Brian Kennett

List of Publications by Citations

347 papers	16,940 citations	62 h-index	120 g-index
381 ext. papers	18,718 ext. citations	3.5 avg, IF	6.89 L-index

#	Paper	IF	Citations
347	Traveltimes for global earthquake location and phase identification. *Geophysical Journal International*, **1991**, 105, 429-465	2.6	2573
346	Constraints on seismic velocities in the Earth from traveltimes. *Geophysical Journal International*, **1995**, 122, 108-124	2.6	2284
345	Seismic waves in a stratified half space. *Geophysical Journal International*, **1979**, 57, 557-583	2.6	414
344	How to reconcile body-wave and normal-mode reference earth models. *Geophysical Journal International*, **1996**, 125, 229-248	2.6	350
343	Full seismic waveform tomography for upper-mantle structure in the Australasian region using adjoint methods. *Geophysical Journal International*, **2009**, 179, 1703-1725	2.6	275
342	Global azimuthal seismic anisotropy and the unique plate-motion deformation of Australia. *Nature*, **2005**, 433, 509-12	50.4	232
341	Joint seismic tomography for bulk sound and shear wave speed in the Earth's mantle. *Journal of Geophysical Research*, **1998**, 103, 12469-12493		199
340	Reflections, rays, and reverberations. *Bulletin of the Seismological Society of America*, **1974**, 64, 1685-1696	2.3	182
339	Subspace methods for large inverse problems with multiple parameter classes. *Geophysical Journal International*, **1988**, 94, 237-247	2.6	180
338	Theoretical background for continental- and global-scale full-waveform inversion in the time-frequency domain. *Geophysical Journal International*, **2008**, 175, 665-685	2.6	170
337	The Australian continental upper mantle: Structure and deformation inferred from surface waves. *Journal of Geophysical Research*, **2000**, 105, 25423-25450		153
336	Multi-component autoregressive techniques for the analysis of seismograms. *Physics of the Earth and Planetary Interiors*, **1999**, 113, 247-263	2.3	152
335	Full waveform tomography for radially anisotropic structure: New insights into present and past states of the Australasian upper mantle. *Earth and Planetary Science Letters*, **2010**, 290, 270-280	5.3	145
334	Genetic algorithm inversion for receiver functions with application to crust and uppermost mantle structure beneath eastern Australia. *Geophysical Research Letters*, **1996**, 23, 1829-1832	4.9	141
333	Structure of the East Pacific Rise from an Ocean Bottom Seismometer Survey. *Geophysical Journal International*, **1976**, 45, 305-320	2.6	134
332	Anisotropy in the Australasian upper mantle from Love and Rayleigh waveform inversion. *Earth and Planetary Science Letters*, **2000**, 184, 339-351	5.3	133
331	Contrasts in lithospheric structure within the Australian craton—Insights from surface wave tomography. *Earth and Planetary Science Letters*, **2005**, 231, 163-176	5.3	132

330	A low seismic wavespeed anomaly beneath northwestern India: a seismic signature of the Deccan plume?. *Earth and Planetary Science Letters*, **1999**, 165, 145-155	5.3	131
329	Determination of the influence zone for surface wave paths. *Geophysical Journal International*, **2002**, 149, 440-453	2.6	128
328	The Removal of Free Surface Interactions From Three-Component Seismograms. *Geophysical Journal International*, **1991**, 104, 153-154	2.6	128
327	Geophysical evidence for 'thick-skinned' crustal deformation in central Australia. *Nature*, **1989**, 337, 325-330	36.4	124
326	Joint bulk-sound and shear tomography for Western Pacific subduction zones. *Earth and Planetary Science Letters*, **2003**, 210, 527-543	5.3	117
325	Ambient seismic noise tomography of Australian continent. *Tectonophysics*, **2010**, 481, 116-125	3.1	114
324	Guided wave propagation in laterally varying media -- I. Theoretical development. *Geophysical Journal International*, **1984**, 79, 235-255	2.6	113
323	The crustal thickness of Australia. *Journal of Geophysical Research*, **2000**, 105, 13697-13713		110
322	Subduction zone guided waves and the heterogeneity structure of the subducted plate: Intensity anomalies in northern Japan. *Journal of Geophysical Research*, **2005**, 110,		109
321	Rapid estimation of relative and absolute delay times across a network by adaptive stacking. *Geophysical Journal International*, **2004**, 157, 332-340	2.6	109
320	Crustal architecture of the Capricorn Orogen, Western Australia and associated metallogeny. *Australian Journal of Earth Sciences*, **2013**, 60, 681-705	1.4	105
319	Steps in lithospheric thickness within eastern Australia, evidence from surface wave tomography. *Tectonics*, **2008**, 27, n/a-n/a	4.3	100
318	Multimode surface wave tomography for the Australian region using a three-stage approach incorporating finite frequency effects. *Journal of Geophysical Research*, **2004**, 109,		97
317	A review of the 2011 Tohoku-Oki earthquake (Mw 9.0): Large-scale rupture across heterogeneous plate coupling. *Tectonophysics*, **2013**, 586, 15-34	3.1	95
316	Project Skippy explores lithosphere and mantle beneath Australia. *Eos*, **1994**, 75, 177	1.5	95
315	A novel method of hypocentre location. *Geophysical Journal International*, **1986**, 87, 679-697	2.6	94
314	AusMoho: the variation of Moho depth in Australia. *Geophysical Journal International*, **2011**, 187, 946-958	2.6	93
313	Seismic tomography with P and S data reveals lateral variations in the rigidity of deep slabs. *Earth and Planetary Science Letters*, **1999**, 173, 91-100	5.3	91

