

Matina Gkioulidou

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

69

papers

1,520

citations

23

h-index

36

g-index

74

ext. papers

1,812

ext. citations

3.3

avg, IF

4.39

L-index

#	Paper	IF	Citations
69	Van Allen probes, NOAA, GOES, and ground observations of an intense EMIC wave event extending over 12 h in magnetic local time. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 5465-5488	2.6	105
68	Global simulation of EMIC wave excitation during the 21 April 2001 storm from coupled RCM-RAM-HOTRAY modeling. <i>Journal of Geophysical Research</i> , 2010 , 115,		91
67	Energetic electron injections deep into the inner magnetosphere associated with substorm activity. <i>Geophysical Research Letters</i> , 2015 , 42, 2079-2087	4.9	85
66	Spatial distributions of the ion to electron temperature ratio in the magnetosheath and plasma sheet. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		81
65	The role of small-scale ion injections in the buildup of Earth's ring current pressure: Van Allen Probes observations of the 17 March 2013 storm. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 7327-7342	2.6	75
64	Interstellar Mapping and Acceleration Probe (IMAP): A New NASA Mission. <i>Space Science Reviews</i> , 2018 , 214, 1	7.5	59
63	Auroral particle precipitation characterized by the substorm cycle. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 1022-1039	2.6	53
62	Formation of the Harang reversal and its dependence on plasma sheet conditions: Rice convection model simulations. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		48
61	The source of O ⁺ in the storm time ring current. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 5333-5349	2.6	47
60	Spatial distributions of ions and electrons from the plasma sheet to the inner magnetosphere: Comparisons between THEMIS-Geotail statistical results and the Rice convection model. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		47
59	Investigating the source of near-relativistic and relativistic electrons in Earth's inner radiation belt. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 695-710	2.6	40
58	The relationship between the macroscopic state of electrons and the properties of chorus waves observed by the Van Allen Probes. <i>Geophysical Research Letters</i> , 2016 , 43, 7804-7812	4.9	40
57	Spatial structure and temporal evolution of energetic particle injections in the inner magnetosphere during the 14 July 2013 substorm event. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 1924-1938	2.6	39
56	Storm time dynamics of ring current protons: Implications for the long-term energy budget in the inner magnetosphere. <i>Geophysical Research Letters</i> , 2016 , 43, 4736-4744	4.9	35
55	Van Allen Probes investigation of the large-scale duskward electric field and its role in ring current formation and plasmasphere erosion in the 1 June 2013 storm. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 4531-4543	2.6	32
54	The Composition of Plasma inside Geostationary Orbit Based on Van Allen Probes Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 6478-6493	2.6	31
53	Ion Trapping and Acceleration at Dipolarization Fronts: High-Resolution MHD and Test-Particle Simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 5580-5589	2.6	31

52	Ion acceleration at dipolarization fronts in the inner magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 3040-3054	2.6	30
51	BARREL observations of an ICME-shock impact with the magnetosphere and the resultant radiation belt electron loss. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 2557-2570	2.6	28
50	Multipoint Observations of Energetic Particle Injections and Substorm Activity During a Conjunction Between Magnetospheric Multiscale (MMS) and Van Allen Probes. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 11,481-11,504	2.6	23
49	Global Empirical Picture of Magnetospheric Substorms Inferred From Multimission Magnetometer Data. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 1085-1110	2.6	23
48	The Relationship Between EMIC Wave Properties and Proton Distributions Based on Van Allen Probes Observations. <i>Geophysical Research Letters</i> , 2019 , 46, 4070-4078	4.9	23
47	Effect of self-consistent magnetic field on plasma sheet penetration to the inner magnetosphere: Rice convection model simulations combined with modified Dungey force-balanced magnetic field solver. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		23
46	The role of convection in the buildup of the ring current pressure during the 17 March 2013 storm. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 475-492	2.6	22
45	The Characteristic Pitch Angle Distributions of 1EeV to 600keV Protons Near the Equator Based On Van Allen Probes Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 9464-9473	2.6	21
44	Simulation of the acceleration of relativistic electrons in the inner magnetosphere using RCM-VERB coupled codes. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		20
43	Oxygen Ion Dynamics in the Earth's Ring Current: Van Allen Probes Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 7786-7798	2.6	19
42	Effect of an MLT dependent electron loss rate on the magnetosphere-ionosphere coupling. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		18
41	Low-Energy (. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 405-419	2.6	18
40	The 17 March 2013 storm: Synergy of observations related to electric field modes and their ionospheric and magnetospheric Effects. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 10,880 ^{2,6}	2.6	17
39	Spatial Development of the Dipolarization Region in the Inner Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 5452-5463	2.6	17
38	Connections between plasma sheet transport, Region 2 currents, and entropy changes associated with convection, steady magnetospheric convection periods, and substorms. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		17
37	High energy particle transport in stochastic magnetic fields in the solar corona. <i>Astronomy and Astrophysics</i> , 2007 , 462, 1113-1120	5.1	16
36	Link between premidnight second harmonic poloidal waves and auroral undulations: Conjugate observations with a Van Allen Probe spacecraft and a THEMIS all-sky imager. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 1814-1831	2.6	14
35	The "Puck" energetic charged particle detector: Design, heritage, and advancements. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 7900-7913	2.6	13

