

Lynn B. Wilson III

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.

85
papers

2,004
citations

29
h-index

41
g-index

99
ext. papers

2,406
ext. citations

4.9
avg, IF

4.88
L-index

#	Paper	IF	Citations
85	The Extended Field-aligned Suprathermal Proton Beam and Long-lasting Trapped Energetic Particle Population Observed Upstream of a Transient Interplanetary Shock. <i>Astrophysical Journal</i> , 2022 , 925, 198	4.7	
84	Strong reconnection electric fields in shock-driven turbulence. <i>Physics of Plasmas</i> , 2022 , 29, 042304	2.1	3
83	Direct First Parker Solar Probe Observation of the Interaction of Two Successive Interplanetary Coronal Mass Ejections in 2020 November. <i>Astrophysical Journal</i> , 2022 , 930, 88	4.7	0
82	Comparative Analysis of the 2020 November 29 Solar Energetic Particle Event Observed by Parker Solar Probe. <i>Astrophysical Journal</i> , 2021 , 920, 123	4.7	5
81	Direct Multipoint Observations Capturing the Reformation of a Supercritical Fast Magnetosonic Shock. <i>Astrophysical Journal Letters</i> , 2021 , 911, L31	7.9	3
80	Oblique High Mach Number Heliospheric Shocks: The Role of β Particles. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA028962	2.6	
79	A Quarter Century of Wind Spacecraft Discoveries. <i>Reviews of Geophysics</i> , 2021 , 59, e2020RG000714	23.1	11
78	Depleted Plasma Densities in the Ionosphere of Venus Near Solar Minimum From Parker Solar Probe Observations of Upper Hybrid Resonance Emission. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL092243	4.9	2
77	Electron Bernstein waves and narrowband plasma waves near the electron cyclotron frequency in the near-Sun solar wind. <i>Astronomy and Astrophysics</i> , 2021 , 650, A97	5.1	3
76	A field-particle correlation analysis of a perpendicular magnetized collisionless shock. <i>Journal of Plasma Physics</i> , 2021 , 87,	2.7	4
75	ARTEMIS Observations of Plasma Waves in Laminar and Perturbed Interplanetary Shocks. <i>Astrophysical Journal</i> , 2021 , 913, 144	4.7	2
74	MMS Observations of Energized He+ Pickup Ions at Quasiperpendicular Shocks. <i>Astrophysical Journal</i> , 2021 , 913, 112	4.7	2
73	Prompt Response of the Dayside Magnetosphere to Discrete Structures Within the Sheath Region of a Coronal Mass Ejection. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL092700	4.9	2
72	The Dynamics of a High Mach Number Quasi-perpendicular Shock: MMS Observations. <i>Astrophysical Journal</i> , 2021 , 908, 40	4.7	11
71	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> , 2021 , 126, e2020JA028903	2.6	3
70	Evaluating the deHoffmann-Teller Cross-Shock Potential at Real Collisionless Shocks. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029295	2.6	1
69	The Discrepancy Between Simulation and Observation of Electric Fields in Collisionless Shocks. <i>Frontiers in Astronomy and Space Sciences</i> , 2021 , 7,	3.8	7

