David Newman

List of Publications by Year
in descending order

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	Microâ€Scale Plasma Instabilities in the Interaction Region of the Solar Wind and the Martian Upper Atmosphere. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	2
2	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. Astrophysical Journal, 2022, 933, 181.	1.6	5
3	Bipolar Electric Field Pulses in the Martian Magnetosheath and Solar Wind; Their Implication and Impact Accessed by System Scale Size. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	0
4	Multi-beam energy moments of measured compound ion velocity distributions. Physics of Plasmas, 2021, 28, 102305.	0.7	6
5	Multibeam Energy Moments of Multibeam Particle Velocity Distributions. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028340.	0.8	11
6	Parallel Electrostatic Waves Associated With Turbulent Plasma Mixing in the Kelvinâ€Helmholtz Instability. Geophysical Research Letters, 2020, 47, e2020GL087837.	1.5	7
7	Local Regimes of Turbulence in 3D Magnetic Reconnection. Astrophysical Journal, 2020, 888, 104.	1.6	16
8	Energy Flux Densities near the Electron Dissipation Region in Asymmetric Magnetopause Reconnection. Physical Review Letters, 2020, 125, 265102.	2.9	17
9	Impulsively Reflected Ions: A Plausible Mechanism for Ion Acoustic Wave Growth in Collisionless Shocks. Journal of Geophysical Research: Space Physics, 2019, 124, 1855-1865.	0.8	16
10	Structure of Electronâ€Scale Plasma Mixing Along the Dayside Reconnection Separatrix. Journal of Geophysical Research: Space Physics, 2019, 124, 8788-8803.	0.8	11
11	Negative Potential Solitary Structures in the Magnetosheath With Large Parallel Width. Journal of Geophysical Research: Space Physics, 2018, 123, 132-145.	0.8	16
12	Localized Oscillatory Energy Conversion in Magnetopause Reconnection. Geophysical Research Letters, 2018, 45, 1237-1245.	1.5	41
13	Electron Phaseâ€Space Holes in Three Dimensions: Multispacecraft Observations by Magnetospheric Multiscale. Journal of Geophysical Research: Space Physics, 2018, 123, 9963-9978.	0.8	31
14	MMS Observations of Electrostatic Waves in an Oblique Shock Crossing. Journal of Geophysical Research: Space Physics, 2018, 123, 9430-9442.	0.8	58
15	The nonlinear behavior of whistler waves at the reconnecting dayside magnetopause as observed by the Magnetospheric Multiscale mission: A case study. Journal of Geophysical Research: Space Physics, 2017, 122, 5487-5501.	0.8	22
16	Drift waves, intense parallel electric fields, and turbulence associated with asymmetric magnetic reconnection at the magnetopause. Geophysical Research Letters, 2017, 44, 2978-2986.	1.5	46
17	Switchâ€off slow shock/rotational discontinuity structures in collisionless magnetic reconnection: What to look for in satellite observations. Geophysical Research Letters, 2017, 44, 3447-3455.	1.5	12
18	Multipoint Measurements of the Electron Jet of Symmetric Magnetic Reconnection with a Moderate Guide Field. Physical Review Letters, 2017, 118, 265101.	2.9	44

#	Article	IF	Citations
19	Electron-scale measurements of magnetic reconnection in space. Science, 2016, 352, aaf2939.	6.0	545
20	On the electron agyrotropy during rapid asymmetric magnetic island coalescence in presence of a guide field. Geophysical Research Letters, 2016, 43, 7840-7849.	1.5	10
21	Observations of largeâ€amplitude, parallel, electrostatic waves associated with the Kelvinâ€Helmholtz instability by the magnetospheric multiscale mission. Geophysical Research Letters, 2016, 43, 8859-8866.	1.5	26
22	Magnetospheric Multiscale Satellites Observations of Parallel Electric Fields Associated with Magnetic Reconnection. Physical Review Letters, 2016, 116, 235102.	2.9	61
23	Observations of whistler mode waves with nonlinear parallel electric fields near the dayside magnetic reconnection separatrix by the Magnetospheric Multiscale mission. Geophysical Research Letters, 2016, 43, 5909-5917.	1.5	61
24	What Can We Learn about Magnetotail Reconnection from 2D PIC Harris-Sheet Simulations?. Space Science Reviews, 2016, 199, 651-688.	3.7	60
25	Magnetospheric Multiscale observations of largeâ€amplitude, parallel, electrostatic waves associated with magnetic reconnection at the magnetopause. Geophysical Research Letters, 2016, 43, 5626-5634.	1.5	66
26	EVIDENCE OF MAGNETIC FIELD SWITCH-OFF IN COLLISIONLESS MAGNETIC RECONNECTION. Astrophysical Journal Letters, 2015, 810, L19.	3.0	29
27	Ion reflection and acceleration near magnetotail dipolarization fronts associated with magnetic reconnection. Journal of Geophysical Research: Space Physics, 2015, 120, 511-525.	0.8	59
28	Separatrices: The crux of reconnection. Journal of Plasma Physics, 2015, 81, .	0.7	26
29	Kinetic simulations of plasmoid chain dynamics. Physics of Plasmas, 2013, 20, .	0.7	38
30	Propagation speed of rotation signals for field lines undergoing magnetic reconnection. Physics of Plasmas, 2013, 20, .	0.7	13
31	Three dimensional density cavities in guide field collisionless magnetic reconnection. Physics of Plasmas, 2012, 19, .	0.7	19
32	Kinetic instabilities in the lunar wake: ARTEMIS observations. Journal of Geophysical Research, 2012, 117, .	3.3	27
33	Numerical simulations of separatrix instabilities in collisionless magnetic reconnection. Physics of Plasmas, 2012, 19, .	0.7	51
34	A model of electromagnetic electron phase-space holes and its application. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	32
35	Bipolar electric field signatures of reconnection separatrices for a hydrogen plasma at realistic guide fields. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	52
36	Kinetic simulations of magnetic reconnection in presence of a background O⁺population. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	38

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37	Scales of guide field reconnection at the hydrogen mass ratio. Physics of Plasmas, 2010, 17, .	0.7	72
38	New Features of Electron Phase Space Holes Observed by the THEMIS Mission. Physical Review Letters, 2009, 102, 225004.	2.9	86
39	Auroral particle acceleration by strong double layers: The upward current region. Journal of Geophysical Research, 2004, 109, .	3.3	104
40	Fast auroral snapshot satellite observations of very low frequency saucers. Physics of Plasmas, 2003, 10, 454-462.	0.7	30
41	Double layers in the downward current region of the aurora. Nonlinear Processes in Geophysics, 2003, 10, 45-52.	0.6	38
42	Characteristics of parallel electric fields in the downward current region of the aurora. Physics of Plasmas, 2002, 9, 3600-3609.	0.7	113
43	Evidence for correlated double layers, bipolar structures, and very-low-frequency saucer generation in the auroral ionosphere. Physics of Plasmas, 2002, 9, 2337-2343.	0.7	36
44	Evolution of electron phase-space holes in 3D. Geophysical Research Letters, 2001, 28, 1891-1894.	1.5	75
45	Electron phase-space holes and the VLF saucer source region. Geophysical Research Letters, 2001, 28, 3805-3808.	1.5	49
46	Formation of Double Layers and Electron Holes in a Current-Driven Space Plasma. Physical Review Letters, 2001, 87, 255001.	2.9	131
47	Evolution of Electron Phase-Space Holes in a 2D Magnetized Plasma. Physical Review Letters, 1999, 83, 2344-2347.	2.9	110