Vincent Lesur

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/8410790/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	International Geomagnetic Reference Field: the 12th generation. Earth, Planets and Space, 2015, 67, .	0.9	1,015
2	International Geomagnetic Reference Field: the eleventh generation. Geophysical Journal International, 2010, 183, 1216-1230.	1.0	907
3	International Geomagnetic Reference Field: the thirteenth generation. Earth, Planets and Space, 2021, 73, .	0.9	319
4	The Swarm Satellite Constellation Application and Research Facility (SCARF) and Swarm data products. Earth, Planets and Space, 2013, 65, 1189-1200.	0.9	222
5	GRIMM: the GFZ Reference Internal Magnetic Model based on vector satellite and observatory data. Geophysical Journal International, 2008, 173, 382-394.	1.0	157
6	A spherical harmonic model of the lithospheric magnetic field of Mars. Journal of Geophysical Research E: Planets, 2014, 119, 1162-1188.	1.5	157
7	The 10th-Generation International Geomagnetic Reference Field. Geophysical Journal International, 2005, 161, 561-565.	1.0	104
8	The 10th generation international geomagnetic reference field. Physics of the Earth and Planetary Interiors, 2005, 151, 320-322.	0.7	100
9	Building the second version of the World Digital Magnetic Anomaly Map (WDMAM). Earth, Planets and Space, 2016, 68, .	0.9	94
10	The second generation of the GFZ Reference Internal Magnetic Model: GRIMM-2. Earth, Planets and Space, 2010, 62, 765-773.	0.9	92
11	An improved geomagnetic data selection algorithm for global geomagnetic field modelling. Geophysical Journal International, 2007, 169, 951-963.	1.0	79
12	The Swarm Initial Field Model for the 2014 geomagnetic field. Geophysical Research Letters, 2015, 42, 1092-1098.	1.5	77
13	Grid Euler deconvolution with constraints for 2D structures. Geophysics, 2004, 69, 489-496.	1.4	71
14	Evaluation of candidate geomagnetic field models for IGRF-12. Earth, Planets and Space, 2015, 67, .	0.9	66
15	The Swarm End-to-End mission simulator study: A demonstration of separating the various contributions to Earth's magnetic field using synthetic data. Earth, Planets and Space, 2006, 58, 359-370.	0.9	62
16	Challenges Handling Magnetospheric and Ionospheric Signals in Internal Geomagnetic Field Modelling. Space Science Reviews, 2017, 206, 157-189.	3.7	57
17	Geomagnetic field residuals from CHAMP satellite: essential for revealing unmodelled sources. Arabian Journal of Geosciences, 2018, 11, 1.	0.6	57
18	Are geomagnetic data consistent with stably stratified flow at the core–mantle boundary?. Geophysical Journal International, 2015, 201, 929-946.	1.0	54

#	Article	IF	CITATIONS
19	The 9th-Generation International Geomagnetic Reference Field. Geophysical Journal International, 2003, 155, 1051-1056.	1.0	47
20	Crustal Magnetic Fields of Terrestrial Planets. Space Science Reviews, 2010, 152, 223-249.	3.7	46
21	Modelling the Earth's core magnetic field under flow constraints. Earth, Planets and Space, 2010, 62, 503-516.	0.9	46
22	Geomagnetic Core Field Secular Variation Models. Space Science Reviews, 2010, 155, 129-145.	3.7	44
23	Introducing localized constraints in global geomagnetic field modelling. Earth, Planets and Space, 2006, 58, 477-483.	0.9	43
24	Timescales of geomagnetic secular acceleration in satellite field models and geodynamo models. Geophysical Journal International, 2012, 190, 243-254.	1.0	43
25	In-flight scalar calibration and characterisation of the Swarm magnetometry package. Earth, Planets and Space, 2016, 68, .	0.9	42
26	Geomagnetic Observations and Models. , 2011, , .		42
27	Parent magnetic field models for the IGRF-12GFZ-candidates. Earth, Planets and Space, 2015, 67, .	0.9	35
28	Global equivalent magnetization of the oceanic lithosphere. Earth and Planetary Science Letters, 2015, 430, 54-65.	1.8	35
29	GeoForschungsZentrum Anomaly Magnetic Map (GAMMA): A candidate model for the World Digital Magnetic Anomaly Map. Geochemistry, Geophysics, Geosystems, 2007, 8, n/a-n/a.	1.0	34
30	Recent changes of the Earth's core derived from satellite observations of magnetic and gravity fields. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19129-19133.	3.3	33
31	Modeling and Predicting the Shortâ€Term Evolution of the Geomagnetic Field. Journal of Geophysical Research: Solid Earth, 2018, 123, 4539-4560.	1.4	33
32	Evaluation of candidate models for the 13th generation International Geomagnetic Reference Field. Earth, Planets and Space, 2021, 73, .	0.9	33
33	A global lithospheric magnetic field model with reduced noise level in the Polar Regions. Geophysical Research Letters, 2006, 33, .	1.5	29
34	Post-processing scheme for modelling the lithospheric magnetic field. Solid Earth, 2013, 4, 105-118.	1.2	29
35	Wavelet characterization of external magnetic sources as observed by CHAMP satellite: evidence for unmodelled signals in geomagnetic field models. Geophysical Journal International, 2013, 192, 946-950.	1.0	28
36	Constraining the Date of the Martian Dynamo Shutdown by Means of Crater Magnetization Signatures. Journal of Geophysical Research E: Planets, 2017, 122, 2294-2311.	1.5	28

