Robert S White

List of Publications by Year in Descending Order

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	Oceanic crustal flow in Iceland observed using seismic anisotropy. *Nature Geoscience*, **2021**, 14, 168-173	18.3	2
79	Wide-angle refraction and reflection **2020**, 557-570		0
78	Probabilistic earthquake locations of induced seismicity in the Groningen region, the Netherlands. *Geophysical Journal International*, **2020**, 222, 507-516	2.6	11
77	Icequake Source Mechanisms for Studying Glacial Sliding. *Journal of Geophysical Research F: Earth Surface*, **2020**, 125, e2020JF005627	3.8	9
76	Breaking the Ice: Identifying Hydraulically Forced Crevassing. *Geophysical Research Letters*, **2020**, 47, e2020GL090597	4.9	2
75	Seismicity of the Askja and B□□rbunga volcanic systems of Iceland, 2009□2015. *Journal of Volcanology and Geothermal Research*, **2020**, 391, 106432	2.8	13
74	Automated detection of basal icequakes and discrimination from surface crevassing. *Annals of Glaciology*, **2019**, 60, 167-181	2.5	6
73	Intense Seismicity During the 2014□2015 B□□rbunga-Holuhraun Rifting Event, Iceland, Reveals the Nature of Dike-Induced Earthquakes and Caldera Collapse Mechanisms. *Journal of Geophysical Research: Solid Earth*, **2019**, 124, 8331-8357	3.6	19
72	Reconciling the Long-Term Relationship Between Reservoir Pore Pressure Depletion and Compaction in the Groningen Region. *Journal of Geophysical Research: Solid Earth*, **2019**, 124, 6165-6178	3.6	8
71	Melt movement through the Icelandic crust. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2019**, 377, 20180010	3	8
70	Imaging Torfaj□ull's Magmatic Plumbing System With Seismic Interferometry and Phase Velocity Surface Wave Tomography. *Journal of Geophysical Research: Solid Earth*, **2019**, 124, 2920-2940	3.6	8
69	Crustal seismic velocity responds to a magmatic intrusion and seasonal loading in Iceland's Northern Volcanic Zone. *Science Advances*, **2019**, 5, eaax6642	14.3	8
68	Evolution of a lateral dike intrusion revealed by relatively-relocated dike-induced earthquakes: The 2014□15 B□□rbunga□Holuhraun rifting event, Iceland. *Earth and Planetary Science Letters*, **2019**, 506, 53-63	5.3	21
67	Focused seismicity triggered by flank instability on K□□uea's Southwest Rift Zone. *Journal of Volcanology and Geothermal Research*, **2018**, 353, 95-101	2.8	3
66	Long-period seismicity reveals magma pathways above a laterally propagating dyke during the 2014□15 B□□rbunga rifting event, Iceland. *Earth and Planetary Science Letters*, **2018**, 490, 216-229	5.3	17
65	Seismic Amplitude Ratio Analysis of the 2014□2015 B□□arbunga-Holuhraun Dike Propagation and Eruption. *Journal of Geophysical Research: Solid Earth*, **2018**, 123, 264-276	3.6	12
64	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	3.6	11

