

Robert S White

List of Publications by Year in descending order

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81
papers

9,075
citations

94433

37
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64796

79
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docs citations

89
times ranked

4723
citing authors

#	ARTICLE	IF	CITATIONS
1	Magmatism at rift zones: The generation of volcanic continental margins and flood basalts. <i>Journal of Geophysical Research</i> , 1989, 94, 7685-7729.	3.3	2,572
2	Oceanic crustal thickness from seismic measurements and rare earth element inversions. <i>Journal of Geophysical Research</i> , 1992, 97, 19683-19715.	3.3	1,124
3	Mantle plumes and flood basalts. <i>Journal of Geophysical Research</i> , 1995, 100, 17543-17585.	3.3	522
4	Segmented lateral dyke growth in a rifting event at B��r��rbunga volcanic system, Iceland. <i>Nature</i> , 2015, 517, 191-195.	27.8	436
5	Magmatism at rifted continental margins. <i>Nature</i> , 1987, 330, 439-444.	27.8	396
6	Variation with spreading rate of oceanic crustal thickness and geochemistry. <i>Earth and Planetary Science Letters</i> , 1994, 121, 435-449.	4.4	347
7	Lower-crustal intrusion on the North Atlantic continental margin. <i>Nature</i> , 2008, 452, 460-464.	27.8	271
8	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.	4.4	196
9	F��roe-Iceland Ridge Experiment 1. Crustal structure of northeastern Iceland. <i>Journal of Geophysical Research</i> , 1997, 102, 7849-7866.	3.3	161
10	F��roe-Iceland Ridge Experiment 2. Crustal structure of the Krafla central volcano. <i>Journal of Geophysical Research</i> , 1997, 102, 7867-7886.	3.3	145
11	Dynamics of dyke intrusion in the mid-crust of Iceland. <i>Earth and Planetary Science Letters</i> , 2011, 304, 300-312.	4.4	143
12	Crustal structure above the Iceland mantle plume imaged by the ICEMELT refraction profile. <i>Geophysical Journal International</i> , 1998, 135, 1131-1149.	2.4	126
13	Strike-slip faulting during the 2014 B��r��rbunga��Holuhraun dike intrusion, central Iceland. <i>Geophysical Research Letters</i> , 2016, 43, 1495-1503.	4.0	117
14	The Hatton Bank continental margin-II. Deep structure from two-ship expanding spread seismic profiles. <i>Geophysical Journal International</i> , 1989, 96, 295-309.	2.4	108
15	Rift��plume interaction in the North Atlantic. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 1997, 355, 319-339.	3.4	105
16	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.	3.3	104
17	Coalescence microseismic mapping. <i>Geophysical Journal International</i> , 2013, 195, 1773-1785.	2.4	95
18	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.	2.4	93

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19	Crustal structure of the northern Reykjanes Ridge and Reykjanes Peninsula, southwest Iceland. <i>Journal of Geophysical Research</i> , 2001, 106, 6347-6368.	3.3	91
20	The structure and subsidence of Rockall Trough from two-ship seismic experiments. <i>Journal of Geophysical Research</i> , 1990, 95, 19821-19837.	3.3	85
21	Crustal structure of central and northern Iceland from analysis of teleseismic receiver functions. <i>Geophysical Journal International</i> , 2000, 143, 163-184.	2.4	84
22	Crustal structure of the Hatton and the conjugate east Greenland rifted volcanic continental margins, NE Atlantic. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	72
23	Using microearthquakes to track repeated magma intrusions beneath the Eyjafjallajökull stratovolcano, Iceland. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	65
24	Imaging and regional distribution of basalt flows in the Faeroe-Shetland Basin. <i>Geophysical Prospecting</i> , 2003, 51, 215-231.	1.9	64
25	Magma mobilization by downward-propagating decompression of the Eyjafjallajökull volcanic plumbing system. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	63
26	Crustal structure east of the Faroe Islands; mapping sub-basalt sediments using wide-angle seismic data. <i>Petroleum Geoscience</i> , 1999, 5, 161-172.	1.5	60
27	Lower-crustal earthquakes caused by magma movement beneath Askja volcano on the north Iceland rift. <i>Bulletin of Volcanology</i> , 2010, 72, 55-62.	3.0	59
28	Relative seismic velocity variations correlate with deformation at K�lauea volcano. <i>Science Advances</i> , 2017, 3, e1700219.	10.3	58
29	Influence of the Iceland mantle plume on oceanic crust generation in the North Atlantic. <i>Geophysical Journal International</i> , 2008, 173, 168-188.	2.4	52
30	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.	1.3	51
31	Ice fabric in an Antarctic ice stream interpreted from seismic anisotropy. <i>Geophysical Research Letters</i> , 2017, 44, 3710-3718.	4.0	45
32	Motion in the north Iceland volcanic rift zone accommodated by bookshelf faulting. <i>Nature Geoscience</i> , 2014, 7, 29-33.	12.9	44
33	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.	3.4	43
34	Seismic attenuation of Atlantic margin basalts: Observations and modeling. <i>Geophysics</i> , 2006, 71, B211-B221.	2.6	42
35	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.	3.4	40
36	Triggered earthquakes suppressed by an evolving stress shadow from a propagating dyke. <i>Nature Geoscience</i> , 2015, 8, 629-632.	12.9	40

