

Alan G Jones

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4062836/publications.pdf>

Version: 2024-02-01

212
papers

11,796
citations

28190

55
h-index

34900

98
g-index

223
all docs

223
docs citations

223
times ranked

4075
citing authors

#	ARTICLE	IF	CITATIONS
1	Partially Molten Middle Crust Beneath Southern Tibet: Synthesis of Project INDEPTH Results. <i>Science</i> , 1996, 274, 1684-1688.	6.0	1,063
2	Crustal rheology of the Himalaya and Southern Tibet inferred from magnetotelluric data. <i>Nature</i> , 2005, 438, 78-81.	13.7	422
3	Detection of Widespread Fluids in the Tibetan Crust by Magnetotelluric Studies. <i>Science</i> , 2001, 292, 716-719.	6.0	405
4	The elusive lithosphere-asthenosphere boundary (LAB) beneath cratons. <i>Lithos</i> , 2009, 109, 1-22.	0.6	365
5	Multisite, multifrequency tensor decomposition of magnetotelluric data. <i>Geophysics</i> , 2001, 66, 158-173.	1.4	363
6	The Magnetotelluric Method. , 2012, , .		354
7	Static shift of magnetotelluric data and its removal in a sedimentary basin environment. <i>Geophysics</i> , 1988, 53, 967-978.	1.4	310
8	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.	1.0	222
9	A comparison of techniques for magnetotelluric response function estimation. <i>Journal of Geophysical Research</i> , 1989, 94, 14201-14213.	3.3	201
10	Imaging the continental upper mantle using electromagnetic methods. <i>Lithos</i> , 1999, 48, 57-80.	0.6	193
11	Electrically Conductive Crust in Southern Tibet from INDEPTH Magnetotelluric Surveying. <i>Science</i> , 1996, 274, 1694-1696.	6.0	186
12	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.	2.0	170
13	Resistivity cross section through the Juan de Fuca Subduction System and its tectonic implications. <i>Journal of Geophysical Research</i> , 1989, 94, 14127-14144.	3.3	166
14	Conductivity discontinuities in the upper mantle beneath a stable craton. <i>Geophysical Research Letters</i> , 1993, 20, 2941-2944.	1.5	162
15	Crustal and upper mantle structure of northern Tibet imaged with magnetotelluric data. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	144
16	MT and reflection: an essential combination. <i>Geophysical Journal International</i> , 1987, 89, 7-18.	1.0	140
17	The problem of current channelling: A critical review. <i>Geophysical Surveys</i> , 1983, 6, 79-122.	0.3	139
18	TOPO-EUROPE: The geoscience of coupled deep Earth-surface processes. <i>Global and Planetary Change</i> , 2007, 58, 1-118.	1.6	137