63	MTfit: A Bayesian Approach to Seismic Moment Tensor Inversion. *Seismological Research Letters*, **2018**, 89, 1507-1513	3	11
62	Dynamics of the Askja caldera July 2014 landslide, Iceland, from seismic signal analysis: precursor, motion and aftermath. *Earth Surface Dynamics*, **2018**, 6, 467-485	3.8	25
61	Ice fabric in an Antarctic ice stream interpreted from seismic anisotropy. *Geophysical Research Letters*, **2017**, 44, 3710-3718	4.9	35
60	Ambient noise tomography reveals upper crustal structure of Icelandic rifts. *Earth and Planetary Science Letters*, **2017**, 466, 20-31	5.3	18
59	Dynamics of the Askja caldera July 2014 landslide, Iceland, from seismic signal analysis: precursor, motion and aftermath **2017**,		1
58	Deep crustal melt plumbing of B□rbunga volcano, Iceland. *Geophysical Research Letters*, **2017**, 44, 8785-8794	4.9	26
57	Relative seismic velocity variations correlate with deformation at K□lauea volcano. *Science Advances* , **2017**, 3, e1700219	14.3	41
56	Strike-slip faulting during the 2014 B□rbunga-Holuhraun dike intrusion, central Iceland. *Geophysical Research Letters*, **2016**, 43, 1495-1503	4.9	84
55	A Bayesian method for microseismic source inversion. *Geophysical Journal International*, **2016**, 206, 1009-1038	2.6	23
54	Closing crack earthquakes within the Krafla caldera, North Iceland. *Geophysical Journal International*, **2016**, 207, 1137-1141	2.6	7
53	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	3.6	27
52	Triggered earthquakes suppressed by an evolving stress shadow from a propagating dyke. *Nature Geoscience*, **2015**, 8, 629-632	18.3	37
51	Segmented lateral dyke growth in a rifting event at B□rbunga volcanic system, Iceland. *Nature*, **2015**, 517, 191-5	50.4	309
50	Mapping the ice-bed interface characteristics of Rutford Ice Stream, West Antarctica, using microseismicity. *Journal of Geophysical Research F: Earth Surface*, **2015**, 120, 1881-1894	3.8	28
49	Seismic imaging of the shallow crust beneath the Krafla central volcano, NE Iceland. *Journal of Geophysical Research: Solid Earth*, **2015**, 120, 7156-7173	3.6	29
48	Building icelandic igneous crust by repeated melt injections. *Journal of Geophysical Research: Solid Earth*, **2015**, 120, 7771-7788	3.6	21
47	Motion in the north Iceland volcanic rift zone accommodated by bookshelf faulting. *Nature Geoscience*, **2014**, 7, 29-33	18.3	36
46	Seismogenic magma intrusion before the 2010 eruption of Eyjafjallaj□kull volcano, Iceland. *Geophysical Journal International*, **2014**, 198, 906-921	2.6	17

45	Triggering of microearthquakes in Iceland by volatiles released from a dyke intrusion. *Geophysical Journal International*, **2013**, 194, 1738-1754	2.6	15
44	Coalescence microseismic mapping. *Geophysical Journal International*, **2013**, 195, 1773-1785	2.6	79
43	Tomographic image of melt storage beneath Askja Volcano, Iceland using local microseismicity. *Geophysical Research Letters*, **2013**, 40, 5040-5046	4.9	15
42	Using microearthquakes to track repeated magma intrusions beneath the Eyjafjallajökull stratovolcano, Iceland. *Journal of Geophysical Research*, **2012**, 117,		39
41	Episodicity of seismicity accompanying melt intrusion into the crust. *Geophysical Research Letters*, **2012**, 39, n/a-n/a	4.9	9
40	Magma mobilization by downward-propagating decompression of the Eyjafjallajökull volcanic plumbing system. *Geophysical Research Letters*, **2012**, 39, n/a-n/a	4.9	48
39	Multiple melt injection along a spreading segment at Askja, Iceland. *Geophysical Research Letters*, **2011**, 38, n/a-n/a	4.9	22
38	Correction to "Multiple melt injection along a spreading segment at Askja, Iceland". *Geophysical Research Letters*, **2011**, 38, n/a-n/a	4.9	19
37	Dynamics of dyke intrusion in the mid-crust of Iceland. *Earth and Planetary Science Letters*, **2011**, 304, 300-312	5.3	115
36	The composition and structure of volcanic rifted continental margins in the North Atlantic: Further insight from shear waves. *Tectonophysics*, **2011**, 508, 22-33	3.1	13
35	Constraints on volcanism, igneous intrusion and stretching on the Rockall–Faroe continental margin. *Petroleum Geology Conference Proceedings*, **2010**, 7, 831-842		8
34	Integrating streamer and ocean-bottom seismic data for sub-basalt imaging on the Atlantic Margin. *Petroleum Geoscience*, **2010**, 16, 349-366	1.9	2
33	Lower-crustal earthquakes caused by magma movement beneath Askja volcano on the north Iceland rift. *Bulletin of Volcanology*, **2010**, 72, 55-62	2.4	51
32	Identification and inversion of converted shear waves: case studies from the European North Atlantic continental margins. *Geophysical Journal International*, **2009**, 179, 381-400	2.6	21
31	Imaging igneous rocks on the North Atlantic rifted continental margin. *Geophysical Journal International*, **2009**, 179, 1024-1038	2.6	21
30	Crustal structure of the Hatton and the conjugate east Greenland rifted volcanic continental margins, NE Atlantic. *Journal of Geophysical Research*, **2009**, 114,		63
29	Lower-crustal intrusion on the North Atlantic continental margin. *Nature*, **2008**, 452, 460-4	50.4	232
28	Influence of the Iceland mantle plume on oceanic crust generation in the North Atlantic. *Geophysical Journal International*, **2008**, 173, 168-188	2.6	45

