

Guust Nolet

List of Publications by Year in descending order

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115
papers

7,743
citations

66315

42
h-index

53190

85
g-index

116
all docs

116
docs citations

116
times ranked

3523
citing authors

#	ARTICLE	IF	CITATIONS
1	Floating Seismographs (MERMAIDS). Encyclopedia of Earth Sciences Series, 2021, , 395-399.	0.1	0
2	Earth's Structure, Upper Mantle. Encyclopedia of Earth Sciences Series, 2021, , 183-189.	0.1	0
3	Seismic Tomography. Encyclopedia of Earth Sciences Series, 2021, , 1507-1511.	0.1	0
4	MeLa: A Programming Language for a New Multidisciplinary Oceanographic Float. Sensors, 2020, 20, 6081.	2.1	1
5	Multiscale Estimation of Event Arrival Times and Their Uncertainties in Hydroacoustic Records from Autonomous Oceanic Floats. Bulletin of the Seismological Society of America, 2020, 110, 970-997.	1.1	9
6	Floating Seismographs (MERMAIDS). Encyclopedia of Earth Sciences Series, 2020, , 1-6.	0.1	3
7	Imaging the Galápagos mantle plume with an unconventional application of floating seismometers. Scientific Reports, 2019, 9, 1326.	1.6	33
8	Seismic Tomography. Encyclopedia of Earth Sciences Series, 2019, , 1-5.	0.1	0
9	Earth's Structure, Upper Mantle. Encyclopedia of Earth Sciences Series, 2019, , 1-7.	0.1	0
10	Delays from Floating Seismometers (MERMAID), Part I: Data Processing. Seismological Research Letters, 2016, 87, 73-80.	0.8	10
11	Compression approaches for the regularized solutions of linear systems from large-scale inverse problems. GEM - International Journal on Geomathematics, 2015, 6, 251-294.	0.7	12
12	Hydrophone Calibration at Very Low Frequencies. Bulletin of the Seismological Society of America, 2015, 105, 1797-1802.	1.1	4
13	Seismic monitoring in the oceans by autonomous floats. Nature Communications, 2015, 6, 8027.	5.8	38
14	Traveltime dispersion in an isotropic elastic mantle: strong lower-mantle signal in differential-frequency residuals. Geophysical Journal International, 2015, 203, 2099-2118.	1.0	7
15	Transmission Tomography in Seismology. , 2015, , 1887-1904.		1
16	Solving large tomographic linear systems: size reduction and error estimation. Geophysical Journal International, 2014, 199, 276-285.	1.0	5
17	Cross-borehole tomography with correlation delay times. Geophysics, 2014, 79, R1-R12.	1.4	8
18	Automatic recognition of T and teleseismic P waves by statistical analysis of their spectra: An application to continuous records of moored hydrophones. Journal of Geophysical Research: Solid Earth, 2014, 119, 6469-6485.	1.4	8