#	ARTICLE	IF	CITATIONS
19	The electrical structure of the Slave craton. <i>Lithos</i> , 2003, 71, 505-527.	0.6	133
20	Electric lithosphere of the Slave craton. <i>Geology</i> , 2001, 29, 423.	2.0	124
21	3D multiobservable probabilistic inversion for the compositional and thermal structure of the lithosphere and upper mantle. I: <i>a priori</i> petrological information and geophysical observables. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 2586-2617.	1.4	121
22	Two-dimensional interpretation of three-dimensional magnetotelluric data: an example of limitations and resolution. <i>Geophysical Journal International</i> , 2002, 150, 127-139.	1.0	118
23	Lithosphere development in the Slave craton: a linked crustal and mantle perspective. <i>Lithos</i> , 2003, 71, 575-589.	0.6	115
24	Precise temperature estimation in the Tibetan crust from seismic detection of the $\hat{I}\pm\hat{I}^2$ quartz transition. <i>Geology</i> , 2004, 32, 601.	2.0	109
25	Penetration of crustal melt beyond the Kunlun Fault into northern Tibet. <i>Nature Geoscience</i> , 2012, 5, 330-335.	5.4	94
26	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.	1.0	92
27	How the crust meets the mantle: Lithoprobe perspectives on the MohoroviÄÄ discontinuity and crustâmantle transition This article is one of a series of papers published in this Special Issue on the theme <i>Lithoprobe</i> parameters, processes, and the evolution of a continent.. <i>Canadian Journal of Earth Sciences</i> , 2010, 47, 315-351.	0.6	91
28	Velocityâconductivity relationships for mantle mineral assemblages in Archean cratonic lithosphere based on a review of laboratory data and HashinâShtrikman extremal bounds. <i>Lithos</i> , 2009, 109, 131-143.	0.6	89
29	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.	0.6	87
30	Atmospheric sources for audio-magnetotelluric (AMT) sounding. <i>Geophysics</i> , 2002, 67, 448-458.	1.4	85
31	Electrical lithosphere beneath the Kaapvaal craton, southern Africa. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	85
32	Europe from the bottom up: A statistical examination of the central and northern European lithosphereâasthenosphere boundary from comparing seismological and electromagnetic observations. <i>Lithos</i> , 2010, 120, 14-29.	0.6	84
33	On the electrical crustâmantle structure in Fennoscandia: no Moho, and the asthenosphere revealed?. <i>Geophysical Journal International</i> , 1982, 68, 371-388.	1.0	83
34	Electromagnetic images of modern and ancient subduction zones. <i>Tectonophysics</i> , 1993, 219, 29-45.	0.9	83
35	Magnetotelluric 3-D inversionâa review of two successful workshops on forward and inversion code testing and comparison. <i>Geophysical Journal International</i> , 2013, 193, 1216-1238.	1.0	79
36	3D multiobservable 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.	1.4	78

#	ARTICLE	IF	CITATIONS
37	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.	0.6	76
38	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.	0.8	73
39	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.	1.0	72
40	The electric Moho. <i>Nature</i> , 2001, 409, 331-333.	13.7	72
41	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.	0.7	71
42	Joint inversion of receiver functions, surface wave dispersion, and magnetotelluric data. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	70
43	Magnetotelluric observations across the Juan de Fuca Subduction System in the EMSLAB Project. <i>Journal of Geophysical Research</i> , 1989, 94, 14111-14125.	3.3	68
44	Robust processing of magnetotelluric data in the AMT dead band using the continuous wavelet transform. <i>Geophysics</i> , 2008, 73, F223-F234.	1.4	67
45	3D 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.	1.4	67
46	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, .	3.3	66
47	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.	1.0	66
48	Magnetotelluric transfer function estimation improvement by a coherence-based rejection technique. , 1984, , .		65
49	Area selection for diamonds using magnetotellurics: Examples from southern Africa. <i>Lithos</i> , 2009, 112, 83-92.	0.6	65
50	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, .	3.3	64
51	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.	1.0	63
52	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, .	1.0	63
53	The COPROD2 Dataset: Tectonic Setting, Recorded MT Data, and Comparison of Models.. <i>Journal of Geomagnetism and Geoelectricity</i> , 1993, 45, 933-955.	0.8	60
54	Coincident conductive and reflective middle and lower crust in southern British Columbia. <i>Geophysical Journal International</i> , 1995, 120, 111-131.	1.0	59

