Harm J A Van Avendonk

List of Publications by Year
in descending order

61	2,382	186265	214800
papers	citations	28 h-index	47 g-index

62	62	62	1965
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Crustal Structure of the Hikurangi Margin From SHIRE Seismic Data and the Relationship Between Forearc Structure and Shallow Megathrust Slip Behavior. Geophysical Research Letters, 2022, 49, .	4.0	8
2	Stress transition from horizontal to vertical forces during subduction initiation. Nature Geoscience, 2022, 15, 149-155.	12.9	20
3	Stratigraphic architecture of Solander Basin records Southern Ocean currents and subduction initiation beneath southwest New Zealand. Basin Research, 2021, 33, 403-426.	2.7	7
4	Limited Mantle Hydration by Bending Faults at the Middle America Trench. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB020982.	3.4	18
5	Crustal Structure of the Northern Hikurangi Margin, New Zealand: Variable Accretion and Overthrusting Plate Strength Influenced by Rough Subduction. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB021176.	3.4	12
6	Strikeâ€Slip Enables Subduction Initiation Beneath a Failed Rift: New Seismic Constraints From Puysegur Margin, New Zealand. Tectonics, 2021, 40, e2020TC006436.	2.8	17
7	A Bayesian 3-D linear gravity inversion for complex density distributions: application to the Puysegur subduction system. Geophysical Journal International, 2020, 223, 1899-1918.	2.4	15
8	Evidence for a Prolonged Continental Breakup Resulting From Slow Extension Rates at the Eastern North American Volcanic Rifted Margin. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB020093.	3.4	17
9	The Eastern North American Margin Community Seismic Experiment: An Amphibious Activeâ€•and Passiveâ€Source Dataset. Seismological Research Letters, 2020, 91, 533-540.	1.9	15
10	Recycling of depleted continental mantle by subduction and plumes at the Hikurangi Plateau large igneous province, southwestern Pacific Ocean. Geology, 2019, 47, 795-798.	4.4	21
11	Constraining the maximum depth of brittle deformation at slow- and ultraslow-spreading ridges using microseismicity. Geology, 2019, 47, 1069-1073.	4.4	40
12	The role of mantle melts in the transition from rifting to seafloor spreading offshore eastern North America. Earth and Planetary Science Letters, 2019, 525, 115756.	4.4	21
13	Incipient subduction at the contact with stretched continental crust: The Puysegur Trench. Earth and Planetary Science Letters, 2019, 520, 212-219.	4.4	34
14	Seismic investigation of an active oceanâ€“continent transform margin: the interaction between the Swan Islands Fault Zone and the ultraslow-spreading Mid-Cayman Spreading Centre. Geophysical Journal International, 2019, 219, 159-184.	2.4	9
15	Seismic Evidence of Magmatic Rifting in the Offshore Taupo Volcanic Zone, New Zealand. Geophysical Research Letters, 2019, 46, 12949-12957.	4.0	9
16	The Sabine block, Gulf of Mexico: Promontory on the North American margin?: COMMENT. Geology, 2018, 46, e440-e440.	4.4	1
17	Episodic magmatism and serpentinized mantle exhumation at an ultraslow-spreading centre. Nature Geoscience, 2018, 11, 444-448.	12.9	43
18	Rapid sedimentation and overpressure in shallow sediments of the Bering Trough, offshore southern Alaska. Journal of Geophysical Research: Solid Earth, 2017, 122, 2457-2477.	3.4	10

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19	Seismic structure and segmentation of the axial valley of the <scp>M</scp>idâ€<scp>C</scp>ayman <scp>S</scp>preading <scp>C</scp>enter. Geochemistry, Geophysics, Geosystems, 2017, 18, 2149-2161.	2.5	10
20	Decrease in oceanic crustal thickness since the breakup of Pangaea. Nature Geoscience, 2017, 10, 58-61.	12.9	58
21	Magmatic-tectonic conditions for hydrothermal venting on an ultraslow-spread oceanic core complex. Geology, 2017, 45, 839-842.	4.4	35
22	Alongâ€strike structure of the <scp>C</scp>osta <scp>R</scp>ican convergent margin from seismic a refraction/reflection survey: Evidence for underplating beneath the inner forearc. Geochemistry, Geophysics, Geosystems, 2016, 17, 501-520.	2.5	4
23	A lithospheric profile across northern Taiwan: from arc-continent collision to extension. Geophysical Journal International, 2016, 204, 331-346.	2.4	20
24	Cooperation among tectonic and surface processes in the St. Elias Range, Earth's highest coastal mountains. Geophysical Research Letters, 2015, 42, 5838-5846.	4.0	52
25	Continental rifting and sediment infill in the northwestern Gulf of Mexico. Geology, 2015, 43, 631-634.	4.4	59
26	New geophysical constraints on a failed subduction initiation: The structure and potential evolution of the <scp>G</scp>agua <scp>R</scp>idge and <scp>H</scp>uatung <scp>B</scp>asin. Geochemistry, Geophysics, Geosystems, 2015, 16, 380-400.	2.5	35
27	Deep crustal structure of an arcâ€continent collision: Constraints from seismic traveltimes in central Taiwan and the Philippine Sea. Journal of Geophysical Research: Solid Earth, 2014, 119, 8397-8416.	3.4	28
28	Crustalâ€scale seismic profiles across the Manila subduction zone: The transition from intraoceanic subduction to incipient collision. Journal of Geophysical Research: Solid Earth, 2014, 119, 1-17.	3.4	75
29	Rifting and magmatism in the northeastern South China Sea from wideâ€angle tomography and seismic reflection imaging. Journal of Geophysical Research: Solid Earth, 2014, 119, 2305-2323.	3.4	113
30	Crustal structure and inferred rifting processes in the northeast South China Sea. Marine and Petroleum Geology, 2014, 58, 612-626.	3.3	100
31	Deep crustal structure of the northeastern Gulf of Mexico: Implications for rift evolution and seafloor spreading. Journal of Geophysical Research: Solid Earth, 2014, 119, 6802-6822.	3.4	72
32	Deep crustal structure in the eastern Gulf of Mexico. Journal of Geophysical Research: Solid Earth, 2014, 119, 6782-6801.	3.4	66
33	Crustal structure across the Costa Rican Volcanic Arc. Geochemistry, Geophysics, Geosystems, 2013, 14, 1087-1103.	2.5	20
34	Crustal accretion in the Manila trench accretionary wedge at the transition from subduction to mountain-building in Taiwan. Earth and Planetary Science Letters, 2013, 375, 430-440.	4.4	55
35	Compressional and shearâ€wave velocity structure of the continentâ€ocean transition zone at the eastern Grand Banks, Newfoundland. Geophysical Research Letters, 2013, 40, 3014-3020.	4.0	8
36	Subduction and accretion of sedimentary rocks in the Yakutat collision zone, St. Elias orogen, Gulf of Alaska. Earth and Planetary Science Letters, 2013, 381, 116-126.	4.4	16