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19	Transmission Tomography in Seismology. , 2014, , 1-16.		1
20	Global seismic tomography with sparsity constraints: Comparison with smoothing and damping regularization. Journal of Geophysical Research: Solid Earth, 2013, 118, 4887-4899.	1.4	35
21	On the linearity of cross-correlation delay times in finite-frequency tomography. Geophysical Journal International, 2013, 192, 681-687.	1.0	43
22	Finite frequency whole mantle <i>P</i> wave tomography: Improvement of subducted slab images. Geophysical Research Letters, 2013, 40, 5652-5657.	1.5	167
23	Transmission Tomography in Seismology. , 2013, , 1-16.		0
24	An intermediate-depth tensional earthquake (MW 5.7) and its aftershocks within the Nazca slab, central Chile: A reactivated outer rise fault?. Earth and Planetary Science Letters, 2012, 327-328, 9-16.	1.8	12
25	Synthetic seismograms for a synthetic Earth: long-period P- and S-wave traveltime variations can be explained by temperature alone. Geophysical Journal International, 2012, 188, 1393-1412.	1.0	58
26	Structure of North American mantle constrained by simultaneous inversion of multiple-frequency SH, SS, and Love waves. Journal of Geophysical Research, 2011, 116, .	3.3	48
27	Modern mermaids: New floats image the deep Earth. Eos, 2011, 92, 337-338.	0.1	25
28	Automatic discrimination of underwater acoustic signals generated by teleseismic P-waves: A probabilistic approach. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	17
29	Solving or resolving global tomographic models with spherical wavelets, and the scale and sparsity of seismic heterogeneity. Geophysical Journal International, 2011, 187, 969-988.	1.0	83
30	Seismic Tomography. Encyclopedia of Earth Sciences Series, 2011, , 1195-1198.	0.1	0
31	Slabs Do Not Go Gently. Science, 2009, 324, 1152-1153.	6.0	22
32	On the potential of recording earthquakes for global seismic tomography by low-cost autonomous instruments in the oceans. Journal of Geophysical Research, 2009, 114, .	3.3	39
33	Multiple-frequency <i>SH</i> -wave tomography of the western US upper mantle. Geophysical Journal International, 2009, 178, 1384-1402.	1.0	59
34	Surface wave tomography for azimuthal anisotropy in a strongly reduced parameter space. Geophysical Journal International, 2008, 174, 629-648.	1.0	19
35	Two-stage subduction history under North America inferred from multiple-frequency tomography. Nature Geoscience, 2008, 1, 458-462.	5.4	262
36	Mantle plume tomography. Chemical Geology, 2007, 241, 248-263.	1.4	69

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37	Dynamic ray tracing and traveltimes corrections for global seismic tomography. Journal of Computational Physics, 2007, 226, 672-687.	1.9	39
38	Computing traveltimes and amplitude sensitivity kernels in finite-frequency tomography. Journal of Computational Physics, 2007, 226, 2271-2288.	1.9	30
39	F. Anthony Dahlen (1942–2007). Nature, 2007, 448, 268-268.	13.7	1
40	Tomographic inversion using ℓ_1 -norm regularization of wavelet coefficients. Geophysical Journal International, 2007, 170, 359-370.	1.0	148
41	Global upper-mantle structure from finite-frequency surface-wave tomography. Journal of Geophysical Research, 2006, 111, .	3.3	112
42	A future for drifting seismic networks. Eos, 2006, 87, 305.	0.1	20
43	Measuring finite-frequency body-wave amplitudes and traveltimes. Geophysical Journal International, 2006, 167, 271-287.	1.0	70
44	Finite-frequency effects in global surface-wave tomography. Geophysical Journal International, 2005, 163, 1087-1111.	1.0	82
45	Optimal parametrization of tomographic models. Geophysical Journal International, 2005, 161, 365-372.	1.0	30
46	Automated multimode inversion of surface and S-waveforms. Geophysical Journal International, 2005, 162, 951-964.	1.0	84
47	Comment on "On sensitivity kernels for "wave-equation" transmission tomography" by de Hoop and van der Hilst. Geophysical Journal International, 2005, 163, 949-951.	1.0	27
48	Perspectives on array seismology and USArray. Geophysical Monograph Series, 2005, , 1-6.	0.1	6
49	Traveltimes and amplitudes of seismic waves: A re-assessment. Geophysical Monograph Series, 2005, , 37-47.	0.1	13
50	Three-dimensional sensitivity kernels for surface wave observables. Geophysical Journal International, 2004, 158, 142-168.	1.0	255
51	Finite-Frequency Tomography Reveals a Variety of Plumes in the Mantle. Science, 2004, 303, 338-343.	6.0	941
52	P-wave amplitudes in a 3-D earth. Geophysical Journal International, 2003, 155, 1-10.	1.0	42
53	Multiple scattering of high-frequency seismic waves in the deep Earth: Modeling and numerical examples. Journal of Geophysical Research, 2003, 108, .	3.3	29
54	Surface sediment effects on teleseismic P-wave amplitude. Journal of Geophysical Research, 2003, 108, .	3.3	5

