

Robert S White

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80 papers	7,641 citations	35 h-index	87 g-index
89 ext. papers	8,343 ext. citations	6.9 avg, IF	5.83 L-index

#	Paper	IF	Citations
80	Magmatism at rift zones: The generation of volcanic continental margins and flood basalts. <i>Journal of Geophysical Research</i> , 1989 , 94, 7685		2219
79	Oceanic crustal thickness from seismic measurements and rare earth element inversions. <i>Journal of Geophysical Research</i> , 1992 , 97, 19683		993
78	Mantle plumes and flood basalts. <i>Journal of Geophysical Research</i> , 1995 , 100, 17543-17585		440
77	Magmatism at rifted continental margins. <i>Nature</i> , 1987 , 330, 439-444	50.4	356
76	Variation with spreading rate of oceanic crustal thickness and geochemistry. <i>Earth and Planetary Science Letters</i> , 1994 , 121, 435-449	5.3	314
75	Segmented lateral dyke growth in a rifting event at Bárðunga volcanic system, Iceland. <i>Nature</i> , 2015 , 517, 191-5	50.4	309
74	Lower-crustal intrusion on the North Atlantic continental margin. <i>Nature</i> , 2008 , 452, 460-4	50.4	232
73	Structure of the crust and uppermost mantle of Iceland from a combined seismic and gravity study. <i>Earth and Planetary Science Letters</i> , 2000 , 181, 409-428	5.3	169
72	Fðöe-Iceland Ridge Experiment 1. Crustal structure of northeastern Iceland. <i>Journal of Geophysical Research</i> , 1997 , 102, 7849-7866		140
71	Fðöe-Iceland Ridge Experiment 2. Crustal structure of the Krafla central volcano. <i>Journal of Geophysical Research</i> , 1997 , 102, 7867-7886		134
70	Crustal structure above the Iceland mantle plume imaged by the ICEMELT refraction profile. <i>Geophysical Journal International</i> , 1998 , 135, 1131-1149	2.6	120
69	Dynamics of dyke intrusion in the mid-crust of Iceland. <i>Earth and Planetary Science Letters</i> , 2011 , 304, 300-312	5.3	115
68	The Hatton Bank continental margin-II. Deep structure from two-ship expanding spread seismic profiles. <i>Geophysical Journal International</i> , 1989 , 96, 295-309	2.6	99
67	Crustal structure of Edoras Bank continental margin and mantle thermal anomalies beneath the North Atlantic. <i>Journal of Geophysical Research</i> , 1997 , 102, 3109-3129		97
66	Rift-plume interaction in the North Atlantic. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 1997 , 355, 319-339	3	91
65	The Hatton Bank continental margin-III. Structure from wide-angle OBS and multichannel seismic refraction profiles. <i>Geophysical Journal International</i> , 1989 , 98, 367-384	2.6	89
64	Strike-slip faulting during the 2014 Bárðunga-Holuhraun dike intrusion, central Iceland. <i>Geophysical Research Letters</i> , 2016 , 43, 1495-1503	4.9	84

63	Crustal structure of central and northern Iceland from analysis of teleseismic receiver functions. <i>Geophysical Journal International</i> , 2000 , 143, 163-184	2.6	81
62	The structure and subsidence of Rockall Trough from two-ship seismic experiments. <i>Journal of Geophysical Research</i> , 1990 , 95, 19821		81
61	Coalescence microseismic mapping. <i>Geophysical Journal International</i> , 2013 , 195, 1773-1785	2.6	79
60	Crustal structure of the northern Reykjanes Ridge and Reykjanes Peninsula, southwest Iceland. <i>Journal of Geophysical Research</i> , 2001 , 106, 6347-6368		77
59	Crustal structure of the Hatton and the conjugate east Greenland rifted volcanic continental margins, NE Atlantic. <i>Journal of Geophysical Research</i> , 2009 , 114,		63
58	Imaging and regional distribution of basalt flows in the Faeroe-Shetland Basin. <i>Geophysical Prospecting</i> , 2003 , 51, 215-231	1.9	59
57	Crustal structure east of the Faroe Islands; mapping sub-basalt sediments using wide-angle seismic data. <i>Petroleum Geoscience</i> , 1999 , 5, 161-172	1.9	57
56	Lower-crustal earthquakes caused by magma movement beneath Askja volcano on the north Iceland rift. <i>Bulletin of Volcanology</i> , 2010 , 72, 55-62	2.4	51
55	Magma mobilization by downward-propagating decompression of the Eyjafjallajökull volcanic plumbing system. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	48
54	Influence of the Iceland mantle plume on oceanic crust generation in the North Atlantic. <i>Geophysical Journal International</i> , 2008 , 173, 168-188	2.6	45
53	Ridge-plume interaction in the North Atlantic and its influence on continental breakup and seafloor spreading. <i>Geological Society Special Publication</i> , 2002 , 197, 15-37	1.7	45
52	Relative seismic velocity variations correlate with deformation at Kilauea volcano. <i>Science Advances</i> , 2017 , 3, e1700219	14.3	41
51	Using microearthquakes to track repeated magma intrusions beneath the Eyjafjallajökull stratovolcano, Iceland. <i>Journal of Geophysical Research</i> , 2012 , 117,		39
50	Triggered earthquakes suppressed by an evolving stress shadow from a propagating dyke. <i>Nature Geoscience</i> , 2015 , 8, 629-632	18.3	37
49	Motion in the north Iceland volcanic rift zone accommodated by bookshelf faulting. <i>Nature Geoscience</i> , 2014 , 7, 29-33	18.3	36
48	Volcanism on the Rockall continental margin. <i>Journal of the Geological Society</i> , 1997 , 154, 531-536	2.7	36
47	The Hatton Bank continental margin-I. Shallow structure from two-ship expanding spread seismic profiles. <i>Geophysical Journal International</i> , 1989 , 96, 273-294	2.6	36
46	Ice fabric in an Antarctic ice stream interpreted from seismic anisotropy. <i>Geophysical Research Letters</i> , 2017 , 44, 3710-3718	4.9	35

