Stefan Maus

List of Publications by Year
in descending order

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Version: 2024-02-01

75 papers	4,635 citations	172457 29 h-index	161849 54 g-index
76 all docs	76 docs citations	76 times ranked	4498 citing authors

#	Article	IF	Citations
1	Continuous Improvement in Wellbore Position Accuracy: Ultra-Extended-Reach Drilling in Far Eastern Russia. , 2018, , .		5
2	A corotation electric field model of the Earth derived from Swarm satellite magnetic field measurements. Journal of Geophysical Research: Space Physics, 2017, 122, 8733-8754.	2.4	5
3	Modelâ€observation comparison for the geographic variability of the plasma electric drift in the Earth's innermost magnetosphere. Geophysical Research Letters, 2017, 44, 7634-7642.	4.0	3
4	The GPlates Portal: Cloud-Based Interactive 3D Visualization of Global Geophysical and Geological Data in a Web Browser. PLoS ONE, 2016, 11, e0150883.	2.5	41
5	Fast equatorial waves propagating at the top of the Earth's core. Geophysical Research Letters, 2015, 42, 3321-3329.	4.0	63
6	International Geomagnetic Reference Field: the 12th generation. Earth, Planets and Space, 2015, 67, .	2.5	1,015
7	NOAA/NGDC candidate models for the 12th generation International Geomagnetic Reference Field. Earth, Planets and Space, 2015, 67, .	2.5	28
8	Geomagnetic secular acceleration, jerks, and a localized standing wave at the core surface from 2000 to 2010. Journal of Geophysical Research: Solid Earth, 2014, 119, 1531-1543.	3.4	92
9	Geomagnetic main field modeling with DMSP. Journal of Geophysical Research: Space Physics, 2014, 119, 4010-4025.	2.4	15
10	Effective Monitoring of Auroral Electrojet Disturbances to Enable Accurate Wellbore Placement in the Arctic. , 2014, , .		6
11	Marine Magnetic Surveying and Disturbance Field Monitoring by Autonomous Marine Vehicles. , 2014, , .		3
12	Space Weather opportunities from the Swarm mission including near real time applications. Earth, Planets and Space, 2013, 65, 1375-1383.	2.5	20
13	The Swarm Satellite Constellation Application and Research Facility (SCARF) and Swarm data products. Earth, Planets and Space, 2013, 65, 1189-1200.	2.5	222
14	Swarm SCARF equatorial electric field inversion chain. Earth, Planets and Space, 2013, 65, 1309-1317.	2.5	39
15	Improved Geomagnetic Referencing in the Arctic Environment (Russian). , 2013, , .		5
16	Improved Geomagnetic Referencing in the Arctic Environment. , 2013, , .		8
17	Successful Application of Geomagnetic Referencing for Accurate Wellbore Positioning in a Deepwater Project Offshore Brazil. , 2012, , .		10
18	Addressing Wellbore Position Challenges in Ultra-Extended-Reach Drilling in Russia's Far East (Russian). , 2012, , .		2

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19	Addressing Wellbore Position Challenges in Ultra-Extended-Reach Drilling in Russia's Far East. , 2012, , .		9
20	High Definition Geomagnetic Models: A New Perspective for Improved Wellbore Positioning. , 2012, , .		13
21	On the coherence between US and Australian magnetic compilations and CHAMP satellite magnetic measurements. , 2012, , .		0
22	Chapter 3 Circum-Arctic mapping project: new magnetic and gravity anomaly maps of the Arctic. Geological Society Memoir, 2011, 35, 39-48.	1.7	92
23	Observation of Magnetic Fields Generated by Tsunamis. Eos, 2011, 92, 13-14.	0.1	64
24	C/NOFS measurements of magnetic perturbations in the low-latitude ionosphere during magnetic storms. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	21
25	Electric fields in the equatorial ionosphere derived from CHAMP satellite magnetic field measurements. Journal of Atmospheric and Solar-Terrestrial Physics, 2010, 72, 319-326.	1.6	29
26	International Geomagnetic Reference Field: the eleventh generation. Geophysical Journal International, 2010, 183, 1216-1230.	2.4	907
27	NOAA/NGDC candidate models for the 11th generation International Geomagnetic Reference Field and the concurrent release of the 6th generation Pomme magnetic model. Earth, Planets and Space, 2010, 62, 729-735.	2.5	84
28	On the possibility of extending the IGRF predictive secular variation model to a higher SH degree. Earth, Planets and Space, 2010, 62, 815-820.	2.5	5
29	IGRF candidate models at times of rapid changes in core field acceleration. Earth, Planets and Space, 2010, 62, 753-763.	2.5	13
30	Solar cycle dependence of quiet-time magnetospheric currents and a model of their near-Earth magnetic fields. Earth, Planets and Space, 2010, 62, 843-848.	2.5	61
31	Relationship between the ionospheric eastward electric field and the equatorial electrojet. Geophysical Research Letters, 2010, 37, .	4.0	30
32	Reply to comment by V. Lesur et al. on â€œCan coreâ€surface flow models be used to improve the forecast of the Earth's main magnetic fieldâ€• Journal of Geophysical Research, 2009, 114, .	3.3	4
33	Earth Magnetic Anomaly Grid Released. Eos, 2009, 90, 239-239.	0.1	4
34	The geomagnetic power spectrum. Geophysical Journal International, 2008, 174, 135-142.	2.4	53
35	On the applicability of the frozen flux approximation in core flow modelling as a function of temporal frequency and spatial degree. Geophysical Journal International, 2008, 175, 853-856.	2.4	4
36	Can coreâ€surface flow models be used to improve the forecast of the Earth's main magnetic field?. Journal of Geophysical Research, 2008, 113, .	3.3	39

