

# M R Argall

## 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.

68

papers

2,135

citations

21

h-index

45

g-index

75

ext. papers

2,595

ext. citations

5.5

avg, IF

3.91

L-index

#	Paper	IF	Citations
68	Electron-scale measurements of magnetic reconnection in space. <i>Science</i> , <b>2016</b> , 352, aaf2939	33.3	418
67	The Space Physics Environment Data Analysis System (SPEDAS). <i>Space Science Reviews</i> , <b>2019</b> , 215, 9	7.5	205
66	Electron magnetic reconnection without ion coupling in Earth's turbulent magnetosheath. <i>Nature</i> , <b>2018</b> , 557, 202-206	50.4	173
65	Electron-scale dynamics of the diffusion region during symmetric magnetic reconnection in space. <i>Science</i> , <b>2018</b> , 362, 1391-1395	33.3	139
64	Ion-scale secondary flux ropes generated by magnetopause reconnection as resolved by MMS. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 4716-4724	4.9	80
63	Estimates of terms in Ohm's law during an encounter with an electron diffusion region. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 5918-5925	4.9	68
62	Currents and associated electron scattering and bouncing near the diffusion region at Earth's magnetopause. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 3042-3050	4.9	65
61	Electron jet of asymmetric reconnection. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 5571-5580	4.9	59
60	Properties of the Turbulence Associated with Electron-only Magnetic Reconnection in Earth's Magnetosheath. <i>Astrophysical Journal Letters</i> , <b>2019</b> , 877, L37	7.9	52
59	Observations of whistler mode waves with nonlinear parallel electric fields near the dayside magnetic reconnection separatrix by the Magnetospheric Multiscale mission. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 5909-5917	4.9	51
58	Magnetospheric Multiscale observations of large-amplitude, parallel, electrostatic waves associated with magnetic reconnection at the magnetopause. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 5626-5634	4.9	49
57	Spatiotemporal evolution of electron characteristics in the electron diffusion region of magnetic reconnection: Implications for acceleration and heating. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 2586-2593	4.9	49
56	The Electron Drift Instrument for MMS. <i>Space Science Reviews</i> , <b>2016</b> , 199, 283-305	7.5	42
55	Magnetic Reconnection, Turbulence, and Particle Acceleration: Observations in the Earth's Magnetotail. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 3338-3347	4.9	40
54	Higher-Order Turbulence Statistics in the Earth's Magnetosheath and the Solar Wind Using Magnetospheric Multiscale Observations. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 9941-9956	2.6	40
53	Whistler mode waves and Hall fields detected by MMS during a dayside magnetopause crossing. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 5943-5952	4.9	36
52	Drift waves, intense parallel electric fields, and turbulence associated with asymmetric magnetic reconnection at the magnetopause. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 2978-2986	4.9	35

