

Andrew Calvert

List of Publications by Year in descending order

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69
papers

2,212
citations

279798

23
h-index

233421

45
g-index

74
all docs

74
docs citations

74
times ranked

1587
citing authors

#	ARTICLE	IF	CITATIONS
1	Archaean subduction inferred from seismic images of a mantle suture in the Superior Province. <i>Nature</i> , 1995, 375, 670-674.	27.8	329
2	Inverse Q filtering by Fourier transform. <i>Geophysics</i> , 1991, 56, 519-527.	2.6	245
3	Archean continental assembly in the southeastern Superior Province of Canada. <i>Tectonics</i> , 1999, 18, 412-429.	2.8	158
4	Continental crust generated in oceanic arcs. <i>Nature Geoscience</i> , 2015, 8, 321-327.	12.9	94
5	Three-dimensional crustal structure of the Mariana island arc from seismic tomography. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	76
6	Sedimentary underplating at the Cascadia mantle-wedge corner revealed by seismic imaging. <i>Nature Geoscience</i> , 2011, 4, 545-548.	12.9	74
7	Crustal-scale shortening and extension across the Grenville Province of western Québec. <i>Tectonics</i> , 1996, 15, 376-386.	2.8	64
8	Seismic reflection imaging of two megathrust shear zones in the northern Cascadia subduction zone. <i>Nature</i> , 2004, 428, 163-167.	27.8	64
9	Radio tomography and borehole radar delineation of the McConnell nickel sulfide deposit, Sudbury, Ontario, Canada. <i>Geophysics</i> , 2000, 65, 1920-1930.	2.6	56
10	Archaean crustal growth and tectonic processes: a comparison of the Superior Province, Canada and the Dharwar Craton, India. <i>Geological Society Special Publication</i> , 1997, 121, 63-98.	1.3	53
11	Crustal evolution along a seismic section across the Grenville Province (western Quebec). <i>Canadian Journal of Earth Sciences</i> , 2000, 37, 291-306.	1.3	51
12	Crustal structure of Atlantic fracture zones – I. The Charlie-Gibbs Fracture Zone. <i>Geophysical Journal International</i> , 1986, 85, 107-138.	2.4	50
13	Deep, high-amplitude reflections from a major shear zone above the subducting Juan de Fuca plate. <i>Geology</i> , 1990, 18, 1091.	4.4	49
14	Seismic evidence for a magma chamber beneath the slow-spreading Mid-Atlantic Ridge. <i>Nature</i> , 1995, 377, 410-414.	27.8	41
15	Seismic evidence for hydrothermally altered mantle beneath old crust in the Tydemans fracture zone. <i>Earth and Planetary Science Letters</i> , 1985, 75, 439-449.	4.4	40
16	Seismic evidence for preservation of the Archean Uchi granite “greenstone belt by crustal-scale extension. <i>Tectonophysics</i> , 2004, 388, 135-143.	2.2	39
17	The Seismic Structure of Island Arc Crust. <i>Frontiers in Earth Sciences</i> , 2011, , 87-119.	0.1	37
18	Local thickening of the Cascadia forearc crust and the origin of seismic reflectors in the uppermost mantle. <i>Tectonophysics</i> , 2006, 420, 175-188.	2.2	36

