

Alan G Jones

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212
papers

9,585
citations

49
h-index

89
g-index

223
ext. papers

10,571
ext. citations

4.3
avg, IF

6.1
L-index

#	Paper	IF	Citations
212	Partially Molten Middle Crust Beneath Southern Tibet: Synthesis of Project INDEPTH Results. <i>Science</i> , 1996 , 274, 1684-8	33.3	914
211	Crustal rheology of the Himalaya and Southern Tibet inferred from magnetotelluric data. <i>Nature</i> , 2005 , 438, 78-81	50.4	337
210	Detection of widespread fluids in the Tibetan crust by magnetotelluric studies. <i>Science</i> , 2001 , 292, 716-9	33.3	336
209	The elusive lithosphere–asthenosphere boundary (LAB) beneath cratons. <i>Lithos</i> , 2009 , 109, 1-22	2.9	311
208	Multisite, multifrequency tensor decomposition of magnetotelluric data. <i>Geophysics</i> , 2001 , 66, 158-173	3.1	297
207	Static shift of magnetotelluric data and its removal in a sedimentary basin environment. <i>Geophysics</i> , 1988 , 53, 967-978	3.1	262
206	The Magnetotelluric Method: Theory and Practice 2012 ,		228
205	Partial melt or aqueous fluid in the mid-crust of Southern Tibet? Constraints from INDEPTH magnetotelluric data. <i>Geophysical Journal International</i> , 2003 , 153, 289-304	2.6	181
204	Imaging the continental upper mantle using electromagnetic methods. <i>Lithos</i> , 1999 , 48, 57-80	2.9	170
203	Electrically Conductive Crust in Southern Tibet from INDEPTH Magnetotelluric Surveying. <i>Science</i> , 1996 , 274, 1694-6	33.3	167
202	A comparison of techniques for magnetotelluric response function estimation. <i>Journal of Geophysical Research</i> , 1989 , 94, 14201-14213		145
201	Resistivity cross section through the Juan de Fuca Subduction System and its tectonic implications. <i>Journal of Geophysical Research</i> , 1989 , 94, 14127-14144		139
200	Conductivity discontinuities in the upper mantle beneath a stable craton. <i>Geophysical Research Letters</i> , 1993 , 20, 2941-2944	4.9	133
199	MT and reflection: an essential combination. <i>Geophysical Journal International</i> , 1987 , 89, 7-18	2.6	127
198	Crustal structure and rheology of the Longmenshan and Wenchuan Mw 7.9 earthquake epicentral area from magnetotelluric data. <i>Geology</i> , 2012 , 40, 1139-1142	5	124
197	Crustal and upper mantle structure of northern Tibet imaged with magnetotelluric data. <i>Journal of Geophysical Research</i> , 2004 , 109,		120
196	The problem of current channelling: A critical review. <i>Geophysical Surveys</i> , 1983 , 6, 79-122		117

195	The electrical structure of the Slave craton. <i>Lithos</i> , 2003 , 71, 505-527	2.9	116
194	Lithosphere development in the Slave craton: a linked crustal and mantle perspective. <i>Lithos</i> , 2003 , 71, 575-589	2.9	106
193	TOPO-EUROPE: The geoscience of coupled deep Earth-surface processes. <i>Global and Planetary Change</i> , 2007 , 58, 1-118	4.2	102
192	Two-dimensional interpretation of three-dimensional magnetotelluric data: an example of limitations and resolution. <i>Geophysical Journal International</i> , 2002 , 150, 127-139	2.6	101
191	Precise temperature estimation in the Tibetan crust from seismic detection of the quartz transition. <i>Geology</i> , 2004 , 32, 601	5	94
190	Electric lithosphere of the Slave craton. <i>Geology</i> , 2001 , 29, 423	5	94
189	3-D multiobservable probabilistic inversion for the compositional and thermal structure of the lithosphere and upper mantle. I: a priori petrological information and geophysical observables. <i>Journal of Geophysical Research: Solid Earth</i> , 2013 , 118, 2586-2617	3.6	90
188	Penetration of crustal melt beyond the Kunlun Fault into northern Tibet. <i>Nature Geoscience</i> , 2012 , 5, 330-335	18.3	81
187	Strike-angle determination from the magnetotelluric impedance tensor in the presence of noise and local distortion: rotate at your peril!. <i>Geophysical Journal International</i> , 1993 , 113, 524-534	2.6	77
186	Velocity-conductivity relationships for mantle mineral assemblages in Archean cratonic lithosphere based on a review of laboratory data and Hashin-Shtrikman extremal bounds. <i>Lithos</i> , 2009 , 109, 131-143	2.9	75
185	How the crust meets the mantle: Lithoprobe perspectives on the Mohorovičić discontinuity and crust-mantle transition This article is one of a series of papers published in this Special Issue on the theme Lithoprobe Parameters, processes, and the evolution of a continent.. <i>Canadian Journal of Earth Sciences</i> , 2010 , 47, 315-351	1.5	74
184	Lithospheric structure, evolution and diamond prospectivity of the Rehoboth Terrane and western Kaapvaal Craton, southern Africa: Constraints from broadband magnetotellurics. <i>Lithos</i> , 2009 , 112, 93-105	2.9	74
183	Europe from the bottom up: A statistical examination of the central and northern European lithosphere-asthenosphere boundary from comparing seismological and electromagnetic observations. <i>Lithos</i> , 2010 , 120, 14-29	2.9	72
182	Electrical lithosphere beneath the Kaapvaal craton, southern Africa. <i>Journal of Geophysical Research</i> , 2011 , 116,		67
181	Electromagnetic images of modern and ancient subduction zones. <i>Tectonophysics</i> , 1993 , 219, 29-45	3.1	66
180	On the electrical crust-mantle structure in Fennoscandia: no Moho, and the asthenosphere revealed?. <i>Geophysical Journal International</i> , 1982 , 68, 371-388	2.6	65
179	Atmospheric sources for audio-magnetotelluric (AMT) sounding. <i>Geophysics</i> , 2002 , 67, 448-458	3.1	63
178	A quantitative methodology to extract regional magnetotelluric impedances and determine the dimension of the conductivity structure. <i>Geophysical Journal International</i> , 1993 , 115, 1095-1118	2.6	63