#	ARTICLE	IF	CITATIONS
55	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.	1.5	59
56	Compositional multivariate statistical analysis of thermal groundwater provenance: A hydrogeochemical case study from Ireland. <i>Applied Geochemistry</i> , 2016, 75, 171-188.	1.4	59
57	Magnetotelluric observations along the lithoprobe southeastern Canadian Cordilleran Transect. <i>Geophysical Research Letters</i> , 1988, 15, 677-680.	1.5	56
58	Electromagnetic images of a volcanic zone. <i>Physics of the Earth and Planetary Interiors</i> , 1993, 81, 289-314.	0.7	56
59	North American Central Plains conductivity anomaly goes east. <i>Geophysical Research Letters</i> , 1986, 13, 685-688.	1.5	55
60	Decomposition and Modelling of the BC87 Dataset.. <i>Journal of Geomagnetism and Geoelectricity</i> , 1993, 45, 1127-1150.	0.8	55
61	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.	0.7	55
62	Lithospheric geometry of the Wopmay orogen from a Slave craton to Bear Province magnetotelluric transect. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	55
63	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, .	1.5	54
64	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.	1.8	54
65	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.	0.7	53
66	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, .	1.0	53
67	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.	1.8	52
68	Electromagnetic constraints on strike-slip fault geometry-The Fraser River fault system. <i>Geology</i> , 1992, 20, 561.	2.0	51
69	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.	1.8	51
70	Distortion of magnetotelluric data: its identification and removal. , 2012, , 219-302.		51
71	A multi-station magnetotelluric study in southern Scotland - I. Fieldwork, data analysis and results. <i>Geophysical Journal International</i> , 1979, 56, 329-349.	1.0	49
72	Trans-Hudson orogen and Williston basin in Montana and North Dakota: New COCORP deep-profiling results. <i>Geology</i> , 1993, 21, 447.	2.0	49

#	ARTICLE	IF	CITATIONS
73	Lithospheric structure of an Archean craton and adjacent mobile belt revealed from 2â€œ and 3â€œ inversion of magnetotelluric data: Example from southern Congo craton in northern Namibia. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 4378-4397.	1.4	49
74	Geomagnetically induced currents in the Irish power network during geomagnetic storms. <i>Space Weather</i> , 2016, 14, 1136-1154.	1.3	48
75	North American Central Plains conductivity anomaly within the Trans-Hudson orogen in northern Saskatchewan, Canada. <i>Geology</i> , 1993, 21, 1027.	2.0	47
76	Lithospheric anisotropy structure inferred from collocated teleseismic and magnetotelluric observations: Great Slave Lake shear zone, northern Canada. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	46
77	Observations of the electrical asthenosphere beneath Scandinavia. <i>Tectonophysics</i> , 1982, 90, 37-55.	0.9	44
78	Lithospheric structure of the Yukon, northern Canadian Cordillera, obtained from magnetotelluric data. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	43
79	Parkinson's pointers' potential perfidy!. <i>Geophysical Journal International</i> , 1986, 87, 1215-1224.	1.0	42
80	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.	0.6	42
81	Crustal structure of the Indiaâ€œAsia collision zone, southern Tibet, from INDEPTH MT investigations. <i>Physics of the Earth and Planetary Interiors</i> , 2005, 150, 227-237.	0.7	41
82	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, .	3.3	41
83	Imaging Precambrian lithospheric structure in Zambia using electromagnetic methods. <i>Gondwana Research</i> , 2018, 54, 38-49.	3.0	41
84	Waves of the future: Superior inferences from collocated seismic and electromagnetic experiments. <i>Tectonophysics</i> , 1998, 286, 273-298.	0.9	40
85	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.	1.0	40
86	Constraints on the evolution of crustal flow beneath <sc>N</sc>orthern <sc>T</sc>ibet. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 4237-4260.	1.0	40
87	Electromagnetic images of regional structure in the southern Canadian Cordillera. <i>Geophysical Research Letters</i> , 1992, 19, 2373-2376.	1.5	39
88	Tectonic model of the Limpopo belt: Constraints from magnetotelluric data. <i>Precambrian Research</i> , 2013, 226, 143-156.	1.2	39
89	A simple method for deriving the uniform field MT responses in auroral zones. <i>Earth, Planets and Space</i> , 2002, 54, 443-450.	0.9	38
90	Geophysical transect across a Paleoproterozoic continentâ€œcontinent collision zone: The Trans-Hudson Orogen. <i>Canadian Journal of Earth Sciences</i> , 2005, 42, 385-402.	0.6	38

