

# Ryan M Mcgranaghan

## List of Publications by Year in descending order

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Version: 2024-02-01

31  
papers

447  
citations

840776

11  
h-index

752698

20  
g-index

43  
all docs

43  
docs citations

43  
times ranked

566  
citing authors

#	ARTICLE	IF	CITATIONS
1	Geomagnetically Induced Currents at Middle Latitudes: 1. Quietâ€Time Variability. Space Weather, 2022, 20, e2021SW002729.	3.7	4
2	Revealing Novel Connections Between Space Weather and the Power Grid: Network Analysis of Groundâ€Based Magnetometer and Geomagnetically Induced Currents (GIC) Measurements. Space Weather, 2022, 20, .	3.7	3
3	Global Geomagnetic Perturbation Forecasting Using Deep Learning. Space Weather, 2022, 20, .	3.7	2
4	Toward a Next Generation Particle Precipitation Model: Mesoscale Prediction Through Machine Learning (a Case Study and Framework for Progress). Space Weather, 2021, 19, e2020SW002684.	3.7	15
5	Forecasting Occurrence and Intensity of Geomagnetic Activity With Patternâ€Matching Approaches. Space Weather, 2021, 19, e2020SW002624.	3.7	7
6	Critical Risk Indicators (CRIs) for the electric power grid: a survey and discussion of interconnected effects. Environment Systems and Decisions, 2021, 41, 594-615.	3.4	9
7	Space Weather research in the Digital Age and across the full data lifecycle: Introduction to the Topical Issue. Journal of Space Weather and Space Climate, 2021, 11, 50.	3.3	10
8	Harnessing expressive capacity of Machine Learning modeling to represent complex coupling of Earthâ€™s auroral space weather regimes. , 2021, , .		0
9	Evaluation of Total Electron Content Prediction Using Three Ionosphereâ€Thermosphere Models. Space Weather, 2020, 18, e2020SW002452.	3.7	6
10	Geomagnetic Stormâ€Induced Plasma Density Enhancements in the Southern Polar Ionospheric Region: A Comparative Study Using St. Patrick's Day Storms of 2013 and 2015. Space Weather, 2020, 18, e2019SW002383.	3.7	14
11	Impacts of Multiscale FACs on the Ionosphereâ€Thermosphere System: GITM Simulation. Journal of Geophysical Research: Space Physics, 2019, 124, 3532-3542.	2.4	8
12	Application usability levels: a framework for tracking project product progress. Journal of Space Weather and Space Climate, 2019, 9, A34.	3.3	13
13	Eight Lessons I Learned Leading a Scientific â€œDesign Sprintâ€ Eos, 2019, 100, .	0.1	1
14	New Capabilities for Prediction of Highâ€Latitude Ionospheric Scintillation: A Novel Approach With Machine Learning. Space Weather, 2018, 16, 1817-1846.	3.7	49
15	On the role of neutral flow in field-aligned currents. Annales Geophysicae, 2018, 36, 53-57.	1.6	3
16	Selfâ€Consistent Modeling of Electron Precipitation and Responses in the Ionosphere: Application to Lowâ€Altitude Energization During Substorms. Geophysical Research Letters, 2018, 45, 6371-6381.	4.0	25
17	Semianalytical Estimation of Energy Deposition in the Ionosphere by Monochromatic AlfvÃ©n Waves. Journal of Geophysical Research: Space Physics, 2018, 123, 5210-5222.	2.4	12
18	How Do We Accomplish System Science in Space?. Eos, 2018, 99, .	0.1	2

#	ARTICLE	IF	CITATIONS
19	Finding multiscale connectivity in our geospace observational system: Network analysis of total electron content. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 7683-7697.	2.4	12
20	Ushering in a New Frontier in Geospace Through Data Science. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 12,586.	2.4	28
21	A Comprehensive Analysis of Multiscale Field-Aligned Currents: Characteristics, Controlling Parameters, and Relationships. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 11,931.	2.4	33
22	Gaining the most utility from our geospace observational system: Network analysis of total electron content as a means to understand space weather to the point of prediction. , 2017, , .		0
23	High-latitude ionospheric conductivity variability in three dimensions. <i>Geophysical Research Letters</i> , 2016, 43, 7867-7877.	4.0	14
24	Optimal interpolation analysis of high-latitude ionospheric Hall and Pedersen conductivities: Application to assimilative ionospheric electrodynamics reconstruction. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 4898-4923.	2.4	32
25	A fast, parameterized model of upper atmospheric ionization rates, chemistry, and conductivity. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 4936-4949.	2.4	18
26	Modes of high-latitude auroral conductance variability derived from DMSP energetic electron precipitation observations: Empirical orthogonal function analysis. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 11,013.	2.4	37
27	Lunar far side surface navigation using Linked Autonomous Interplanetary Satellite Orbit Navigation (LiAISON). <i>Acta Astronautica</i> , 2015, 117, 116-129.	3.2	24
28	Impact of equinoctial high-speed stream structures on thermospheric responses. <i>Space Weather</i> , 2014, 12, 277-297.	3.7	20
29	Design of a low cost mission to the Neptunian system. , 2014, , .		2
30	Navigation Between Geosynchronous and Lunar L1 Orbiters. , 2012, , .		7
31	LiAISON-Supplemented Navigation for Geosynchronous and Lunar L1 Orbiters. , 2012, , .		5