

Adam Schultz

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

3,319
citations

218381

26
h-index

214527

47
g-index

52
all docs

52
docs citations

52
times ranked

2702
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Evidence of Bermuda Hot and Wet Upwelling From Novel Three-Dimensional Global Mantle Electrical Conductivity Image. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC009016. | 1.0 | 13 |
| 2 | Composition of Magma and Characteristics of the Hydrothermal System of Newberry Volcano, Oregon, From Magnetotellurics. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2019GC008831. | 1.0 | 14 |
| 3 | Quality estimation of magnetotelluric impedance tensors using neural networks. <i>The Leading Edge</i> , 2020, 39, 702-710. | 0.4 | 5 |
| 4 | The evolution of a continent: Thirteen years of EarthScope Magnetotelluric Three-Dimensional Imaging of the United States. <i>Acta Geologica Sinica</i> , 2019, 93, 1-1. | 0.8 | 1 |
| 5 | Crustal inheritance and a top-down control on arc magmatism at Mount St Helens. <i>Nature Geoscience</i> , 2018, 11, 865-870. | 5.4 | 78 |
| 6 | Rapid prediction of electric fields associated with geomagnetically induced currents in the presence of three-dimensional ground structure: Projection of remote magnetic observatory data through magnetotelluric impedance tensors. <i>Space Weather</i> , 2017, 15, 204-227. | 1.3 | 41 |
| 7 | Geomagnetically induced currents: Science, engineering, and applications readiness. <i>Space Weather</i> , 2017, 15, 828-856. | 1.3 | 149 |
| 8 | Down to Earth With an Electric Hazard From Space. <i>Space Weather</i> , 2017, 15, 658-662. | 1.3 | 9 |
| 9 | 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. | 1.8 | 208 |
| 10 | EMScope: A Continental Scale Magnetotelluric Observatory and Data Discovery Resource. <i>Data Science Journal</i> , 2009, 8, IGY6-IGY20. | 0.6 | 30 |
| 11 | A dual sensor device to estimate fluid flow velocity at diffuse hydrothermal vents. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2009, 56, 2065-2074. | 0.6 | 26 |
| 12 | Global electromagnetic induction constraints on transition-zone water content variations. <i>Nature</i> , 2009, 460, 1003-1006. | 13.7 | 219 |
| 13 | Non-linear conjugate gradient inversion for global EM induction: resolution studies. <i>Geophysical Journal International</i> , 2008, 173, 365-381. | 1.0 | 84 |
| 14 | EM, Lake-Bottom Measurements. , 2007, , 227-228. | | 0 |
| 15 | A poroelastic model for the tidal modulation of seafloor hydrothermal systems. <i>Journal of Geophysical Research</i> , 2004, 109, . | 3.3 | 29 |
| 16 | Physical balances in subseafloor hydrothermal convection cells. <i>Journal of Geophysical Research</i> , 2004, 109, . | 3.3 | 52 |
| 17 | Application of 2-D inversion with genetic algorithms to magnetotelluric data from geothermal areas. <i>Earth, Planets and Space</i> , 2002, 54, 607-616. | 0.9 | 20 |
| 18 | The 3D electromagnetic response of the Earth to ring current and auroral oval excitation. <i>Geophysical Journal International</i> , 2002, 151, 689-709. | 1.0 | 60 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Using homotopy to invert geophysical data. <i>Geophysics</i> , 2001, 66, 1749-1760. | 1.4 | 25 |
| 20 | Geoelectromagnetic induction in a heterogeneous sphere: a new three-dimensional forward solver using a conservative staggered-grid finite difference method. <i>Geophysical Journal International</i> , 2000, 140, 636-650. | 1.0 | 49 |
| 21 | A thermodynamic explanation for black smoker temperatures. <i>Nature</i> , 2000, 403, 880-883. | 13.7 | 118 |
| 22 | Variations in the electrical conductivity of the upper mantle beneath North America and the Pacific Ocean. <i>Journal of Geophysical Research</i> , 2000, 105, 8229-8242. | 3.3 | 46 |
| 23 | Controls on the physics and chemistry of seafloor hydrothermal circulation. , 1999, , 171-210. | | 6 |
| 24 | Subannual Temporal Variation in Faunal Distributions at the TAG Hydrothermal Mound (26° N). <i>Journal of Geophysical Research</i> , 1999, 104, 1055-1064. | 0.4 | 30 |
| 25 | 29. Three-Dimensional Inversion for Large-Scale Structure in a Spherical Domain. , 1999, , 451-473. | | 8 |
