Robert S White

List of Publications by Year
in descending order

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81	9,075	94433 37	64796 79
papers	citations	h-index	g-index

89	89	89	4723
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	On the Origin of Seismic Anisotropy in the Shallow Crust of the Northern Volcanic Zone, Iceland. Journal of Geophysical Research: Solid Earth, 2022, 127, .	3.4	1
2	Oceanic crustal flow in Iceland observed using seismic anisotropy. Nature Geoscience, 2021, 14, 168-173.	12.9	4
3	Seismicity of the Askja and BÃ¡rÃ°arbunga volcanic systems of Iceland, 2009â€“2015. Journal of Volcanology and Geothermal Research, 2020, 391, 106432.	2.1	22
4	Icequake Source Mechanisms for Studying Glacial Sliding. Journal of Geophysical Research F: Earth Surface, 2020, 125, e2020JF005627.	2.8	18
5	Breaking the Ice: Identifying Hydraulically Forced Crevassing. Geophysical Research Letters, 2020, 47, e2020GL090597.	4.0	5
6	Wide-angle refraction and reflection. , 2020, , 557-570.		1
7	Probabilistic earthquake locations of induced seismicity in the Groningen region, the Netherlands. Geophysical Journal International, 2020, 222, 507-516.	2.4	24
8	Automated detection of basal icequakes and discrimination from surface crevassing. Annals of Glaciology, 2019, 60, 167-181.	1.4	11
9	Intense Seismicity During the 2014â€“2015 BÃ¡rÃ°arbungaâ€Holuhraun Rifting Event, Iceland, Reveals the Nature of Dikeâ€Induced Earthquakes and Caldera Collapse Mechanisms. Journal of Geophysical Research: Solid Earth, 2019, 124, 8331-8357.	3.4	36
10	Reconciling the Longâ€Term Relationship Between Reservoir Pore Pressure Depletion and Compaction in the Groningen Region. Journal of Geophysical Research: Solid Earth, 2019, 124, 6165-6178.	3.4	21
11	Melt movement through the Icelandic crust. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180010.	3.4	17
12	Imaging TorfajÃ¶kull's Magmatic Plumbing System With Seismic Interferometry and Phase Velocity Surface Wave Tomography. Journal of Geophysical Research: Solid Earth, 2019, 124, 2920-2940.	3.4	12
13	Crustal seismic velocity responds to a magmatic intrusion and seasonal loading in Icelandâ€™s Northern Volcanic Zone. Science Advances, 2019, 5, eaax6642.	10.3	31
14	Evolution of a lateral dike intrusion revealed by relatively-relocated dike-induced earthquakes: The 2014â€“15 BÃ¡rÃ°arbungaâ€“Holuhraun rifting event, Iceland. Earth and Planetary Science Letters, 2019, 506, 53-63.	4.4	39
15	Focused seismicity triggered by flank instability on KÄ«lauea's Southwest Rift Zone. Journal of Volcanology and Geothermal Research, 2018, 353, 95-101.	2.1	4
16	Long-period seismicity reveals magma pathways above a laterally propagating dyke during the 2014â€“15 BÃ¡rÃ°arbunga rifting event, Iceland. Earth and Planetary Science Letters, 2018, 490, 216-229.	4.4	30
17	Seismic Amplitude Ratio Analysis of the 2014â€“2015 BÃ¡rarbungaâ€Holuhraun Dike Propagation and Eruption. Journal of Geophysical Research: Solid Earth, 2018, 123, 264-276.	3.4	19
18	MTfit: A Bayesian Approach to Seismic Moment Tensor Inversion. Seismological Research Letters, 2018, 89, 1507-1513.	1.9	20

