

Adam Schultz

List of Publications by Year in descending order

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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	Mid-Ocean Ridge Hydrothermal Fluxes and the Chemical Composition of the Ocean. Annual Review of Earth and Planetary Sciences, 1996, 24, 191-224.	4.6	887
2	Global electromagnetic induction constraints on transition-zone water content variations. Nature, 2009, 460, 1003-1006.	13.7	219
3	Deep electrical resistivity structure of the northwestern U.S. derived from 3-D inversion of USArray magnetotelluric data. Earth and Planetary Science Letters, 2014, 402, 290-304.	1.8	208
4	Northeastern Pacific mantle conductivity profile from long-period magnetotelluric sounding using Hawaii-to-California submarine cable data. Journal of Geophysical Research, 1995, 100, 17837-17854.	3.3	172
5	Conductivity discontinuities in the upper mantle beneath a stable craton. Geophysical Research Letters, 1993, 20, 2941-2944.	1.5	162
6	On the partitioning of heat flux between diffuse and point source seafloor venting. Journal of Geophysical Research, 1992, 97, 12299-12314.	3.3	158
7	Geomagnetically induced currents: Science, engineering, and applications readiness. Space Weather, 2017, 15, 828-856.	1.3	149
8	A thermodynamic explanation for black smoker temperatures. Nature, 2000, 403, 880-883.	13.7	118
9	On the electrical conductivity of the mid-mantle-I. Calculation of equivalent scalar magnetotelluric response functions. Geophysical Journal International, 1987, 88, 733-761.	1.0	97
10	Non-linear conjugate gradient inversion for global EM induction: resolution studies. Geophysical Journal International, 2008, 173, 365-381.	1.0	84
11	Crustal inheritance and a top-down control on arc magmatism at Mount St Helens. Nature Geoscience, 2018, 11, 865-870.	5.4	78
12	Geomagnetic induction in a heterogenous sphere: Azimuthally symmetric test computations and the response of an undulating 660-km discontinuity. Journal of Geophysical Research, 1996, 101, 2765-2783.	3.3	73
13	Controls on the physics and chemistry of seafloor hydrothermal circulation. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 1997, 355, 387-425.	1.6	71
14	The 3D electromagnetic response of the Earth to ring current and auroral oval excitation. Geophysical Journal International, 2002, 151, 689-709.	1.0	60
15	Temporal variations in diffuse hydrothermal flow at TAG. Geophysical Research Letters, 1996, 23, 3471-3474.	1.5	55
16	Physical balances in subseafloor hydrothermal convection cells. Journal of Geophysical Research, 2004, 109, .	3.3	52
17	Geoelectromagnetic induction in a heterogeneous sphere:a new three-dimensional forward solver using a conservative staggered-grid finite difference method. Geophysical Journal International, 2000, 140, 636-650.	1.0	49
18	Variations in the electrical conductivity of the upper mantle beneath North America and the Pacific Ocean. Journal of Geophysical Research, 2000, 105, 8229-8242.	3.3	46

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Very long period magnetotellurics at Tucson Observatory: Estimation of impedances. <i>Journal of Geophysical Research</i> , 1992, 97, 15113-15128.	3.3	36
22	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
23	Two-Dimensional Nonlinear Magnetotelluric Inversion Using a Genetic Algorithm.. <i>Journal of Geomagnetism and Geoelectricity</i> , 1993, 45, 1013-1026.	0.8	32
24	Subannual Temporal Variation in Faunal Distributions at the TAG Hydrothermal Mound (26° N), Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54	0.4	30
25	EMScope: A Continental Scale Magnetotelluric Observatory and Data Discovery Resource. <i>Data Science Journal</i> , 2009, 8, IGY6-IGY20.	0.6	30
26	A poroelastic model for the tidal modulation of seafloor hydrothermal systems. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	29
27	Ocean bottom seismometer facilities available. <i>Eos</i> , 1991, 72, 506-506.	0.1	27
28	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
29	Using homotopy to invert geophysical data. <i>Geophysics</i> , 2001, 66, 1749-1760.	1.4	25
30	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
31	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
32	Geomagnetic induction in eccentrically nested spheres. <i>Physics of the Earth and Planetary Interiors</i> , 1995, 92, 189-198.	0.7	20
33	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
34	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
35	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
36	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

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37	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
38	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
39	Lake bottom magnetotellurics. <i>Journal of Geophysical Research</i> , 1987, 92, 10639-10649.	3.3	12
40	Introduction to MT-DIW2 Special Issue.. <i>Journal of Geomagnetism and Geoelectricity</i> , 1997, 49, 727-737.	0.8	11
41	Down to Earth With an Electric Hazard From Space. <i>Space Weather</i> , 2017, 15, 658-662.	1.3	9
42	29. Three-Dimensional Inversion for Large-Scale Structure in a Spherical Domain. , 1999, , 451-473.		8
43	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
44	Preliminary modelling of hydrothermal circulation within mid-ocean ridge sulphide structures. <i>Geological Society Special Publication</i> , 1995, 87, 145-157.	0.8	6
45	Controls on the physics and chemistry of seafloor hydrothermal circulation. , 1999, , 171-210.		6
46	Quality estimation of magnetotelluric impedance tensors using neural networks. <i>The Leading Edge</i> , 2020, 39, 702-710.	0.4	5
47	Brent Spar or Broken Spur?. <i>Nature</i> , 1995, 376, 208-208.	13.7	1
48	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
49	Leg 203 synthesis: summary of scientific results. , 0, , .		0
50	EM, Lake-Bottom Measurements. , 2007, , 227-228.		0