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37	Improved horizontal wind model HWM07 enables estimation of equatorial ionospheric electric fields from satellite magnetic measurements. Geophysical Research Letters, 2008, 35, .	4.0	19
38	EMAG3: A 3â€arcâ€minute resolution global magnetic anomaly grid compiled from satellite, airborne and marine magnetic data. , 2008, , .		3
39	Magnetic anomaly map of the world: merging satellite, airborne, marine and ground-based magnetic data sets. Earth and Planetary Science Letters, 2007, 260, 56-71.	4.4	53
40	Fifth-generation lithospheric magnetic field model from CHAMP satellite measurements. Geochemistry, Geophysics, Geosystems, 2007, 8, n/a-n/a.	2.5	89
41	Electric fields and zonal winds in the equatorial ionosphere inferred from CHAMP satellite magnetic measurements. Geophysical Research Letters, 2007, 34, .	4.0	12
42	Spatioâ€temporal characterization of the equatorial electrojet from CHAMP, Ã˜rsted, and SACâ€C satellite magnetic measurements. Journal of Geophysical Research, 2007, 112, .	3.3	113
43	Ocean, Electromagnetic Effects. , 2007, , 740-742.		3
44	Champ. , 2007, , 59-60.		11
45	A global lithospheric magnetic field model with reduced noise level in the Polar Regions. Geophysical Research Letters, 2006, 33, .	4.0	29
46	Direct observation of theFregion dynamo currents and the spatial structure of the EEJ by CHAMP. Geophysical Research Letters, 2006, 33, .	4.0	57
47	The Swarm End-to-End mission simulator study: A demonstration of separating the various contributions to Earthâ€™s magnetic field using synthetic data. Earth, Planets and Space, 2006, 58, 359-370.	2.5	62
48	Introducing POMME, the POtsdam Magnetic Model of the Earth. , 2005, , 293-298.		35
49	Interpretation of CHAMP Crustal Field Anomaly Maps Using Geographical Information System (GIS) Technique. , 2005, , 249-254.		8
50	Signature of the quiet-time magnetospheric magnetic field and its electromagnetic induction in the rotating Earth. Geophysical Journal International, 2005, 162, 755-763.	2.4	81
51	Wavelet Analysis of CHAMP Flux Gate Magnetometer Data. , 2005, , 347-352.		15
52	International Geomagnetic Reference Fieldâ€”the tenth generation. Earth, Planets and Space, 2005, 57, 1135-1140.	2.5	118
53	NGDC/GFZ candidate models for the 10th generation International Geomagnetic Reference Field. Earth, Planets and Space, 2005, 57, 1151-1156.	2.5	26
54	Evaluation of candidate geomagnetic field models for the 10th generation of IGRF. Earth, Planets and Space, 2005, 57, 1173-1181.	2.5	23

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55	Why no anomaly is visible over most of the continentâ€“ocean boundary in the global crustal magnetic field. Physics of the Earth and Planetary Interiors, 2005, 149, 321-333.	1.9	32
56	10th Generation International Geomagnetic Reference Field. Eos, 2005, 86, 159.	0.1	22
57	Comment on â€œError made in reports of main field decayâ€. Eos, 2004, 85, 350.	0.1	0
58	Local time effects in satellite estimates of electromagnetic induction transfer functions. Geophysical Research Letters, 2004, 31, .	4.0	15
59	Separating the magnetospheric disturbance magnetic field into external and transient internal contributions using a 1D conductivity model of the Earth. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	53
60	The 9th-Generation International Geomagnetic Reference Field. Geophysical Journal International, 2003, 155, 1051-1056.	2.4	47
61	CHAMP satellite and terrestrial magnetic data help define the tectonic model for South America and resolve the lingering problem of the pre-break-up fit of the South Atlantic Ocean. The Leading Edge, 2003, 22, 779-783.	0.7	45
62	Satellite Observations of Magnetic Fields Due to Ocean Tidal Flow. Science, 2003, 299, 239-241.	12.6	155
63	A Comparison of Global Lithospheric Field Models Derived from Satellite Magnetic Data. , 2003, , 261-268.		5
64	Mapping the Lithospheric Magnetic Field from CHAMP Scalar and Vector Magnetic Data. , 2003, , 269-274.		1
65	Geological implications of continental magnetic anomalies derived from new CHAMP satellite data. , 2003, , .		0
66	Is there an observable lack of reciprocity inPKP(DF) traveltimes?. Geophysical Journal International, 2000, 143, 274-277.	2.4	1
67	Variogram analysis of helicopter magnetic data to identify paleochannels of the Omaruru River, Namibia. Geophysics, 1999, 64, 785-794.	2.6	13
68	Variogram analysis of magnetic and gravity data. Geophysics, 1999, 64, 776-784.	2.6	18
69	Improved ocean-geoid resolution from retracked ERS-1 satellite altimeter waveforms. Geophysical Journal International, 1998, 134, 243-253.	2.4	43
70	Satelliteâ€derived gravity: Where we are and whatâ€™s next. The Leading Edge, 1998, 17, 77-79.	0.7	12
71	Curie-temperature depth estimation using a self-similar magnetization model. Geophysical Journal International, 1997, 129, 163-168.	2.4	138
72	Depth estimation from the scaling power spectrum of potential fields?. Geophysical Journal International, 1996, 124, 113-120.	2.4	146

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73	Variogram analysis of magnetic data to identify paleochannels of the Omaruru River in Namibia. , 1996, , .		1
74	Scaling statistical analysis of magnetic and gravity data. , 1996, , .		1
75	Potential field power spectrum inversion for scaling geology. Journal of Geophysical Research, 1995, 100, 12605-12616.	3.3	111