

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	A new global model for P wave speed variations in Earth's mantle. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	2.5	558
2	Heterogeneity and anisotropy of the lithosphere of SE Tibet from surface wave array tomography. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	254
3	Joint seismic tomography for bulk sound and shear wave speed in the Earth's mantle. <i>Journal of Geophysical Research</i> , 1998, 103, 12469-12493.	3.3	215
4	Direct inversion of surface wave dispersion for three-dimensional shallow crustal structure based on ray tracing: methodology and application. <i>Geophysical Journal International</i> , 2015, 201, 1251-1263.	2.4	194
5	The Poisson ratio of the Australian crust: geological and geophysical implications. <i>Earth and Planetary Science Letters</i> , 2000, 183, 121-132.	4.4	179
6	Multimode Rayleigh wave inversion for heterogeneity and azimuthal anisotropy of the Australian upper mantle. <i>Geophysical Journal International</i> , 2002, 151, 738-754.	2.4	172
7	Constraining P-wave velocity variations in the upper mantle beneath Southeast Asia. <i>Physics of the Earth and Planetary Interiors</i> , 2006, 154, 180-195.	1.9	168
8	Upper Mantle Heterogeneity beneath North America from Travel Time Tomography with Global and USArray Transportable Array Data. <i>Seismological Research Letters</i> , 2008, 79, 384-392.	1.9	107
9	Banana-doughnut kernels and mantle tomography. <i>Geophysical Journal International</i> , 2005, 163, 956-961.	2.4	87
10	Seismic Imaging of Transition Zone Discontinuities Suggests Hot Mantle West of Hawaii. <i>Science</i> , 2011, 332, 1068-1071.	12.6	75
11	High Temporal Resolution Monitoring of Small Variations in Crustal Strain by Dense Seismic Arrays. <i>Geophysical Research Letters</i> , 2019, 46, 128-137.	4.0	52
12	Model Update January 2013: Upper Mantle Heterogeneity beneath North America from Travel-Time Tomography with Global and USArray Transportable Array Data. <i>Seismological Research Letters</i> , 2014, 85, 77-81.	1.9	38
13	Shear Wave Tomography Beneath the United States Using a Joint Inversion of Surface and Body Waves. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 5169-5189.	3.4	36
14	Mapping Mantle Transition Zone Discontinuities Beneath the Central Pacific With Array Processing of SS Precursors. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 10,364.	3.4	21
15	Variable modification of continental lithosphere during the Proterozoic Grenville orogeny: Evidence from teleseismic P-wave tomography. <i>Earth and Planetary Science Letters</i> , 2019, 525, 115763.	4.4	20
16	Common conversion point stacking of receiver functions versus passive-source reverse time migration and wavefield regularization. <i>Geophysical Journal International</i> , 2017, 209, 923-934.	2.4	19
17	Compositional heterogeneity near the base of the mantle transition zone beneath Hawaii. <i>Nature Communications</i> , 2018, 9, 1266.	12.8	15
18	Variations in Seismic Wave Speed and V_P/V_S Ratio in the North American Lithosphere. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB020574.	3.4	14

#	ARTICLE	IF	CITATIONS
19	From Relative to Absolute Teleseismic Travel Times: The Absolute Arrivalâ€Time Recovery Method (AARM). Bulletin of the Seismological Society of America, 2017, 107, 2511-2520.	2.3	11
20	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