#	ARTICLE	IF	CITATIONS
91	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.	1.5	38
92	Electric and Magnetic Field Galvanic Distortion Decomposition of BC87 Data.. <i>Journal of Geomagnetism and Geoelectricity</i> , 1997, 49, 767-789.	0.8	37
93	Imaging and observing the electrical Moho. <i>Tectonophysics</i> , 2013, 609, 423-436.	0.9	37
94	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.	1.0	37
95	Tectonic evolution of the Superior Boundary Zone from coincident seismic reflection and magnetotelluric profiles. <i>Tectonics</i> , 1999, 18, 430-451.	1.3	35
96	Magnetotelluric response and geoelectric structure of the Great Slave Lake shear zone. <i>Earth and Planetary Science Letters</i> , 2002, 196, 35-50.	1.8	35
97	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.	2.3	35
98	Distortion decomposition of the magnetotelluric impedance tensors from a one-dimensional anisotropic Earth. <i>Geophysical Journal International</i> , 2012, 189, 268-284.	1.0	35
99	Okak Bay AMT dataâ€set case study: Lessons in dimensionality and scale. <i>Geophysics</i> , 2003, 68, 70-91.	1.4	34
100	Improving Bahr's invariant parameters using the WAL approach. <i>Geophysical Journal International</i> , 2005, 163, 38-41.	1.0	34
101	The electrical structure of the lithosphere and asthenosphere beneath the Fennoscandian shield.. <i>Journal of Geomagnetism and Geoelectricity</i> , 1983, 35, 811-827.	0.8	34
102	Crustal and lithospheric scale structures of the Precambrian Superiorâ€Grenville margin. <i>Tectonophysics</i> , 2014, 614, 146-169.	0.9	33
103	Area selection for diamond exploration using deep-probing electromagnetic surveying. <i>Lithos</i> , 2004, 77, 765-782.	0.6	32
104	Three-dimensional galvanic distortion of three-dimensional regional conductivity structures: Comment on â€Three-dimensional joint inversion for magnetotelluric resistivity and static shift distributions in complex mediaâ€by Yutaka Sasaki and Max A. Meju. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	32
105	Velocityâ€conductivity relations for cratonic lithosphere and their application: Example of Southern Africa. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 806-827.	1.0	31
106	The lithosphereâ€asthenosphere system beneath Ireland from integrated geophysicalâ€petrological modeling II: 3D thermal and compositional structure. <i>Lithos</i> , 2014, 189, 49-64.	0.6	31
107	Robust Processing of Magnetotelluric Data from the Auroral Zone. <i>Journal of Geomagnetism and Geoelectricity</i> , 1997, 49, 1451-1468.	0.8	30
108	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.	1.4	30

#	ARTICLE	IF	CITATIONS
109	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.	0.7	29
110	Electromagnetic images of crustal structures in southern and central Canadian Cordillera. <i>Canadian Journal of Earth Sciences</i> , 1995, 32, 1541-1563.	0.6	29
111	Electromagnetic images of a strike-slip fault: The Tintina fault-Northern Canadian. <i>Geophysical Research Letters</i> , 2002, 29, 66-1-66-4.	1.5	28
112	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.	1.0	28
113	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.	1.4	28
114	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.	1.0	28
115	The BC87 Dataset: Tectonic Setting, Previous EM Results, and Recorded MT Data.. <i>Journal of Geomagnetism and Geoelectricity</i> , 1993, 45, 1089-1105.	0.8	27
116	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.	1.4	27
117	The magnetotelluric response function. , 2012, , 122-164.		26
118	Magnetotelluric array data analysis from north-west Fennoscandia. <i>Tectonophysics</i> , 2015, 653, 1-19.	0.9	26
119	Geophysical evidence for crustal and mantle weak zones controlling intra-plate seismicity â€” the 2017 Botswana earthquake sequence. <i>Earth and Planetary Science Letters</i> , 2019, 506, 175-183.	1.8	26
120	Deep electrical conductivity structures of the Appalachian Orogen in the southeastern U.S.. <i>Geophysical Research Letters</i> , 1996, 23, 1597-1600.	1.5	25
121	Regional electrical resistivity structure of the southern Canadian Cordillera and its physical interpretation. <i>Journal of Geophysical Research</i> , 2001, 106, 30755-30769.	3.3	25
122	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.	0.7	23
123	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.	0.7	23
124	The electrical resistivity of Canadaâ€™s lithosphere and correlation with other parameters: contributions from Lithoprobe and other programmes. <i>Canadian Journal of Earth Sciences</i> , 2014, 51, 573-617.	0.6	23
125	Logarithmic Fourier transformation. <i>Geophysical Journal International</i> , 1988, 92, 171-178.	1.0	22
126	Spectral analyses of the KTB sonic and density logs using robust nonparametric methods. <i>Journal of Geophysical Research</i> , 1997, 102, 18391-18403.	3.3	22