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37	Evolution of a lateral dike intrusion revealed by relatively-relocated dike-induced earthquakes: The 2014-15 Bárðarbunga-Holuhraun rifting event, Iceland. <i>Earth and Planetary Science Letters</i> , 2019, 506, 53-63.	4.4	39
38	Volcanism on the Rockall continental margin. <i>Journal of the Geological Society</i> , 1997, 154, 531-536.	2.1	38
39	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.	2.8	37
40	A Bayesian method for microseismic source inversion. <i>Geophysical Journal International</i> , 2016, 206, 1009-1038.	2.4	37
41	The Hatton Bank continental margin-I. Shallow structure from two-ship expanding spread seismic profiles. <i>Geophysical Journal International</i> , 1989, 96, 273-294.	2.4	36
42	Intense Seismicity During the 2014-2015 Bárðarbunga-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.	3.4	36
43	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.	2.1	35
44	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.	2.4	34
45	Structure of the Grömsvötn central volcano under the Vatnajökull icecap, Iceland. <i>Geophysical Journal International</i> , 2007, 168, 863-876.	2.4	33
46	Deep crustal melt plumbing of Bárðarbunga volcano, Iceland. <i>Geophysical Research Letters</i> , 2017, 44, 8785-8794.	4.0	32
47	Crustal seismic velocity responds to a magmatic intrusion and seasonal loading in Iceland's Northern Volcanic Zone. <i>Science Advances</i> , 2019, 5, eaax6642.	10.3	31
48	Depth imaging of basalt flows in the Faeroe-Shetland Basin. <i>Geophysical Journal International</i> , 2003, 152, 353-371.	2.4	30
49	Long-period seismicity reveals magma pathways above a laterally propagating dyke during the 2014-15 Bárðarbunga rifting event, Iceland. <i>Earth and Planetary Science Letters</i> , 2018, 490, 216-229.	4.4	30
50	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.	2.4	29
51	Building Icelandic igneous crust by repeated melt injections. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 7771-7788.	3.4	27
52	Imaging igneous rocks on the North Atlantic rifted continental margin. <i>Geophysical Journal International</i> , 2009, 179, 1024-1038.	2.4	25
53	Multiple melt injection along a spreading segment at Askja, Iceland. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	25
54	Probabilistic earthquake locations of induced seismicity in the Groningen region, the Netherlands. <i>Geophysical Journal International</i> , 2020, 222, 507-516.	2.4	24

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55	Ambient noise tomography reveals upper crustal structure of Icelandic rifts. <i>Earth and Planetary Science Letters</i> , 2017, 466, 20-31.	4.4	23
56	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.	3.4	23
57	Seismicity of the Askja and Bárðarbunga volcanic systems of Iceland, 2009–2015. <i>Journal of Volcanology and Geothermal Research</i> , 2020, 391, 106432.	2.1	22
58	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.	3.4	21
59	Correction to “Multiple melt injection along a spreading segment at Askja, Iceland” <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	20
60	MTfit: A Bayesian Approach to Seismic Moment Tensor Inversion. <i>Seismological Research Letters</i> , 2018, 89, 1507-1513.	1.9	20
61	Episodicity of seismicity accompanying melt intrusion into the crust. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	19
62	Tomographic image of melt storage beneath Askja Volcano, Iceland using local microseismicity. <i>Geophysical Research Letters</i> , 2013, 40, 5040-5046.	4.0	19
63	Seismogenic magma intrusion before the 2010 eruption of Eyjafjallajökull volcano, Iceland. <i>Geophysical Journal International</i> , 2014, 198, 906-921.	2.4	19
64	Seismic Amplitude Ratio Analysis of the 2014–2015 Bárðarbunga–Holuhraun Dike Propagation and Eruption. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 264-276.	3.4	19
65	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.	2.2	18
66	Triggering of microearthquakes in Iceland by volatiles released from a dyke intrusion. <i>Geophysical Journal International</i> , 2013, 194, 1738-1754.	2.4	18
67	Icequake Source Mechanisms for Studying Glacial Sliding. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020, 125, e2020JF005627.	2.8	18
68	Melt movement through the Icelandic crust. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20180010.	3.4	17
69	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.	2.4	14
70	When continents rift. <i>Nature</i> , 1987, 327, 191-191.	27.8	12
71	Structure of the Hatton Basin and adjacent continental margin. <i>Petroleum Geology Conference Proceedings</i> , 2005, 6, 947-956.	0.7	12
72	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.	3.4	12

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73	Automated detection of basal icequakes and discrimination from surface crevassing. <i>Annals of Glaciology</i> , 2019, 60, 167-181.	1.4	11
74	Constraints on volcanism, igneous intrusion and stretching on the Rockallâ€™Faroe continental margin. <i>Petroleum Geology Conference Proceedings</i> , 2010, 7, 831-842.	0.7	9
75	Closing crack earthquakes within the Krafla caldera, North Iceland. <i>Geophysical Journal International</i> , 2016, 207, 1137-1141.	2.4	7
76	Integrating streamer and ocean-bottom seismic data for sub-basalt imaging on the Atlantic Margin. <i>Petroleum Geoscience</i> , 2010, 16, 349-366.	1.5	5
77	Breaking the Ice: Identifying Hydraulically Forced Crevassing. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090597.	4.0	5
78	Focused seismicity triggered by flank instability on K�lauea's Southwest Rift Zone. <i>Journal of Volcanology and Geothermal Research</i> , 2018, 353, 95-101.	2.1	4
79	Oceanic crustal flow in Iceland observed using seismic anisotropy. <i>Nature Geoscience</i> , 2021, 14, 168-173.	12.9	4
80	Wide-angle refraction and reflection. , 2020, , 557-570.		1
81	On the Origin of Seismic Anisotropy in the Shallow Crust of the Northern Volcanic Zone, Iceland. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	3.4	1