## List of Publications by Year in descending order

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P W HORRS

#	Article	IF	CITATIONS
1	Age of magmatism and alteration of basaltic rocks cored at the base of IODP Site U1513, Naturaliste Plateau, southwestern Australia. Australian Journal of Earth Sciences, 2022, 69, 383-405.	1.0	2
2	Evolution and properties of young oceanic crust: constraints from Poisson's ratio. Geophysical Journal International, 2021, 225, 1874-1896.	2.4	4
3	Contourite processes associated with the overflow of Pacific Deep Water within the Luzon Trough: Conceptual and regional implications. Deep-Sea Research Part I: Oceanographic Research Papers, 2021, 170, 103459.	1.4	2
4	Local rift and intraplate seismicity reveal shallow crustal fluid-related activity and sub-crustal faulting. Earth and Planetary Science Letters, 2021, 562, 116857.	4.4	4
5	Temperature and Salinity Inverted for a Mediterranean Eddy Captured With Seismic Data, Using a Spatially Iterative Markov Chain Monte Carlo Approach. Frontiers in Marine Science, 2021, 8, .	2.5	2
6	Evolution of heat flow, hydrothermal circulation and permeability on the young southern flank of the Costa Rica Rift. Geophysical Journal International, 2020, 220, 278-295.	2.4	4
7	A lower to middle Eocene astrochronology for the Mentelle Basin (Australia) and its implications for the geologic time scale. Earth and Planetary Science Letters, 2020, 529, 115865.	4.4	17
8	Evidence for non-marine Jurassic to earliest Cretaceous sediments in the pre-breakup section of the Mentelle Basin, southwestern Australia. Australian Journal of Earth Sciences, 2020, 67, 89-105.	1.0	12
9	Evolution of the Southwest Australian Rifted Continental Margin During Breakup of East Gondwana: Results From International Ocean Discovery Program Expedition 369. Geochemistry, Geophysics, Geosystems, 2020, 21, e2020GC009144.	2.5	22
10	Magmatic and tectonic segmentation of the intermediate-spreading Costa Rica Rift—a fine balance between magma supply rate, faulting and hydrothermal circulation. Geophysical Journal International, 2020, 222, 132-152.	2.4	5
11	Does intermediate spreading-rate oceanic crust result from episodic transition between magmatic and magma-dominated, faulting-enhanced spreading?—The Costa Rica Rift example. Geophysical Journal International, 2019, 218, 1617-1641.	2.4	14
12	Detecting changes at the leading edge of an interface between oceanic water layers. Nature Communications, 2019, 10, 4674.	12.8	15
13	Monte Carlo sampling for error propagation in linear regression and applications in isochron geochronology. Science Bulletin, 2019, 64, 189-197.	9.0	18
14	Geophysical evidence for structurally-controlled, authigenic carbonate cementation in the Laminaria High, Bonaparte basin, Northwest Shelf of Australia. Marine and Petroleum Geology, 2019, 99, 563-576.	3.3	2
15	Thermal structure of the Panama Basin by analysis of seismic attenuation. Tectonophysics, 2018, 730, 81-99.	2.2	13
16	Uncertainty analysis of depth predictions from seismic reflection data using Bayesian statistics. Geophysical Journal International, 2018, 213, 2161-2176.	2.4	1
17	The role of preâ€existing structures during rifting, continental breakup and transform system development, offshore West Greenland. Basin Research, 2018, 30, 373-394.	2.7	67
18	A sequential dynamic Bayesian network for pore-pressure estimation with uncertainty quantification. Geophysics, 2018, 83, D27-D39.	2.6	21

