

Monika Korte

List of Publications by Year in descending order

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108
papers

5,136
citations

147801

31
h-index

88630

70
g-index

122
all docs

122
docs citations

122
times ranked

3584
citing authors

#	ARTICLE	IF	CITATIONS
1	International Geomagnetic Reference Field: the 12th generation. Earth, Planets and Space, 2015, 67, .	2.5	1,015
2	International Geomagnetic Reference Field: the thirteenth generation. Earth, Planets and Space, 2021, 73, .	2.5	319
3	Geomagnetic field for 0–3 ka: 2. A new series of time-varying global models. Geochemistry, Geophysics, Geosystems, 2009, 10, .	2.5	270
4	Reconstructing the Holocene geomagnetic field. Earth and Planetary Science Letters, 2011, 312, 497-505.	4.4	264
5	Persistent high paleosecular variation activity in southern hemisphere for at least 10 ⁵ years. Earth and Planetary Science Letters, 2016, 453, 78-86.	4.4	208
6	Improving geomagnetic field reconstructions for 0–3ka. Physics of the Earth and Planetary Interiors, 2011, 188, 247-259.	1.9	203
7	Reconstructing Holocene geomagnetic field variation: new methods, models and implications. Geophysical Journal International, 2014, 198, 229-248.	2.4	196
8	Archeoint: An upgraded compilation of geomagnetic field intensity data for the past ten millennia and its application to the recovery of the past dipole moment. Geochemistry, Geophysics, Geosystems, 2008, 9, .	2.5	174
9	The geomagnetic dipole moment over the last 7000 years—new results from a global model. Earth and Planetary Science Letters, 2005, 236, 348-358.	4.4	167
10	Geomagnetic field for 0–3 ka: 1. New data sets for global modeling. Geochemistry, Geophysics, Geosystems, 2009, 10, .	2.5	154
11	Continuous geomagnetic field models for the past 7 millennia: 2. CALS7K. Geochemistry, Geophysics, Geosystems, 2005, 6, .	2.5	149
12	GEOMAGIA50.v3: 1. general structure and modifications to the archeological and volcanic database. Earth, Planets and Space, 2015, 67, .	2.5	149
13	Continuous global geomagnetic field models for the past 3000 years. Physics of the Earth and Planetary Interiors, 2003, 140, 73-89.	1.9	103
14	Continuous geomagnetic field models for the past 7 millennia: 1. A new global data compilation. Geochemistry, Geophysics, Geosystems, 2005, 6, .	2.5	95
15	Is Earth's magnetic field reversing?. Earth and Planetary Science Letters, 2006, 246, 1-16.	4.4	64
16	Age assignment of a diatomaceous ooze deposited in the western Amundsen Sea Embayment after the Last Glacial Maximum. Journal of Quaternary Science, 2010, 25, 280-295.	2.1	62
17	Earth's magnetic field is probably not reversing. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 5111-5116.	7.1	62
18	One Hundred Thousand Years of Geomagnetic Field Evolution. Reviews of Geophysics, 2019, 57, 1289-1337.	23.0	59

