

# Robert D Van Der Hilst

## List of Publications by Year in descending order

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Version: 2024-02-01

20  
papers

2,241  
citations

516710

16  
h-index

752698

20  
g-index

23  
all docs

23  
docs citations

23  
times ranked

1826  
citing authors

#	ARTICLE	IF	CITATIONS
1	An Iterative Linear Method with Variable Shear Stress Magnitudes for Estimating the Stress Tensor from Earthquake Focal Mechanism Data: Method and Examples. Bulletin of the Seismological Society of America, 2022, 112, 1224-1239.	2.3	5
2	Variations in Seismic Wave Speed and $V_P/V_S$ Ratio in the North American Lithosphere. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB020574.	3.4	14
3	Variable modification of continental lithosphere during the Proterozoic Grenville orogeny: Evidence from teleseismic P-wave tomography. Earth and Planetary Science Letters, 2019, 525, 115763.	4.4	20
4	High Temporal Resolution Monitoring of Small Variations in Crustal Strain by Dense Seismic Arrays. Geophysical Research Letters, 2019, 46, 128-137.	4.0	52
5	Shear Wave Tomography Beneath the United States Using a Joint Inversion of Surface and Body Waves. Journal of Geophysical Research: Solid Earth, 2018, 123, 5169-5189.	3.4	36
6	Compositional heterogeneity near the base of the mantle transition zone beneath Hawaii. Nature Communications, 2018, 9, 1266.	12.8	15
7	Common conversion point stacking of receiver functions versus passive-source reverse time migration and wavefield regularization. Geophysical Journal International, 2017, 209, 923-934.	2.4	19
8	Mapping Mantle Transition Zone Discontinuities Beneath the Central Pacific With Array Processing of $SS$ Precursors. Journal of Geophysical Research: Solid Earth, 2017, 122, 10,364.	3.4	21
9	From Relative to Absolute Teleseismic Travel Times: The Absolute Arrival Time Recovery Method (AARM). Bulletin of the Seismological Society of America, 2017, 107, 2511-2520.	2.3	11
10	Direct inversion of surface wave dispersion for three-dimensional shallow crustal structure based on ray tracing: methodology and application. Geophysical Journal International, 2015, 201, 1251-1263.	2.4	194
11	Model Update January 2013: Upper Mantle Heterogeneity beneath North America from Travel-Time Tomography with Global and USArray Transportable Array Data. Seismological Research Letters, 2014, 85, 77-81.	1.9	38
12	Seismic Imaging of Transition Zone Discontinuities Suggests Hot Mantle West of Hawaii. Science, 2011, 332, 1068-1071.	12.6	75
13	Heterogeneity and anisotropy of the lithosphere of SE Tibet from surface wave array tomography. Journal of Geophysical Research, 2010, 115, .	3.3	254
14	A new global model for $P$ wave speed variations in Earth's mantle. Geochemistry, Geophysics, Geosystems, 2008, 9, .	2.5	558
15	Upper Mantle Heterogeneity beneath North America from Travel Time Tomography with Global and USArray Transportable Array Data. Seismological Research Letters, 2008, 79, 384-392.	1.9	107
16	Constraining P-wave velocity variations in the upper mantle beneath Southeast Asia. Physics of the Earth and Planetary Interiors, 2006, 154, 180-195.	1.9	168
17	Banana-doughnut kernels and mantle tomography. Geophysical Journal International, 2005, 163, 956-961.	2.4	87
18	Multimode Rayleigh wave inversion for heterogeneity and azimuthal anisotropy of the Australian upper mantle. Geophysical Journal International, 2002, 151, 738-754.	2.4	172

#	ARTICLE	IF	CITATIONS
19	The Poisson ratio of the Australian crust: geological and geophysical implications. Earth and Planetary Science Letters, 2000, 183, 121-132.	4.4	179
20	Joint seismic tomography for bulk sound and shear wave speed in the Earth's mantle. Journal of Geophysical Research, 1998, 103, 12469-12493.	3.3	215