#	ARTICLE	IF	CITATIONS
127	Northward channel flow in northern Tibet revealed from 3D magnetotelluric modelling. <i>Physics of the Earth and Planetary Interiors</i> , 2014, 235, 13-24.	0.7	22
128	Geoelectrical baseline model of the subsurface of the Hontomán 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.	2.3	22
129	The lithosphere–asthenosphere system beneath Ireland from integrated geophysical–petrological modeling I: Observations, 1D and 2D hypothesis testing and modeling. <i>Lithos</i> , 2014, 189, 28-48.	0.6	22
130	Compensation of the Meyer–Neldel Compensation Law for H diffusion in minerals. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 2616-2631.	1.0	22
131	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.	1.4	22
132	Seismic reflections and electrical conductivity: A case of Holmes's curious dog?. <i>Geology</i> , 1995, 23, 141.	2.0	21
133	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.	1.0	21
134	Geoelectric structure of the Proterozoic Wopmay Orogen and adjacent terranes, Northwest Territories, Canada. <i>Canadian Journal of Earth Sciences</i> , 2005, 42, 955-981.	0.6	20
135	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.	0.2	20
136	Geochemical and geophysical constrains on the dynamic topography of the southern African plateau. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 3556-3575.	1.0	20
137	Electromagnetic imaging of a complex ore body: 3D forward modeling, sensitivity tests, and down-mine measurements. <i>Geophysics</i> , 2007, 72, F85-F95.	1.4	18
138	Artefacts of isotropic inversion applied to magnetotelluric data from an anisotropic Earth. <i>Geophysical Journal International</i> , 2011, 187, 677-689.	1.0	18
139	Instrumentation and field procedures. , 2012, , 421-479.		18
140	Reconciling different equations for proton conduction using the Meyer–Neldel compensation rule. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 337-349.	1.0	18
141	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.	0.3	18
142	Are impact-generated lower-crustal faults observable?. <i>Earth and Planetary Science Letters</i> , 1987, 85, 248-252.	1.8	17
143	Introduction to the magnetotelluric method. , 2012, , 1-18.		17
144	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.	0.9	17

#	ARTICLE	IF	CITATIONS
145	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.	0.7	16
146	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.	0.7	16
147	The Eyjafjallajökull volcanic system, Iceland: insights from electromagnetic measurements. <i>Geophysical Journal International</i> , 2014, 199, 1187-1204.	1.0	16
148	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.	1.0	16
149	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, 687-688.	9.0	15
150	Introduction to Special Section: The KTB Deep Drill Hole. <i>Journal of Geophysical Research</i> , 1997, 102, 18175-18177.	3.3	15
151	Goelectric 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.	0.6	15
152	New geoelectrical characterization of a continental collision zone in the Central Eastern Pyrenees: Constraints from 3-D joint inversion of electromagnetic data. <i>Tectonophysics</i> , 2018, 742-743, 168-179.	0.9	15
153	An objective real-time data-adaptive technique for efficient model resolution improvement in magnetotelluric studies. <i>Geophysics</i> , 1986, 51, 90-97.	1.4	14
154	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.	0.6	14
155	Estimation of the magnetotelluric response function. , 2012, , 165-218.		14
156	Imaging the mantle lithosphere of the Precambrian Grenville Province: large-scale electrical resistivity structures. <i>Geophysical Journal International</i> , 2015, 201, 1040-1061.	1.0	14
157	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, .	3.3	13
158	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.	1.0	12
159	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.	0.6	12
160	Goelectric 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.	0.6	12
161	The inverse problem. , 2012, , 347-420.		12
162	Structure of the Lithosphere Beneath the Barotse Basin, Western Zambia, From Magnetotelluric Data. <i>Tectonics</i> , 2019, 38, 666-686.	1.3	12

