J Michael Kendall

List of Publications by Citations

226 papers	7,323 citations	46 h-index	72 g-index
268 ext. papers	8,456 ext. citations	5.5 avg, IF	6.19 L-index

#	Paper	IF	Citations
226	Magma-assisted rifting in Ethiopia. *Nature*, **2005**, 433, 146-8	50.4	263
225	Constraints from seismic anisotropy on the nature of the lowermost mantle. *Nature*, **1996**, 381, 409-412	50.4	247
224	Automation of Shear-Wave Splitting Measurements using Cluster Analysis. *Bulletin of the Seismological Society of America*, **2004**, 94, 453-463	2.3	184
223	Efficacy of the post-perovskite phase as an explanation for lowermost-mantle seismic properties. *Nature*, **2005**, 438, 1004-7	50.4	175
222	Upper-mantle seismic structure in a region of incipient continental breakup: northern Ethiopian rift. *Geophysical Journal International*, **2005**, 162, 479-493	2.6	150
221	Comparison of geomechanical deformation induced by megatonne-scale CO2 storage at Sleipner, Weyburn, and In Salah. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, E2762-71	11.5	137
220	Mid-mantle deformation inferred from seismic anisotropy. *Nature*, **2002**, 415, 777-80	50.4	135
219	The effect of temperature on the seismic anisotropy of the perovskite and post-perovskite polymorphs of MgSiO3. *Earth and Planetary Science Letters*, **2005**, 230, 1-10	5.3	129
218	The nature of the crust beneath the Afar triple junction: Evidence from receiver functions. *Geochemistry, Geophysics, Geosystems*, **2011**, 12, n/a-n/a	3.6	114
217	Organized melt, seismic anisotropy, and plate boundary lubrication. *Geochemistry, Geophysics, Geosystems*, **2010**, 11, n/a-n/a	3.6	108
216	Teleseismic imaging of subaxial flow at mid-ocean ridges: traveltime effects of anisotropic mineral texture in the mantle. *Geophysical Journal International*, **1996**, 127, 415-426	2.6	105
215	Lattice preferred orientation and seismic anisotropy in sedimentary rocks. *Geophysical Journal International*, **2006**, 166, 652-666	2.6	97
214	Seismic anisotropy in the upper mantle 2. Predictions for current plate boundary flow models. *Geochemistry, Geophysics, Geosystems*, **2002**, 3, 1 of 26-26 of 26	3.6	97
213	Testing the ability of surface arrays to monitor microseismic activity. *Geophysical Prospecting*, **2010**, 58, 821-830	1.9	96
212	Fracture characterization at Valhall: Application of P-wave amplitude variation with offset and azimuth (AVOA) analysis to a 3D ocean-bottom data set. *Geophysics*, **2003**, 68, 1150-1160	3.1	92
211	Linking microseismic event observations with geomechanical models to minimise the risks of storing CO2 in geological formations. *Earth and Planetary Science Letters*, **2011**, 305, 143-152	5.3	89
210	Precambrian crustal evolution: Seismic constraints from the Canadian Shield. *Earth and Planetary Science Letters*, **2010**, 297, 655-666	5.3	89

209	Melt-induced seismic anisotropy and magma assisted rifting in Ethiopia: Evidence from surface waves. *Geochemistry, Geophysics, Geosystems*, **2010**, 11, n/a-n/a	3.6	87
208	UK public perceptions of shale gas hydraulic fracturing: The role of audience, message and contextual factors on risk perceptions and policy support. *Applied Energy*, **2015**, 160, 419-430	10.7	86
207	Teleseismic arrivals at a mid-ocean ridge: Effects of mantle melt and anisotropy. *Geophysical Research Letters*, **1994**, 21, 301-304	4.9	86
206	Lowermost mantle anisotropy beneath the north Pacific from differentialS-ScSsplitting. *Geophysical Journal International*, **2005**, 161, 829-838	2.6	85
205	Volcanism in the Afar Rift sustained by decompression melting with minimal plume influence. *Nature Geoscience*, **2012**, 5, 406-409	18.3	81
204	Sensitivity of teleseismic body waves to mineral texture and melt in the mantle beneath a mid□ocean ridge. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **1997**, 355, 217-231	3	80
203	Lower-mantle seismic discontinuities and the thermal morphology of subducted slabs. *Earth and Planetary Science Letters*, **2004**, 225, 105-113	5.3	79
