

Colin A Zelt

List of Publications by Year in descending order

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58
papers

3,756
citations

257450

24
h-index

197818

49
g-index

59
all docs

59
docs citations

59
times ranked

2079
citing authors

#	ARTICLE	IF	CITATIONS
1	Seismic traveltimes inversion for 2-D crustal velocity structure. <i>Geophysical Journal International</i> , 1992, 108, 16-34.	2.4	1,338
2	Three-dimensional seismic refraction tomography: A comparison of two methods applied to data from the Faeroe Basin. <i>Journal of Geophysical Research</i> , 1998, 103, 7187-7210.	3.3	481
3	Modelling strategies and model assessment for wide-angle seismic traveltimes data. <i>Geophysical Journal International</i> , 1999, 139, 183-204.	2.4	325
4	Lateral velocity resolution from three-dimensional seismic refraction data. <i>Geophysical Journal International</i> , 1998, 135, 1101-1112.	2.4	173
5	Assessment of crustal velocity models using seismic refraction and reflection tomography. <i>Geophysical Journal International</i> , 2003, 153, 609-626.	2.4	151
6	Lithospheric structure in the southern Canadian Cordillera from a network of seismic refraction lines. <i>Canadian Journal of Earth Sciences</i> , 1995, 32, 1485-1513.	1.3	138
7	Magma reservoirs from the upper crust to the Moho inferred from high-resolution Vp and Vs models beneath Mount St. Helens, Washington State, USA. <i>Geology</i> , 2016, 44, 411-414.	4.4	94
8	3D seismic refraction traveltimes tomography at a groundwater contamination site. <i>Geophysics</i> , 2006, 71, H67-H78.	2.6	76
9	Seismic investigation of the continental margin off- and onshore Valparaiso, Chile. <i>Tectonophysics</i> , 1998, 288, 251-263.	2.2	60
10	Waveform tomography at a groundwater contamination site: VSP-surface data set. <i>Geophysics</i> , 2006, 71, H1-H11.	2.6	55
11	Detecting a known near-surface target through application of frequency-dependent traveltimes tomography and full-waveform inversion to P- and SH-wave seismic refraction data. <i>Geophysics</i> , 2017, 82, R1-R17.	2.6	55
12	Waveform tomography at a groundwater contamination site: Surface reflection data. <i>Geophysics</i> , 2007, 72, G45-G55.	2.6	54
13	Comparative velocity structure of active Hawaiian volcanoes from 3-D onshore-offshore seismic tomography. <i>Earth and Planetary Science Letters</i> , 2007, 259, 500-516.	4.4	40
14	Focusing of melt near the top of the Mount St. Helens (USA) magma reservoir and its relationship to major volcanic eruptions. <i>Geology</i> , 2018, 46, 775-778.	4.4	36
15	3D simultaneous seismic refraction and reflection tomography of wide-angle data from the Central Chilean Margin. <i>Geophysical Research Letters</i> , 1999, 26, 2577-2580.	4.0	34
16	Testing the resolution of a 3D velocity tomogram across the Chicxulub crater. <i>Tectonophysics</i> , 2002, 355, 215-226.	2.2	34
17	Deep structure beneath Lake Ontario: crustal-scale Grenville subdivisions. <i>Canadian Journal of Earth Sciences</i> , 1994, 31, 255-270.	1.3	31
18	Prestack depth migration of dense wide-angle seismic data. <i>Tectonophysics</i> , 1998, 286, 193-208.	2.2	31

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19	Crustal structure of the South American–Caribbean plate boundary at 67°W from controlled source seismic data. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	31
20	Volcano–tectonic implications of 3-D velocity structures derived from joint active and passive source tomography of the island of Hawaii. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	31
21	Frequency-dependent traveltimes tomography for near-surface seismic refraction data. <i>Geophysical Journal International</i> , 2016, 207, 72-88.	2.4	27
22	Imaging of subvolcanic Mesozoics in the Saurashtra peninsula of India using traveltimes inversion of wide-angle seismic data. <i>Geophysical Journal International</i> , 2002, 150, 820-826.	2.4	26
23	Seismic imaging of the Naga thrust using multiscale waveform inversion. <i>Geophysics</i> , 2009, 74, WCC129-WCC140.	2.6	26
24	Three-dimensional crustal velocity structure beneath the Strait of Georgia, British Columbia. <i>Geophysical Journal International</i> , 2001, 144, 695-712.	2.4	26
25	Evolution of the Southern Caribbean Plate Boundary. <i>Eos</i> , 2006, 87, 97.	0.1	25
26	Blind Test of Methods for Obtaining 2-D Near-Surface Seismic Velocity Models from First-Arrival Traveltimes. <i>Journal of Environmental and Engineering Geophysics</i> , 2013, 18, 183-194.	0.5	25
27	Seismic structure of the Central Metasedimentary Belt, southern Grenville Province. <i>Canadian Journal of Earth Sciences</i> , 1994, 31, 243-254.	1.3	24
28	2-D traveltimes and waveform inversion for improved seismic imaging: Naga Thrust and Fold Belt, India. <i>Geophysical Journal International</i> , 2008, 173, 642-658.	2.4	24
29	Three-dimensional structure across the Tintina strike-slip fault, northern Canadian Cordillera, from seismic refraction and reflection tomography. <i>Geophysical Journal International</i> , 2006, 167, 1292-1308.	2.4	22
30	Imaging a shallow aquifer in temperate glacial sediments using seismic reflection profiling with DMO processing. <i>Geophysics</i> , 1998, 63, 1248-1256.	2.6	21
31	Seismic characterization of a gas hydrate system in the Gulf of Mexico using wide-aperture data. <i>Geophysical Journal International</i> , 2006, 165, 108-120.	2.4	20
32	Crustal thickness variations in Venezuela from deep seismic observations. <i>Tectonophysics</i> , 2008, 459, 14-26.	2.2	20
33	Crust structure of the North China Craton from a long-range seismic wide-angle-reflection/refraction data. <i>Tectonophysics</i> , 2014, 634, 237-245.	2.2	20
34	Crustal structure of the northern Yukon and Mackenzie Delta, northwestern Canada. <i>Journal of Geophysical Research</i> , 1995, 100, 9905-9920.	3.3	19
35	<i>P</i> - and <i>S</i> -velocity structure of the South Portuguese Zone fold-and-thrust belt, SW Iberia, from traveltimes tomography. <i>Geophysical Journal International</i> , 2008, 175, 689-712.	2.4	19
36	Study of out-of-plane effects in the inversion of refraction/wide-angle reflection traveltimes. <i>Tectonophysics</i> , 1998, 286, 209-221.	2.2	17