312	Seismic wavefield calculation for laterally heterogeneous whole earth models using the pseudospectral method. *Geophysical Journal International*, **1998**, 135, 845-860	2.6	87
311	Lithospheric structure of Tasmania from a novel form of teleseismic tomography. *Journal of Geophysical Research*, **2006**, 111, n/a-n/a		86
310	Ellipticity corrections for seismic phases. *Geophysical Journal International*, **1996**, 127, 40-48	2.6	86
309	Errors in hypocenter location: Picking, model, and magnitude dependence. *Bulletin of the Seismological Society of America*, **1994**, 84, 1978-1990	2.3	84
308	Non-linear waveform inversion for surface waves with a neighbourhood algorithm-application to multimode dispersion measurements. *Geophysical Journal International*, **2002**, 149, 118-133	2.6	78
307	The crustal structure of the Reykjanes Ridge at 59□30'N. *Geophysical Journal International*, **1980**, 61, 141-166		78
306	The Seismic Wavefield **2001**,		73
305	Spatial and temporal evolution of the subducting Pacific plate structure along the western Pacific margin. *Journal of Geophysical Research*, **2006**, 111, n/a-n/a		72
304	Seismic waves in a stratified half space -- II. Theoretical seismograms. *Geophysical Journal International*, **1980**, 61, 1-10	2.6	72
303	Variations in crustal structure across the transition from West to East Antarctica, Southern Victoria Land. *Geophysical Journal International*, **2003**, 155, 870-880	2.6	69
302	Hypocentre location: genetic algorithms incorporating problem-specific information. *Geophysical Journal International*, **1994**, 118, 693-706	2.6	69
301	A slab in depth: Three-dimensional geometry and evolution of the Indo-Australian plate. *Geochemistry, Geophysics, Geosystems*, **2007**, 8, n/a-n/a	3.6	68
300	A low velocity zone underlying a fast-spreading rise crest. *Nature*, **1975**, 256, 475-476	50.4	68
299	Crustal structure of Australia from ambient seismic noise tomography. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		67
298	On the density distribution within the Earth. *Geophysical Journal International*, **1998**, 132, 374-382	2.6	67
297	Seismic Waves in Laterally Inhomogeneous Media. *Geophysical Journal International*, **1972**, 27, 301-325	2.6	67
296	The Moho in Australia and New Zealand. *Tectonophysics*, **2013**, 609, 288-298	3.1	66
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291	Australian Seismological Reference Model (AuSREM): mantle component. *Geophysical Journal International*, **2013**, 192, 871-887	2.6	64
290	On the nature of regional seismic phases-III. The influence of crustal heterogeneity on the wavefield for subduction earthquakes: the 1985 Michoacan and 1995 Copala, Guerrero, Mexico earthquakes. *Geophysical Journal International*, **1998**, 135, 1060-1084	2.6	64
289	Improving global shear wave traveltime tomography usingthree-dimensional ray tracing and iterative inversion. *Geophysical Journal International*, **2000**, 141, 747-758	2.6	64
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286	Probability of radial anisotropy in the deep mantle. *Earth and Planetary Science Letters*, **2008**, 270, 241-250	5.3	62
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254	Probabilistic surface reconstruction from multiple data sets: An example for the Australian Moho. *Journal of Geophysical Research*, **2012**, 117,		45
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