202	Stress-induced temporal variations in seismic anisotropy observed in microseismic data. *Geophysical Journal International*, **2004**, 156, 459-466	2.6	78
201	A strategy for automated analysis of passive microseismic data to image seismic anisotropy and fracture characteristics. *Geophysical Prospecting*, **2010**, 58, 755-773	1.9	73
200	Deformation of the lowermost mantle from seismic anisotropy. *Nature*, **2010**, 467, 1091-4	50.4	67
199	Seismic anisotropy of the upper mantle 1. Factors that affect mineral texture and effective elastic properties. *Geochemistry, Geophysics, Geosystems*, **2002**, 3, 1-24	3.6	67
198	New advances in using seismic anisotropy, mineral physics and geodynamics to understand deformation in the lowermost mantle. *Journal of Geodynamics*, **2011**, 52, 205-228	2.2	66
197	Geophysical Monitoring of Moisture-Induced Landslides: A Review. *Reviews of Geophysics*, **2019**, 57, 106-145	13.1	66
196	Mantle upwelling and initiation of rift segmentation beneath the Afar Depression. *Geology*, **2013**, 41, 635-638	5	63
195	Insights into rifting from shear wave splitting and receiver functions: an example from Ethiopia. *Geophysical Journal International*, **2004**, 157, 354-362	2.6	63
194	The effect of microstructure and nonlinear stress on anisotropic seismic velocities. *Geophysics*, **2008**, 73, D41-D51	3.1	62
193	Lateral variations in D? below the Caribbean. *Geophysical Research Letters*, **1996**, 23, 399-402	4.9	60
192	The microseismic response at the In Salah Carbon Capture and Storage (CCS) site. *International Journal of Greenhouse Gas Control*, **2015**, 32, 159-171	4.2	58

191	Constraints on lowermost mantle mineralogy and fabric beneath Siberia from seismic anisotropy. *Earth and Planetary Science Letters*, **2008**, 275, 32-42	5.3	57
190	Mantle upwellings, melt migration and the rifting of Africa: insights from seismic anisotropy. *Geological Society Special Publication*, **2006**, 259, 55-72	1.7	55
189	Mapping the evolving strain field during continental breakup from crustal anisotropy in the Afar Depression. *Nature Communications*, **2011**, 2, 285	17.4	54
188	Seismic imaging of a hot upwelling beneath the British Isles. *Geology*, **2005**, 33, 345	5	54
187	A comment on the form of the geometrical spreading equations, with some numerical examples of seismic ray tracing in inhomogeneous, anisotropic media. *Geophysical Journal International*, **1989**, 99, 401-413	2.6	53
186	The lowermost mantle beneath northern Asia-II. Evidence for lower-mantle anisotropy. *Geophysical Journal International*, **2002**, 151, 296-308	2.6	50
185	Shear wave splitting observations in the Archean Craton of western Superior. *Geophysical Research Letters*, **1999**, 26, 2669-2672	4.9	50
184	Elastic anisotropy of D? predicted from global models of mantle flow. *Geochemistry, Geophysics, Geosystems*, **2011**, 12, n/a-n/a	3.6	49
183	Some comments on the effects of lower-mantle anisotropy on SKS and SKKS phases. *Physics of the Earth and Planetary Interiors*, **2004**, 146, 469-481	2.3	47
182	Estimating anisotropy parameters and traveltimes in the □p domain. *Geophysics*, **2002**, 67, 1076-1086	3.1	47
181	Seismicity associated with magmatism, faulting and hydrothermal circulation at Aluto Volcano, Main Ethiopian Rift. *Journal of Volcanology and Geothermal Research*, **2017**, 340, 52-67	2.8	46
180	Differentiating flow, melt, or fossil seismic anisotropy beneath Ethiopia. *Geochemistry, Geophysics, Geosystems*, **2014**, 15, 1878-1894	3.6	46
179	Imaging fractures and sedimentary fabrics using shear wave splitting measurements made on passive seismic data. *Geophysical Journal International*, **2009**, 179, 1245-1254	2.6	45
178	Crack density tensor inversion for analysis of changes in rock frame architecture. *Geophysical Journal International*, **2008**, 173, 577-592	2.6	45
