Ralph A Stephen

List of Publications by Year
in descending order

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35 papers	1,169 citations	394421 19 h-index	377865 34 g-index
40 all docs	40 docs citations	40 times ranked	912 citing authors

#	Article	IF	Citations
1	Mid-ocean microseisms. Geochemistry, Geophysics, Geosystems, 2005, 6, n/a-n/a.	2.5	163
2	Ocean Seismic Network Pilot Experiment. Geochemistry, Geophysics, Geosystems, 2003, 4, .	2.5	84
3	The Crust and Upper Mantle Structure of Central and West Antarctica From Bayesian Inversion of Rayleigh Wave and Receiver Functions. Journal of Geophysical Research: Solid Earth, 2018, 123, 7824-7849.	3.4	78
4	Are deepâ€oceanâ€generated surfaceâ€wave microseisms observed on land?. Journal of Geophysical Research: Solid Earth, 2013, 118, 3610-3629.	3.4	71
5	Broadband seismology in the oceans: Lessons from the Ocean Seismic Network Pilot Experiment. Geophysical Research Letters, 2001, 28, 49-52.	4.0	70
6	An implicit finiteâ€difference formulation of the elastic wave equation. Geophysics, 1982, 47, 1521-1526.	2.6	58
7	Seismic energy partitioning and scattering in laterally heterogeneous ocean crust. Pure and Applied Geophysics, 1988, 128, 195-229.	1.9	57
8	Ross ice shelf vibrations. Geophysical Research Letters, 2015, 42, 7589-7597.	4.0	52
9	Upper mantle structure beneath the Hawaiian swell: Constraints from the ocean seismic network pilot experiment. Geophysical Research Letters, 2002, 29, 17-1.	4.0	50
10	LOAPEX: The Long-Range Ocean Acoustic Propagation EXperiment. IEEE Journal of Oceanic Engineering, 2009, 34, 1-11.	3.8	45
11	Response of the Ross Ice Shelf, Antarctica, to ocean gravity-wave forcing. Annals of Glaciology, 2012, 53, 163-172.	1.4	41
12	Hydroacoustic events located at the intersection of the Atlantis (30Â°N) and Kane (23Â°40â€²N) Transform Faults with the Mid-Atlantic Ridge. Geochemistry, Geophysics, Geosystems, 2006, 7, n/a-n/a.	2.5	37
13	Tsunami and infragravity waves impacting <scp>A</scp>ntarctic ice shelves. Journal of Geophysical Research: Oceans, 2017, 122, 5786-5801.	2.6	35
14	Modeling seafloor geoacoustic interaction with a numerical scattering chamber. Journal of the Acoustical Society of America, 1994, 96, 973-990.	1.1	29
15	Tidal and Thermal Stresses Drive Seismicity Along a Major Ross Ice Shelf Rift. Geophysical Research Letters, 2019, 46, 6644-6652.	4.0	29
16	Seismo/acoustic propagation through rough seafloors. Journal of the Acoustical Society of America, 1991, 90, 2637-2651.	1.1	28
17	Ross Ice Shelf Icequakes Associated With Ocean Gravity Wave Activity. Geophysical Research Letters, 2019, 46, 8893-8902.	4.0	25
18	Heterogeneous upper mantle structure beneath the Ross Sea Embayment and Marie Byrd Land, West Antarctica, revealed by P-wave tomography. Earth and Planetary Science Letters, 2019, 513, 40-50.	4.4	23

#	Article	IF	Citations
19	Nearâ€Surface Environmentally Forced Changes in the Ross Ice Shelf Observed With Ambient Seismic Noise. Geophysical Research Letters, 2018, 45, 11,187.	4.0	21
20	Very low frequency (0.2-10.0 Hz) seismoacoustic noise below the seafloor. Journal of Geophysical Research, 1997, 102, 11703-11718.	3.3	19
21	The Seafloor Borehole Array Seismic System (SEABASS) and VLF ambient noise. Marine Geophysical Researches, 1994, 16, 243-286.	1.2	16
22	How much gabbro is in ocean seismic layer 3?. Geophysical Research Letters, 1992, 19, 1871-1874.	4.0	15
23	Ocean-excited plate waves in the Ross and Pine Island Glacier ice shelves. Journal of Glaciology, 2018, 64, 730-744.	2.2	15
24	Threeâ€dimensional numerical modeling of geoacoustic scattering from seafloor topography. Journal of the Acoustical Society of America, 1990, 88, 2338-2345.	1.1	14
25	Swell-Triggered Seismicity at the Near-Front Damage Zone of the Ross Ice Shelf. Seismological Research Letters, 2021, 92, 2768-2792.	1.9	14
26	Campagne FARE: Wireline reentry of DSDP Hole 396B using the NADIA System. Eos, 1989, 70, 729.	0.1	13
27	Optimum and standard beam widths for numerical modeling of interface scattering problems. Journal of the Acoustical Society of America, 2000, 107, 1095-1102.	1.1	12
28	Seasonal and spatial variations in the ocean-coupled ambient wavefield of the Ross Ice Shelf. Journal of Glaciology, 2019, 65, 912-925.	2.2	12
29	Finite difference modeling of geoacoustic interaction at anelastic seafloors. Journal of the Acoustical Society of America, 1994, 95, 60-70.	1.1	11
30	Deep seafloor arrivals in long range ocean acoustic propagation. Journal of the Acoustical Society of America, 2013, 134, 3307-3317.	1.1	8
31	Spreading rate independence of oceanic seismic layer 2. Geophysical Research Letters, 1985, 12, 219-222.	4.0	6
32	Teleseismic earthquake wavefields observed on the Ross Ice Shelf. Journal of Glaciology, 2021, 67, 58-74.	2.2	4
33	Recent advances and trends in subsea technologies and seafloor properties characterization. The Leading Edge, 2013, 32, 1214-1220.	0.7	3
34	The Effects of Local Structure on Seafloor Ambient Noise at the Hawaii-2 Observatory. , 2007, , .		2
35	Waveform modeling of the seismic response of a mid-ocean ridge axial melt sill. Marine Geophysical Researches, 2017, 38, 373-391.	1.2	1