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55	Upper mantle beneath Southeast Asia from Svelocity tomography. Journal of Geophysical Research, 2003, 108, .	3.3	261
56	Plume-driven plumbing and crustal formation in Iceland. Journal of Geophysical Research, 2002, 107, ESE 4-1.	3.3	116
57	Imaging the mantle beneath Iceland using integrated seismological techniques. Journal of Geophysical Research, 2002, 107, ESE 3-1-ESE 3-16.	3.3	144
58	Seismic evidence for a tilted mantle plume and north-south mantle flow beneath Iceland. Earth and Planetary Science Letters, 2002, 197, 261-272.	1.8	76
59	Wavefront healing: a banana-doughnut perspective. Geophysical Journal International, 2001, 146, 289-312.	1.0	117
60	Fr�chet kernels for finite-frequency traveltimes-I. Theory. Geophysical Journal International, 2000, 141, 157-174.	1.0	628
61	Fr�chet kernels for finite-frequency traveltimes-II. Examples. Geophysical Journal International, 2000, 141, 175-203.	1.0	247
62	Wave front healing and the evolution of seismic delay times. Journal of Geophysical Research, 2000, 105, 19043-19054.	3.3	132
63	The thin hot plume beneath Iceland. Geophysical Journal International, 1999, 137, 51-63.	1.0	80
64	Explicit, approximate expressions for the resolution and a posteriori covariance of massive tomographic systems. Geophysical Journal International, 1999, 138, 36-44.	1.0	92
65	The deep structure of Corsica as inferred by a broad band seismological profile. Geophysical Research Letters, 1999, 26, 2661-2664.	1.5	12
66	Reply [to "Comment on "Diffraction effects upon finite-frequency travel times: A simple 2-D example" by Tong et al.]. Geophysical Research Letters, 1999, 26, 2035-2035.	1.5	0
67	Slab temperature and thickness from seismic tomography: 2. Izu-Bonin, Japan, and Kuril subduction zones. Journal of Geophysical Research, 1999, 104, 28803-28812.	3.3	30
68	Slab temperature and thickness from seismic tomography: 1. Method and application to Tonga. Journal of Geophysical Research, 1999, 104, 28789-28802.	3.3	51
69	Three-dimensional waveform sensitivity kernels. Geophysical Journal International, 1998, 132, 521-534.	1.0	125
70	Reply [to "Comment on "Empirical determination of depth-distance corrections for mband Mw from Global Seismograph Network Stations" by G. Nolet et al.]. Geophysical Research Letters, 1998, 25, 4243-4244.	1.5	0
71	Reply [to "Comment on "Empirical determination of depth-distance corrections for mband MW from Global Seismograph Network Stations" By Guust Nolet, Steve Krueger and Robert M. Clouser]. Geophysical Research Letters, 1998, 25, 4271-4272.	1.5	0
72	Empirical determination of depth-distance corrections for mband Mw from global seismograph network stations. Geophysical Research Letters, 1998, 25, 1451-1454.	1.5	6

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73	Sn velocities in western and eastern North America. Geophysical Research Letters, 1998, 25, 1557-1560.	1.5	16
74	Diffraction effects upon finite-frequency travel times: A simple 2-D example. Geophysical Research Letters, 1998, 25, 1983-1986.	1.5	29
75	Crustal thickness map of the western United States by partitioned waveform inversion. Journal of Geophysical Research, 1998, 103, 30021-30038.	3.3	40
76	The upper mantle beneath the Philippine Sea region from waveform inversions. Geophysical Research Letters, 1997, 24, 1851-1854.	1.5	25
77	Seismic image of the subducted trailing fragments of the Farallon plate. Nature, 1997, 386, 266-269.	13.7	125
78	Partitioned Nonlinear Optimization for the Interpretation of Seismograms. The IMA Volumes in Mathematics and Its Applications, 1997, , 385-393.	0.5	0
79	Waveform Analysis of Scholte Modes In Ocean Sediment Layers. Geophysical Journal International, 1996, 125, 385-396.	1.0	58
80	Waveform inversions and the significance of surface-wave mode coupling. Geophysical Journal International, 1996, 124, 258-278.	1.0	56
81	Nullspace shuttles. Geophysical Journal International, 1996, 124, 372-380.	1.0	61
82	Crustal thickness estimation using high frequency Rayleigh waves. Geophysical Research Letters, 1995, 22, 539-542.	1.5	17
83	Shear-wave velocity variations in the upper mantle beneath central Europe. Geophysical Journal International, 1994, 117, 695-715.	1.0	164
84	Low S velocities under the Tornquist-Teisseyre zone: Evidence for water injection into the transition zone by subduction. Journal of Geophysical Research, 1994, 99, 15813.	3.3	131
85	Variability of P660s phases as a consequence of topography of the 660 km discontinuity. Physics of the Earth and Planetary Interiors, 1994, 86, 147-164.	0.7	51
86	The Crustal Structure From Teleseismic P-Wave Coda-I. Method. Geophysical Journal International, 1993, 112, 15-25.	1.0	21
87	Teleseismic Delay Times In A 3-D Earth and A New Look At the SDiscrepancy. Geophysical Journal International, 1993, 114, 185-195.	1.0	36
88	Tomographic imaging of subducted lithosphere below northwest Pacific island arcs. Nature, 1991, 353, 37-43.	13.7	519
89	A Seismic Tomography Program for Geological Investigations. , 1991, , 109-126.		0
90	Solving large linear inverse problems by projection. Geophysical Journal International, 1990, 103, 565-568.	1.0	29