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37	Moho interface beneath Yakutat terrane, southern Alaska. Journal of Geophysical Research: Solid Earth, 2013, 118, 5084-5097.	3.4	24
38	Seismic images of the Transition fault and the unstable Yakutatâ€“Pacificâ€“North American triple junction. Geology, 2013, 41, 571-574.	4.4	38
39	Inversion of a hyper-extended rifted margin in the southern Central Range of Taiwan. Geology, 2013, 41, 871-874.	4.4	114
40	Constraints on the composition of the Aleutian arc lower crust from V_P/V_S. Geophysical Research Letters, 2013, 40, 2579-2584.	4.0	20
41	The role of farfield tectonic stress in oceanic intraplate deformation, Gulf of Alaska. Journal of Geophysical Research: Solid Earth, 2013, 118, 1862-1872.	3.4	26
42	Active extension in Taiwan's precollision zone: A new model of plate bending in continental crust. Geology, 2012, 40, 831-834.	4.4	25
43	Crustal structure of the Yakutat terrane and the evolution of subduction and collision in southern Alaska. Journal of Geophysical Research, 2012, 117, .	3.3	121
44	The role of frictional strength on plate coupling at the subduction interface. Geochemistry, Geophysics, Geosystems, 2012, 13, .	2.5	36
45	Seismic evidence for fluids in fault zones on top of the subducting Cocos Plate beneath Costa Rica. Geophysical Journal International, 2010, , .	2.4	5
46	The Yakutat terrane: Dramatic change in crustal thickness across the Transition fault, Alaska. Geology, 2010, 38, 895-898.	4.4	129
47	Extension of continental crust at the margin of the eastern Grand Banks, Newfoundland. Tectonophysics, 2009, 468, 131-148.	2.2	75
48	Threeâ€dimensional seismic imaging of the Blake Ridge methane hydrate province: Evidence for large, concentrated zones of gas hydrate and morphologically driven advection. Journal of Geophysical Research, 2008, 113, .	3.3	41
49	A comparison between the transpressional plate boundaries of South Island, New Zealand, and southern California, USA: The Alpine and San Andreas Fault Systems. Geophysical Monograph Series, 2007, , 307-327.	0.1	9
50	Evidence for asymmetric nonvolcanic rifting and slow incipient oceanic accretion from seismic reflection data on the Newfoundland margin. Journal of Geophysical Research, 2006, 111, .	3.3	49
51	Seismic velocity structure of the rifted margin of the eastern Grand Banks of Newfoundland, Canada. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	93
52	Hybrid ray tracer and amplitude calculation with finite difference, graph theory and ray bending. , 2006, , .		2
53	Slownessâ€weighted diffraction stack for migrating wideâ€angle seismic data in laterally varying media. Geophysics, 2004, 69, 1046-1052.	2.6	5
54	Inferring crustal structure in the Aleutian island arc from a sparse wide-angle seismic data set. Geochemistry, Geophysics, Geosystems, 2004, 5, .	2.5	85

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55	Continental crust under compression: A seismic refraction study of South Island Geophysical Transect I, South Island, New Zealand. Journal of Geophysical Research, 2004, 109, .	3.3	73
56	Composition and structure of the central Aleutian island arc from arc-parallel wide-angle seismic data. Geochemistry, Geophysics, Geosystems, 2004, 5, n/a-n/a.	2.5	98
57	Imaging a plate boundar using double-sided onshore-offshore seismic profiling. The Leading Edge, 2003, 22, 256-260.	0.7	11
58	Hybrid shortest path and ray bending method for traveltime and raypath calculations. Geophysics, 2001, 66, 648-653.	2.6	48
59	Crustal structure of the flanks of the East Pacific Rise: Implications for overlapping spreading centers. Geophysical Research Letters, 1998, 25, 2213-2216.	4.0	15
60	A two-dimensional tomographic study of the Clipperton transform fault. Journal of Geophysical Research, 1998, 103, 17885-17899.	3.3	89
61	A new mechanism for shape induced seismic anisotropy. Wave Motion, 1994, 20, 89-98.	2.0	7