177	Electromagnetic images of the Trans-Hudson orogen: the North American Central Plains anomaly revealed. <i>Canadian Journal of Earth Sciences</i> , 2005 , 42, 457-478	1.5	62
176	The electric Moho. <i>Nature</i> , 2001 , 409, 331-3	50.4	62
175	3-D multi-observable probabilistic inversion for the compositional and thermal structure of the lithosphere and upper mantle. II: General methodology and resolution analysis. <i>Journal of Geophysical Research: Solid Earth</i> , 2013 , 118, 1650-1676	3.6	60
174	The Longest Conductivity Anomaly in the World Explained: Sulphides in Fold Hinges Causing Very High Electrical Anisotropy. <i>Journal of Geomagnetism and Geoelectricity</i> , 1997 , 49, 1619-1629		59
173	Water in cratonic lithosphere: Calibrating laboratory-determined models of electrical conductivity of mantle minerals using geophysical and petrological observations. <i>Geochemistry, Geophysics, Geosystems</i> , 2012 , 13, n/a-n/a	3.6	58
172	Electrical conductivity of continental lithospheric mantle from integrated geophysical and petrological modeling: Application to the Kaapvaal Craton and Rehoboth Terrane, southern Africa. <i>Journal of Geophysical Research</i> , 2011 , 116,		57
171	Magnetotelluric observations across the Juan de Fuca Subduction System in the EMSLAB Project. <i>Journal of Geophysical Research</i> , 1989 , 94, 14111-14125		57
170	Joint inversion of receiver functions, surface wave dispersion, and magnetotelluric data. <i>Journal of Geophysical Research</i> , 2010 , 115,		56
169	Magnetotelluric 3-D inversion—review of two successful workshops on forward and inversion code testing and comparison. <i>Geophysical Journal International</i> , 2013 , 193, 1216-1238	2.6	55
168	Area selection for diamonds using magnetotellurics: Examples from southern Africa. <i>Lithos</i> , 2009 , 112, 83-92	2.9	51
167	The North American Central Plains conductivity anomaly and its correlation with gravity, magnetic, seismic, and heat flow data in Saskatchewan, Canada. <i>Physics of the Earth and Planetary Interiors</i> , 1990 , 60, 169-194	2.3	51
166	Lithospheric structures and Precambrian terrane boundaries in northeastern Botswana revealed through magnetotelluric profiling as part of the Southern African Magnetotelluric Experiment. <i>Journal of Geophysical Research</i> , 2011 , 116,		50
165	Coincident conductive and reflective middle and lower crust in southern British Columbia. <i>Geophysical Journal International</i> , 1995 , 120, 111-131	2.6	50
164	Robust processing of magnetotelluric data in the AMT dead band using the continuous wavelet transform. <i>Geophysics</i> , 2008 , 73, F223-F234	3.1	49
163	Electrical anisotropy of South African lithosphere compared with seismic anisotropy from shear-wave splitting analyses. <i>Physics of the Earth and Planetary Interiors</i> , 2006 , 158, 226-239	2.3	49
162	Electromagnetic constraints on strike-slip fault geometry—the Fraser River fault system. <i>Geology</i> , 1992 , 20, 561	5	49
161	Magnetotelluric transfer function estimation improvement by a coherence-based rejection technique 1984 ,		49
160	Magnetotelluric and teleseismic study across the Snowbird Tectonic Zone, Canadian Shield: A Neoproterozoic mantle suture?. <i>Geophysical Research Letters</i> , 2002 , 29, 10-1-10-4	4.9	48

