

# David Newman

## List of Publications by Year in descending order

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47  
papers

2,419  
citations

185998

28  
h-index

223531

46  
g-index

49  
all docs

49  
docs citations

49  
times ranked

1567  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electron-scale measurements of magnetic reconnection in space. <i>Science</i> , 2016, 352, aaf2939.	6.0	545
2	Formation of Double Layers and Electron Holes in a Current-Driven Space Plasma. <i>Physical Review Letters</i> , 2001, 87, 255001.	2.9	131
3	Characteristics of parallel electric fields in the downward current region of the aurora. <i>Physics of Plasmas</i> , 2002, 9, 3600-3609.	0.7	113
4	Evolution of Electron Phase-Space Holes in a 2D Magnetized Plasma. <i>Physical Review Letters</i> , 1999, 83, 2344-2347.	2.9	110
5	Auroral particle acceleration by strong double layers: The upward current region. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	104
6	New Features of Electron Phase Space Holes Observed by the THEMIS Mission. <i>Physical Review Letters</i> , 2009, 102, 225004.	2.9	86
7	Evolution of electron phase-space holes in 3D. <i>Geophysical Research Letters</i> , 2001, 28, 1891-1894.	1.5	75
8	Scales of guide field reconnection at the hydrogen mass ratio. <i>Physics of Plasmas</i> , 2010, 17, .	0.7	72
9	Magnetospheric Multiscale observations of large-amplitude, parallel, electrostatic waves associated with magnetic reconnection at the magnetopause. <i>Geophysical Research Letters</i> , 2016, 43, 5626-5634.	1.5	66
10	Magnetospheric Multiscale Satellites Observations of Parallel Electric Fields Associated with Magnetic Reconnection. <i>Physical Review Letters</i> , 2016, 116, 235102.	2.9	61
11	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> , 2016, 43, 5909-5917.	1.5	61
12	What Can We Learn about Magnetotail Reconnection from 2D PIC Harris-Sheet Simulations?. <i>Space Science Reviews</i> , 2016, 199, 651-688.	3.7	60
13	Ion reflection and acceleration near magnetotail dipolarization fronts associated with magnetic reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 511-525.	0.8	59
14	MMS Observations of Electrostatic Waves in an Oblique Shock Crossing. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 9430-9442.	0.8	58
15	Bipolar electric field signatures of reconnection separatrices for a hydrogen plasma at realistic guide fields. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	52
16	Numerical simulations of separatrix instabilities in collisionless magnetic reconnection. <i>Physics of Plasmas</i> , 2012, 19, .	0.7	51
17	Electron phase-space holes and the VLF saucer source region. <i>Geophysical Research Letters</i> , 2001, 28, 3805-3808.	1.5	49
18	Drift waves, intense parallel electric fields, and turbulence associated with asymmetric magnetic reconnection at the magnetopause. <i>Geophysical Research Letters</i> , 2017, 44, 2978-2986.	1.5	46

#	ARTICLE	IF	CITATIONS
19	Multipoint Measurements of the Electron Jet of Symmetric Magnetic Reconnection with a Moderate Guide Field. <i>Physical Review Letters</i> , 2017, 118, 265101.	2.9	44
20	Localized Oscillatory Energy Conversion in Magnetopause Reconnection. <i>Geophysical Research Letters</i> , 2018, 45, 1237-1245.	1.5	41
21	Double layers in the downward current region of the aurora. <i>Nonlinear Processes in Geophysics</i> , 2003, 10, 45-52.	0.6	38
22	Kinetic simulations of magnetic reconnection in presence of a background $O^{+}$ population. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	38
23	Kinetic simulations of plasmoid chain dynamics. <i>Physics of Plasmas</i> , 2013, 20, .	0.7	38
24	Evidence for correlated double layers, bipolar structures, and very-low-frequency saucer generation in the auroral ionosphere. <i>Physics of Plasmas</i> , 2002, 9, 2337-2343.	0.7	36
25	A model of electromagnetic electron phase-space holes and its application. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	32
26	Electron Phase-Space Holes in Three Dimensions: Multispacecraft Observations by Magnetospheric Multiscale. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 9963-9978.	0.8	31
27	Fast auroral snapshot satellite observations of very low frequency saucers. <i>Physics of Plasmas</i> , 2003, 10, 454-462.	0.7	30
28	EVIDENCE OF MAGNETIC FIELD SWITCH-OFF IN COLLISIONLESS MAGNETIC RECONNECTION. <i>Astrophysical Journal Letters</i> , 2015, 810, L19.	3.0	29
29	Kinetic instabilities in the lunar wake: ARTEMIS observations. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	27
30	Separatrices: The crux of reconnection. <i>Journal of Plasma Physics</i> , 2015, 81, .	0.7	26
31	Observations of large-amplitude, parallel, electrostatic waves associated with the Kelvin-Helmholtz instability by the magnetospheric multiscale mission. <i>Geophysical Research Letters</i> , 2016, 43, 8859-8866.	1.5	26
32	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> , 2017, 122, 5487-5501.	0.8	22
33	Three dimensional density cavities in guide field collisionless magnetic reconnection. <i>Physics of Plasmas</i> , 2012, 19, .	0.7	19
34	Energy Flux Densities near the Electron Dissipation Region in Asymmetric Magnetopause Reconnection. <i>Physical Review Letters</i> , 2020, 125, 265102.	2.9	17
35	Negative Potential Solitary Structures in the Magnetosheath With Large Parallel Width. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 132-145.	0.8	16
36	Impulsively Reflected Ions: A Plausible Mechanism for Ion Acoustic Wave Growth in Collisionless Shocks. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 1855-1865.	0.8	16

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37	Local Regimes of Turbulence in 3D Magnetic Reconnection. <i>Astrophysical Journal</i> , 2020, 888, 104.	1.6	16
38	Propagation speed of rotation signals for field lines undergoing magnetic reconnection. <i>Physics of Plasmas</i> , 2013, 20, .	0.7	13
39	Switch-off slow shock/rotational discontinuity structures in collisionless magnetic reconnection: What to look for in satellite observations. <i>Geophysical Research Letters</i> , 2017, 44, 3447-3455.	1.5	12
40	Structure of Electron-Scale Plasma Mixing Along the Dayside Reconnection Separatrix. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 8788-8803.	0.8	11
41	Multibeam Energy Moments of Multibeam Particle Velocity Distributions. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028340.	0.8	11
42	On the electron agyrotropy during rapid asymmetric magnetic island coalescence in presence of a guide field. <i>Geophysical Research Letters</i> , 2016, 43, 7840-7849.	1.5	10
43	Parallel Electrostatic Waves Associated With Turbulent Plasma Mixing in the Kelvin-Helmholtz Instability. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087837.	1.5	7
44	Multi-beam energy moments of measured compound ion velocity distributions. <i>Physics of Plasmas</i> , 2021, 28, 102305.	0.7	6
45	Characteristics of Multi-scale Current Sheets in the Solar Wind at 1 au Associated with Magnetic Reconnection and the Case for a Heliospheric Current Sheet Avalanche. <i>Astrophysical Journal</i> , 2022, 933, 181.	1.6	5
46	Micro-Scale Plasma Instabilities in the Interaction Region of the Solar Wind and the Martian Upper Atmosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	2
47	Bipolar Electric Field Pulses in the Martian Magnetosheath and Solar Wind; Their Implication and Impact Accessed by System Scale Size. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	0