177	The 1998 Valhall microseismic data set: An integrated study of relocated sources, seismic multiplets, and S-wave splitting. *Geophysics*, **2009**, 74, B183-B195	3.1	44
176	Seismic tomographic images of the cratonic upper mantle beneath the Western Superior Province of the Canadian Shield□ remnant Archean slab?. *Physics of the Earth and Planetary Interiors*, **2002**, 134, 53-69	2.3	44
175	Passive seismic monitoring of carbon dioxide storage at Weyburn. *The Leading Edge*, **2010**, 29, 200-206	1	42
174	Numerical simulations of depth-dependent anisotropy and frequency-dependent wave propagation effects. *Journal of Geophysical Research*, **1999**, 104, 23141-23153		42

173	Deformation and mantle flow beneath the Sangihe subduction zone from seismic anisotropy. *Physics of the Earth and Planetary Interiors*, **2012**, 194-195, 38-54	2.3	41
172	Precambrian plate tectonics: Seismic evidence from northern Hudson Bay, Canada. *Geology*, **2011**, 39, 91-94	5	41
171	Sub-slab mantle flow parallel to the Caribbean plate boundaries: Inferences from SKS splitting. *Tectonophysics*, **2008**, 462, 22-34	3.1	41
170	Multiple mantle upwellings in the transition zone beneath the northern East-African Rift system from relative P-wave travel-time tomography. *Geochemistry, Geophysics, Geosystems*, **2015**, 16, 2949-2968	3.6	40
169	First recorded eruption of Nabro volcano, Eritrea, 2011. *Bulletin of Volcanology*, **2015**, 77, 85	2.4	40
168	Crustal structure beneath Hudson Bay from ambient-noise tomography: implications for basin formation. *Geophysical Journal International*, **2011**, 184, 65-82	2.6	40
167	AutomatedSKSsplitting and upper-mantle anisotropy beneath Canadian seismic stations. *Geophysical Journal International*, **2006**, 165, 931-942	2.6	39
166	Mid-mantle anisotropy in subduction zones and deep water transport. *Geochemistry, Geophysics, Geosystems*, **2015**, 16, 764-784	3.6	38
165	Reservoir stress path characterization and its implications for fluid-flow production simulations. *Petroleum Geoscience*, **2011**, 17, 335-344	1.9	38
164	Ray-theory Green's function reciprocity and ray-centred coordinates in anisotropic media. *Geophysical Journal International*, **1992**, 108, 364-371	2.6	38
163	Detection of multiple fracture sets using observations of shear-wave splitting in microseismic data. *Geophysical Prospecting*, **2011**, 59, 593-608	1.9	37
162	Geophysical monitoring of the Weyburn CO2 flood: Results during 10 years of injection. *Energy Procedia*, **2011**, 4, 3628-3635	2.3	37
161	Seismic anisotropy and mantle structure of the Rae craton, central Canada, from joint interpretation of SKS splitting and receiver functions. *Precambrian Research*, **2013**, 232, 189-208	3.9	36
160	Anisotropic structure of the Hikurangi subduction zone, New Zealand-integrated interpretation of surface-wave andbody-wave observations. *Geophysical Journal International*, **1999**, 137, 214-230	2.6	36
159	Seismic anisotropy in the mantle beneath an oceanic spreading centre. *Nature*, **1993**, 366, 675-677	50.4	36
158	Ice fabric in an Antarctic ice stream interpreted from seismic anisotropy. *Geophysical Research Letters*, **2017**, 44, 3710-3718	4.9	35
157	The initiation of segmented buoyancy-driven melting during continental breakup. *Nature Communications*, **2016**, 7, 13110	17.4	35
156	Implications of a simple mantle transition zone beneath cratonic North America. *Earth and Planetary Science Letters*, **2011**, 312, 28-36	5.3	34

155	Water, oceanic fracture zones and the lubrication of subducting plate boundaries—Insights from seismicity. *Geophysical Journal International*, **2016**, 204, 1405-1420	2.6	33
154	Development of texture and seismic anisotropy during the onset of subduction. *Geochemistry, Geophysics, Geosystems*, **2014**, 15, 192-212	3.6	33
153	Exploring trends in microcrack properties of sedimentary rocks: An audit of dry-core velocity-stress measurements. *Geophysics*, **2009**, 74, E193-E203	3.1	33