159	Electromagnetic images of a volcanic zone. <i>Physics of the Earth and Planetary Interiors</i> , 1993 , 81, 289-314.	2.3	48
158	Upper mantle temperature determined from combining mineral composition, electrical conductivity laboratory studies and magnetotelluric field observations: Application to the intermontane belt, Northern Canadian Cordillera. <i>Earth and Planetary Science Letters</i> , 2005 , 236, 258-268	5.3	47
157	Electromagnetic interrogation of the anisotropic Earth: Looking into the Earth with polarized spectacles. <i>Physics of the Earth and Planetary Interiors</i> , 2006 , 158, 281-291	2.3	47
156	A multi-station magnetotelluric study in southern Scotland -- II. Monte-Carlo inversion of the data and its geophysical and tectonic implications. <i>Geophysical Journal International</i> , 1979 , 56, 351-368	2.6	47
155	3-D multiobservable probabilistic inversion for the compositional and thermal structure of the lithosphere and upper mantle: III. Thermochemical tomography in the Western-Central U.S.. <i>Journal of Geophysical Research: Solid Earth</i> , 2016 , 121, 7337-7370	3.6	47
154	Three-dimensional electrical structure of the crust and upper mantle in Ordos Block and adjacent area: Evidence of regional lithospheric modification. <i>Geochemistry, Geophysics, Geosystems</i> , 2014 , 15, 2414-2425	3.6	45
153	Lithospheric structure in the Baikal-Central Mongolia region from integrated geophysical-petrological inversion of surface-wave data and topographic elevation. <i>Geochemistry, Geophysics, Geosystems</i> , 2012 , 13, n/a-n/a	3.6	45
152	Lithospheric geometry of the Wopmay orogen from a Slave craton to Bear Province magnetotelluric transect. <i>Journal of Geophysical Research</i> , 2009 , 114,		44
151	Magnetotelluric observations along the lithoprobe southeastern Canadian Cordilleran Transect. <i>Geophysical Research Letters</i> , 1988 , 15, 677-680	4.9	44
150	Structure of the Central Altyn Tagh Fault revealed by magnetotelluric data: New insights into the structure of the northern margin of the India-Asia collision. <i>Earth and Planetary Science Letters</i> , 2015 , 415, 67-79	5.3	43
149	Joint inversion of teleseismic receiver functions and magnetotelluric data using a genetic algorithm: Are seismic velocities and electrical conductivities compatible?. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	43
148	North American Central Plains conductivity anomaly within the Trans-Hudson orogen in northern Saskatchewan, Canada. <i>Geology</i> , 1993 , 21, 1027	5	42
147	Observations of the electrical asthenosphere beneath Scandinavia. <i>Tectonophysics</i> , 1982 , 90, 37-55	3.1	42
146	Lithospheric anisotropy structure inferred from collocated teleseismic and magnetotelluric observations: Great Slave Lake shear zone, northern Canada. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	41
145	The COPROD2 Dataset: Tectonic Setting, Recorded MT Data, and Comparison of Models.. <i>Journal of Geomagnetism and Geoelectricity</i> , 1993 , 45, 933-955		41
144	Trans-Hudson orogen and Williston basin in Montana and North Dakota: New COCORP deep-profiling results. <i>Geology</i> , 1993 , 21, 447	5	40
143	Decomposition and Modelling of the BC87 Dataset.. <i>Journal of Geomagnetism and Geoelectricity</i> , 1993 , 45, 1127-1150		40
142	A multi-station magnetotelluric study in southern Scotland - I. Fieldwork, data analysis and results. <i>Geophysical Journal International</i> , 1979 , 56, 329-349	2.6	40

