

# Chigomezyo M Ngwira

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1677588/publications.pdf>

Version: 2024-02-01

33  
papers

1,280  
citations

430874

18  
h-index

377865

34  
g-index

39  
all docs

39  
docs citations

39  
times ranked

1060  
citing authors

#	ARTICLE	IF	CITATIONS
1	A major solar eruptive event in July 2012: Defining extreme space weather scenarios. <i>Space Weather</i> , 2013, 11, 585-591.	3.7	189
2	Geomagnetically induced currents: Science, engineering, and applications readiness. <i>Space Weather</i> , 2017, 15, 828-856.	3.7	149
3	Simulation of the 23 July 2012 extreme space weather event: What if this extremely rare CME was Earth directed?. <i>Space Weather</i> , 2013, 11, 671-679.	3.7	87
4	Characteristics of extreme geoelectric fields and their possible causes: Localized peak enhancements. <i>Geophysical Research Letters</i> , 2015, 42, 6916-6921.	4.0	80
5	Extended study of extreme geoelectric field event scenarios for geomagnetically induced current applications. <i>Space Weather</i> , 2013, 11, 121-131.	3.7	77
6	Modeling extreme Carrington-type space weather events using three-dimensional global MHD simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 4456-4474.	2.4	74
7	Model Evaluation Guidelines for Geomagnetic Index Predictions. <i>Space Weather</i> , 2018, 16, 2079-2102.	3.7	62
8	Regional-scale high-latitude extreme geoelectric fields pertaining to geomagnetically induced currents. <i>Earth, Planets and Space</i> , 2015, 67, .	2.5	60
9	Improved modeling of geomagnetically induced currents in the South African power network. <i>Space Weather</i> , 2008, 6, .	3.7	59
10	Geomagnetically Induced Currents Caused by Interplanetary Shocks With Different Impact Angles and Speeds. <i>Space Weather</i> , 2018, 16, 636-647.	3.7	58
11	A Study of Intense Local dB/dt Variations During Two Geomagnetic Storms. <i>Space Weather</i> , 2018, 16, 676-693.	3.7	52
12	An investigation of ionospheric disturbances over South Africa during the magnetic storm on 15 May 2005. <i>Advances in Space Research</i> , 2012, 49, 327-335.	2.6	33
13	Ionospheric observations during the geomagnetic storm events on 24–27 July 2004: Long duration positive storm effects. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	30
14	Geomagnetically Induced Currents: Principles. <i>Brazilian Journal of Physics</i> , 2017, 47, 552-560.	1.4	30
15	Limitations of the modeling of geomagnetically induced currents in the South African power network. <i>Space Weather</i> , 2009, 7, .	3.7	29
16	Recommendations for Next-Generation Ground Magnetic Perturbation Validation. <i>Space Weather</i> , 2018, 16, 1912-1920.	3.7	27
17	Dynamic Response of Ionospheric Plasma Density to the Geomagnetic Storm of 22–23 June 2015. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 7123-7139.	2.4	22
18	The interplanetary and magnetospheric causes of extreme dB/dt at equatorial locations. <i>Geophysical Research Letters</i> , 2016, 43, 11,501.	4.0	21

#	ARTICLE	IF	CITATIONS
19	Responses of equatorial region to different geomagnetic storms observed by GPS in the African sector. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	16
20	Geomagnetic activity indicators for geomagnetically induced current studies in South Africa. <i>Advances in Space Research</i> , 2011, 48, 529-534.	2.6	16
21	Exploring the Influence of Lateral Conductivity Contrasts on the Storm Time Behavior of the Ground Electric Field in the Eastern United States. <i>Space Weather</i> , 2020, 18, e2019SW002216.	3.7	14
22	The Tsallis statistical distribution applied to geomagnetically induced currents. <i>Space Weather</i> , 2017, 15, 1094-1101.	3.7	12
23	Revisiting the Ground Magnetic Field Perturbations Challenge: A Machine Learning Perspective. <i>Frontiers in Astronomy and Space Sciences</i> , 2022, 9, .	2.8	11
24	A study of intense ionospheric scintillation observed during a quiet day in the East African low-latitude region. <i>Radio Science</i> , 2013, 48, 396-405.	1.6	9
25	Impact Angle Control of Local Intense dB/dt Variations During Shock-Induced Substorms. <i>Space Weather</i> , 2021, 19, .	3.7	9
26	Auroral E-Region as a Source Region for Ionospheric Scintillation. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029212.	2.4	7
27	Multi-Variate LSTM Prediction of Alaska Magnetometer Chain Utilizing a Coupled Model Approach. <i>Frontiers in Astronomy and Space Sciences</i> , 2022, 9, .	2.8	6
28	An Overview of Science Challenges Pertaining to Our Understanding of Extreme Geomagnetically Induced Currents. , 2018, , 187-208.		5
29	Geomagnetically Induced Currents at Middle Latitudes: 1. Quiet-Time Variability. <i>Space Weather</i> , 2022, 20, e2021SW002729.	3.7	4
30	Equatorward Medium to Large-Scale Traveling Ionospheric Disturbances of High Latitude Origin During Quiet Conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	2.4	4
31	Revealing Novel Connections Between Space Weather and the Power Grid: Network Analysis of Ground-Based Magnetometer and Geomagnetically Induced Currents (GIC) Measurements. <i>Space Weather</i> , 2022, 20, .	3.7	3
32	Reply to Comments by Tsurutani et al. on "Modeling Extreme Carrington-Type Space Weather Events Using Three-Dimensional Global MHD Simulations". <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 1393-1395.	2.4	2
33	A Statistical Study of Poleward Traveling Ionospheric Disturbances Over the African and American Sectors During Geomagnetic Storms. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	2.4	0