152	Maslov Ray Summation, Pseudo-Caustics, Lagrangian Equivalence and Transient Seismic Waveforms. *Geophysical Journal International*, **1993**, 113, 186-214	2.6	33
151	Experimentally simulating adiabatic conditions: Approximating high rate polymer behavior using low rate experiments with temperature profiles. *Polymer*, **2013**, 54, 5058-5063	3.9	32
150	Hydrous upwelling across the mantle transition zone beneath the Afar Triple Junction. *Geochemistry, Geophysics, Geosystems*, **2015**, 16, 834-846	3.6	32
149	Modelling microseismicity of a producing reservoir from coupled fluid-flow and geomechanical simulation. *Geophysical Prospecting*, **2010**, 58, 901-914	1.9	32
148	A comparison of passive seismic monitoring of fracture stimulation from water and C O2 injection. *Geophysics*, **2010**, 75, MA1-MA7	3.1	32
147	Improving seismic resolution of outermost core structure by multichannel analysis and deconvolution of broadband SmKS phases. *Physics of the Earth and Planetary Interiors*, **2006**, 155, 104-119	2.3	32
146	Variable water input controls evolution of the Lesser Antilles volcanic arc. *Nature*, **2020**, 582, 525-529	50.4	31
145	The robustness of seismic moment and magnitudes estimated using spectral analysis. *Geophysical Prospecting*, **2014**, 62, 862-878	1.9	31
144	Evaluating post-perovskite as a cause of D?? anisotropy in regions of palaeosubduction. *Geophysical Journal International*, **2013**, 192, 1085-1090	2.6	29
143	Evidence for cross rift structural controls on deformation and seismicity at a continental rift caldera. *Earth and Planetary Science Letters*, **2018**, 487, 190-200	5.3	28
142	Locating microseismic events using borehole data. *Geophysical Prospecting*, **2014**, 62, 34-49	1.9	28
141	Seismicity and subsidence following the 2011 Nabro eruption, Eritrea: Insights into the plumbing system of an off-rift volcano. *Journal of Geophysical Research: Solid Earth*, **2014**, 119, 8267-8282	3.6	27
140	Historical Volcanism and the State of Stress in the East African Rift System. *Frontiers in Earth Science*, **2016**, 4,	3.5	27
139	Mantle flow in regions of complex tectonics: Insights from Indonesia. *Geochemistry, Geophysics, Geosystems*, **2012**, 13,	3.6	26
138	Deformation in Rutford Ice Stream, West Antarctica: measuring shear-wave anisotropy from icequakes. *Annals of Glaciology*, **2013**, 54, 105-114	2.5	26

137	Probing two low-velocity regions withPKPb-caustic amplitudes and scattering. *Geophysical Journal International*, **2009**, 178, 503-512	2.6	26
136	Seismic Modelling of Subduction Zones With Inhomogeneity and Anisotropy-I. TeleseismicP-Wavefront Tracking. *Geophysical Journal International*, **1993**, 112, 39-66	2.6	26
135	The meaning of net zero and how to get it right. *Nature Climate Change*, **2022**, 12, 15-21	21.4	26
134	Local Earthquake Magnitude Scale andb-Value for the Danakil Region of Northern Afar. *Bulletin of the Seismological Society of America*, **2017**, 107, 521-531	2.3	25
133	Integrated hydro-mechanical and seismic modelling of the Valhall reservoir: A case study of predicting subsidence, AVOA and microseismicity. *Geomechanics for Energy and the Environment*, **2015**, 2, 32-44	3.7	25
132	Fracture characterization using frequency-dependent shear wave anisotropy analysis of microseismic data. *Geophysical Journal International*, **2011**, 185, 1059-1070	2.6	25
131	Attenuation anisotropy and the relative frequency content of split shear waves. *Geophysical Journal International*, **2006**, 165, 865-874	2.6	25
130	Frequency-dependent seismic anisotropy due to fractures: Fluid flow versus scattering. *Geophysics*, **2013**, 78, WA111-WA122	3.1	24
129	Lateral variation in crustal structure along the Lesser Antilles arc from petrology of crustal xenoliths and seismic receiver functions. *Earth and Planetary Science Letters*, **2019**, 516, 12-24	5.3	23
128	Monitoring increases in fracture connectivity during hydraulic stimulations from temporal variations in shear wave splitting polarization. *Geophysical Journal International*, **2013**, 195, 1120-1131	2.6	23