#	Article	IF	CITATIONS
37	Sequential modelling of the Earthâ \in $^{ m Ms}$ s core magnetic field. Earth, Planets and Space, 2020, 72, .	0.9	28
38	The Kalmag model as a candidate for IGRF-13. Earth, Planets and Space, 2020, 72, .	0.9	28
39	The satellite along-track analysis in planetary magnetism. Geophysical Journal International, 2012, 188, 891-907.	1.0	27
40	On the frequency spectra of the core magnetic field Gauss coefficients. Physics of the Earth and Planetary Interiors, 2018, 276, 145-158.	0.7	27
41	Space weather effects on drilling accuracy in the North Sea. Annales Geophysicae, 2005, 23, 3081-3088.	0.6	26
42	An extended version of the C3FM geomagnetic field model: application of a continuous frozen-flux constraint. Geophysical Journal International, 2012, 189, 1409-1429.	1.0	25
43	A magnetic field model with daily variations of the magnetospheric field and its induced counterpart in 2001. Geophysical Journal International, 2004, 160, 79-88.	1.0	24
44	Correlationâ€based modeling and separation of geomagnetic field components. Journal of Geophysical Research: Solid Earth, 2016, 121, 3142-3160.	1.4	24
45	Magnetic potential, vector and gradient tensor fields of a tesseroid in a geocentric spherical coordinate system. Geophysical Journal International, 2015, 201, 1977-2007.	1.0	23
46	An algorithm for deriving core magnetic field models from the Swarm data set. Earth, Planets and Space, 2013, 65, 1223-1231.	0.9	22
47	On the accuracy of palaeopole estimations from magnetic field measurements. Geophysical Journal International, 2017, 211, 1669-1678.	1.0	21
48	Rapid Variations of Earth's Core Magnetic Field. Surveys in Geophysics, 2022, 43, 41-69.	2.1	21
49	Exact solutions for internally induced magnetization in a shell. Geophysical Journal International, 2000, 140, 453-459.	1.0	20
50	Using geomagnetic secular variation to separate remanent and induced sources of the crustal magnetic field. Geophysical Journal International, 2000, 142, 889-897.	1.0	19
51	The flow at the Earth's coreâ€mantle boundary under weak prior constraints. Journal of Geophysical Research: Solid Earth, 2016, 121, 1343-1364.	1.4	19
52	2-D and 3-D interpretation of electrical tomography measurements, Part 2: The inverse problem. Geophysics, 1999, 64, 396-402.	1.4	18
53	A technique for estimating the absolute vector geomagnetic field from a marine vessel. Journal of Geophysics and Engineering, 2004, 1, 109-115.	0.7	17
54	Ninth generation international geomagnetic reference field released. Eos, 2003, 84, 503-503.	0.1	16

#	Article	IF	CITATIONS
55	The 9th Generation International Geomagnetic Reference Field. Earth, Planets and Space, 2003, 55, i-ii.	0.9	15
56	Magnetic Field Data Correction in Space for Modelling the Lithospheric Magnetic Field. Space Science Reviews, 2017, 206, 191-223.	3.7	15
57	Evaluation of fast spherical transforms for geophysical applications. Geophysical Journal International, 1999, 139, 547-555.	1.0	14
58	The BGS magnetic field candidate models for the 10th generation IGRF. Earth, Planets and Space, 2005, 57, 1157-1163.	0.9	14
59	Simple models for the Beattie Magnetic Anomaly in South Africa. Tectonophysics, 2009, 478, 111-118.	0.9	13
60	Radial vorticity constraint in core flow modeling. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	13
61	Bayesian inversion for the filtered flow at the Earth's coreâ€mantle boundary. Journal of Geophysical Research: Solid Earth, 2014, 119, 2695-2720.	1.4	13
62	Geomagnetic effects of the Earth's ellipticity. Geophysical Journal International, 1999, 138, 285-289.	1.0	11
63	The 9th Generation International Geomagnetic Reference Field. Physics of the Earth and Planetary Interiors, 2003, 140, 253-254.	0.7	10
64	Estimating error statistics for Chambon-la-Forêt observatory definitive data. Annales Geophysicae, 2017, 35, 939-952.	0.6	10
65	A candidate secular variation model for IGRF-13 based on MHD dynamo simulation and 4DEnVar data assimilation. Earth, Planets and Space, 2020, 72, .	0.9	10
66	2-D and 3-D interpretation of electrical tomography measurements, Part 1: The forward problem. Geophysics, 1999, 64, 386-395.	1.4	9
67	On the feasibility of routine baseline improvement in processing of geomagnetic observatory data. Earth, Planets and Space, 2018, 70, .	0.9	9
68	A secular variation candidate model for IGRF-13 based on Swarm data and ensemble inverse geodynamo modelling. Earth, Planets and Space, 2021, 73, .	0.9	9
69	Geomagnetic Core Field Models in the Satellite Era. , 2011, , 277-294.		9
70	Aeromagnetic and Marine Measurements. , 2011, , 57-103.		9
71	Regional modelling of the Southern African geomagnetic field using harmonic splines. Geophysical Journal International, 2010, , .	1.0	8
72	Non-singular spherical harmonic expressions of geomagnetic vector and gradient tensor fields in the local north-oriented reference frame. Geoscientific Model Development, 2015, 8, 1979-1990.	1.3	8

