

# Harm J A Van Avendonk

## List of Publications by Year in descending order

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61  
papers

2,382  
citations

186265

28  
h-index

214800

47  
g-index

62  
all docs

62  
docs citations

62  
times ranked

1965  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Yakutat terrane: Dramatic change in crustal thickness across the Transition fault, Alaska. <i>Geology</i> , 2010, 38, 895-898.	4.4	129
2	Crustal structure of the Yakutat terrane and the evolution of subduction and collision in southern Alaska. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	121
3	Inversion of a hyper-extended rifted margin in the southern Central Range of Taiwan. <i>Geology</i> , 2013, 41, 871-874.	4.4	114
4	Rifting and magmatism in the northeastern South China Sea from wide-angle tomography and seismic reflection imaging. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 2305-2323.	3.4	113
5	Crustal structure and inferred rifting processes in the northeast South China Sea. <i>Marine and Petroleum Geology</i> , 2014, 58, 612-626.	3.3	100
6	Composition and structure of the central Aleutian island arc from arc-parallel wide-angle seismic data. <i>Geochemistry, Geophysics, Geosystems</i> , 2004, 5, n/a-n/a.	2.5	98
7	Seismic velocity structure of the rifted margin of the eastern Grand Banks of Newfoundland, Canada. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	93
8	A two-dimensional tomographic study of the Clipperton transform fault. <i>Journal of Geophysical Research</i> , 1998, 103, 17885-17899.	3.3	89
9	Inferring crustal structure in the Aleutian island arc from a sparse wide-angle seismic data set. <i>Geochemistry, Geophysics, Geosystems</i> , 2004, 5, .	2.5	85
10	Extension of continental crust at the margin of the eastern Grand Banks, Newfoundland. <i>Tectonophysics</i> , 2009, 468, 131-148.	2.2	75
11	Crustal-scale seismic profiles across the Manila subduction zone: The transition from intraoceanic subduction to incipient collision. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 1-17.	3.4	75
12	Continental crust under compression: A seismic refraction study of South Island Geophysical Transect I, South Island, New Zealand. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	73
13	Deep crustal structure of the northeastern Gulf of Mexico: Implications for rift evolution and seafloor spreading. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 6802-6822.	3.4	72
14	Deep crustal structure in the eastern Gulf of Mexico. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 6782-6801.	3.4	66
15	Continental rifting and sediment infill in the northwestern Gulf of Mexico. <i>Geology</i> , 2015, 43, 631-634.	4.4	59
16	Decrease in oceanic crustal thickness since the breakup of Pangaea. <i>Nature Geoscience</i> , 2017, 10, 58-61.	12.9	58
17	Crustal accretion in the Manila trench accretionary wedge at the transition from subduction to mountain-building in Taiwan. <i>Earth and Planetary Science Letters</i> , 2013, 375, 430-440.	4.4	55
18	Cooperation among tectonic and surface processes in the St. Elias Range, Earth's highest coastal mountains. <i>Geophysical Research Letters</i> , 2015, 42, 5838-5846.	4.0	52

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19	Evidence for asymmetric nonvolcanic rifting and slow incipient oceanic accretion from seismic reflection data on the Newfoundland margin. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	49
20	Hybrid shortest path and ray bending method for traveltimes and raypath calculations. <i>Geophysics</i> , 2001, 66, 648-653.	2.6	48
21	Episodic magmatism and serpentized mantle exhumation at an ultraslow-spreading centre. <i>Nature Geoscience</i> , 2018, 11, 444-448.	12.9	43
22	Three-dimensional seismic imaging of the Blake Ridge methane hydrate province: Evidence for large, concentrated zones of gas hydrate and morphologically driven advection. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	41
23	Constraining the maximum depth of brittle deformation at slow- and ultraslow-spreading ridges using microseismicity. <i>Geology</i> , 2019, 47, 1069-1073.	4.4	40
24	Seismic images of the Transition fault and the unstable Yakutat-Pacifica-North American triple junction. <i>Geology</i> , 2013, 41, 571-574.	4.4	38
25	The role of frictional strength on plate coupling at the subduction interface. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	36
26	New geophysical constraints on a failed subduction initiation: The structure and potential evolution of the Cagua Ridge and Huatung Basin. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 380-400.	2.5	35
27	Magmatic-tectonic conditions for hydrothermal venting on an ultraslow-spread oceanic core complex. <i>Geology</i> , 2017, 45, 839-842.	4.4	35
28	Incipient subduction at the contact with stretched continental crust: The Puysegur Trench. <i>Earth and Planetary Science Letters</i> , 2019, 520, 212-219.	4.4	34
29	Deep crustal structure of an arc-continent collision: Constraints from seismic traveltimes in central Taiwan and the Philippine Sea. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 8397-8416.	3.4	28
30	The role of farfield tectonic stress in oceanic intraplate deformation, Gulf of Alaska. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 1862-1872.	3.4	26
31	Active extension in Taiwan's precollision zone: A new model of plate bending in continental crust. <i>Geology</i> , 2012, 40, 831-834.	4.4	25
32	Moho interface beneath Yakutat terrane, southern Alaska. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 5084-5097.	3.4	24
33	Recycling of depleted continental mantle by subduction and plumes at the Hikurangi Plateau large igneous province, southwestern Pacific Ocean. <i>Geology</i> , 2019, 47, 795-798.	4.4	21
34	The role of mantle melts in the transition from rifting to seafloor spreading offshore eastern North America. <i>Earth and Planetary Science Letters</i> , 2019, 525, 115756.	4.4	21
35	Crustal structure across the Costa Rican Volcanic Arc. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 1087-1103.	2.5	20
36	Constraints on the composition of the Aleutian arc lower crust from $V_P/V_S$ . <i>Geophysical Research Letters</i> , 2013, 40, 2579-2584.	4.0	20