141	Compositional multivariate statistical analysis of thermal groundwater provenance: A hydrogeochemical case study from Ireland. <i>Applied Geochemistry</i> , 2016 , 75, 171-188	3.5	40
140	Crustal structure of the India-Asia collision zone, southern Tibet, from INDEPTH MT investigations. <i>Physics of the Earth and Planetary Interiors</i> , 2005 , 150, 227-237	2.3	39
139	The electrical resistivity structure of Archean to Tertiary lithosphere along 3200 km of SNORCLE profiles, northwestern Canada. <i>Canadian Journal of Earth Sciences</i> , 2005 , 42, 1257-1275	1.5	39
138	Waves of the future: Superior inferences from collocated seismic and electromagnetic experiments. <i>Tectonophysics</i> , 1998 , 286, 273-298	3.1	38
137	Lithospheric structure of the Yukon, northern Canadian Cordillera, obtained from magnetotelluric data. <i>Journal of Geophysical Research</i> , 2004 , 109,		36
136	Distortion of magnetotelluric data: its identification and removal 219-302		35
135	Geophysical transect across a Paleoproterozoic continent-continent collision zone: The Trans-Hudson Orogen. <i>Canadian Journal of Earth Sciences</i> , 2005 , 42, 385-402	1.5	35
134	Parkinson's pointers' potential perfidy!. <i>Geophysical Journal International</i> , 1986 , 87, 1215-1224	2.6	35
133	Electric and Magnetic Field Galvanic Distortion Decomposition of BC87 Data.. <i>Journal of Geomagnetism and Geoelectricity</i> , 1997 , 49, 767-789		34
132	North American Central Plains conductivity anomaly goes east. <i>Geophysical Research Letters</i> , 1986 , 13, 685-688	4.9	34
131	The electrical structure of the lithosphere and asthenosphere beneath the Fennoscandian shield.. <i>Journal of Geomagnetism and Geoelectricity</i> , 1983 , 35, 811-827		34
130	Extensional extrusion: Insights into south-eastward expansion of Tibetan Plateau from magnetotelluric array data. <i>Earth and Planetary Science Letters</i> , 2016 , 454, 78-85	5.3	33
129	Integrated geophysical-petrological modeling of lithosphere-asthenosphere boundary in central Tibet using electromagnetic and seismic data. <i>Geochemistry, Geophysics, Geosystems</i> , 2014 , 15, 3965-3988	3.6	33
128	Structure of the crust in the vicinity of the Banggong-Nujiang suture in central Tibet from INDEPTH magnetotelluric data. <i>Journal of Geophysical Research</i> , 2005 , 110,		33
127	Geomagnetically induced currents in the Irish power network during geomagnetic storms. <i>Space Weather</i> , 2016 , 14, 1136-1154	3.7	32
126	Tectonic evolution of the Superior Boundary Zone from coincident seismic reflection and magnetotelluric profiles. <i>Tectonics</i> , 1999 , 18, 430-451	4.3	32
125	Electromagnetic images of regional structure in the southern Canadian Cordillera. <i>Geophysical Research Letters</i> , 1992 , 19, 2373-2376	4.9	32
124	Tectonic model of the Limpopo belt: Constraints from magnetotelluric data. <i>Precambrian Research</i> , 2013 , 226, 143-156	3.9	31

123	Lithospheric structure of an Archean craton and adjacent mobile belt revealed from 2-D and 3-D inversion of magnetotelluric data: Example from southern Congo craton in northern Namibia. <i>Journal of Geophysical Research: Solid Earth</i> , 2013 , 118, 4378-4397	3.6	31
122	Okak Bay AMT data-set case study: Lessons in dimensionality and scale. <i>Geophysics</i> , 2003 , 68, 70-91	3.1	31
121	Crustal and lithospheric scale structures of the Precambrian Superior-Grenville margin. <i>Tectonophysics</i> , 2014 , 614, 146-169	3.1	29
120	Constraints on the evolution of crustal flow beneath Northern Tibet. <i>Geochemistry, Geophysics, Geosystems</i> , 2015 , 16, 4237-4260	3.6	29
119	Magnetotelluric response and geoelectric structure of the Great Slave Lake shear zone. <i>Earth and Planetary Science Letters</i> , 2002 , 196, 35-50	5.3	29
118	The lithosphere-sthenosphere system beneath Ireland from integrated geophysical-petrological modeling II: 3D thermal and compositional structure. <i>Lithos</i> , 2014 , 189, 49-64	2.9	28
117	Distortion decomposition of the magnetotelluric impedance tensors from a one-dimensional anisotropic Earth. <i>Geophysical Journal International</i> , 2012 , 189, 268-284	2.6	28
116	Joint inversion of long-period magnetotelluric data and surface-wave dispersion curves for anisotropic structure: Application to data from Central Germany. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	28
115	A simple method for deriving the uniform field MT responses in auroral zones. <i>Earth, Planets and Space</i> , 2002 , 54, 443-450	2.9	28
114	Imaging Precambrian lithospheric structure in Zambia using electromagnetic methods. <i>Gondwana Research</i> , 2018 , 54, 38-49	5.1	27
113	Electromagnetic images of a strike-slip fault: The Tintina fault-Northern Canadian. <i>Geophysical Research Letters</i> , 2002 , 29, 66-1-66-4	4.9	27
112	Calculations of voltages for magnetotelluric modelling of a region with near-surface inhomogeneities. <i>Physics of the Earth and Planetary Interiors</i> , 1989 , 53, 287-297	2.3	27
111	Joint inversions of three types of electromagnetic data explicitly constrained by seismic observations: results from the central Okavango Delta, Botswana. <i>Geophysical Journal International</i> , 2015 , 202, 1429-1452	2.6	26
110	Imaging and observing the electrical Moho. <i>Tectonophysics</i> , 2013 , 609, 423-436	3.1	26
109	Three-dimensional galvanic distortion of three-dimensional regional conductivity structures: Comment on Three-dimensional joint inversion for magnetotelluric resistivity and static shift distributions in complex media By Yutaka Sasaki and Max A. Meju. <i>Journal of Geophysical Research</i> , 2011 , 116,		26
108	Conductivity structure and rheological property of lithosphere in Southern Tibet inferred from super-broadband magnetotelluric sounding. <i>Science China Earth Sciences</i> , 2010 , 53, 189-202	4.6	26
107	Robust Processing of Magnetotelluric Data from the Auroral Zone. <i>Journal of Geomagnetism and Geoelectricity</i> , 1997 , 49, 1451-1468		26
106	A new methodology for the acquisition and processing of audio-magnetotelluric (AMT) data in the AMT dead band. <i>Geophysics</i> , 2005 , 70, G119-G126	3.1	26