#	ARTICLE	IF	CITATIONS
163	Magnetotelluric Experiment probes deep physical state of southeastern United States. <i>Eos</i> , 1996, 77, 329.	0.1	11
164	Magnetotelluric inversion based on mutual information. <i>Geophysical Journal International</i> , 2014, 199, 242-252.	1.0	11
165	Crustal structure of southern Burkina Faso inferred from magnetotelluric, gravity and magnetic data. <i>Precambrian Research</i> , 2017, 300, 261-272.	1.2	11
166	Introduction to MT-DIW2 Special Issue.. <i>Journal of Geomagnetism and Geoelectricity</i> , 1997, 49, 727-737.	0.8	11
167	Orthogonality in CSAMT and MT measurements. <i>Geophysics</i> , 1993, 58, 924-934.	1.4	10
168	A layer stripping approach for monitoring resistivity variations using surface magnetotelluric responses. <i>Journal of Applied Geophysics</i> , 2016, 132, 100-115.	0.9	10
169	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.	1.2	10
170	Electrical resistivity structure of the Flathead Basin in southeastern British Columbia, Canada. <i>Canadian Journal of Earth Sciences</i> , 1990, 27, 1061-1073.	0.6	9
171	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.	0.5	8
172	Imaging the continental upper mantle using electromagnetic methods. <i>Developments in Geotectonics</i> , 1999, 24, 57-80.	0.3	7
173	Chapter 13 Decomposition of three-dimensional magnetotelluric data. <i>Methods in Geochemistry and Geophysics</i> , 2002, , 235-250.	0.2	7
174	The Slave–Kaalvaal workshop: a tale of two cratons. <i>Lithos</i> , 2003, 71, ix-xi.	0.6	7
175	Electromagnetic image of the Trans-Hudson orogen – THO94 transect. <i>Canadian Journal of Earth Sciences</i> , 2005, 42, 479-493.	0.6	7
176	An audio-magnetotelluric investigation of the Otjiwarongo and Katima Mulilo regions, Namibia. <i>Geophysics</i> , 2014, 79, B151-B171.	1.4	7
177	A passive natural-source twin-purpose borehole technique: Vertical gradient magnetometry (VGM). <i>Journal of Geomagnetism and Geoelectricity</i> , 1983, 35, 473-490.	0.8	7
178	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.	0.7	6
179	3B. Description of the magnetospheric/ionospheric sources. , 2012, , 96-121.		6
180	A novel anisotropic inversion approach for magnetotelluric data from subsurfaces with orthogonal geoelectric strike directions. <i>Geophysical Journal International</i> , 2013, 195, 1576-1593.	1.0	6