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19	LITHOPROBE reflection studies of Archean and Proterozoic crust in Canada. <i>Tectonophysics</i> , 1996, 264, 65-88.	2.2	35
20	Seismic reflection constraints on imbrication and underplating of the northern Cascadia convergent margin. <i>Canadian Journal of Earth Sciences</i> , 1996, 33, 1294-1307.	1.3	35
21	Seismic evidence of bending and unbending of subducting oceanic crust and the presence of mantle megathrust in the 2004 Great Sumatra earthquake rupture zone. <i>Earth and Planetary Science Letters</i> , 2012, 321-322, 166-176.	4.4	35
22	Cascadia low frequency earthquakes at the base of an overpressured subduction shear zone. <i>Nature Communications</i> , 2020, 11, 3874.	12.8	33
23	Shallow, high-resolution seismic imaging at the Ansil mining camp in the Abitibi greenstone belt. <i>Geophysics</i> , 1998, 63, 379-391.	2.6	26
24	Imaging the Seattle Fault Zone with high-resolution seismic tomography. <i>Geophysical Research Letters</i> , 2001, 28, 2337-2340.	4.0	24
25	Application of waveform tomography to marine seismic reflection data from the Queen Charlotte Basin of western Canada. <i>Geophysics</i> , 2011, 76, B55-B70.	2.6	21
26	Crustal structure of Atlantic Fracture Zones - III. The Tydemman fracture zone. <i>Geophysical Journal International</i> , 1986, 86, 909-942.	2.4	20
27	Seismic reflection imaging over a massive sulfide deposit at the Matagami mining camp, QuÃ©bec. <i>Geophysics</i> , 1999, 64, 24-32.	2.6	20
28	A review of high-resolution seismic profiling across the Sudbury, Selbaie, Noranda, and Matagami mining camps. <i>Canadian Journal of Earth Sciences</i> , 2000, 37, 503-516.	1.3	20
29	Seismic reflection imaging of ultradeep roots beneath the eastern Aleutian island arc. <i>Geology</i> , 2013, 41, 203-206.	4.4	20
30	Seismic reflection constraints from Lithoprobe line 29 on the upper crustal structure of the northern Abitibi greenstone belt. <i>Canadian Journal of Earth Sciences</i> , 1995, 32, 128-134.	1.3	18
31	A link between deformation history and the orientation of reflective structures in the 2.68-2.83 Ga Opatca belt of the Canadian Superior Province. <i>Journal of Geophysical Research</i> , 1997, 102, 15243-15257.	3.3	18
32	Along-strike variations in the shallow seismic velocity structure of the Seattle fault zone: Evidence for fault segmentation beneath Puget Sound. <i>Journal of Geophysical Research</i> , 2003, 108, ESE 1-1-ESE 1-14.	3.3	16
33	Seismic evidence for the migration of fluids within the accretionary complex of western Canada. <i>Canadian Journal of Earth Sciences</i> , 1991, 28, 542-556.	1.3	15
34	A method for avoiding artifacts in the migration of deep seismic reflection data. <i>Tectonophysics</i> , 2004, 388, 201-212.	2.2	15
35	Archaean continental spreading inferred from seismic images of the Yilgarn Craton. <i>Nature Geoscience</i> , 2018, 11, 526-530.	12.9	15
36	Oceanic rift propagationâ€”A cause of crustal underplating, and seamount volcanism. <i>Geology</i> , 1990, 18, 886.	4.4	14

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37	Ray-tracing-based prediction and subtraction of water-layer multiples. <i>Geophysics</i> , 1990, 55, 443-451.	2.6	13
38	Eocene and Neogene volcanic rocks in the southeastern Nechako Basin, British Columbia: interpretation of the Canadian Hunter seismic reflection surveys using first-arrival tomography. <i>Canadian Journal of Earth Sciences</i> , 2009, 46, 707-720.	1.3	13
39	Seismic velocity and attenuation structures of the Queen Charlotte Basin from full-waveform tomography of seismic reflection data. <i>Geophysics</i> , 2012, 77, B107-B124.	2.6	13
40	Interferometric seismic imaging around the active Lalor mine in the Flin Flon greenstone belt, Canada. <i>Tectonophysics</i> , 2017, 718, 92-104.	2.2	13
41	Backscattered coherent noise and seismic reflection imaging of the oceanic crust: An example from the rift valley of the Mid-Atlantic Ridge at 23°N. <i>Journal of Geophysical Research</i> , 1997, 102, 5119-5133.	3.3	12
42	Observations of non-volcanic tremor during the northern Cascadia slow-slip event in February 2002. <i>Geophysical Research Letters</i> , 2006, 33, n/a-n/a.	4.0	12
43	Seismic reflection and tomographic velocity model constraints on the evolution of the Tofino forearc basin, British Columbia. <i>Geophysical Journal International</i> , 2007, 168, 634-646.	2.4	12
44	Magmatic, hydrothermal and ore element transfer processes of the southeastern Archean Superior Province implied from electrical resistivity structure. <i>Gondwana Research</i> , 2022, 105, 84-95.	6.0	12
45	Propagating rift pseudofaults – Zones of crustal underplating imaged by multichannel seismic reflection data. <i>Geophysical Research Letters</i> , 1992, 19, 485-488.	4.0	11
46	Possible emplacement of crustal rocks into the forearc mantle of the Cascadia Subduction Zone. <i>Geophysical Research Letters</i> , 2003, 30, n/a-n/a.	4.0	11
47	Seismic waveform tomography across the Seattle Fault Zone in Puget Sound: resolution analysis and effectiveness of visco-acoustic inversion of viscoelastic data. <i>Geophysical Journal International</i> , 2013, 193, 763-787.	2.4	11
48	Integrated geophysical interpretation of crustal structures in the northern Abitibi belt: constraints from seismic amplitude analysis. <i>Canadian Journal of Earth Sciences</i> , 1996, 33, 1343-1362.	1.3	10
49	Crustal geometry of the Abitibi Subprovince, in light of three-dimensional seismic reflector orientations. <i>Canadian Journal of Earth Sciences</i> , 1998, 35, 569-582.	1.3	10
50	Frugal full-waveform inversion: From theory to a practical algorithm. <i>The Leading Edge</i> , 2013, 32, 1082-1092.	0.7	10
51	Seismic and gravity constraints on the crustal architecture of the Intermontane terranes, central Yukon. <i>Canadian Journal of Earth Sciences</i> , 2017, 54, 798-811.	1.3	10
52	The structure of the Charlie-Gibbs Fracture Zone. <i>Journal of the Geological Society</i> , 1986, 143, 819-821.	2.1	9
53	Interpretation of structures in the southeastern Nechako Basin, British Columbia, from seismic reflection, well log, and potential field data ¹ This article is one of a series of papers published in this Special Issue on the theme of <i>New insights in Cordilleran Intermontane geoscience: reducing exploration risk in the mountain pine beetle-affected area</i> , British Columbia ² Geological Survey of Canada Contribution 2010002 .. <i>Canadian Journal of Earth Sciences</i> , 2011, 48, 1000-1020.	1.3	9
54	A Double Difference Tomography Study of the Washington Forearc: Does Siletzia Control Crustal Seismicity?. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB019750.	3.4	9