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19	Extending Global Continuous Geomagnetic Field Reconstructions on Timescales Beyond Human Civilization. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 4757-4772.	2.5	58
20	GEOMAGIA50.v3: 2. A new paleomagnetic database for lake and marine sediments. <i>Earth, Planets and Space</i> , 2015, 67, .	2.5	55
21	Limitations in paleomagnetic data and modelling techniques and their impact on Holocene geomagnetic field models. <i>Geophysical Journal International</i> , 2015, 202, 402-418.	2.4	54
22	Solar activity reconstructed over the last 7000 years: The influence of geomagnetic field changes. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	53
23	Spatial and temporal resolution of millennial scale geomagnetic field models. <i>Advances in Space Research</i> , 2008, 41, 57-69.	2.6	51
24	On the persistence of geomagnetic flux lobes in global Holocene field models. <i>Physics of the Earth and Planetary Interiors</i> , 2010, 182, 179-186.	1.9	50
25	Robust Characteristics of the Laschamp and Mono Lake Geomagnetic Excursions: Results From Global Field Models. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	45
26	Role of centennial geomagnetic changes in local atmospheric ionization. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	44
27	Regularization of spherical cap harmonics. <i>Geophysical Journal International</i> , 2003, 153, 253-262.	2.4	42
28	Centennial to millennial geomagnetic secular variation. <i>Geophysical Journal International</i> , 2006, 167, 43-52.	2.4	42
29	A historical declination curve for Munich from different data sources. <i>Physics of the Earth and Planetary Interiors</i> , 2009, 177, 161-172.	1.9	42
30	Geomagnetic Observations and Models. , 2011, , .		42
31	The time-dependence of intense archeomagnetic flux patches. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	39
32	The evolution of the core's surface flow over the last seven thousands years. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	33
33	Magnetic poles and dipole tilt variation over the past decades to millennia. <i>Earth, Planets and Space</i> , 2008, 60, 937-948.	2.5	31
34	Advances in archaeomagnetic dating in Britain: New data, new approaches and a new calibration curve. <i>Journal of Archaeological Science</i> , 2017, 85, 66-82.	2.4	31
35	Archeomagnetic Intensity Spikes: Global or Regional Geomagnetic Field Features?. <i>Frontiers in Earth Science</i> , 2018, 6, .	1.8	30
36	Modelling European magnetic repeat station and survey data by SCHA in search of time-varying anomalies. <i>Physics of the Earth and Planetary Interiors</i> , 2000, 122, 205-220.	1.9	29

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37	Did the solar eclipse of August 11, 1999, show a geomagnetic effect?. Journal of Geophysical Research, 2001, 106, 18563-18575.	3.3	29
38	Millennial Variations of the Geomagnetic Field: from Data Recovery to Field Reconstruction. Space Science Reviews, 2010, 155, 219-246.	8.1	29
39	Refining Holocene geochronologies using palaeomagnetic records. Quaternary Geochronology, 2019, 50, 47-74.	1.4	29
40	The magnetic field changing over the southern African continent: a unique behaviour. South African Journal of Geology, 2007, 110, 193-202.	1.2	28
41	Regional millennial trend in the cosmic ray induced ionization of the troposphere. Journal of Atmospheric and Solar-Terrestrial Physics, 2010, 72, 19-25.	1.6	28
42	Global archaeomagnetic data: The state of the art and future challenges. Physics of the Earth and Planetary Interiors, 2021, 318, 106766.	1.9	24
43	Geomagnetic repeat station crustal biases and vectorial anomaly maps for Germany. Geophysical Journal International, 2007, 170, 81-92.	2.4	23
44	On the use of calibrated relative paleointensity records to improve millennial-scale geomagnetic field models. Geochemistry, Geophysics, Geosystems, 2006, 7, n/a-n/a.	2.5	22
45	New insights into regional tectonics of the Sunda-Banda Arcs region from integrated magnetic and gravity modelling. Journal of Asian Earth Sciences, 2014, 80, 172-184.	2.3	22
46	The Norwegian-Greenland Sea, the Laschamps, and the Mono Lake Excursions Recorded in a Black Sea Sedimentary Sequence Spanning From 68.9 to 14.5 ka. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB019225.	3.4	21
47	Improved observations at the southern African geomagnetic repeat station network. South African Journal of Geology, 2007, 110, 175-186.	1.2	20
48	Contributions of the external field to the observatory annual means and a proposal for their corrections. Earth, Planets and Space, 2007, 59, 251-257.	2.5	20
49	Centennial- to Millennial-Scale Geomagnetic Field Variations. , 2015, , 309-341.		20
50	Automation of absolute measurement of the geomagnetic field. Earth, Planets and Space, 2007, 59, 1007-1014.	2.5	19
51	A simple model for geomagnetic field excursions and inferences for palaeomagnetic observations. Physics of the Earth and Planetary Interiors, 2016, 254, 1-11.	1.9	19
52	Four decades of geomagnetic and solar activity: 1960-2001. Journal of Atmospheric and Solar-Terrestrial Physics, 2010, 72, 607-616.	1.6	18
53	Global Evolution and Dynamics of the Geomagnetic Field in the 15-70 kyr Period Based on Selected Paleomagnetic Sediment Records. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022681.	3.4	18
54	Validity of archaeomagnetic field recording: an experimental pottery kiln at Coppengrave, Germany. Geophysical Journal International, 2016, 205, 622-635.	2.4	15