45	Seismic attenuation of Atlantic margin basalts: Observations and modeling. <i>Geophysics</i> , 2006 , 71, B211-B221	3.2	33
44	The structure of the Faeroe-Shetland Trough from integrated deep seismic and potential field modelling. <i>Journal of the Geological Society</i> , 2001 , 158, 409-412	2.7	33
43	Structure of the Gríthsvellir central volcano under the Vatnajökull icecap, Iceland. <i>Geophysical Journal International</i> , 2007 , 168, 863-876	2.6	31
42	Seismic imaging of the shallow crust beneath the Krafla central volcano, NE Iceland. <i>Journal of Geophysical Research: Solid Earth</i> , 2015 , 120, 7156-7173	3.6	29
41	Mapping the ice-bed interface characteristics of Rutford Ice Stream, West Antarctica, using microseismicity. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015 , 120, 1881-1894	3.8	28
40	Depth imaging of basalt flows in the Faeroe-Shetland Basin. <i>Geophysical Journal International</i> , 2003 , 152, 353-371	2.6	27
39	The magmatic plumbing system of the Askja central volcano, Iceland, as imaged by seismic tomography. <i>Journal of Geophysical Research: Solid Earth</i> , 2016 , 121, 7211-7229	3.6	27
38	Deep crustal melt plumbing of Bárðunga volcano, Iceland. <i>Geophysical Research Letters</i> , 2017 , 44, 8785-8794	4.9	26
37	Dynamics of the Askja caldera July 2014 landslide, Iceland, from seismic signal analysis: precursor, motion and aftermath. <i>Earth Surface Dynamics</i> , 2018 , 6, 467-485	3.8	25
36	A Bayesian method for microseismic source inversion. <i>Geophysical Journal International</i> , 2016 , 206, 1009-1038	3.8	23
35	Multiple melt injection along a spreading segment at Askja, Iceland. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	22
34	Building Icelandic igneous crust by repeated melt injections. <i>Journal of Geophysical Research: Solid Earth</i> , 2015 , 120, 7771-7788	3.6	21
33	Identification and inversion of converted shear waves: case studies from the European North Atlantic continental margins. <i>Geophysical Journal International</i> , 2009 , 179, 381-400	2.6	21
32	Imaging igneous rocks on the North Atlantic rifted continental margin. <i>Geophysical Journal International</i> , 2009 , 179, 1024-1038	2.6	21
31	Evolution of a lateral dike intrusion revealed by relatively-relocated dike-induced earthquakes: The 2014-15 Bárðunga-Holuhraun rifting event, Iceland. <i>Earth and Planetary Science Letters</i> , 2019 , 506, 53-63	5.3	21
30	Intense Seismicity During the 2014-2015 Bárðunga-Holuhraun Rifting Event, Iceland, Reveals the Nature of Dike-Induced Earthquakes and Caldera Collapse Mechanisms. <i>Journal of Geophysical Research: Solid Earth</i> , 2019 , 124, 8331-8357	3.6	19
29	Correction to Multiple melt injection along a spreading segment at Askja, Iceland. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	19
28	Ambient noise tomography reveals upper crustal structure of Icelandic rifts. <i>Earth and Planetary Science Letters</i> , 2017 , 466, 20-31	5.3	18

