

Matina Gkioulidou

List of Publications by Year in Descending Order

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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	On the Energization of Pickup Ions Downstream of the Heliospheric Termination Shock by Comparing 0.5285 keV Observed Energetic Neutral Atom Spectra to Ones Inferred from Proton Hybrid Simulations. <i>Astrophysical Journal Letters</i> , 2022 , 931, L21	7.9	0
68	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
67	The Role of Mesoscale Plasma Sheet Dynamics in Ring Current Formation. <i>Frontiers in Astronomy and Space Sciences</i> , 2021 , 8,	3.8	3
66	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	
65	Superposed Epoch Analysis of Dispersionless Particle Injections Inside Geosynchronous Orbit. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029546	2.6	2
64	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
63	Heliospheric Maps from Cassini INCA Early in the Cruise to Saturn. <i>Astrophysical Journal Letters</i> , 2020 , 902, L45	7.9	3
62	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
61	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
60	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
59	Magnetospheric Studies: A Requirement for Addressing Interdisciplinary Mysteries in the Ice Giant Systems. <i>Space Science Reviews</i> , 2020 , 216, 1	7.5	10
58	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
57	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
56	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
55	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
54	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
53	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

52	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
51	Low-Energy (. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 405-419	2.6	18
50	Empirical Modeling of Extreme Events: Storm-Time Geomagnetic Field, Electric Current, and Pressure Distributions 2018 , 259-279		9
49	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
48	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
47	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
46	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
45	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
44	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
43	Energization of the Ring Current by Substorms. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 8131-8148	2.6	13
42	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
41	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
40	Energetic Ion Injections Inside Geosynchronous Orbit: Convection- and Drift-Dominated, Charge-Dependent Adiabatic Energization (Ξ). <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 6360-6382	2.6	13
39	Interstellar Mapping and Acceleration Probe (IMAP): A New NASA Mission. <i>Space Science Reviews</i> , 2018 , 214, 1	7.5	59
38	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
37	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
36	Ion acceleration at dipolarization fronts in the inner magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 3040-3054	2.6	30
35	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

34	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
33	The Characteristic Pitch Angle Distributions of 100 keV to 600 keV 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
32	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	17
31	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
30	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
29	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
28	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
27	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
26	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
25	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
24	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
23	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
22	Energetic electron injections deep into the inner magnetosphere associated with substorm activity. <i>Geophysical Research Letters</i> , 2015 , 42, 2079-2087	4.9	85
21	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
20	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
19	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
18	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
17	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

16	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
15	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
14	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
13	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
12	Auroral particle precipitation characterized by the substorm cycle. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 1022-1039	2.6	53
11	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}		10
10	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
9	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
8	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
7	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
6	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
5	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
4	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
3	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
2	High energy particle transport in stochastic magnetic fields in the solar corona. <i>Astronomy and Astrophysics</i> , 2007 , 462, 1113-1120	5.1	16
1	The in-situ exploration of Jupiter's radiation belts. <i>Experimental Astronomy</i> , 1	1.3	0