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55	Spatial and Temporal Changes of the Geomagnetic Field. , 2019, , 115-132.		15
56	Variations in Mid-Latitude Auroral Activity During the Holocene*. Archaeometry, 2016, 58, 159-176.	1.3	14
57	On long-term trends in European geomagnetic observatory biases. Earth, Planets and Space, 2007, 59, 685-695.	2.5	13
58	ArchKalmag14k: A Kalmanâ€Filter Based Global Geomagnetic Model for the Holocene. Journal of Geophysical Research: Solid Earth, 2022, 127, .	3.4	12
59	Modelling the southern African geomagnetic field secular variation using ground survey data for 2005. South African Journal of Geology, 2007, 110, 187-192.	1.2	10
60	Geomagnetic field anomalies over the Lombok Island region: an attempt to understand the local tectonic changes. International Journal of Earth Sciences, 2010, 99, 1123-1132.	1.8	10
61	Morphology of the southern African geomagnetic field derived from observatory and repeat station survey observations: 2005â€2014. Earth, Planets and Space, 2016, 68, .	2.5	10
62	Geomagnetism: From Alexander von Humboldt to Current Challenges. Geochemistry, Geophysics, Geosystems, 2019, 20, 3801-3820.	2.5	10
63	The Mag.num core field model as a parent for IGRF-13, and the recent evolution of the South Atlantic Anomaly. Earth, Planets and Space, 2021, 73, .	2.5	10
64	Persistent westward drift of the geomagnetic field at the coreâ€mantle boundary linked to recurrent high-latitude weak/reverse flux patches. Geophysical Journal International, 2020, 222, 1423-1432.	2.4	10
65	Ancient Sundials and Maps Reveal Historical Geomagnetic Declination Values. Eos, 2007, 88, 310.	0.1	9
66	Centennial to millennial geomagnetic field variations. Journal of Space Weather and Space Climate, 2012, 2, A08.	3.3	9
67	The Recent Geomagnetic Field and its Variations. Advances in Geophysical and Environmental Mechanics and Mathematics, 2009, , 25-63.	0.2	8
68	New geomagnetic field observations in the South Atlantic Anomaly region. Annals of Geophysics, 2010, 52, .	1.0	8
69	Effects of the Laschamps Excursion on Geomagnetic Cutoff Rigidities. Geochemistry, Geophysics, Geosystems, 2022, 23, .	2.5	8
70	Improvements planned for European geomagnetic repeat stations. Eos, 2003, 84, 160-160.	0.1	7
71	A harmonic spline magnetic main field model for Southern Africa combining ground and satellite data to describe the evolution of the South Atlantic Anomaly in this region between 2005 and 2010. Earth, Planets and Space, 2018, 70, .	2.5	7
72	A high-resolution lithospheric magnetic field model over southern Africa based on a joint inversion of CHAMP, Swarm, WDMAM, and ground magnetic field data. Solid Earth, 2018, 9, 897-910.	2.8	7