127	Seismic Anisotropy of Post-Perovskite and the Lowermost Mantle. *Geophysical Monograph Series*, **2007**, 171-189	1.1	23
126	Seismic anisotropy and mantle flow below subducting slabs. *Earth and Planetary Science Letters*, **2017**, 465, 155-167	5.3	22
125	Seismicity During Continental Breakup in the Red Sea Rift of Northern Afar. *Journal of Geophysical Research: Solid Earth*, **2018**, 123, 2345-2362	3.6	22
124	Mantle anisotropy beneath the Earth's mid-ocean ridges. *Earth and Planetary Science Letters*, **2012**, 317-318, 56-67	5.3	22
123	Signal Extraction and Automated Polarization Analysis of Multicomponent Array Data. *Bulletin of the Seismological Society of America*, **2006**, 96, 2415-2430	2.3	22
122	Local Magnitude Discrepancies for Near-Event Receivers: Implications for the U.K. Traffic-Light Scheme. *Bulletin of the Seismological Society of America*, **2017**, 107, 532-541	2.3	21
121	Microseismicity: Beyond dots in a box Introduction. *Geophysics*, **2011**, 76, WC1-WC3	3.1	21
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119	Geometrical theory of shear-wave splitting: corrections to ray theory for interference in isotropic/anisotropic transitions. *Geophysical Journal International*, **1992**, 108, 339-363	2.6	21
118	Constraining Recent Ice Flow History at Korff Ice Rise, West Antarctica, Using Radar and Seismic Measurements of Ice Fabric. *Journal of Geophysical Research F: Earth Surface*, **2019**, 124, 175-194	3.8	20
117	Surface wave tomography across Afar, Ethiopia: Crustal structure at a rift triple-junction zone. *Geophysical Research Letters*, **2011**, 38, n/a-n/a	4.9	20
116	In situ monitoring of rock fracturing using shear wave splitting analysis: an example from a mining setting. *Geophysical Journal International*, **2011**, 187, 848-860	2.6	20
115	On the structure of the lowermost mantle beneath the southwest Pacific, southeast Asia and Australasia. *Physics of the Earth and Planetary Interiors*, **1995**, 92, 85-98	2.3	20
114	Shear wave anisotropy in northwestern South America and its link to the Caribbean and Nazca subduction geodynamics. *Geochemistry, Geophysics, Geosystems*, **2016**, 17, 3655-3673	3.6	19
113	The lowermost mantle beneath northern Asia-I. Multi-azimuth studies of a D? heterogeneity. *Geophysical Journal International*, **2002**, 151, 279-295	2.6	19
112	Petrofabric-derived seismic properties of a mylonitic quartz simple shear zone: implications for seismic reflection profiling. *Geological Society Special Publication*, **2005**, 240, 75-94	1.7	19
111	Application of machine learning to microseismic event detection in distributed acoustic sensing data. *Geophysics*, **2020**, 85, KS149-KS160	3.1	18
110	Assessing the potential to use repeated ambient noise seismic tomography to detect CO2 leaks: Application to the Aquistore storage site. *International Journal of Greenhouse Gas Control*, **2018**, 71, 20-35	4.2	18
109	Seismic anisotropy in a hydrocarbon field estimated from microseismic data. *Geophysical Prospecting*, **2011**, 59, 227-243	1.9	18
108	A practical implementation of wave front construction for 3-D isotropic media. *Geophysical Journal International*, **2008**, 173, 1030-1038	2.6	18
107	Traveltime and conversion-point computations and parameter estimation in layered, anisotropic media by □transform. *Geophysics*, **2003**, 68, 210-224	3.1	18
106	Seismic evidence for flow in the hydrated mantle wedge of the Ryukyu subduction zone. *Scientific Reports*, **2016**, 6, 29981	4.9	18
105	Sediment Characterization at the Equatorial Mid-Atlantic Ridge From P-to-S Teleseismic Phase Conversions Recorded on the PI-LAB Experiment. *Geophysical Research Letters*, **2018**, 45, 12244-12252	4.9	18
104	The Hudson Bay Lithospheric Experiment (HuBLE): insights into Precambrian plate tectonics and the development of mantle keels. *Geological Society Special Publication*, **2015**, 389, 41-67	1.7	17
