a	3.6	44
28	Determination of surface-wave phase velocities across USArray from noise and Aki's spectral formulation. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	140
27	Imaging the source region of Cascadia tremor and intermediate-depth earthquakes. <i>Geology</i> , 2009 , 37, 1119-1122	5	98
26	Seismic tomography and earthquake locations in the Nicaraguan and Costa Rican upper mantle. <i>Geochemistry, Geophysics, Geosystems</i> , 2008 , 9, n/a-n/a	3.6	77
25	Strong along-arc variations in attenuation in the mantle wedge beneath Costa Rica and Nicaragua. <i>Geochemistry, Geophysics, Geosystems</i> , 2008 , 9, n/a-n/a	3.6	79
24	Phase velocities from seismic noise using beamforming and cross correlation in Costa Rica and Nicaragua. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	50

23	Seismic imaging of subduction zone metamorphism. <i>Geology</i> , 2008 , 36, 275	5	153
22	Global compilation of variations in slab depth beneath arc volcanoes and implications. <i>Geochemistry, Geophysics, Geosystems</i> , 2006 , 7, n/a-n/a	3.6	403
21	Unusual mantle Poisson's ratio, subduction, and crustal structure in central Alaska. <i>Journal of Geophysical Research</i> , 2006 , 111,		65
20	Imaging the transition from Aleutian subduction to Yakutat collision in central Alaska, with local earthquakes and active source data. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a		189
19	The thermal structure of subduction zones constrained by seismic imaging: Implications for slab dehydration and wedge flow. <i>Earth and Planetary Science Letters</i> , 2006 , 241, 387-397	5.3	182
18	Crustal thickness variation in south-central Alaska. <i>Geology</i> , 2006 , 34, 781	5	47
17	Crustal structure across the transition from rifting to spreading: the Woodlark rift system of Papua New Guinea. <i>Geophysical Journal International</i> , 2006 , 166, 622-634	2.6	37
16	Thermal structure of the Costa Rica-Nicaragua subduction zone. <i>Physics of the Earth and Planetary Interiors</i> , 2005 , 149, 187-200	2.3	132
15	Seismic low-velocity layer at the top of subducting slabs: observations, predictions, and systematics. <i>Physics of the Earth and Planetary Interiors</i> , 2005 , 149, 7-29	2.3	147
14	Subduction Factory 3: An Excel worksheet and macro for calculating the densities, seismic wave speeds, and H ₂ O contents of minerals and rocks at pressure and temperature. <i>Geochemistry, Geophysics, Geosystems</i> , 2004 , 5, n/a-n/a	3.6	215
13	Seismic attenuation and mantle wedge temperatures in the Alaska subduction zone. <i>Journal of Geophysical Research</i> , 2004 , 109,		127
12	Subduction factory 1. Theoretical mineralogy, densities, seismic wave speeds, and H ₂ O contents. <i>Journal of Geophysical Research</i> , 2003 , 108,		591
11	Subduction factory 2. Are intermediate-depth earthquakes in subducting slabs linked to metamorphic dehydration reactions?. <i>Journal of Geophysical Research</i> , 2003 , 108,		619
10	High resolution image of the subducted Pacific (?) plate beneath central Alaska, 50-150 km depth. <i>Earth and Planetary Science Letters</i> , 2003 , 214, 575-588	5.3	186
9	Mantle compensation of active metamorphic core complexes at Woodlark rift in Papua New Guinea. <i>Nature</i> , 2002 , 418, 862-5	50.4	65
8	Evidence for seismogenic normal faults at shallow dips in continental rifts. <i>Geological Society Special Publication</i> , 2001 , 187, 305-318	1.7	26
7	Shallow dips of normal faults during rapid extension: Earthquakes in the Woodlark-D'Entrecasteaux rift system, Papua New Guinea. <i>Journal of Geophysical Research</i> , 1997 , 102, 15301-15317		107
6	Slab low-velocity layer in the eastern Aleutian subduction zone. <i>Geophysical Journal International</i> , 1997 , 130, 640-648	2.6	46

5	Source scaling of earthquakes in the shumagin region, Alaska: time-domain inversions of regional waveforms. <i>Geophysical Journal International</i> , 1995 , 123, 41-58	2.6	30
4	Seismic anisotropy beneath the Shumagin Islands segment of the Aleutian-Alaska subduction zone. <i>Journal of Geophysical Research</i> , 1995 , 100, 18165-18177		84
3	Crustal thickness variations across the Colorado Rocky Mountains from teleseismic receiver functions. <i>Journal of Geophysical Research</i> , 1995 , 100, 20391-20404		114
2	Possible seismogenic shallow-dipping normal faults in the Woodlark-D'Entrecasteaux extensional province, Papua New Guinea. <i>Geology</i> , 1991 , 19, 1205	5	94
1	Deep structure of an arc-continent collision: Earthquake relocation and inversion for upper mantle P and S wave velocities beneath Papua New Guinea. <i>Journal of Geophysical Research</i> , 1991 , 96, 6379-6401		116