#	ARTICLE	IF	CITATIONS
181	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.	1.4	6
182	Tectonics of the northern Canadian Cordillera imaged using modern magnetotelluric analysis. <i>Tectonophysics</i> , 2019, 765, 102-128.	0.9	6
183	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.	0.9	6
184	Electrical-resistivity imaging of the central Trans-Hudson orogen. <i>Canadian Journal of Earth Sciences</i> , 2005, 42, 495-515.	0.6	5
185	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.	1.3	5
186	Robust magnetotelluric inversion. <i>Geophysical Journal International</i> , 2014, 196, 1365-1374.	1.0	5
187	Quantitative geothermal interpretation of electrical resistivity models of the Rathlin Basin, Northern Ireland. <i>Geothermics</i> , 2019, 77, 175-187.	1.5	5
188	A Reduced Order Approach for Probabilistic Inversions of 3D Magnetotelluric Data II: Joint Inversion of MT and Surface-Wave Data. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, .	1.4	5
189	Audio-magnetotellurics (AMT) for steeply-dipping mineral targets: importance of multi-component measurements at each site. , 2002, , .		4
190	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, .	1.3	4
191	Case histories and geological applications. , 2012, , 480-544.		4
192	Multi-site, multi-frequency tensor decomposition of magnetotelluric data. , 1996, , .		4
193	Introduction to MT-DIWI Special Section. <i>Journal of Geomagnetism and Geoelectricity</i> , 1993, 45, 931-932.	0.8	4
194	EMAP data processing in the wavenumber domain. , 1989, , .		3
195	A closer look at deep crustal reflections. <i>Eos</i> , 1991, 72, 337-337.	0.1	3
196	High-resolution electromagnetic images of conducting zones in an upthrust crustal block. <i>Geophysical Research Letters</i> , 1994, 21, 1807-1810.	1.5	3
197	POLARIS Update: Fall 2002. <i>Seismological Research Letters</i> , 2003, 74, 41-43.	0.8	3
198	A geothermal aquifer in the dilation zones on the southern margin of the Dublin Basin. <i>Geophysical Journal International</i> , 2020, 220, 1717-1734.	1.0	3

#	ARTICLE	IF	CITATIONS
199	The nature of the southern West African craton lithosphere inferred from its electrical resistivity. Precambrian Research, 2021, 358, 106190.	1.2	3
200	Probing the Southern African Lithosphere With Magnetotelluricsâ€”Part I: Model Construction. Journal of Geophysical Research: Solid Earth, 2022, 127, .	1.4	3
201	The collective review papers presented at the 7th IAGA Workshop on Electromagnetic Induction in the Earth and Moon. Surveys in Geophysics, 1986, 8, 235-238.	2.1	1
202	Deep conductivity anomaly of the Darling Fault Zone - implications for fluid transport in the Perth Basin. ASEG Extended Abstracts, 2015, 2015, 1-4.	0.1	1
203	Interpretation of resistivity and magnetic anomalies from the Fox River Sill, Trans Hudson Orogen, Canada. ASEG Extended Abstracts, 2015, 2015, 1-5.	0.1	1
204	Beyond chi-squared: Additional measures of the closeness of a model to data. ASEG Extended Abstracts, 2019, 2019, 1-6.	0.1	1
205	A pioneering geophysicist: Rosemary Hutton. Geological Society Special Publication, 2021, 506, 215-229.	0.8	1
206	Electromagnetic images of colliding continents: A magnetotelluric survey of the Tsangpo Suture and surrounding regions of Tibet. , 1996, , .		1
207	Beyond chi-squared: Additional measures of the closeness of a model to data. , 2018, , .		1
208	Lithospheric magnetotelluric imaging in canada: significance to diamond exploration. ASEG Extended Abstracts, 2004, 2004, 1-4.	0.1	0
209	Multi-Éstage evolution of the Ordos lithosphere from stochastic inversion of elevation, geoid, surface heat flow, Rayleigh wave dispersion data and magnetotelluric data. Acta Geologica Sinica, 2019, 93, 101-101.	0.8	0
210	Using deep-Éprobing EM studies as an aid to area selection of diamond provinces. , 2002, , .		0
211	Paleoproterozoic tectonic processes revealed through electromagnetic studies of the North American Central Plains (NACP) conductivity anomaly: From continental to hand sample scale. , 1996, , .		0
212	3D inversion of natural-source electromagnetic data from distributed-acquisition systems. , 2018, , .		0