103	Sustained Uplift at a Continental Rift Caldera. *Journal of Geophysical Research: Solid Earth*, **2018**, 123, 5209-5226	3.6	17
102	Influence of convergent plate boundaries on upper mantle flow and implications for seismic anisotropy. *Geochemistry, Geophysics, Geosystems*, **2007**, 8, n/a-n/a	3.6	17

101	Stress Transfer From Opening Hydraulic Fractures Controls the Distribution of Induced Seismicity. *Journal of Geophysical Research: Solid Earth*, **2020**, 125, e2019JB018794	3.6	17
100	Why is Africa rifting?. *Geological Society Special Publication*, **2016**, 420, 11-30	1.7	17
99	Small-scale thermal upwellings under the northern East African Rift from S travel time tomography. *Journal of Geophysical Research: Solid Earth*, **2016**, 121, 7395-7408	3.6	17
98	Inferring rock fracture evolution during reservoir stimulation from seismic anisotropy. *Geophysics*, **2011**, 76, WC157-WC166	3.1	16
97	Back-propagating supershear rupture in the 2016 Mw 7.1 Romanche transform fault earthquake. *Nature Geoscience*, **2020**, 13, 647-653	18.3	16
96	Evolution of the Oceanic Lithosphere in the Equatorial Atlantic From Rayleigh Wave Tomography, Evidence for Small-Scale Convection From the PI-LAB Experiment. *Geochemistry, Geophysics, Geosystems*, **2020**, 21, e2020GC009174	3.6	16
95	Imaging Lithospheric Discontinuities Beneath the Northern East African Rift Using -to- Receiver Functions. *Geochemistry, Geophysics, Geosystems*, **2018**, 19, 4048-4062	3.6	16
94	Gaps, tears and seismic anisotropy around the subducting slabs of the Antilles. *Tectonophysics*, **2017**, 698, 65-78	3.1	15
93	Local seismicity near the actively deforming Corbetti volcano in the Main Ethiopian Rift. *Journal of Volcanology and Geothermal Research*, **2019**, 381, 227-237	2.8	15
92	Constraints on melt distribution from seismology: a case study in Ethiopia. *Geological Society Special Publication*, **2016**, 420, 127-147	1.7	15
91	Improved microseismic event location by inclusion of a priori dip particle motion: a case study from Ekofisk. *Geophysical Prospecting*, **2010**, 58, 727-737	1.9	15
90	Fracture mapping using seismic amplitude variation with offset and azimuth analysis at the Weyburn CO2 storage site. *Geophysics*, **2012**, 77, B295-B306	3.1	15
89	Investigation of induced microseismicity at Valhall using the Life of Field Seismic array. *The Leading Edge*, **2010**, 29, 290-295	1	15
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87	Predicting the seismic implications of salt anisotropy using numerical simulations of halite deformation. *Geophysics*, **2000**, 65, 1272-1280	3.1	15
86	Real-Time Imaging, Forecasting, and Management of Human-Induced Seismicity at Preston New Road, Lancashire, England. *Seismological Research Letters*, **2019**,	3	15
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84	Low-frequency earthquakes beneath Tullu Moye volcano, Ethiopia, reveal fluid pulses from shallow magma chamber. *Earth and Planetary Science Letters*, **2019**, 526, 115782	5.3	14

83	A uniformly processed data set of SKS shear wave splitting measurements: A global investigation of upper mantle anisotropy beneath seismic stations. *Geochemistry, Geophysics, Geosystems*, **2014**, 15, 1991-2010	3.6	14
82	The extent of continental crust beneath the Seychelles. *Earth and Planetary Science Letters*, **2013**, 381, 166-176	5.3	14
81	Magmatism on rift flanks: Insights from ambient noise phase velocity in Afar region. *Geophysical Research Letters*, **2015**, 42, 2179-2188	4.9	14
80	Transtensional deformation of Montserrat revealed by shear wave splitting. *Earth and Planetary Science Letters*, **2015**, 425, 179-186	5.3	14
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78	From crystal to crustal: petrofabric-derived seismic modelling of regional tectonics. *Geological Society Special Publication*, **2011**, 360, 49-78	1.7	14
77	Stratigraphy of the Archean western Superior Province from P- and S-wave receiver functions: Further evidence for tectonic accretion?. *Physics of the Earth and Planetary Interiors*, **2009**, 177, 206-216	2.3	14