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37	Application of Frequency-dependent Traveltime Tomography and Full Waveform Inversion to Realistic Near-surface Seismic Refraction Data. <i>Journal of Environmental and Engineering Geophysics</i> , 2016, 21, 1-12.	0.5	15
38	3-D velocity structure from simultaneous traveltime inversion of in-line seismic data along intersecting profiles. <i>Geophysical Journal International</i> , 1994, 118, 795-801.	2.4	12
39	Three-dimensional seismic-reflection imaging of a shallow buried paleochannel. <i>Geophysics</i> , 2008, 73, B85-B98.	2.6	11
40	Detecting an underground tunnel by applying joint traveltime and waveform inversion. <i>Journal of Applied Geophysics</i> , 2020, 174, 103957.	2.1	11
41	Crust and upper mantle velocity structure of the southern Rocky Mountains from the Jemez Lineament to the Cheyenne belt. <i>Geophysical Monograph Series</i> , 2005, , 293-308.	0.1	10
42	Crust and upper mantle Q from seismic refraction data: Peace River region. <i>Canadian Journal of Earth Sciences</i> , 1990, 27, 1040-1047.	1.3	9
43	Comparison of Full Wavefield Synthetics with Frequency-Dependent Traveltimes Calculated Using Wavelength-Dependent Velocity Smoothing. <i>Journal of Environmental and Engineering Geophysics</i> , 2017, 22, 133-141.	0.5	9
44	Unified imaging of multichannel seismic data: Combining traveltime inversion and prestack depth migration. <i>Geophysics</i> , 2008, 73, VE269-VE280.	2.6	7
45	A case history; Application of frequency-dependent traveltime tomography and full waveform inversion to a known near-surface target. , 2013, , .		7
46	Gravity inversion using seismically derived crustal density models and genetic algorithms: an application to the Caribbean-South American Plate boundary. <i>Geophysical Journal International</i> , 2011, 185, 577-592.	2.4	6
47	Data weighted full-waveform inversion with adaptive moment estimation for near-surface seismic refraction data. , 2019, , .		6
48	Rift zone abandonment and reconfiguration in Hawaii: Mauna Loa's Ninole rift zone. <i>Geology</i> , 2010, 38, 471-474.	4.4	5
49	Gravity inversion for rifted margin deep structure using extension and isostatic constraints. <i>Geophysical Journal International</i> , 1999, 138, 435-446.	2.4	4
50	Seismic waveform tomography with multicomponent data at a groundwater contamination site. , 2009, , .		4
51	Seismic velocity, Q, geological structure and lithology estimation at a ground water contamination site. , 2005, , .		3
52	Comparison of near-coincident crustal refraction and extended vibroseis reflection data: Peace River Region, Canada. <i>Geophysical Research Letters</i> , 1989, 16, 843-846.	4.0	2
53	Traveltime Tomography Using Controlled-Source Seismic Data. <i>Encyclopedia of Earth Sciences Series</i> , 2021, , 1828-1848.	0.1	2
54	Using elastic wave seismic data to image an ultra-shallow buried paleochannel. , 2006, , .		2

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55	Near-surface imaging with traveltimes and waveform inversion. , 2008, , .		1
56	Traveltime Tomography Using Controlled-Source Seismic Data. Encyclopedia of Earth Sciences Series, 2020, , 1-22.	0.1	1
57	Seismic refraction analysis: The path forward. Eos, 2012, 93, 305-306.	0.1	0
58	2D waveform and traveltimes inversion for seismic imaging of the Naga thrust fault, India. , 2007, , .		0