51	Electron Scattering by High-frequency Whistler Waves at Earth's Bow Shock. <i>Astrophysical Journal Letters</i> , <b>2017</b> , 842, L11	7.9	29
50	Lower Hybrid Drift Waves and Electromagnetic Electron Space-Phase Holes Associated With Dipolarization Fronts and Field-Aligned Currents Observed by the Magnetospheric Multiscale Mission During a Substorm. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 12,236-12,257	2.6	24
49	Highly structured electron anisotropy in collisionless reconnection exhausts. <i>Geophysical Research Letters</i> , <b>2014</b> , 41, 5389-5395	4.9	24
48	New Insights into the Nature of Turbulence in the Earth's Magnetosheath Using Magnetospheric MultiScale Mission Data. <i>Astrophysical Journal</i> , <b>2018</b> , 859, 127	4.7	21
47	The nonlinear behavior of whistler waves at the reconnecting dayside magnetopause as observed by the Magnetospheric Multiscale mission: A case study. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 5487-5501	2.6	20
46	Magnetospheric Multiscale Mission observations and non-force free modeling of a flux transfer event immersed in a super-Alfvénic flow. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 6070-6077	4.9	20
45	Generation of Electron Whistler Waves at the Mirror Mode Magnetic Holes: MMS Observations and PIC Simulation. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 6383-6393	2.6	19
44	MMS, Van Allen Probes, GOES 13, and Ground-Based Magnetometer Observations of EMIC Wave Events Before, During, and After a Modest Interplanetary Shock. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 8331-8357	2.6	19
43	Polynomial Reconstruction of the Reconnection Magnetic Field Observed by Multiple Spacecraft. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2019JA027481	2.6	18
42	The Properties of Lion Roars and Electron Dynamics in Mirror Mode Waves Observed by the Magnetospheric MultiScale Mission. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 93-103	2.6	18
41	A SURVEY OF MAGNETIC WAVES EXCITED BY NEWBORN INTERSTELLAR He+OBSERVED BY THEACE SPACECRAFT AT 1 au. <i>Astrophysical Journal</i> , <b>2016</b> , 830, 47	4.7	17
40	Magnetic Waves Excited by Newborn Interstellar Pickup Ions Measured by the Voyager Spacecraft from 1 to 45 au. II. Instability and Turbulence Analyses. <i>Astrophysical Journal</i> , <b>2018</b> , 863, 76	4.7	17
39	Electron heating and energy inventory during asymmetric reconnection in a laboratory plasma. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 9264-9281	2.6	16
38	Magnetic Waves Excited by Newborn Interstellar Pickup Ions Measured by the Voyager Spacecraft from 1 to 45 au. I. Wave Properties. <i>Astrophysical Journal</i> , <b>2018</b> , 863, 75	4.7	16
37	ACE observations of magnetic waves arising from newborn interstellar pickup helium ions. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 9617-9623	4.9	15
36	Solar Wind Turbulence from 1 to 45 au. IV. Turbulent Transport and Heating of the Solar Wind Using Voyager Observations. <i>Astrophysical Journal</i> , <b>2020</b> , 900, 94	4.7	15
35	A New Method of 3-D Magnetic Field Reconstruction. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2019GL085542	4.9	14
34	Structure and Dissipation Characteristics of an Electron Diffusion Region Observed by MMS During a Rapid, Normal-Incidence Magnetopause Crossing. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 11,901-11,916	2.6	14

33	Solar Wind Turbulence from 1 to 45 au. III. Anisotropy of Magnetic Fluctuations in the Inertial Range Using Voyager and ACE Observations. <i>Astrophysical Journal</i> , <b>2020</b> , 900, 93	4.7	14
32	Magnetic Waves Excited by Newborn Interstellar Pickup Ions Measured by the Voyager Spacecraft from 1 to 45 au. III. Observation Times. <i>Astrophysical Journal, Supplement Series</i> , <b>2018</b> , 237, 34	8	14
31	Observation of Magnetic Waves Excited by Newborn Interstellar Pickup He <sup>+</sup> Observed by the Voyager 2 Spacecraft at 30 au. <i>Astrophysical Journal</i> , <b>2017</b> , 849, 61	4.7	12
30	Solar Wind Turbulence from 1 to 45 au. I. Evidence for Dissipation of Magnetic Fluctuations Using Voyager and ACE Observations. <i>Astrophysical Journal</i> , <b>2020</b> , 900, 91	4.7	12
29	A Survey of Plasma Waves Appearing Near Dayside Magnetopause Electron Diffusion Region Events. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 7837-7849	2.6	11
28	Solar Wind Turbulence from 1 to 45 au. II. Analysis of Inertial-range Fluctuations Using Voyager and ACE Observations. <i>Astrophysical Journal</i> , <b>2020</b> , 900, 92	4.7	11
27	Electron Inflow Velocities and Reconnection Rates at Earth's Magnetopause and Magnetosheath. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL089082	4.9	11
26	Electron Scattering by Low-frequency Whistler Waves at Earth's Bow Shock. <i>Astrophysical Journal</i> , <b>2019</b> , 886, 53	4.7	11
25	Observations of Low-Frequency Magnetic Waves due to Newborn Interstellar Pickup Ions Using ACE, Ulysses, and Voyager Data. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 900, 012018	0.3	10
24	Electron Dynamics Within the Electron Diffusion Region of Asymmetric Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 146-162	2.6	9
23	Multipoint MMS observations of fine-scale SAPS structure in the inner magnetosphere. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 7294-7300	4.9	8
22	MMS SITL Ground Loop: Automating the Burst Data Selection Process. <i>Frontiers in Astronomy and Space Sciences</i> , <b>2020</b> , 7, 54	3.8	8
21	Differing Properties of Two Ion-Scale Magnetopause Flux Ropes. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 114-131	2.6	7
20	Hodographic approach for determining spacecraft trajectories through magnetic reconnection diffusion regions. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 1625-1633	4.9	6
19	Energy Conversion and Electron Acceleration in the Magnetopause Reconnection Diffusion Region. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 10274-10282	4.9	6
18	Dipolarization in the inner magnetosphere during a geomagnetic storm on 7 October 2015. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 9397-9405	4.9	5
17	Relativistic Electron Increase During Chorus Wave Activities on the 6 <sup>th</sup> March 2016 Geomagnetic Storm. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 11,302-11,319	2.6	4
16	Multiscale Coupling During Magnetopause Reconnection: Interface Between the Electron and Ion Diffusion Regions. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2020JA027985	2.6	3