76	Investigating the heterogeneity of the D? region beneath the northern Pacific using a seismic array. *Journal of Geophysical Research*, **2002**, 107, ESE 3-1-ESE 3-7		14
75	Marine Geophysical Investigation of the Chain Fracture Zone in the Equatorial Atlantic From the PI-LAB Experiment. *Journal of Geophysical Research: Solid Earth*, **2018**, 123, 11016-11030	3.6	14
74	Characterising hydrothermal fluid pathways beneath Aluto volcano, Main Ethiopian Rift, using shear wave splitting. *Journal of Volcanology and Geothermal Research*, **2018**, 356, 331-341	2.8	13
73	Subsurface fluid injection and induced seismicity in southeast Saskatchewan. *International Journal of Greenhouse Gas Control*, **2016**, 54, 429-440	4.2	13
72	The Role of Texture, Cracks, and Fractures in Highly Anisotropic Shales. *Journal of Geophysical Research: Solid Earth*, **2017**, 122, 10,341-10,351	3.6	13
71	Large-Scale Fracture Systems Are Permeable Pathways for Fault Activation During Hydraulic Fracturing. *Journal of Geophysical Research: Solid Earth*, **2021**, 126, e2020JB020311	3.6	13
70	Seismicity of the Bora-Tullu Moye Volcanic Field, 2016–2017. *Geochemistry, Geophysics, Geosystems*, **2019**, 20, 548-570	3.6	13
69	Probabilistic Seismic-Hazard Assessment for Eritrea. *Bulletin of the Seismological Society of America*, **2017**, 107, 1478-1494	2.3	12
68	Landslide monitoring using seismic refraction tomography – The importance of incorporating topographic variations. *Engineering Geology*, **2020**, 268, 105525	6	12
67	Wide-Angle Seismic Imaging of Two Modes of Crustal Accretion in Mature Atlantic Ocean Crust. *Journal of Geophysical Research: Solid Earth*, **2020**, 125, e2019JB019100	3.6	12
66	Extension and stress during continental breakup: Seismic anisotropy of the crust in Northern Afar. *Earth and Planetary Science Letters*, **2017**, 477, 41-51	5.3	12

65	The 24th January 2016 Hawassa earthquake: Implications for seismic hazard in the Main Ethiopian Rift. *Journal of African Earth Sciences*, **2017**, 125, 118-125	2.2	12
64	An examination of the continuous wavelet transform for volcano-seismic spectral analysis. *Journal of Volcanology and Geothermal Research*, **2020**, 389, 106728	2.8	12
63	Seasonal patterns of seismicity and deformation at the Alutu geothermal reservoir, Ethiopia, induced by hydrological loading. *Journal of Volcanology and Geothermal Research*, **2018**, 356, 175-182	2.8	11
62	A dynamic lithosphere–asthenosphere boundary near the equatorial Mid-Atlantic Ridge. *Earth and Planetary Science Letters*, **2021**, 566, 116949	5.3	11
61	A thin mantle transition zone beneath the equatorial Mid-Atlantic Ridge. *Nature*, **2021**, 589, 562-566	50.4	11
60	Crustal anisotropy and state of stress at Uturuncu Volcano, Bolivia, from shear-wave splitting measurements and magnitude–frequency distributions in seismicity. *Earth and Planetary Science Letters*, **2018**, 495, 38-49	5.3	11
59	Seismic Magnitudes, Corner Frequencies, and Microseismicity: Using Ambient Noise to Correct for High-Frequency Attenuation. *Bulletin of the Seismological Society of America*, **2020**, 110, 1260-1275	2.3	10
58	Plume scar in the mantle lithosphere beneath the Seychelles revealed by seismic imaging. *Earth and Planetary Science Letters*, **2012**, 355-356, 20-31	5.3	10
57	Seismic characterization of fracture compliance in the field usingP- andS-wave sources. *Geophysical Journal International*, **2015**, 203, 1726-1737	2.6	9
56	Assessing the Effect of Velocity Model Accuracy on Microseismic Interpretation at the In Salah Carbon Capture and Storage Site. *Energy Procedia*, **2014**, 63, 4385-4393	2.3	9
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54	Seismicity induced by longwall coal mining at the Thoresby Colliery, Nottinghamshire, U.K.. *Geophysical Journal International*, **2018**, 212, 942-954	2.6	8
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