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19	Dynamics of the Askja caldera July 2014 landslide, Iceland, from seismic signal analysis: precursor, motion and aftermath. Earth Surface Dynamics, 2018, 6, 467-485.	2.4	34
20	Crustal Formation on a Spreading Ridge Above a Mantle Plume: Receiver Function Imaging of the Icelandic Crust. Journal of Geophysical Research: Solid Earth, 2018, 123, 5190-5208.	3.4	23
21	Ice fabric in an Antarctic ice stream interpreted from seismic anisotropy. Geophysical Research Letters, 2017, 44, 3710-3718.	4.0	45
22	Ambient noise tomography reveals upper crustal structure of Icelandic rifts. Earth and Planetary Science Letters, 2017, 466, 20-31.	4.4	23
23	Deep crustal melt plumbing of BÃ¡rÃ°arbunga volcano, Iceland. Geophysical Research Letters, 2017, 44, 8785-8794.	4.0	32
24	Relative seismic velocity variations correlate with deformation at KÄ«lauea volcano. Science Advances, 2017, 3, e1700219.	10.3	58
25	Closing crack earthquakes within the Krafla caldera, North Iceland. Geophysical Journal International, 2016, 207, 1137-1141.	2.4	7
26	The magmatic plumbing system of the Askja central volcano, Iceland, as imaged by seismic tomography. Journal of Geophysical Research: Solid Earth, 2016, 121, 7211-7229.	3.4	43
27	Strikeâ€slip faulting during the 2014 BÃ¡rÃ°arbungaâ€Holuhraun dike intrusion, central Iceland. Geophysical Research Letters, 2016, 43, 1495-1503.	4.0	117
28	A Bayesian method for microseismic source inversion. Geophysical Journal International, 2016, 206, 1009-1038.	2.4	37
29	Mapping the iceâ€bed interface characteristics of Rutford Ice Stream, West Antarctica, using microseismicity. Journal of Geophysical Research F: Earth Surface, 2015, 120, 1881-1894.	2.8	37
30	Seismic imaging of the shallow crust beneath the Krafla central volcano, NE Iceland. Journal of Geophysical Research: Solid Earth, 2015, 120, 7156-7173.	3.4	40
31	Building icelandic igneous crust by repeated melt injections. Journal of Geophysical Research: Solid Earth, 2015, 120, 7771-7788.	3.4	27
32	Triggered earthquakes suppressed by an evolving stress shadow from a propagating dyke. Nature Geoscience, 2015, 8, 629-632.	12.9	40
33	Segmented lateral dyke growth in a rifting event at BÃ¡rÃ°arbunga volcanic system, Iceland. Nature, 2015, 517, 191-195.	27.8	436
34	Motion in the north Iceland volcanic rift zone accommodated by bookshelf faulting. Nature Geoscience, 2014, 7, 29-33.	12.9	44
35	Seismogenic magma intrusion before the 2010 eruption of EyjafjallajÃ¶kull volcano, Iceland. Geophysical Journal International, 2014, 198, 906-921.	2.4	19
36	Triggering of microearthquakes in Iceland by volatiles released from a dyke intrusion. Geophysical Journal International, 2013, 194, 1738-1754.	2.4	18

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37	Coalescence microseismic mapping. Geophysical Journal International, 2013, 195, 1773-1785.	2.4	95
38	Tomographic image of melt storage beneath Askja Volcano, Iceland using local microseismicity. Geophysical Research Letters, 2013, 40, 5040-5046.	4.0	19
39	Magma mobilization by downwardâ€propagating decompression of the EyjafjallajÃ¶kull volcanic plumbing system. Geophysical Research Letters, 2012, 39, .	4.0	63
40	Using microearthquakes to track repeated magma intrusions beneath the EyjafjallajÃ¶kull stratovolcano, Iceland. Journal of Geophysical Research, 2012, 117, .	3.3	65
41	Episodicity of seismicity accompanying melt intrusion into the crust. Geophysical Research Letters, 2012, 39, .	4.0	19
42	Multiple melt injection along a spreading segment at Askja, Iceland. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	25
43	Correction to â€œMultiple melt injection along a spreading segment at Askja, Icelandâ€• Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	20
44	Dynamics of dyke intrusion in the mid-crust of Iceland. Earth and Planetary Science Letters, 2011, 304, 300-312.	4.4	143
45	The composition and structure of volcanic rifted continental margins in the North Atlantic: Further insight from shear waves. Tectonophysics, 2011, 508, 22-33.	2.2	18
46	Integrating streamer and ocean-bottom seismic data for sub-basalt imaging on the Atlantic Margin. Petroleum Geoscience, 2010, 16, 349-366.	1.5	5
47	Lower-crustal earthquakes caused by magma movement beneath Askja volcano on the north Iceland rift. Bulletin of Volcanology, 2010, 72, 55-62.	3.0	59
48	Constraints on volcanism, igneous intrusion and stretching on the Rockallâ€“Faroe continental margin. Petroleum Geology Conference Proceedings, 2010, 7, 831-842.	0.7	9
49	Identification and inversion of converted shear waves: case studies from the European North Atlantic continental margins. Geophysical Journal International, 2009, 179, 381-400.	2.4	29
50	Imaging igneous rocks on the North Atlantic rifted continental margin. Geophysical Journal International, 2009, 179, 1024-1038.	2.4	25
51	Crustal structure of the Hatton and the conjugate east Greenland rifted volcanic continental margins, NE Atlantic. Journal of Geophysical Research, 2009, 114, .	3.3	72
52	Lower-crustal intrusion on the North Atlantic continental margin. Nature, 2008, 452, 460-464.	27.8	271
53	Influence of the Iceland mantle plume on oceanic crust generation in the North Atlantic. Geophysical Journal International, 2008, 173, 168-188.	2.4	52
54	Structure of the GrÃ¡msvÃ¶tn central volcano under the VatnajÃ¶kull icecap, Iceland. Geophysical Journal International, 2007, 168, 863-876.	2.4	33