105	Improving Bahr's invariant parameters using the WAL approach. <i>Geophysical Journal International</i> , 2005 , 163, 38-41	2.6	26
104	Electromagnetic images of crustal structures in southern and central Canadian Cordillera. <i>Canadian Journal of Earth Sciences</i> , 1995 , 32, 1541-1563	1.5	26
103	Velocity-conductivity relations for cratonic lithosphere and their application: Example of Southern Africa. <i>Geochemistry, Geophysics, Geosystems</i> , 2013 , 14, 806-827	3.6	25
102	The inability of magnetotelluric off-diagonal impedance tensor elements to sense oblique conductors in three-dimensional inversion. <i>Geophysical Journal International</i> , 2014 , 196, 1351-1364	2.6	25
101	Area selection for diamond exploration using deep-probing electromagnetic surveying. <i>Lithos</i> , 2004 , 77, 765-782	2.9	25
100	The magnetotelluric response function		23
99	Regional electrical resistivity structure of the southern Canadian Cordillera and its physical interpretation. <i>Journal of Geophysical Research</i> , 2001 , 106, 30755-30769		23
98	Deep electrical conductivity structures of the Appalachian Orogen in the southeastern U.S.. <i>Geophysical Research Letters</i> , 1996 , 23, 1597-1600	4.9	23
97	Central Baffin electromagnetic experiment (CBEX): Mapping the North American Central Plains (NACP) conductivity anomaly in the Canadian arctic. <i>Physics of the Earth and Planetary Interiors</i> , 2005 , 150, 107-122	2.3	22
96	Magnetotelluric investigations of the lithosphere beneath the central Rae craton, mainland Nunavut, Canada. <i>Journal of Geophysical Research: Solid Earth</i> , 2014 , 119, 2415-2439	3.6	21
95	Implications for the lithospheric geometry of the Iapetus suture beneath Ireland based on electrical resistivity models from deep-probing magnetotellurics. <i>Geophysical Journal International</i> , 2014 , 198, 737-759	2.6	21
94	Earth's electromagnetic environment		21
93	The geometry of the Iapetus Suture Zone in central Ireland deduced from a magnetotelluric study. <i>Physics of the Earth and Planetary Interiors</i> , 2007 , 161, 134-141	2.3	21
92	Spectral analyses of the KTB sonic and density logs using robust nonparametric methods. <i>Journal of Geophysical Research</i> , 1997 , 102, 18391-18403		20
91	The BC87 Dataset: Tectonic Setting, Previous EM Results, and Recorded MT Data.. <i>Journal of Geomagnetism and Geoelectricity</i> , 1993 , 45, 1089-1105		20
90	Seismic reflections and electrical conductivity: A case of Holmes's curious dog?. <i>Geology</i> , 1995 , 23, 141	5	20
89	Magnetotelluric array data analysis from north-west Fennoscandia. <i>Tectonophysics</i> , 2015 , 653, 1-19	3.1	19
88	Geoelectrical baseline model of the subsurface of the Hontomí site (Spain) for CO ₂ geological storage in a deep saline aquifer: A 3D magnetotelluric characterisation. <i>International Journal of Greenhouse Gas Control</i> , 2014 , 27, 120-138	4.2	19