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55	Seismic reflections from a lithospheric suture zone below the Archaean Yilgarn Craton. <i>Nature Communications</i> , 2021, 12, 7245.	12.8	9
56	Continuous estimation of 3-D reflector orientations along 2-D deep seismic reflection profiles. <i>Tectonophysics</i> , 2017, 718, 61-71.	2.2	7
57	11. A Comparison of 2D Seismic Lines Shot over the Ansil and Bell Allard Mines in the Abitibi Greenstone Belt. , 2003, , 164-177.		6
58	Structural variation along the Devil's Mountain fault zone, northwestern Washington. <i>Canadian Journal of Earth Sciences</i> , 2006, 43, 433-446.	1.3	5
59	The Tydeman: morphology and seismic structure of old fracture zone crust. <i>Journal of the Geological Society</i> , 1986, 143, 789-793.	2.1	4
60	Imaging the upper part of the Red Lake greenstone belt, northwestern Ontario, with 3-D traveltome tomography. <i>Canadian Journal of Earth Sciences</i> , 2006, 43, 849-863.	1.3	4
61	Seismic interpretation of crustal-scale extension in the Intermontane Belt of the northern Canadian Cordillera. <i>Geology</i> , 2016, 44, 447-450.	4.4	4
62	Coda waves in the Northern Cascadia Subduction Zone. <i>Bulletin of the Seismological Society of America</i> , 2016, 106, 1939-1947.	2.3	4
63	Deep seismic reflection constraints on Paleogene crustal extension in the south-central Intermontane belt, British Columbia. <i>Canadian Journal of Earth Sciences</i> , 2014, 51, 393-406.	1.3	3
64	Migration of reflector orientation attributes in deep seismic profiles: evidence for decoupling of the Yilgarn Craton lower crust. <i>Solid Earth</i> , 2019, 10, 637-645.	2.8	3
65	New geoscientific constraints on the hydrocarbon potential of the Nechako-Chilcotin plateau of central British Columbia. <i>Canadian Journal of Earth Sciences</i> , 2014, 51, v-ix.	1.3	2
66	Distribution of Paleogene and Cretaceous rocks around the Nazko River belt of central British Columbia from 3-D long-offset first-arrival seismic tomography. <i>Canadian Journal of Earth Sciences</i> , 2014, 51, 358-372.	1.3	2
67	Seismic constraints on the structure of the Fantangis (Celestial) serpentinite mud volcano in the Mariana subduction zone. <i>Geophysical Journal International</i> , 2019, 218, 762-772.	2.4	2
68	Mitigation of guided wave contamination in waveform tomography of marine seismic reflection data from southwestern Alaska. <i>Geophysics</i> , 2016, 81, B101-B118.	2.6	1
69	On: "Suppression of sea-floor-scattered energy using a dip-moveout approach" Application to the mid-ocean ridge environment by G. M. Kent, I. I. Kim, A. J. Harding, R. S. Detrick, and J. A. Orcutt (May-June) <i>Tectonophysics</i> 10.78431/10.78431		