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55	Seismic attenuation of Atlantic margin basalts: Observations and modeling. Geophysics, 2006, 71, B211-B221.	2.6	42
56	Structure of the Hatton Basin and adjacent continental margin. Petroleum Geology Conference Proceedings, 2005, 6, 947-956.	0.7	12
57	Precise hypocentre relocation of microearthquakes in a high-temperature geothermal field: the TorfajÃ¶kull central volcano, Iceland. Geophysical Journal International, 2004, 160, 371-388.	2.4	14
58	Depth imaging of basalt flows in the Faeroe-Shetland Basin. Geophysical Journal International, 2003, 152, 353-371.	2.4	30
59	Imaging and regional distribution of basalt flows in the Faeroe-Shetland Basin. Geophysical Prospecting, 2003, 51, 215-231.	1.9	64
60	Ridge-plume interaction in the North Atlantic and its influence on continental breakup and seafloor spreading. Geological Society Special Publication, 2002, 197, 15-37.	1.3	51
61	Crustal structure of the northern Reykjanes Ridge and Reykjanes Peninsula, southwest Iceland. Journal of Geophysical Research, 2001, 106, 6347-6368.	3.3	91
62	The structure of the Faeroeâ€“Shetland Trough from integrated deep seismic and potential field modelling. Journal of the Geological Society, 2001, 158, 409-412.	2.1	35
63	Crustal structure of central and northern Iceland from analysis of teleseismic receiver functions. Geophysical Journal International, 2000, 143, 163-184.	2.4	84
64	Structure of the crust and uppermost mantle of Iceland from a combined seismic and gravity study. Earth and Planetary Science Letters, 2000, 181, 409-428.	4.4	196
65	Crustal structure east of the Faroe Islands; mapping sub-basalt sediments using wide-angle seismic data. Petroleum Geoscience, 1999, 5, 161-172.	1.5	60
66	Crustal structure above the Iceland mantle plume imaged by the ICEMELT refraction profile. Geophysical Journal International, 1998, 135, 1131-1149.	2.4	126
67	Volcanism on the Rockall continental margin. Journal of the Geological Society, 1997, 154, 531-536.	2.1	38
68	Riftâ€“plume interaction in the North Atlantic. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 1997, 355, 319-339.	3.4	105
69	Crustal structure of Edoras Bank continental margin and mantle thermal anomalies beneath the North Atlantic. Journal of Geophysical Research, 1997, 102, 3109-3129.	3.3	104
70	FÃroe-Iceland Ridge Experiment 2. Crustal structure of the Krafla central volcano. Journal of Geophysical Research, 1997, 102, 7867-7886.	3.3	145
71	FÃroe-Iceland Ridge Experiment 1. Crustal structure of northeastern Iceland. Journal of Geophysical Research, 1997, 102, 7849-7866.	3.3	161
72	Mantle plumes and flood basalts. Journal of Geophysical Research, 1995, 100, 17543-17585.	3.3	522

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73	Variation with spreading rate of oceanic crustal thickness and geochemistry. Earth and Planetary Science Letters, 1994, 121, 435-449.	4.4	347
74	Oceanic crustal thickness from seismic measurements and rare earth element inversions. Journal of Geophysical Research, 1992, 97, 19683-19715.	3.3	1,124
75	The structure and subsidence of Rockall Trough from twoâ€ship seismic experiments. Journal of Geophysical Research, 1990, 95, 19821-19837.	3.3	85
76	The Hatton Bank continental margin-III. Structure from wide-angle OBS and multichannel seismic refraction profiles. Geophysical Journal International, 1989, 98, 367-384.	2.4	93
77	The Hatton Bank continental margin-I. Shallow structure from two-ship expanding spread seismic profiles. Geophysical Journal International, 1989, 96, 273-294.	2.4	36
78	The Hatton Bank continental margin-II. Deep structure from two-ship expanding spread seismic profiles. Geophysical Journal International, 1989, 96, 295-309.	2.4	108
79	Magmatism at rift zones: The generation of volcanic continental margins and flood basalts. Journal of Geophysical Research, 1989, 94, 7685-7729.	3.3	2,572
80	When continents rift. Nature, 1987, 327, 191-191.	27.8	12
81	Magmatism at rifted continental margins. Nature, 1987, 330, 439-444.	27.8	396