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73	Correlation based snapshot models of the archeomagnetic field. <i>Geophysical Journal International</i> , 2020, 223, 648-665.	2.4	7
74	SOUTHERN AFRICAN GEOMAGNETIC SECULAR VARIATION FROM 2005 TO 2009. <i>South African Journal of Geology</i> , 2011, 114, 515-524.	1.2	6
75	Revised magnetic power spectrum of the oceanic crust. <i>Journal of Geophysical Research</i> , 2002, 107, EPM 6-1-EPM 6-8.	3.3	5
76	Evolution of Large-Scale Magnetic Fields From Near-Earth Space During the Last 11 Solar Cycles. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 2527-2540.	2.4	5
77	Geopotential field anomalies and regional tectonic features – two case studies: southern Africa and Germany. <i>Solid Earth</i> , 2016, 7, 751-768.	2.8	5
78	Merging fluxgate and induction coil data to produce low-noise geomagnetic observatory data meeting the INTERMAGNET definitive 1-s data standard. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2017, 6, 487-493.	1.6	4
79	Alexander von Humboldt's charts of the Earth's magnetic field: an assessment based on modern models. <i>History of Geo- and Space Sciences</i> , 2010, 1, 63-76.	0.4	4
80	An annual proxy for the geomagnetic signal of magnetospheric currents on Earth based on observatory data from 1900–2010. <i>Geophysical Journal International</i> , 2017, 211, 1223-1236.	2.4	3
81	A Statistical Classifier for Historical Geomagnetic Storm Drivers Derived Solely From Ground-Based Magnetic Field Measurements. <i>Earth and Space Science</i> , 2019, 6, 2000-2015.	2.6	3
82	Palaeo- and rock magnetic investigations of Late Quaternary sediments from the Upper Congo deep-sea fan: on the difficulty in obtaining palaeomagnetic secular variation records from low latitudes. <i>International Journal of Earth Sciences</i> , 2019, 108, 267-285.	1.8	3
83	Polynomial Modelling of Southern African Secular Variation Observations Since 2005. <i>Data Science Journal</i> , 2011, 10, IAGA95-IAGA101.	1.3	3
84	Magnetic Declination Chart 2006 of Europe – produced by the MagNetE Group. <i>Annals of Geophysics</i> , 2013, 55, .	1.0	3
85	Global Geomagnetic Field Reconstructions from Centuries to Excursions. <i>Astrophysics and Space Science Library</i> , 2018, , 83-110.	2.7	2
86	Correlation Based Time Evolution of the Archeomagnetic Field. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB021548.	3.4	2
87	Four decades of European geomagnetic secular variation and acceleration. <i>Annals of Geophysics</i> , 2010, 52, .	1.0	2
88	Towards Understanding the Interconnection between Celestial Pole Motion and Earth's Magnetic Field Using Space Geodetic Techniques. <i>Sensors</i> , 2021, 21, 7555.	3.8	2
89	Improving the Visualization and Interpretation of Inhomogeneous Data Sets. <i>Eos</i> , 2009, 90, 167-167.	0.1	1
90	Paleo- and rock magnetic investigations on Late Quaternary sediments from low latitudes I: Geomagnetic paleosecular variation and relative paleointensity records from the Tobago Basin, Southeast Caribbean. <i>Geophysical Journal International</i> , 2016, , ggw481.	2.4	1

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91	On the possibility of producing definitive magnetic observatory data within less than one year. Acta Geophysica, 2017, 65, 275-286.	2.0	1
92	Geomagnetism. , 2021, , 664-674.		1
93	Repeat station data compared to a global geomagnetic field model. Annals of Geophysics, 2013, 55, .	1.0	1
94	A regional geomagnetic field model over Southern Africa derived with harmonic splines from Swarm satellite and ground-based data recorded between 2014 and 2019. Earth, Planets and Space, 2022, 74, .	2.5	1
95	Appreciation of 2017 GRL Peer Reviewers. Geophysical Research Letters, 2018, 45, 4494-4528.	4.0	0
96	Why Study the Geomagnetic Field?. , 2019, , 7-29.		0
97	The Ionospheric Field. , 2019, , 141-159.		0
98	Temporal Field Variations. , 2019, , 181-206.		0
99	Long- and Short-Term Geomagnetic Prediction. , 2019, , 312-326.		0
100	Thank You to Our 2018 Peer Reviewers. Geophysical Research Letters, 2019, 46, 12608-12636.	4.0	0
101	Thank You to Our 2019 Peer Reviewers. Geophysical Research Letters, 2020, 47, e2020GL088048.	4.0	0
102	Geomagnetic Field, Secular Variation. Encyclopedia of Earth Sciences Series, 2021, , 514-515.	0.1	0
103	Thank You to Our 2020 Peer Reviewers. Geophysical Research Letters, 2021, 48, e2021GL093126.	4.0	0
104	Millennial Variations of the Geomagnetic Field: from Data Recovery to Field Reconstruction. Space Sciences Series of ISSI, 2010, , 219-246.	0.0	0
105	DI3 - A New Procedure for Absolute Directional Measurements. Data Science Journal, 2011, 10, IAGA47-IAGA51.	1.3	0
106	Geomagnetic Field, Secular Variation. Encyclopedia of Earth Sciences Series, 2020, , 1-2.	0.1	0
107	The Global Geomagnetic Field of the Past Hundred Thousand Years. Eos, 2020, 101, .	0.1	0
108	Thank You to Our 2021 Peer Reviewers. Geophysical Research Letters, 2022, 49, .	4.0	0