87	The lithosphere–sthenosphere system beneath Ireland from integrated geophysical–petrological modeling II: Observations, 1D and 2D hypothesis testing and modeling. <i>Lithos</i> , 2014 , 189, 28-48	2.9	19
86	Geoelectric structure of the Proterozoic Wopmay Orogen and adjacent terranes, Northwest Territories, Canada. <i>Canadian Journal of Earth Sciences</i> , 2005 , 42, 955-981	1.5	19
85	Northward channel flow in northern Tibet revealed from 3D magnetotelluric modelling. <i>Physics of the Earth and Planetary Interiors</i> , 2014 , 235, 13-24	2.3	18
84	Compensation of the Meyer-Neldel Compensation Law for H diffusion in minerals. <i>Geochemistry, Geophysics, Geosystems</i> , 2014 , 15, 2616-2631	3.6	18
83	Reexamination of magnetotelluric responses and electrical anisotropy of the lithospheric mantle in the Grenville Province, Canada. <i>Journal of Geophysical Research: Solid Earth</i> , 2015 , 120, 1890-1908	3.6	18
82	The electrical resistivity of Canada's lithosphere and correlation with other parameters: contributions from Lithoprobe and other programmes. <i>Canadian Journal of Earth Sciences</i> , 2014 , 51, 573-617	1.5	18
81	Electromagnetic imaging of a complex ore body: 3D forward modeling, sensitivity tests, and down-mine measurements. <i>Geophysics</i> , 2007 , 72, F85-F95	3.1	18
80	Proton conduction and hydrogen diffusion in olivine: an attempt to reconcile laboratory and field observations and implications for the role of grain boundary diffusion in enhancing conductivity. <i>Physics and Chemistry of Minerals</i> , 2016 , 43, 237-265	1.6	17
79	Tectonic fabric of the subcontinental lithosphere: Evidence from seismic, magnetotelluric and mechanical anisotropy. <i>Physics of the Earth and Planetary Interiors</i> , 2006 , 158, 85-91	2.3	16
78	Are impact-generated lower-crustal faults observable?. <i>Earth and Planetary Science Letters</i> , 1987 , 85, 248-252	5.3	16
77	Logarithmic Fourier transformation. <i>Geophysical Journal International</i> , 1988 , 92, 171-178	2.6	16
76	A new methodology to estimate magnetotelluric (MT) tensor relationships: Estimation of Local transfer-functions by Combining Interstation Transfer-functions (ELICIT). <i>Geophysical Journal International</i> , 2014 , 198, 484-494	2.6	15
75	Instrumentation and field procedures421-479		15
74	Electrical signature of modern and ancient tectonic processes in the crust of the Atlas mountains of Morocco. <i>Physics of the Earth and Planetary Interiors</i> , 2011 , 185, 82-88	2.3	15
73	Geophysical evidence for crustal and mantle weak zones controlling intra-plate seismicity II: the 2017 Botswana earthquake sequence. <i>Earth and Planetary Science Letters</i> , 2019 , 506, 175-183	5.3	15
72	Reconciling different equations for proton conduction using the Meyer-Neldel compensation rule. <i>Geochemistry, Geophysics, Geosystems</i> , 2014 , 15, 337-349	3.6	14
71	Estimation of the magnetotelluric response function165-218		14
70	Conductivity Structure of Crust and Upper Mantle Beneath the Northern Tibetan Plateau: Results of Super-Wide Band Magnetotelluric Sounding. <i>Chinese Journal of Geophysics</i> , 2006 , 49, 1098-1110		14

69	Comment on Geomagnetic depth sounding by induction arrow representation: A review by G. P. Gregori and L. J. Lanzerotti. <i>Reviews of Geophysics</i> , 1981 , 19, 687	23.1	14
68	Imaging the mantle lithosphere of the Precambrian Grenville Province: large-scale electrical resistivity structures. <i>Geophysical Journal International</i> , 2015 , 201, 1040-1061	2.6	13
67	New geoelectrical characterization of a continental collision zone in the Central Iberian Pyrenees: Constraints from 3-D joint inversion of electromagnetic data. <i>Tectonophysics</i> , 2018 , 742-743, 168-179	3.1	13
66	Geochemical and geophysical constraints on the dynamic topography of the Southern African Plateau. <i>Geochemistry, Geophysics, Geosystems</i> , 2017 , 18, 3556-3575	3.6	13
65	Introduction to the magnetotelluric method 1-18		13
64	Artefacts of isotropic inversion applied to magnetotelluric data from an anisotropic Earth. <i>Geophysical Journal International</i> , 2011 , 187, 677-689	2.6	13
63	Geoelectric response and crustal electrical-conductivity structure of the Flin Flon Belt, Trans-Hudson Orogen, Canada. <i>Canadian Journal of Earth Sciences</i> , 1999 , 36, 1917-1938	1.5	13
62	The Eyjafjallajökull volcanic system, Iceland: insights from electromagnetic measurements. <i>Geophysical Journal International</i> , 2014 , 199, 1187-1204	2.6	12
61	Geoelectric structure of the northeastern Williston basin and underlying Precambrian lithosphere Earth Science Sector (ESS) Contribution 20080509.. <i>Canadian Journal of Earth Sciences</i> , 2009 , 46, 441-464	1.5	12
60	Introduction to Special Section: The KTB Deep Drill Hole. <i>Journal of Geophysical Research</i> , 1997 , 102, 18175-18177		12
59	Electromagnetic sounding and crustal electrical conductivity in the region of the Wopmay Orogen, Northwest Territories, Canada. <i>Canadian Journal of Earth Sciences</i> , 1989 , 26, 2385-2395	1.5	12
58	The advantages of complementing MT profiles in 3-D environments with geomagnetic transfer function and interstation horizontal magnetic transfer function data: results from a synthetic case study. <i>Geophysical Journal International</i> , 2016 , 207, 1818-1836	2.6	12
57	Understanding hydrothermal circulation patterns at a low-enthalpy thermal spring using audio-magnetotelluric data: A case study from Ireland. <i>Journal of Applied Geophysics</i> , 2016 , 132, 1-16	1.7	11
56	Internal structure of the western flank of the Cumbre Vieja volcano, La Palma, Canary Islands, from land magnetotelluric imaging. <i>Journal of Geophysical Research</i> , 2010 , 115,		11
55	Magnetotelluric inversion based on mutual information. <i>Geophysical Journal International</i> , 2014 , 199, 242-252	2.6	9
54	The inverse problem 347-420		9
53	Electrical conductivity structure of the Purcell Anticlinorium in southeast British Columbia and northwest Montana. <i>Canadian Journal of Earth Sciences</i> , 1995 , 32, 1564-1583	1.5	9
52	A magnetotelluric investigation under the Williston Basin of southeastern Saskatchewan: Discussion. <i>Canadian Journal of Earth Sciences</i> , 1988 , 25, 1132-1139	1.5	9