34	Energization of the Ring Current by Substorms. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 8131-8148	2.6	13
33	Energetic Ion Injections Inside Geosynchronous Orbit: Convection- and Drift-Dominated, Charge-Dependent Adiabatic Energization (\mathbb{E}). <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 6360-6382	2.6	13
32	Spatial Distribution of Plasma Sheet Entropy Reduction Caused by a Plasma Bubble: Rice Convection Model Simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 3380-3397	2.6	12
31	Response of Different Ion Species to Local Magnetic Dipolarization Inside Geosynchronous Orbit. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 5420-5434	2.6	11
30	Initial measurements of O-ion and He-ion decay rates observed from the Van Allen probes RBSPICE instrument. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 8813-8819	2.6	11
29	Three-Step Buildup of the 17 March 2015 Storm Ring Current: Implication for the Cause of the Unexpected Storm Intensification. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 414-428	2.6	10
28	Auroral Disturbances as a Manifestation of Interplay Between Large-Scale and Mesoscale Structure of Magnetosphere-Ionosphere Electrodynamical Coupling. <i>Geophysical Monograph Series</i> , 2013 , 193-204 ^{1.1}	1.1	10
27	Magnetospheric Studies: A Requirement for Addressing Interdisciplinary Mysteries in the Ice Giant Systems. <i>Space Science Reviews</i> , 2020 , 216, 1	7.5	10
26	Storm time impulsive enhancements of energetic oxygen due to adiabatic acceleration of preexisting warm oxygen in the inner magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 7739-7752	2.6	10
25	Empirical Modeling of Extreme Events: Storm-Time Geomagnetic Field, Electric Current, and Pressure Distributions 2018 , 259-279		9
24	The Storm-Time Ring Current Response to ICMEs and CIRs Using Van Allen Probe Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 9017-9039	2.6	9
23	Quiet time observations of He ions in the inner magnetosphere as observed from the RBSPICE instrument aboard the Van Allen Probes mission. <i>Geophysical Research Letters</i> , 2014 , 41, 1100-1105	4.9	9
22	On the use of drift echoes to characterize on-orbit sensor discrepancies. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 2076-2087	2.6	8
21	Evidence of Microbursts Observed Near the Equatorial Plane in the Outer Van Allen Radiation Belt. <i>Geophysical Research Letters</i> , 2018 , 45, 8044-8053	4.9	8
20	The permeability of the magnetopause to a multispecies substorm injection of energetic particles. <i>Geophysical Research Letters</i> , 2016 , 43, 9453-9460	4.9	7
19	Combined ~10 eV to ~344 MeV Particle Spectra and Pressures in the Heliosheath along the Voyager 2 Trajectory. <i>Astrophysical Journal Letters</i> , 2020 , 905, L24	7.9	7
18	The Harang reversal and the interchange stability of the magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 3278-3292	2.6	6
17	Radial Transport of Higher-Energy Oxygen Ions Into the Deep Inner Magnetosphere Observed by Van Allen Probes. <i>Geophysical Research Letters</i> , 2018 , 45, 4534-4541	4.9	6

16	Statistical Study of Selective Oxygen Increase in High-Energy Ring Current Ions During Magnetic Storms. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 3193-3209	2.6	5
15	Substorm-Ring Current Coupling: A Comparison of Isolated and Compound Substorms. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 6776-6791	2.6	5
14	Interchange motion as a transport mechanism for formation of cold-dense plasma sheet. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 8318-8337	2.6	5
13	Nightside Magnetosphere-Ionosphere Current Circuit: Implications for Auroral Streamers and Pi2 Pulsations. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 350-363	2.6	4
12	Signature of a Heliotail Organized by the Solar Magnetic Field and the Role of Nonideal Processes in Modeled IBEX ENA Maps: A Comparison of the BU and Moscow MHD Models. <i>Astrophysical Journal</i> , 2021 , 921, 164	4.7	4
11	Storm Time Plasma Pressure Inferred From Multimission Measurements and Its Validation Using Van Allen Probes Particle Data. <i>Space Weather</i> , 2020 , 18, e2020SW002583	3.7	4
10	Void structure of O ⁺ ions in the inner magnetosphere observed by the Van Allen Probes. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 11,698-11,713	2.6	4
9	Heliospheric Maps from Cassini INCA Early in the Cruise to Saturn. <i>Astrophysical Journal Letters</i> , 2020 , 902, L45	7.9	3
8	The Role of Mesoscale Plasma Sheet Dynamics in Ring Current Formation. <i>Frontiers in Astronomy and Space Sciences</i> , 2021 , 8,	3.8	3
7	Pitch Angle Dependence of Electron and Ion Flux Changes During Local Magnetic Dipolarization Inside Geosynchronous Orbit. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027543	2.6	3
6	Generation and Evolution of Two Opposite Types of Mesoscale Plasma Sheet Bubbles. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA028072	2.6	3
5	Superposed Epoch Analysis of Dispersionless Particle Injections Inside Geosynchronous Orbit. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029546	2.6	2
4	The Development of a Split-tail Heliosphere and the Role of Non-ideal Processes: A Comparison of the BU and Moscow Models. <i>Astrophysical Journal</i> , 2021 , 923, 179	4.7	2
3	The in-situ exploration of Jupiter's radiation belts. <i>Experimental Astronomy</i> , 1	1.3	0
2	On the Energization of Pickup Ions Downstream of the Heliospheric Termination Shock by Comparing 0.52-5 keV Observed Energetic Neutral Atom Spectra to Ones Inferred from Proton Hybrid Simulations. <i>Astrophysical Journal Letters</i> , 2022 , 931, L21	7.9	0
1	A Multi-Instrument Study of a Dipolarization Event in the Inner Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029294	2.6	