Alan W P Thomson

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6069704/publications.pdf

Version: 2024-02-01

27 papers	2,222 citations	394421 19 h-index	552781 26 g-index
28 all docs	28 docs citations	28 times ranked	2747 citing authors

#	Article	IF	Citations
1	International Geomagnetic Reference Field: the 12th generation. Earth, Planets and Space, 2015, 67, .	2.5	1,015
2	Generation of 100â€year geomagnetically induced current scenarios. Space Weather, 2012, 10, .	3.7	188
3	Quantifying extreme behavior in geomagnetic activity. Space Weather, 2011, 9, .	3.7	127
4	Quantifying the daily economic impact of extreme space weather due to failure in electricity transmission infrastructure. Space Weather, 2017, 15, 65-83.	3.7	103
5	Surface electric fields and geomagnetically induced currents in the Scottish Power grid during the 30 October 2003 geomagnetic storm. Space Weather, 2005, 3, n/a-n/a.	3.7	98
6	Prediction of extreme geomagnetically induced currents in the UK highâ€voltage network. Space Weather, 2013, 11, 407-419.	3.7	84
7	Understanding GIC in the UK and French highâ€voltage transmission systems during severe magnetic storms. Space Weather, 2017, 15, 99-114.	3.7	61
8	Geomagnetically induced currents in the UK: geomagnetic variations and surface electric fields. Journal of Atmospheric and Solar-Terrestrial Physics, 2002, 64, 1779-1792.	1.6	56
9	Present day challenges in understanding the geomagnetic hazard to national power grids. Advances in Space Research, 2010, 45, 1182-1190.	2.6	50
10	Geomagnetically induced currents in the Irish power network during geomagnetic storms. Space Weather, 2016, 14, 1136-1154.	3.7	48
11	Longâ€Term Geomagnetically Induced Current Observations From New Zealand: Peak Current Estimates for Extreme Geomagnetic Storms. Space Weather, 2017, 15, 1447-1460.	3.7	44
12	Longâ€term geomagnetically induced current observations in New Zealand: Earth return corrections and geomagnetic field driver. Space Weather, 2017, 15, 1020-1038.	3.7	43
13	A Risk Assessment Framework for the Socioeconomic Impacts of Electricity Transmission Infrastructure Failure Due to Space Weather: An Application to the United Kingdom. Risk Analysis, 2019, 39, 1022-1043.	2.7	43
14	Development of Space Weather Reasonable Worstâ€Case Scenarios for the UK National Risk Assessment. Space Weather, 2021, 19, e2020SW002593.	3.7	41
15	Modeling Geoelectric Fields and Geomagnetically Induced Currents Around New Zealand to Explore GIC in the South Island's Electrical Transmission Network. Space Weather, 2017, 15, 1396-1412.	3.7	35
16	A global climatological model of extreme geomagnetic field fluctuations. Journal of Space Weather and Space Climate, 2020, 10, 5.	3.3	35
17	Transformerâ€Level Modeling of Geomagnetically Induced Currents in New Zealand's South Island. Space Weather, 2018, 16, 718-735.	3.7	34
18	A Detailed Model of the Irish High Voltage Power Network for Simulating GICs. Space Weather, 2018, 16, 1770-1783.	3.7	23

#	Article	IF	Citations
19	EUropean Heliospheric FORecasting Information Asset 2.0. Journal of Space Weather and Space Climate, 2020, 10, 57.	3.3	21
20	Geomagnetically Induced Current Model Validation From New Zealand's South Island. Space Weather, 2020, 18, e2020SW002494.	3.7	20
21	Differential Magnetometer Measurements of Geomagnetically Induced Currents in a Complex High Voltage Network. Space Weather, 2020, 18, e2019SW002421.	3.7	19
22	Geolectric field measurement, modelling and validation during geomagnetic storms in the UK. Journal of Space Weather and Space Climate, 2021, 11, 37.	3.3	16
23	Geomagnetically induced currents during the 07â€“08 September 2017 disturbed period: a global perspective. Journal of Space Weather and Space Climate, 2021, 11, 33.	3.3	11
24	On the Considerations of Using Near Real Time Data for Space Weather Hazard Forecasting. Space Weather, 2022, 20, .	3.7	5
25	From SWIGS to SWIMMR. Astronomy and Geophysics, 2021, 62, 5.30-5.33.	0.2	1
26	Probabilistic hazard assessment: Application to geomagnetic activity. Journal of Space Weather and Space Climate, 2022, 12, 4.	3.3	1
27	Towards GIC forecasting: Statistical downscaling of the geomagnetic field to improve geoelectric field forecasts. Space Weather, 0, , e2021SW002903.	3.7	0