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91	Partitioned waveform inversion and two-dimensional structure under the network of autonomously recording seismographs. <i>Journal of Geophysical Research</i> , 1990, 95, 8499-8512.	3.3	279
92	Imaging with Teleseismic Data. , 1989, , 27-47.		1
93	A formalism for nonlinear inversion of seismic surface waves. <i>Geophysical Research Letters</i> , 1986, 13, 26-29.	1.5	87
94	Solving or resolving inadequate and noisy tomographic systems. <i>Journal of Computational Physics</i> , 1985, 61, 463-482.	1.9	171
95	Global Seismology and the Investigation of Deep Continental Structure. , 1984, , 5-22.		1
96	A model for the deep structure of the East African rift system from simultaneous inversion of teleseismic data. <i>Tectonophysics</i> , 1982, 84, 151-178.	0.9	64
97	Linearized Inversion of (Teleseismic) Data. , 1981, , 9-37.		33
98	New inferences from higher mode data in western Europe and northern Eurasia. <i>Geophysical Journal International</i> , 1980, 61, 459-478.	1.0	52
99	Crustal structure of the eastern Mediterranean inferred from Rayleigh wave dispersion. <i>Earth and Planetary Science Letters</i> , 1980, 51, 336-342.	1.8	18
100	The influence of upper mantle discontinuities on the toroidal free oscillations of the Earth. <i>Geophysical Journal International</i> , 1979, 56, 283-308.	1.0	33
101	On the use of rayleigh wave group velocities for the analysis of continental margins. <i>Tectonophysics</i> , 1979, 59, 335-346.	0.9	11
102	An averaged model for the Adriatic subplate. <i>Pure and Applied Geophysics</i> , 1978, 116, 1284-1298.	0.8	12
103	Simultaneous inversion of seismic data. <i>Geophysical Journal International</i> , 1978, 55, 679-691.	1.0	23
104	Array analysis of seismic surface waves: Limits and possibilities. <i>Pure and Applied Geophysics</i> , 1976, 114, 775-790.	0.8	88
105	Higher Rayleigh modes in western Europe. <i>Geophysical Research Letters</i> , 1975, 2, 60-62.	1.5	80
106	Ray theory for seismic waves. , 0, , 11-39.		0
107	Body wave amplitudes: theory. , 0, , 82-92.		0
108	Travel times: observations. , 0, , 93-115.		0

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109	Travel times: interpretation. , 0, , 116-144.		0
110	Body wave amplitudes: observation and interpretation. , 0, , 145-157.		0
111	Surface wave interpretation: ray theory. , 0, , 178-207.		0
112	Surface waves: finite-frequency theory. , 0, , 208-218.		0
113	Common corrections. , 0, , 233-254.		0
114	Resolution and error analysis. , 0, , 277-288.		0
115	Model parametrization. , 0, , 219-232.		0