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37	A lithospheric profile across northern Taiwan: from arc-continent collision to extension. <i>Geophysical Journal International</i> , 2016, 204, 331-346.	2.4	20
38	Stress transition from horizontal to vertical forces during subduction initiation. <i>Nature Geoscience</i> , 2022, 15, 149-155.	12.9	20
39	Limited Mantle Hydration by Bending Faults at the Middle America Trench. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB020982.	3.4	18
40	Evidence for a Prolonged Continental Breakup Resulting From Slow Extension Rates at the Eastern North American Volcanic Rifted Margin. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB020093.	3.4	17
41	Strike-slip Enables Subduction Initiation Beneath a Failed Rift: New Seismic Constraints From Puysegur Margin, New Zealand. <i>Tectonics</i> , 2021, 40, e2020TC006436.	2.8	17
42	Subduction and accretion of sedimentary rocks in the Yakutat collision zone, St. Elias orogen, Gulf of Alaska. <i>Earth and Planetary Science Letters</i> , 2013, 381, 116-126.	4.4	16
43	Crustal structure of the flanks of the East Pacific Rise: Implications for overlapping spreading centers. <i>Geophysical Research Letters</i> , 1998, 25, 2213-2216.	4.0	15
44	A Bayesian 3-D linear gravity inversion for complex density distributions: application to the Puysegur subduction system. <i>Geophysical Journal International</i> , 2020, 223, 1899-1918.	2.4	15
45	The Eastern North American Margin Community Seismic Experiment: An Amphibious Active- and Passive-source Dataset. <i>Seismological Research Letters</i> , 2020, 91, 533-540.	1.9	15
46	Crustal Structure of the Northern Hikurangi Margin, New Zealand: Variable Accretion and Overthrusting Plate Strength Influenced by Rough Subduction. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB021176.	3.4	12
47	Imaging a plate boundary using double-sided onshore-offshore seismic profiling. <i>The Leading Edge</i> , 2003, 22, 256-260.	0.7	11
48	Rapid sedimentation and overpressure in shallow sediments of the Bering Trough, offshore southern Alaska. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 2457-2477.	3.4	10
49	Seismic structure and segmentation of the axial valley of the Manus and Bougainville arcs. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 2149-2161.	2.5	10
50	A comparison between the transpressional plate boundaries of South Island, New Zealand, and southern California, USA: The Alpine and San Andreas Fault Systems. <i>Geophysical Monograph Series</i> , 2007, , 307-327.	0.1	9
51	Seismic investigation of an active ocean-continent transform margin: the interaction between the Swan Islands Fault Zone and the ultraslow-spreading Mid-Cayman Spreading Centre. <i>Geophysical Journal International</i> , 2019, 219, 159-184.	2.4	9
52	Seismic Evidence of Magmatic Rifting in the Offshore Taupo Volcanic Zone, New Zealand. <i>Geophysical Research Letters</i> , 2019, 46, 12949-12957.	4.0	9
53	Compressional and shear-wave velocity structure of the continent-ocean transition zone at the eastern Grand Banks, Newfoundland. <i>Geophysical Research Letters</i> , 2013, 40, 3014-3020.	4.0	8
54	Crustal Structure of the Hikurangi Margin From SHIRE Seismic Data and the Relationship Between Forearc Structure and Shallow Megathrust Slip Behavior. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	8

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55	A new mechanism for shape induced seismic anisotropy. <i>Wave Motion</i> , 1994, 20, 89-98.	2.0	7
56	Stratigraphic architecture of Solander Basin records Southern Ocean currents and subduction initiation beneath southwest New Zealand. <i>Basin Research</i> , 2021, 33, 403-426.	2.7	7
57	Slowness-weighted diffraction stack for migrating wide-angle seismic data in laterally varying media. <i>Geophysics</i> , 2004, 69, 1046-1052.	2.6	5
58	Seismic evidence for fluids in fault zones on top of the subducting Cocos Plate beneath Costa Rica. <i>Geophysical Journal International</i> , 2010, , .	2.4	5
59	Along-strike structure of the Costa Rican convergent margin from seismic a refraction/reflection survey: Evidence for underplating beneath the inner forearc. <i>Geophysics, Geosystems</i> , 2016, 17, 501-520.	2.5	4
60	Hybrid ray tracer and amplitude calculation with finite difference, graph theory and ray bending. , 2006, , .		2
61	The Sabine block, Gulf of Mexico: Promontory on the North American margin?: COMMENT. <i>Geology</i> , 2018, 46, e440-e440.	4.4	1