#	Article	IF	CITATIONS
73	Unveiling Earth's Hidden Magnetization. Geophysical Research Letters, 2018, 45, 12,283-12,292.	1.5	8
74	Making a Better Magnetic Map. Eos, 2016, 97, .	0.1	8
75	Comment on "Can coreâ€surface flow models be used to improve the forecast of the Earth's main magnetic field?―by Stefan Maus, Luis Silva, and Gauthier Hulot. Journal of Geophysical Research, 2009, 114, .	3.3	7
76	Mars' Crustal Magnetic Field. Astrophysics and Space Science Library, 2018, , 331-356.	1.0	7
77	SOUTHERN AFRICAN GEOMAGNETIC SECULAR VARIATION FROM 2005 TO 2009. South African Journal of Geology, 2011, 114, 515-524.	0.6	6
78	The Earth's Magnetic Field at the CHAMP Satellite Epoch. Advanced Technologies in Earth Sciences, 2010, , 475-526.	0.9	6
79	Deriving main field and secular variation models from synthetic Swarm satellite and observatory data. Earth, Planets and Space, 2006, 58, 409-416.	0.9	5
80	Retrieving lithospheric magnetisation distribution from magnetic field models. Geophysical Journal International, 0, , .	1.0	4
81	Crustal Magnetic Fields of Terrestrial Planets. Space Sciences Series of ISSI, 2009, , 223-249.	0.0	4
82	Physics-based secular variation candidate models for the IGRF. Earth, Planets and Space, 2021, 73, .	0.9	4
83	Challenges Handling Magnetospheric and Ionospheric Signals in Internal Geomagnetic Field Modelling. Space Sciences Series of ISSI, 2018, , 161-193.	0.0	3
84	Geomagnetic secular variation violating the frozen-flux condition at the core surface. Earth, Planets and Space, 2010, 62, 693-709.	0.9	2
85	Modeling of the Ionospheric Current System and Calculating Its Contribution to the Earth's Magnetic Field. Astrophysics and Space Science Library, 2018, , 263-292.	1.0	2
86	Geomagnetic Core Field Secular Variation Models. Space Sciences Series of ISSI, 2009, , 129-145.	0.0	2
87	Magnetic Modeling, Theory and Computation. Encyclopedia of Earth Sciences Series, 2011, , 781-792.	0.1	2
88	On the azimuthally dependent contribution of crustal magnetization to the magnetic field. Geophysical Journal International, 2000, 142, 991-994.	1.0	1
89	Time-stamp correction of magnetic observatory data acquired during unavailability of time-synchronization services. Geoscientific Instrumentation, Methods and Data Systems, 2017, 6, 311-317.	0.6	1
90	Repeat station data compared to a global geomagnetic field model. Annals of Geophysics, 2013, 55, .	0.5	1

#	Article	IF	CITATIONS
91	Magnetic Modeling, Theory, and Computation. Encyclopedia of Earth Sciences Series, 2020, , 1-15.	0.1	1
92	Alternative Parameterisations of the External Magnetic Field and its Induced Counterpart for 2001 and 2002 Using Ã [~] rsted, Champ and Observatory Data. , 2005, , 299-304.		0
93	The Global Lithospheric Magnetic Field. , 2019, , 133-140.		0
94	Magnetic Modeling, Theory, and Computation. Encyclopedia of Earth Sciences Series, 2021, , 1015-1029.	0.1	0
95	Geomagnetic field evolution. Changes on the way?. Russian Journal of Earth Sciences, 2010, 11, 1-8.	0.2	0
96	Magnetic Field Data Correction in Space for Modelling the Lithospheric Magnetic Field. Space Sciences Series of ISSI, 2018, , 195-227.	0.0	0