15	Energy Balance and Time Dependence of a Magnetotail Electron Diffusion Region. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2020JA028290	2.6	3
14	An Encounter With the Ion and Electron Diffusion Regions at a Flapping and Twisted Tail Current Sheet. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2020JA028903	2.6	3
13	EDR signatures observed by MMS in the 16 October event presented in a 2-D parametric space. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 3262-3276	2.6	2
12	Observation of an inertial-range energy cascade within a reconnection jet in the Earth's magnetotail. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , <b>2020</b> , 500, L6-L10	4.3	2
11	Velocity Rotation Events in the Outer Magnetosphere Near the Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 4137-4156	2.6	2
10	MMS Observations of Reconnection at Dayside Magnetopause Crossings During Transitions of the Solar Wind to Sub-Alfvénic Flow. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 9934-9951	2.6	2
9	Millisecond observations of nonlinear wave-electron interaction in electron phase space holes. <i>Physics of Plasmas</i> , <b>2022</b> , 29, 012309	2.1	2
8	Theory, observations, and simulations of kinetic entropy in a magnetotail electron diffusion region. <i>Physics of Plasmas</i> , <b>2022</b> , 29, 022902	2.1	2
7	Origin and structure of electromagnetic generator regions at the edge of the electron diffusion region. <i>Physics of Plasmas</i> , <b>2021</b> , 28, 112901	2.1	2
6	Solar Wind Turbulence from 1 to 45 au. V. Data Intervals from the Voyager Observations. <i>Astrophysical Journal, Supplement Series</i> , <b>2020</b> , 250, 14	8	2
5	Two-Dimensional Velocity of the Magnetic Structure Observed on July 11, 2017 by the Magnetospheric Multiscale Spacecraft. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2020JA028705	2.6	2
4	Low-frequency Waves due to Newborn Interstellar Pickup He <sup>+</sup> Observed by the Ulysses Spacecraft. <i>Astrophysical Journal</i> , <b>2021</b> , 923, 185	4.7	2
3	Effects in the Near-Magnetopause Magnetosheath Elicited by Large-Amplitude Alfvénic Fluctuations Terminating in a Field and Flow Discontinuity. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 8983-9004	2.6	1
2	High-latitude Observations of Inertial-range Turbulence by the Ulysses Spacecraft During the Solar Minimum of 1993-96. <i>Astrophysical Journal</i> , <b>2022</b> , 927, 43	4.7	1
1	A Multi-Instrument Study of a Dipolarization Event in the Inner Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2021JA029294	2.6	