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19	Geothermal Heating in the Panama Basin: 1. Hydrography of the Basin. Journal of Geophysical Research: Oceans, 2018, 123, 7382-7392.	2.6	7
20	Geothermal Heating in the Panama Basin. Part II: Abyssal Water Mass Transformation. Journal of Geophysical Research: Oceans, 2018, 123, 7393-7406.	2.6	7
21	Quantifying the influence of sill intrusion on the thermal evolution of organicâ€rich sedimentary rocks in nonvolcanic passive margins: an example from <scp>ODP</scp> 210â€1276, offshore Newfoundland, Canada. Basin Research, 2017, 29, 249-265.	2.7	31
22	An adaptive coupling strategy for joint inversions that use petrophysical information as constraints. Journal of Applied Geophysics, 2017, 136, 279-297.	2.1	47
23	Analysis of a conductive heat flow profile in the Ecuador Fracture Zone. Earth and Planetary Science Letters, 2017, 467, 120-127.	4.4	10
24	3-D cross-gradient joint inversion of seismic refraction and DC resistivity data. Journal of Applied Geophysics, 2017, 141, 54-67.	2.1	14
25	Gas venting that bypasses the feather edge of marine hydrate, offshore Mauritania. Marine and Petroleum Geology, 2017, 88, 402-409.	3.3	7
26	Joint stochastic constraint of a large data set from a salt dome. Geophysics, 2016, 81, ID1-ID24.	2.6	8
27	Markov Chain Monte Carlo inversion of temperature and salinity structure of an internal solitary wave packet from marine seismic data. Journal of Geophysical Research: Oceans, 2016, 121, 3692-3709.	2.6	24
28	Seismic reflection imaging of mixing processes in Fram Strait. Journal of Geophysical Research: Oceans, 2015, 120, 6884-6896.	2.6	11
29	Marine seismic observation of internal solitary wave packets in the northeast S outh C hina S ea. Journal of Geophysical Research: Oceans, 2015, 120, 8487-8503.	2.6	21
30	Magnetic gradient and ground penetrating radar prospecting of buried earthen archaeological remains at the Qocho City site in Turpan, China. Near Surface Geophysics, 2015, 13, 477-485.	1.2	7
31	On the Use of Fractal Surfaces to Understand Seismic Wave Propagation in Layered Basalt Sequences. Pure and Applied Geophysics, 2015, 172, 1879-1892.	1.9	7
32	An irregular feather-edge and potential outcrop of marine gas hydrate along the Mauritanian margin. Earth and Planetary Science Letters, 2015, 423, 202-209.	4.4	16
33	Probable patterns of gas flow and hydrate accretion at the base of the hydrate stability zone. Geology, 2014, 42, 1055-1058.	4.4	9
34	Joint-inversion of magnetotelluric, gravity and seismic data to image sub-basalt sediments offshore the Faroe-Islands. , 2014, , .		9
35	Verification of velocityâ€resistivity relationships derived from structural joint inversion with borehole data. Geophysical Research Letters, 2013, 40, 3596-3601.	4.0	47
36	Study on the limitations of travel-time inversion applied to sub-basalt imaging. Solid Earth, 2013, 4, 543-554.	2.8	2

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37	Exploring the shelf-slope dynamics in the Adriatic Sea using numerical models and seismic oceanography (SO). Proceedings of Meetings on Acoustics, 2013, , .	0.3	0
38	Characterization of thermohaline staircases in the Tyrrhenian Sea using stochastic heterogeneity mapping. Proceedings of Meetings on Acoustics, 2013, , .	0.3	0
39	Seismic oceanography imaging of thermal intrusions in strong frontal regions. Proceedings of Meetings on Acoustics, 2013, , .	0.3	1
40	Mapping turbidity layers using a combination of high resolution seismic oceanographic and physical oceanographic data. Proceedings of Meetings on Acoustics, 2013, , .	0.3	0
41	Bayesian Strategies to Assess Uncertainty in Velocity Models. Bayesian Analysis, 2012, 7, .	3.0	24
42	Seismic imaging of a large horizontal vortex at abyssal depths beneath the Sub-Antarctic Front. Nature Geoscience, 2012, 5, 542-546.	12.9	26
43	Tracking bottom waters in the Southern Adriatic Sea applying seismic oceanography techniques. Continental Shelf Research, 2012, 44, 30-38.	1.8	26
44	Crustal constraint through complete model space screening for diverse geophysical datasets facilitated by emulation. Tectonophysics, 2012, 572-573, 47-63.	2.2	6
45	Mapping turbidity layers using seismic oceanography methods. Ocean Science, 2012, 8, 11-18.	3.4	19
46	Magnetic Gradient and Electrical Resistivity Tomography Surveys in Meroe, the Capital City of the Kush Kingdom, Sudan. Archaeological Prospection, 2012, 19, 59-68.	2.2	5
47	Improving the interpretability of air-gun seismic reflection data using deterministic filters: A case history from offshore Cape Leeuwin, southwest Australia. Geophysics, 2011, 76, B113-B125.	2.6	9
48	A framework for 3-D joint inversion of MT, gravity and seismic refraction data. Geophysical Journal International, 2011, 184, 477-493.	2.4	211
49	Reconstructing flood basalt lava flows in three dimensions using terrestrial laser scanning. , 2011, 7, 87-96.		18
50	Re-evaluation of the Mentelle Basin, a polyphase rifted margin basin, offshore southwest Australia: new insights from integrated regional seismic datasets. Solid Earth, 2011, 2, 107-123.	2.8	21
51	Estimating Geostrophic Shear from Seismic Images of Oceanic Structure*. Journal of Atmospheric and Oceanic Technology, 2011, 28, 1149-1154.	1.3	20
52	Some improvements in subbasalt imaging using pre-stack depth migration. Solid Earth, 2011, 2, 1-7.	2.8	5
53	Adaptive coupling strategy for simultaneous joint inversions that use petrophysical information as constraints. , 2010, , .		13
54	Emulation: A Bayesian tool for joint inversion. , 2010, , .		2