51	An objective real-time data-adaptive technique for efficient model resolution improvement in magnetotelluric studies. <i>Geophysics</i> , 1986 , 51, 90-97	3.1	9
50	Magnetotelluric Experiment probes deep physical state of southeastern United States. <i>Eos</i> , 1996 , 77, 329	1.5	8
49	Orthogonality in CSAMT and MT measurements. <i>Geophysics</i> , 1993 , 58, 924-934	3.1	8
48	Electrical resistivity structure of the Flathead Basin in southeastern British Columbia, Canada. <i>Canadian Journal of Earth Sciences</i> , 1990 , 27, 1061-1073	1.5	8
47	STATISTICAL EVALUATION OF MT AND AMT METHODS APPLIED TO A BASALT-COVERED AREA IN SOUTHEASTERN ANATOLIA, TURKEY*. <i>Geophysical Prospecting</i> , 1984 , 32, 706-724	1.9	8
46	Introduction to MT-DIW2 Special Issue.. <i>Journal of Geomagnetism and Geoelectricity</i> , 1997 , 49, 727-737		8
45	Structure of the Lithosphere Beneath the Barotse Basin, Western Zambia, From Magnetotelluric Data. <i>Tectonics</i> , 2019 , 38, 666-686	4.3	7
44	Shaping the Surface Deformation of Central and South Tibetan Plateau: Insights From Magnetotelluric Array Data. <i>Journal of Geophysical Research: Solid Earth</i> , 2020 , 125, e2019JB019206	3.6	7
43	Crustal structure of southern Burkina Faso inferred from magnetotelluric, gravity and magnetic data. <i>Precambrian Research</i> , 2017 , 300, 261-272	3.9	7
42	Electromagnetic image of the Trans-Hudson orogen ? THO94 transect. <i>Canadian Journal of Earth Sciences</i> , 2005 , 42, 479-493	1.5	7
41	The SlaveKaapvaal workshop: a tale of two cratons. <i>Lithos</i> , 2003 , 71, ix-xi	2.9	7
40	Chapter 13 Decomposition of three-dimensional magnetotelluric data. <i>Methods in Geochemistry and Geophysics</i> , 2002 , 235-250		7
39	A passive natural-source twin-purpose borehole technique: Vertical gradient magnetometry (VGM). <i>Journal of Geomagnetism and Geoelectricity</i> , 1983 , 35, 473-490		7
38	A novel anisotropic inversion approach for magnetotelluric data from subsurfaces with orthogonal geoelectric strike directions. <i>Geophysical Journal International</i> , 2013 , 195, 1576-1593	2.6	6
37	Features of faults in the central and northern Tibetan plateau based on results of INDEPTH (III)-MT. <i>Frontiers of Earth Science</i> , 2007 , 1, 121-128		6
36	Imaging the continental upper mantle using electromagnetic methods. <i>Developments in Geotectonics</i> , 1999 , 24, 57-80		6
35	A layer stripping approach for monitoring resistivity variations using surface magnetotelluric responses. <i>Journal of Applied Geophysics</i> , 2016 , 132, 100-115	1.7	6
34	Source field effects in the auroral zone: Evidence from the Slave craton (NW Canada). <i>Physics of the Earth and Planetary Interiors</i> , 2007 , 164, 21-35	2.3	5