| 26 | Controls on the physics and chemistry of seafloor hydrothermal circulation. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 1997, 355, 387-425. | 1.6 | 71 |
| 27 | Introduction to MT-DIW2 Special Issue.. <i>Journal of Geomagnetism and Geoelectricity</i> , 1997, 49, 727-737. | 0.8 | 11 |
| 28 | Geomagnetic induction in a heterogeneous sphere: Azimuthally symmetric test computations and the response of an undulating 660-km discontinuity. <i>Journal of Geophysical Research</i> , 1996, 101, 2765-2783. | 3.3 | 73 |
| 29 | Temporal variations in diffuse hydrothermal flow at TAG. <i>Geophysical Research Letters</i> , 1996, 23, 3471-3474. | 1.5 | 55 |
| 30 | Mid-Ocean Ridge Hydrothermal Fluxes and the Chemical Composition of the Ocean. <i>Annual Review of Earth and Planetary Sciences</i> , 1996, 24, 191-224. | 4.6 | 887 |
| 31 | Brent Spar or Broken Spur?. <i>Nature</i> , 1995, 376, 208-208. | 13.7 | 1 |
| 32 | Preliminary modelling of hydrothermal circulation within mid-ocean ridge sulphide structures. <i>Geological Society Special Publication</i> , 1995, 87, 145-157. | 0.8 | 6 |
| 33 | Geomagnetic induction in eccentrically nested spheres. <i>Physics of the Earth and Planetary Interiors</i> , 1995, 92, 189-198. | 0.7 | 20 |
| 34 | Northeastern Pacific mantle conductivity profile from long-period magnetotelluric sounding using Hawaii-to-California submarine cable data. <i>Journal of Geophysical Research</i> , 1995, 100, 17837-17854. | 3.3 | 172 |
| 35 | Regularized spherical harmonic analysis and the 3-D electromagnetic response of the Earth. <i>Geophysical Journal International</i> , 1994, 116, 141-156. | 1.0 | 13 |
| 36 | Comment on "The electrical conductivity of the oceanic upper mantle" by G. Heinson and S. Constable. <i>Geophysical Journal International</i> , 1993, 114, 711-716. | 1.0 | 21 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Conductivity discontinuities in the upper mantle beneath a stable craton. <i>Geophysical Research Letters</i> , 1993, 20, 2941-2944. | 1.5 | 162 |
| 38 | Two-Dimensional Nonlinear Magnetotelluric Inversion Using a Genetic Algorithm.. <i>Journal of Geomagnetism and Geoelectricity</i> , 1993, 45, 1013-1026. | 0.8 | 32 |
| 39 | Very low frequency ambient noise at the seafloor under the Beaufort Sea icecap. <i>Journal of the Acoustical Society of America</i> , 1992, 91, 1429-1439. | 0.5 | 18 |
| 40 | On the partitioning of heat flux between diffuse and point source seafloor venting. <i>Journal of Geophysical Research</i> , 1992, 97, 12299-12314. | 3.3 | 158 |
| 41 | Very long period magnetotellurics at Tucson Observatory: Estimation of impedances. <i>Journal of Geophysical Research</i> , 1992, 97, 15113-15128. | 3.3 | 36 |
| 42 | A 3-D perturbation solution for the EM induction problem in a spherical earth-the forward problem. <i>Geophysical Journal International</i> , 1992, 111, 319-334. | 1.0 | 21 |
| 43 | Ocean bottom seismometer facilities available. <i>Eos</i> , 1991, 72, 506-506. | 0.1 | 27 |
| 44 | On the electrical conductivity of the mid-mantle: II. Delineation of heterogeneity by application of extremal inverse solutions. <i>Geophysical Journal International</i> , 1990, 101, 565-580. | 1.0 | 44 |
| 45 | Exorcise an algorithm for detection of spurious values and prediction of missing data. <i>Computers and Geosciences</i> , 1990, 16, 1027-1065. | 2.0 | 6 |
| 46 | On the vertical gradient and associated heterogeneity in mantle electrical conductivity. <i>Physics of the Earth and Planetary Interiors</i> , 1990, 64, 68-86. | 0.7 | 35 |
| 47 | Lake bottom magnetotellurics. <i>Journal of Geophysical Research</i> , 1987, 92, 10639-10649. | 3.3 | 12 |
| 48 | On the electrical conductivity of the mid-mantle-I. Calculation of equivalent scalar magnetotelluric response functions. <i>Geophysical Journal International</i> , 1987, 88, 733-761. | 1.0 | 97 |
| 49 | Analysis of zonal field morphology and data quality for a global set of magnetic observatory daily mean values.. <i>Journal of Geomagnetism and Geoelectricity</i> , 1983, 35, 835-846. | 0.8 | 20 |
| 50 | Leg 203 synthesis: summary of scientific results. , 0, , . | | 0 |