

Anna Kelbert

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

2,250
citations

471509

17
h-index

414414

32
g-index

35
all docs

35
docs citations

35
times ranked

1203
citing authors

#	ARTICLE	IF	CITATIONS
1	Computational recipes for electromagnetic inverse problems. <i>Geophysical Journal International</i> , 2012, 189, 251-267.	2.4	562
2	ModEM: A modular system for inversion of electromagnetic geophysical data. <i>Computers and Geosciences</i> , 2014, 66, 40-53.	4.2	521
3	Global electromagnetic induction constraints on transition-zone water content variations. <i>Nature</i> , 2009, 460, 1003-1006.	27.8	219
4	Deep electrical resistivity structure of the northwestern U.S. derived from 3-D inversion of USArray magnetotelluric data. <i>Earth and Planetary Science Letters</i> , 2014, 402, 290-304.	4.4	208
5	Three-dimensional electrical resistivity of the north-central USA from EarthScope long period magnetotelluric data. <i>Earth and Planetary Science Letters</i> , 2015, 422, 87-93.	4.4	88
6	Non-linear conjugate gradient inversion for global EM induction: resolution studies. <i>Geophysical Journal International</i> , 2008, 173, 365-381.	2.4	84
7	Crust and upper mantle electrical conductivity beneath the Yellowstone Hotspot Track. <i>Geology</i> , 2012, 40, 447-450.	4.4	76
8	Methodology for time-domain estimation of storm time geoelectric fields using the 3D magnetotelluric response tensors. <i>Space Weather</i> , 2017, 15, 874-894.	3.7	59
9	Calculation of Voltages in Electric Power Transmission Lines During Historic Geomagnetic Storms: An Investigation Using Realistic Earth Impedances. <i>Space Weather</i> , 2018, 16, 185-195.	3.7	45
10	The Role of Global/Regional Earth Conductivity Models in Natural Geomagnetic Hazard Mitigation. <i>Surveys in Geophysics</i> , 2020, 41, 115-166.	4.6	45
11	Geoelectric Hazard Maps for the Mid-Atlantic United States: 100 Year Extreme Values and the 1989 Magnetic Storm. <i>Geophysical Research Letters</i> , 2018, 45, 5-14.	4.0	42
12	Geoelectric hazard maps for the continental United States. <i>Geophysical Research Letters</i> , 2016, 43, 9415-9424.	4.0	38
13	Ionospheric current source modeling and global geomagnetic induction using ground geomagnetic observatory data. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 6771-6796.	3.4	35
14	A 100-year Geoelectric Hazard Analysis for the U.S. High-Voltage Power Grid. <i>Space Weather</i> , 2020, 18, e2019SW002329.	3.7	28
15	Global 3-D electromagnetic forward modelling: a benchmark study. <i>Geophysical Journal International</i> , 2014, 197, 785-814.	2.4	27
16	Extreme-Value Geoelectric Amplitude and Polarization Across the Northeast United States. <i>Space Weather</i> , 2019, 17, 379-395.	3.7	20
17	Modified GIC Estimation Using 3D Earth Conductivity. <i>Space Weather</i> , 2020, 18, e2020SW002467.	3.7	15
18	Geoelectric Hazard Maps for the Pacific Northwest. <i>Space Weather</i> , 2018, 16, 1114-1127.	3.7	14

#	ARTICLE	IF	CITATIONS
19	Fluid transport and storage in the Cascadia forearc influenced by overriding plate lithology. <i>Nature Geoscience</i> , 2022, 15, 677-682.	12.9	13
20	Magnetotelluric Sampling and Geoelectric Hazard Estimation: Are National Scale Surveys Sufficient?. <i>Space Weather</i> , 2021, 19, e2020SW002693.	3.7	11
21	Taking Magnetotelluric Data out of the Drawer. <i>Eos</i> , 2018, 99, .	0.1	11
22	Constraints on the resistivity of the oceanic lithosphere and asthenosphere from seafloor ocean tidal electromagnetic measurements. <i>Geophysical Journal International</i> , 2019, 219, 464-478.	2.4	9
23	EMTF XML: New data interchange format and conversion tools for electromagnetic transfer functions. <i>Geophysics</i> , 2020, 85, F1-F17.	2.6	8
24	Simultaneous Observations of Geoelectric and Geomagnetic Fields Produced by Magnetospheric ULF Waves. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089441.	4.0	8
25	Mapping a Magnetic Superstorm: March 1989 Geoelectric Hazards and Impacts on United States Power Systems. <i>Space Weather</i> , 2022, 20, .	3.7	8
26	An electrical conductivity model of a coastal geothermal field in southeastern China based on 3D magnetotelluric imaging. <i>Geophysics</i> , 2021, 86, B265-B276.	2.6	7
27	Science and Cyberinfrastructure: The Chicken and Egg Problem. <i>Eos</i> , 2014, 95, 458-459.	0.1	6
28	Towards uncertainty quantification and parameter estimation for Earth system models in a component-based modeling framework. <i>Computers and Geosciences</i> , 2016, 90, 152-161.	4.2	6
29	Characteristics and Sources of Intense Geoelectric Fields in the United States: Comparative Analysis of Multiple Geomagnetic Storms. <i>Space Weather</i> , 2022, 20, .	3.7	4
30	Down to Earth With Nuclear Electromagnetic Pulse: Realistic Surface Impedance Affects Mapping of the E3 Geoelectric Hazard. <i>Earth and Space Science</i> , 2021, 8, e2021EA001792.	2.6	3
31	MTH5: An archive and exchangeable data format for magnetotelluric time series data. <i>Computers and Geosciences</i> , 2022, 162, 105102.	4.2	0