33	Electrical-resistivity imaging of the central Trans-Hudson orogen. <i>Canadian Journal of Earth Sciences</i> , 2005 , 42, 495-515	1.5	5
32	Subsurface Characterization of the Pennsylvanian Clare Basin, Western Ireland, by Means of Joint Interpretation of Electromagnetic Geophysical Data and Well-Log Data. <i>Journal of Geophysical Research: Solid Earth</i> , 2019 , 124, 6200-6222	3.6	4
31	Tectonics of the northern Canadian Cordillera imaged using modern magnetotelluric analysis. <i>Tectonophysics</i> , 2019 , 765, 102-128	3.1	4
30	Correcting for static shift of magnetotelluric data with airborne electromagnetic measurements: a case study from Rathlin Basin, Northern Ireland. <i>Solid Earth</i> , 2017 , 8, 637-660	3.3	4
29	Structures and geometries of the Tajo Basin crust, Spain: Results of a magnetotelluric investigation compared to seismic and thermal models. <i>Tectonics</i> , 2014 , 33, 1710-1737	4.3	4
28	Robust magnetotelluric inversion. <i>Geophysical Journal International</i> , 2014 , 196, 1365-1374	2.6	4
27	An audio-magnetotelluric investigation of the Otjiwarongo and Katima Mulilo regions, Namibia. <i>Geophysics</i> , 2014 , 79, B151-B171	3.1	4
26	Comment on Deep resistivity cross section of the intraplate Atlas Mountains (NW Africa): New evidence of anomalous mantle and related Quaternary volcanism. <i>Tectonics</i> , 2012 , 31, n/a-n/a	4.3	4
25	Case histories and geological applications 480-544		4
24	Lithospheric geometry revealed by deep-probing magnetotelluric surveying, Melville Peninsula, Nunavut 2013 ,		4
23	Introduction to MT-DIWI Special Section. <i>Journal of Geomagnetism and Geoelectricity</i> , 1993 , 45, 931-932		4
22	Quantitative geothermal interpretation of electrical resistivity models of the Rathlin Basin, Northern Ireland. <i>Geothermics</i> , 2019 , 77, 175-187	4.3	4
21	3B. Description of the magnetospheric/ionospheric sources 96-121		3
20	Audio-magnetotellurics (AMT) for steeply-dipping mineral targets: importance of multi-component measurements at each site 2002 ,		3
19	EMAP data processing in the wavenumber domain 1989 ,		3
18	Multi-site, multi-frequency tensor decomposition of magnetotelluric data 1996 ,		3
17	POLARIS Update: Fall 2002. <i>Seismological Research Letters</i> , 2003 , 74, 41-43	3	2
16	A closer look at deep crustal reflections. <i>Eos</i> , 1991 , 72, 337-337	1.5	2

15	Electrical characteristics of rock samples from the La Ronge Domain of the Trans-Hudson Orogen, northern Saskatchewan 1996 ,		2
14	Central Baffin electromagnetic experiment (CBEX) 2002 ,		2
13	Central Baffin Electromagnetic Experiment (CBEX), Phase 2 2003 ,		2
12	Magnetotelluric soundings from the Central Rae Domain of the Churchill Province, Nunavut 2013 ,		2
11	Characterising thermal water circulation in fractured bedrock using a multidisciplinary approach: a case study of St. Gorman's Well, Ireland.. <i>Hydrogeology Journal</i> , 2021 , 29, 2595-2611	3.1	2
10	Interpretation of resistivity and magnetic anomalies from the Fox River Sill, Trans Hudson Orogen, Canada. <i>ASEG Extended Abstracts</i> , 2015 , 2015, 1-5	0.2	1
9	High-resolution electromagnetic images of conducting zones in an upthrust crustal block. <i>Geophysical Research Letters</i> , 1994 , 21, 1807-1810	4.9	1
8	The collective review papers presented at the 7th IAGA Workshop on Electromagnetic Induction in the Earth and Moon. <i>Surveys in Geophysics</i> , 1986 , 8, 235-238	7.6	1
7	A geothermal aquifer in the dilation zones on the southern margin of the Dublin Basin. <i>Geophysical Journal International</i> , 2020 , 220, 1717-1734	2.6	1
6	The nature of the southern West African craton lithosphere inferred from its electrical resistivity. <i>Precambrian Research</i> , 2021 , 358, 106190	3.9	1
5	A pioneering geophysicist: Rosemary Hutton. <i>Geological Society Special Publication</i> , 2021 , 506, 215-229	1.7	1
4	Deep conductivity anomaly of the Darling Fault Zone - implications for fluid transport in the Perth Basin. <i>ASEG Extended Abstracts</i> , 2015 , 2015, 1-4	0.2	0
3	Multi-stage evolution of the Ordos lithosphere from stochastic inversion of elevation, geoid, surface heat flow, Rayleigh wave dispersion data and magnetotelluric data. <i>Acta Geologica Sinica</i> , 2019 , 93, 101-101	0.7	
2	Lithospheric magnetotelluric imaging in Canada: significance to diamond exploration. <i>ASEG Extended Abstracts</i> , 2004 , 2004, 1-4	0.2	
1	Beyond chi-squared: Additional measures of the closeness of a model to data1. <i>ASEG Extended Abstracts</i> , 2019 , 2019, 1-6	0.2	