

# Guy Masters

## List of Publications by Year in descending order

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37  
papers

4,236  
citations

185998

28  
h-index

344852

36  
g-index

37  
all docs

37  
docs citations

37  
times ranked

1895  
citing authors

#	ARTICLE	IF	CITATIONS
1	Finite-Frequency Tomography Reveals a Variety of Plumes in the Mantle. <i>Science</i> , 2004, 303, 338-343.	6.0	941
2	The relative behavior of shear velocity, bulk sound speed, and compressional velocity in the mantle: Implications for chemical and thermal structure. <i>Geophysical Monograph Series</i> , 2000, , 63-87.	0.1	432
3	Aspherical Earth structure from fundamental spheroidal-mode data. <i>Nature</i> , 1982, 298, 609-613.	13.7	306
4	On the resolution of density within the Earth. <i>Physics of the Earth and Planetary Interiors</i> , 2003, 140, 159-167.	0.7	188
5	An inversion for radial viscosity structure using seismic tomography. <i>Geophysical Research Letters</i> , 1992, 19, 1551-1554.	1.5	187
6	Global upper mantle structure from long-period differential travel times. <i>Journal of Geophysical Research</i> , 1991, 96, 6351-6377.	3.3	173
7	Spherically symmetric attenuation within the Earth from normal mode data. <i>Geophysical Journal International</i> , 2007, 104, 541-553.	1.0	161
8	Structure of the inner core inferred from observations of its spheroidal shear modes. <i>Geophysical Research Letters</i> , 1981, 8, 569-571.	1.5	141
9	Limits on differential rotation of the inner core from an analysis of the Earth's free oscillations. <i>Nature</i> , 1999, 402, 66-69.	13.7	131
10	Gross thermodynamics of two-component core convection. <i>Geophysical Journal International</i> , 2004, 157, 1407-1414.	1.0	131
11	Can the Earth's dynamo run on heat alone?. <i>Geophysical Journal International</i> , 2003, 155, 609-622.	1.0	128
12	Lower-mantle structure from ScS differential travel times. <i>Nature</i> , 1991, 352, 231-233.	13.7	124
13	Observations of anomalous splitting and their interpretation in terms of aspherical structure. <i>Journal of Geophysical Research</i> , 1986, 91, 10203-10228.	3.3	122
14	Inner Core Attenuation From Short-Period P <sub>kp</sub> (Bc) Versus P <sub>kp</sub> (Df) Waveforms. <i>Geophysical Journal International</i> , 1993, 114, 1-11.	1.0	104
15	Travel times of P and S from the global digital seismic networks: Implications for the relative variation of P and S velocity in the mantle. <i>Journal of Geophysical Research</i> , 2001, 106, 13527-13540.	3.3	100
16	Observably split multiplets-data analysis and interpretation in terms of large-scale aspherical structure. <i>Geophysical Journal International</i> , 1992, 111, 559-576.	1.0	98
17	Global lateral variations of shear wave attenuation in the upper mantle. <i>Journal of Geophysical Research</i> , 1996, 101, 22273-22289.	3.3	90
18	Observations of coupled spheroidal and toroidal modes. <i>Journal of Geophysical Research</i> , 1983, 88, 10285-10298.	3.3	89

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19	Constraining aspherical structure with low-degree interaction coefficients: Application to uncoupled multiplets. <i>Journal of Geophysical Research</i> , 1988, 93, 6369-6396.	3.3	86
20	Aspherical structure constraints from free oscillation frequency and attenuation measurements. <i>Journal of Geophysical Research</i> , 1989, 94, 1953-1976.	3.3	77
21	A thermochemical boundary layer at the base of Earth's outer core and independent estimate of core heat flux. <i>Geophysical Journal International</i> , 2008, 174, 1007-1018.	1.0	61
22	Matrix autoregressive analysis of free-oscillation coupling and splitting. <i>Geophysical Journal International</i> , 2000, 143, 478-489.	1.0	51
23	A comprehensive dispersion model of surface wave phase and group velocity for the globe. <i>Geophysical Journal International</i> , 2014, 199, 113-135.	1.0	44
24	Ahrens receives the Hess Medal. <i>Eos</i> , 1997, 78, 319.	0.1	42
25	Upper mantle structure from long-period differential traveltimes and free oscillation data. <i>Geophysical Journal International</i> , 1992, 109, 275-293.	1.0	39
26	Observation of low-order toroidal modes from the 1989 Macquarie Rise event. <i>Geophysical Journal International</i> , 1992, 111, 226-236.	1.0	35
27	Autoregressive estimation of the splitting matrix of free-oscillation multiplets. <i>Geophysical Journal International</i> , 2000, 141, 25-42.	1.0	34
28	The Earth's free oscillations and the differential rotation of the inner core. <i>Geodynamic Series</i> , 2003, , 5-21.	0.1	30
29	Mapping attenuation beneath North America using waveform cross-correlation and cluster analysis. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	26
30	The effect of Coriolis coupling of free oscillation multiplets on the determination of aspherical Earth structure. <i>Geophysical Research Letters</i> , 1989, 16, 263-266.	1.5	15
31	Two-dimensional global Rayleigh wave attenuation model by accounting for finite-frequency focusing and defocusing effect. <i>Geophysical Journal International</i> , 2016, 204, 631-649.	1.0	15
32	Calibration and data quality of the long-period SRO/ASRO networks, 1977 to 1980. <i>Bulletin of the Seismological Society of America</i> , 1989, 79, 1972-1983.	1.1	10
33	Effect of earthquake locations on Rayleigh wave azimuthal anisotropy models. <i>Geophysical Journal International</i> , 2015, 203, 1319-1333.	1.0	8
34	Low frequency seismology and three-dimensional structure – observational aspects. <i>Modern Approaches in Geophysics</i> , 1988, , 1-30.	0.1	8
35	Estimation of splitting functions from Earth's normal mode spectra using the neighbourhood algorithm. <i>Geophysical Journal International</i> , 2016, 204, 111-126.	1.0	7
36	Tracking slabs in the lower mantle. <i>Nature</i> , 1997, 386, 558-558.	13.7	2

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37	Weidner receives 2011 Inge Lehmann Medal: Citation. Eos, 2012, 93, 24-24.	0.1	0