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55	Massively parallel forward modeling of scalar and tensor gravimetry data. Computers and Geosciences, 2010, 36, 680-686.	4.2	45
56	Stochastic Heterogeneity Mapping around a Mediterranean salt lens. Ocean Science, 2010, 6, 423-429.	3.4	9
57	A framework for 3D joint inversion of MT, gravity and seismic refraction data. , 2010, , .		2
58	Ocean temperature and salinity inverted from combined hydrographic and seismic data. Geophysical Research Letters, 2010, 37, .	4.0	65
59	Detecting and characterizing mesoscale and submesoscale structures of Mediterranean water from joint seismic and hydrographic measurements in the Gulf of Cadiz. Geophysical Research Letters, 2010, 37, .	4.0	15
60	Seismic reflection along the path of the Mediterranean Undercurrent. Continental Shelf Research, 2009, 29, 1848-1860.	1.8	31
61	Joint inversion of marine magnetotelluric and gravity data incorporating seismic constraintsPreliminary results of sub-basalt imaging off the Faroe Shelf. Earth and Planetary Science Letters, 2009, 282, 47-55.	4.4	111
62	Using a local Monte Carlo strategy to assess 1-D velocity models from wide-angle seismic travel-time data and application to the Rockall Trough. Tectonophysics, 2009, 472, 284-289.	2.2	3
63	Understanding the offshore flood basalt sequence using onshore volcanic facies analogues: an example from the Faroe–Shetland basin. Geological Magazine, 2009, 146, 353-367.	1.5	75
64	Estimating movement of reflectors in the water column using seismic oceanography. Geophysical Research Letters, 2009, 36, .	4.0	30
65	Estimating internal wave spectra using constrained models of the dynamic ocean. Geophysical Research Letters, 2009, 36, .	4.0	19
66	Effect of bandwidth on seismic imaging of rotating stratified turbulence surrounding an anticyclonic eddy from field data and numerical simulations. Geophysical Research Letters, 2009, 36, .	4.0	17
67	Estimating mixing rates from seismic images of oceanic structure. Geophysical Research Letters, 2009, 36, .	4.0	56
68	Effect of seismic source bandwidth on reflection sections to image water structure. Geophysical Research Letters, 2009, 36, .	4.0	26
69	High resolution seismic imaging of the ocean structure using a small volume airgun source array in the Gulf of Cadiz. Geophysical Research Letters, 2009, 36, .	4.0	17
70	Seismic structure, gravity anomalies, and flexure of the Amazon continental margin, NE Brazil. Journal of Geophysical Research, 2009, 114, .	3.3	56
71	Flood basalt facies from borehole data: implications for prospectivity and volcanology in volcanic rifted margins. Petroleum Geoscience, 2009, 15, 313-324.	1.5	78
72	Demerara Plateau - the structure and evolution of a transform passive margin. Geophysical Journal International, 2008, 172, 549-564.	2.4	48