27	Structure of the Grímsvötn central volcano under the Vatnajökull icecap, Iceland. *Geophysical Journal International*, **2007**, 168, 863-876	2.6	31
26	Seismic attenuation of Atlantic margin basalts: Observations and modeling. *Geophysics*, **2006**, 71, B211-B221	3.1	33
25	Structure of the Hatton Basin and adjacent continental margin. *Petroleum Geology Conference Proceedings*, **2005**, 6, 947-956		9
24	Precise hypocentre relocation of microearthquakes in a high-temperature geothermal field: the Torfajökull central volcano, Iceland. *Geophysical Journal International*, **2004**, 160, 371-388	2.6	13
23	Depth imaging of basalt flows in the Faeroe-Shetland Basin. *Geophysical Journal International*, **2003**, 152, 353-371	2.6	27
22	Imaging and regional distribution of basalt flows in the Faeroe-Shetland Basin. *Geophysical Prospecting*, **2003**, 51, 215-231	1.9	59
21	Ridge-plume interaction in the North Atlantic and its influence on continental breakup and seafloor spreading. *Geological Society Special Publication*, **2002**, 197, 15-37	1.7	45
20	The structure of the Faeroe–Shetland Trough from integrated deep seismic and potential field modelling. *Journal of the Geological Society*, **2001**, 158, 409-412	2.7	33
19	Crustal structure of the northern Reykjanes Ridge and Reykjanes Peninsula, southwest Iceland. *Journal of Geophysical Research*, **2001**, 106, 6347-6368		77
18	Crustal structure of central and northern Iceland from analysis of teleseismic receiver functions. *Geophysical Journal International*, **2000**, 143, 163-184	2.6	81
17	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	5.3	169
16	Crustal structure east of the Faroe Islands; mapping sub-basalt sediments using wide-angle seismic data. *Petroleum Geoscience*, **1999**, 5, 161-172	1.9	57
15	Crustal structure above the Iceland mantle plume imaged by the ICEMELT refraction profile. *Geophysical Journal International*, **1998**, 135, 1131-1149	2.6	120
14	Volcanism on the Rockall continental margin. *Journal of the Geological Society*, **1997**, 154, 531-536	2.7	36
13	Rift–plume interaction in the North Atlantic. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **1997**, 355, 319-339	3	91
12	Crustal structure of Edoras Bank continental margin and mantle thermal anomalies beneath the North Atlantic. *Journal of Geophysical Research*, **1997**, 102, 3109-3129		97
11	Faroe-Iceland Ridge Experiment 2. Crustal structure of the Krafla central volcano. *Journal of Geophysical Research*, **1997**, 102, 7867-7886		134
10	Faroe-Iceland Ridge Experiment 1. Crustal structure of northeastern Iceland. *Journal of Geophysical Research*, **1997**, 102, 7849-7866		140

9	Mantle plumes and flood basalts. *Journal of Geophysical Research*, **1995**, 100, 17543-17585		440
8	Variation with spreading rate of oceanic crustal thickness and geochemistry. *Earth and Planetary Science Letters*, **1994**, 121, 435-449	5.3	314
7	Oceanic crustal thickness from seismic measurements and rare earth element inversions. *Journal of Geophysical Research*, **1992**, 97, 19683		993
6	The structure and subsidence of Rockall Trough from two-ship seismic experiments. *Journal of Geophysical Research*, **1990**, 95, 19821		81
5	The Hatton Bank continental margin-III. Structure from wide-angle OBS and multichannel seismic refraction profiles. *Geophysical Journal International*, **1989**, 98, 367-384	2.6	89
4	The Hatton Bank continental margin-I. Shallow structure from two-ship expanding spread seismic profiles. *Geophysical Journal International*, **1989**, 96, 273-294	2.6	36
3	The Hatton Bank continental margin-II. Deep structure from two-ship expanding spread seismic profiles. *Geophysical Journal International*, **1989**, 96, 295-309	2.6	99
2	Magmatism at rift zones: The generation of volcanic continental margins and flood basalts. *Journal of Geophysical Research*, **1989**, 94, 7685		2219
1	Magmatism at rifted continental margins. *Nature*, **1987**, 330, 439-444	50.4	356