27	Long-period seismicity reveals magma pathways above a laterally propagating dyke during the 2014/15 Bárðunga rifting event, Iceland. <i>Earth and Planetary Science Letters</i> , 2018 , 490, 216-229	5.3	17
26	Seismogenic magma intrusion before the 2010 eruption of Eyjafjallajökull volcano, Iceland. <i>Geophysical Journal International</i> , 2014 , 198, 906-921	2.6	17
25	Triggering of microearthquakes in Iceland by volatiles released from a dyke intrusion. <i>Geophysical Journal International</i> , 2013 , 194, 1738-1754	2.6	15
24	Tomographic image of melt storage beneath Askja Volcano, Iceland using local microseismicity. <i>Geophysical Research Letters</i> , 2013 , 40, 5040-5046	4.9	15
23	The composition and structure of volcanic rifted continental margins in the North Atlantic: Further insight from shear waves. <i>Tectonophysics</i> , 2011 , 508, 22-33	3.1	13
22	Precise hypocentre relocation of microearthquakes in a high-temperature geothermal field: the Torfajökull central volcano, Iceland. <i>Geophysical Journal International</i> , 2004 , 160, 371-388	2.6	13
21	Seismicity of the Askja and Bárðunga volcanic systems of Iceland, 2009-2015. <i>Journal of Volcanology and Geothermal Research</i> , 2020 , 391, 106432	2.8	13
20	Seismic Amplitude Ratio Analysis of the 2014-2015 Bárðunga-Holuhraun Dike Propagation and Eruption. <i>Journal of Geophysical Research: Solid Earth</i> , 2018 , 123, 264-276	3.6	12
19	Probabilistic earthquake locations of induced seismicity in the Groningen region, the Netherlands. <i>Geophysical Journal International</i> , 2020 , 222, 507-516	2.6	11
18	Crustal Formation on a Spreading Ridge Above a Mantle Plume: Receiver Function Imaging of the Icelandic Crust. <i>Journal of Geophysical Research: Solid Earth</i> , 2018 , 123, 5190-5208	3.6	11
17	MTfit: A Bayesian Approach to Seismic Moment Tensor Inversion. <i>Seismological Research Letters</i> , 2018 , 89, 1507-1513	3	11
16	Episodicity of seismicity accompanying melt intrusion into the crust. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	9
15	Structure of the Hatton Basin and adjacent continental margin. <i>Petroleum Geology Conference Proceedings</i> , 2005 , 6, 947-956		9
14	Icequake Source Mechanisms for Studying Glacial Sliding. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020 , 125, e2020JF005627	3.8	9
13	Reconciling the Long-Term Relationship Between Reservoir Pore Pressure Depletion and Compaction in the Groningen Region. <i>Journal of Geophysical Research: Solid Earth</i> , 2019 , 124, 6165-6178	3.6	8
12	Melt movement through the Icelandic crust. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019 , 377, 20180010	3	8
11	Constraints on volcanism, igneous intrusion and stretching on the Rockall-Barroe continental margin. <i>Petroleum Geology Conference Proceedings</i> , 2010 , 7, 831-842		8
10	Imaging Torfajökull's Magmatic Plumbing System With Seismic Interferometry and Phase Velocity Surface Wave Tomography. <i>Journal of Geophysical Research: Solid Earth</i> , 2019 , 124, 2920-2940	3.6	8

9	Crustal seismic velocity responds to a magmatic intrusion and seasonal loading in Iceland's Northern Volcanic Zone. <i>Science Advances</i> , 2019 , 5, eaax6642	14.3	8
8	Closing crack earthquakes within the Krafla caldera, North Iceland. <i>Geophysical Journal International</i> , 2016 , 207, 1137-1141	2.6	7
7	Automated detection of basal icequakes and discrimination from surface crevassing. <i>Annals of Glaciology</i> , 2019 , 60, 167-181	2.5	6
6	Focused seismicity triggered by flank instability on Kilauea's Southwest Rift Zone. <i>Journal of Volcanology and Geothermal Research</i> , 2018 , 353, 95-101	2.8	3
5	Integrating streamer and ocean-bottom seismic data for sub-basalt imaging on the Atlantic Margin. <i>Petroleum Geoscience</i> , 2010 , 16, 349-366	1.9	2
4	Breaking the Ice: Identifying Hydraulically Forced Crevassing. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL090597	4.9	2
3	Oceanic crustal flow in Iceland observed using seismic anisotropy. <i>Nature Geoscience</i> , 2021 , 14, 168-173	18.3	2
2	Dynamics of the Askja caldera July 2014 landslide, Iceland, from seismic signal analysis: precursor, motion and aftermath 2017 ,		1
1	Wide-angle refraction and reflection 2020 , 557-570		0