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73	Internal structure of a contourite drift generated by the Antarctic Circumpolar Current. Geochemistry, Geophysics, Geosystems, 2008, 9, .	2.5	38
74	Do fracture zones define continental margin segmentation? — Evidence from the French Guiana margin. Earth and Planetary Science Letters, 2008, 272, 553-566.	4.4	17
75	Seismic oceanography: Processing data from the Rockall trough, west of Ireland. , 2007, , .		Ο
76	Extension of forward modeling phase-screen code in isotropic and anisotropic media up to critical angle. Geophysics, 2007, 72, SM107-SM114.	2.6	3
77	Crustal structure of the French Guiana margin, West Equatorial Atlantic. Geophysical Journal International, 2007, 169, 964-987.	2.4	42
78	Seismic attenuation of Atlantic margin basalts: Observations and modeling. Geophysics, 2006, 71, B211-B221.	2.6	42
79	The effects of three-dimensional structure on two-dimensional images of crustal seismic sections and on the interpretation of shear zone morphology. Geophysical Journal International, 2006, 164, 490-500.	2.4	10
80	Seismic reflection images of the Moho underlying melt sills at the East Pacific Rise. Nature, 2006, 442, 287-290.	27.8	69
81	Evidence for unusually thin oceanic crust and strong mantle beneath the Amazon Fan. Geology, 2006, 34, 1081.	4.4	29
82	Joint inversion of MT, gravity and seismic data applied to subâ $\in$ basalt imaging. , 2006, , .		32
83	Seismic image reconstruction using complex wavelets. , 2005, 5674, 27.		2
84	Mapping and analysing virtual outcrops. Visual Geosciences, 2005, 10, 13-19.	0.5	57
85	Crustal structure of the NE Rockall Trough from wide-angle seismic data modeling. Journal of Geophysical Research, 2005, 110, .	3.3	51
86	The role of Mesozoic rifting in the opening of the NE Atlantic: evidence from deep seismic profiling across the Faroe–Shetland Trough. Journal of the Geological Society, 2005, 162, 661-673.	2.1	14
87	Gravity Modelling Based on Small Cells. , 2005, , .		2
88	The effects of out-of-plane seismic energy on reflections in crustal-scale 2D seismic sections. Tectonophysics, 2004, 388, 213-224.	2.2	20
89	A three-dimensional study of a crustal low velocity region beneath the 9°O3′N overlapping spreading center. Geophysical Research Letters, 2003, 30,	4.0	21
90	Influence of enhanced melt supply on upper crustal structure at a mid-ocean ridge discontinuity: A three-dimensional seismic tomographic study of 9°N East Pacific Rise. Journal of Geophysical Research, 2003, 108, .	3.3	15

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91	Modelling and processing of 3D seismic data collected over the overlapping spreading centre on the East Pacific Rise at $9\hat{A}^{\circ} O3\hat{a} \in {}^{2}$ N. Geological Society Special Publication, 2003, 212, 251-259.	1.3	2
92	Seismic Imaging of Lower Crustal Heterogeneity. , 2003, , 237-255.		1
93	Asymmetric melt sills and upper crustal construction beneath overlapping ridge segments: Implications for the development of melt sills and ridge crests. Geology, 2002, 30, 83.	4.4	16
94	Statistical inversion of controlled-source seismic data using parabolic wave scattering theory. Geophysical Journal International, 2002, 132, 61-78.	2.4	10
95	Three-dimensional shallow crustal emplacement at the 9°O3′N overlapping spreading center on the East Pacific Rise: Correlations between magnetization and tomographic images. Journal of Geophysical Research, 2001, 106, 16101-16117.	3.3	36
96	Evidence for a thick free gas layer beneath the bottom simulating reflector in the Makran accretionary prism. Marine Geology, 2000, 164, 3-12.	2.1	82
97	Evidence from three-dimensional seismic reflectivity images for enhanced melt supply beneath mid-ocean -ridge discontinuities. Nature, 2000, 406, 614-618.	27.8	110
98	Marine source signature measurement using a reference seismic source. , 2000, , .		4
99	Modelling complex media: an introduction to the phase-screen method. Physics of the Earth and Planetary Interiors, 2000, 120, 219-225.	1.9	18
100	Deep seismic reflection profiles across the Chicxulub Crater. , 1999, , .		12
101	A comparison between airguns and explosives as wide-angle seismic sources. Geophysical Prospecting, 1999, 47, 313-339.	1.9	19
102	Preliminary results are in from mid-ocean ridge three-dimensional seismic reflection survey. Eos, 1999, 80, 181.	0.1	7
103	Ringed structural zones with deep roots formed by the Chicxulub impact. Journal of Geophysical Research, 1999, 104, 10743-10755.	3.3	35
104	The structure of the Rockall Trough imaged by deep seismic reflection profiling. Journal of the Geological Society, 1997, 154, 497-502.	2.1	38
105	Closure of the Tornquist sea: Constraints from MONA LISA deep seismic reflection data. Geology, 1997, 25, 1071-1074.	4.4	44
106	Size and morphology of the Chicxulub impact crater. Nature, 1997, 390, 472-476.	27.8	250
107	Broadband receiver response from dualâ€streamer data and applications in deep reflection seismology. Geophysics, 1996, 61, 232-243.	2.6	14
108	Upper mantle reflector structure and origin beneath the Scottish Caledonides. Tectonics, 1995, 14, 1351-1367.	2.8	20

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109	Structure of Atlantic Oceanic Crust Around Chron M16 from Deep Seismic Reflection Profiles. , 1995, , 183-196.		0
110	Complex structure along a Mesozoic sea-floor spreading ridge: BIRPS deep seismic reflection, Cape Verde abyssal plain. Geophysical Journal International, 1994, 119, 453-478.	2.4	21
111	Stochastic characterization and seismic response of upper and middle crustal rocks based on the Lewisian gneiss complex, Scotland. Geophysical Journal International, 1994, 119, 243-259.	2.4	42
112	Some attributes of wavefields scattered from Ivrea-type lower crust. Tectonophysics, 1994, 232, 267-279.	2.2	49
113	The crust as a heterogeneous "optical―medium, or "crocodiles in the mist― Tectonophysics, 1994, 232, 281-297.	2.2	86
114	Seismic reflection profiling in deep water: avoiding spurious reflectivity at lower-crustal and upper-mantle traveltimes. Tectonophysics, 1994, 232, 425-435.	2.2	10
115	Internal structure of a spreading segment of Mesozoic oceanic crust. Geology, 1994, 22, 597.	4.4	19
116	On the "wraparound―multiple problem of recording seismic reflections in deep water. Geophysics, 1994, 59, 1160-1165.	2.6	5
117	Lower crustal reflectivity from waveform inversion. Geophysical Journal International, 1993, 115, 410-420.	2.4	6
118	Marine seismic sources used for deep seismic reflection profiling. First Break, 1992, 10, .	0.4	8
119	Layers thicknesses in the lower crust: Modelling and spectral analysis of BIRPS data. Geodynamic Series, 1991, , 351-357.	0.1	3
120	Multiple suppression in deep water. Geodynamic Series, 1991, , 383-389.	0.1	2
121	Bending fatigue in high-strength fibre ropes. International Journal of Fatigue, 1991, 13, 174-180.	5.7	10
122	Crustal structure of the central and southern North Sea from BIRPS deep seismic reflection profiling. Journal of the Geological Society, 1991, 148, 445-457.	2.1	41
123	Seismic attenuation in the continental crust SW of England. Geophysical Journal International, 1990, 103, 533-540.	2.4	19
124	Basin-forming processes and the deep structure of the Campos Basin, offshore Brazil. Marine and Petroleum Geology, 1990, 7, 94-122.	3.3	53
125	Effective Q determination using frequency methods on BIRPS data. Tectonophysics, 1990, 173, 25-30.	2.2	28
126	Dating the source of lower crystal reflectivity using BIRPS deep Seismic profiles across the lapetus suture. Tectonophysics, 1990, 173, 445-454.	2.2	20

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127	Labeling longâ€period multiple reflections. Geophysics, 1989, 54, 122-126.	2.6	6
128	The deep structure of northern England and the Iapetus Suture zone from BIRPS deep seismic reflection profiles. Journal of the Geological Society, 1988, 145, 727-740.	2.1	122
129	Is lower crustal layering related to extension?. Geophysical Journal International, 1987, 89, 239-242.	2.4	15
130	Seismic Imaging Using Complex Wavelets. , 0, , .		5
131	Expedition 369 summary. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	6
132	Expedition 369 methods. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	15
133	Site U1512. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	7
134	Site U1513. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	12
135	Site U1514. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	5
136	Site U1515. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	4
137	Site U1516. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	7