68	Magnetospheric Multiscale Observations of Earth's Oblique Bow Shock Reformation by Foreshock Ultralow-Frequency Waves. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL091184	4.9	3
67	A Study of a Magnetic Cloud Propagating Through Large-Amplitude Alfvén Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027638	2.6	0
66	Laboratory Observations of Ultra-Low Frequency Analogue Waves Driven by the Right-Hand Resonant Ion Beam Instability. <i>Astrophysical Journal Letters</i> , 2020 , 891,	7.9	9
65	Nonstationary Quasiperpendicular Shock and Ion Reflection at Mars. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL088309	4.9	6
64	Lower-Hybrid Drift Waves Driving Electron Nongyrotropic Heating and Vortical Flows in a Magnetic Reconnection Layer. <i>Physical Review Letters</i> , 2020 , 125, 025103	7.4	13
63	Electron Energy Partition across Interplanetary Shocks. III. Analysis. <i>Astrophysical Journal</i> , 2020 , 893, 22	4.7	12
62	Ion-scale Current Structures in Short Large-amplitude Magnetic Structures. <i>Astrophysical Journal</i> , 2020 , 898, 121	4.7	5
61	The Rapid Variability of Wave Electric Fields Within and Near Quasiperpendicular Interplanetary Shock Ramps: STEREO Observations. <i>Astrophysical Journal</i> , 2020 , 904, 174	4.7	4
60	Microscopic, Multipoint Characterization of Foreshock Bubbles With Magnetospheric Multiscale (MMS). <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027707	2.6	25
59	Magnetic reconnection and kinetic waves generated in the Earth's quasi-parallel bow shock. <i>Physics of Plasmas</i> , 2020 , 27, 092901	2.1	9
58	Observational Evidence of Magnetic Reconnection in the Terrestrial Bow Shock Transition Region. <i>Geophysical Research Letters</i> , 2019 , 46, 562-570	4.9	28
57	Evolution of the Suprathermal Proton Population at Interplanetary Shocks. <i>Astronomical Journal</i> , 2019 , 158, 12	4.9	15
56	Understanding the Role of Φ Particles in Oblique Heliospheric Shock Oscillations. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 2393	2.6	2
55	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	2.6	12
54	Magnetic Reconnection in a Quasi-Parallel Shock: Two-Dimensional Local Particle-in-Cell Simulation. <i>Geophysical Research Letters</i> , 2019 , 46, 9352-9361	4.9	23
53	Electron Energy Partition across Interplanetary Shocks. I. Methodology and Data Product. <i>Astrophysical Journal, Supplement Series</i> , 2019 , 243,	8	39
52	Electron Scattering by Low-frequency Whistler Waves at Earth's Bow Shock. <i>Astrophysical Journal</i> , 2019 , 886, 53	4.7	11
51	Electron Energy Partition across Interplanetary Shocks. II. Statistics. <i>Astrophysical Journal, Supplement Series</i> , 2019 , 245, 24	8	26

50	Kinetic theory and fast wind observations of the electron strahl. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 474, 115-127	4.3	29
49	Generation of Kappa Distributions in Solar Wind at 1 au. <i>Astrophysical Journal</i> , 2018 , 853, 142	4.7	47
48	Solar Wind Induced Waves in the Skies of Mars: Ionospheric Compression, Energization, and Escape Resulting From the Impact of Ultralow Frequency Magnetosonic Waves Generated Upstream of the Martian Bow Shock. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 7241-7256	2.6	17
47	Flat Proton Spectra in Large Solar Energetic Particle Events. <i>Journal of Physics: Conference Series</i> , 2018 , 1100, 012014	0.3	6
46	MMS Observations of Electrostatic Waves in an Oblique Shock Crossing. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 9430-9442	2.6	40
45	The Statistical Properties of Solar Wind Temperature Parameters Near 1 au. <i>Astrophysical Journal, Supplement Series</i> , 2018 , 236, 41	8	54
44	Statistical Study of the Properties of Magnetosheath Lion Roars. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 5435-5451	2.6	10
43	Autogenous and efficient acceleration of energetic ions upstream of Earth's bow shock. <i>Nature</i> , 2018 , 561, 206-210	50.4	32
42	Kinetic Properties of an Interplanetary Shock Propagating inside a Coronal Mass Ejection. <i>Astrophysical Journal Letters</i> , 2018 , 859, L4	7.9	5
41	Electron Bulk Acceleration and Thermalization at Earth's Quasiperpendicular Bow Shock. <i>Physical Review Letters</i> , 2018 , 120, 225101	7.4	29
40	Electron Scattering by High-frequency Whistler Waves at Earth's Bow Shock. <i>Astrophysical Journal Letters</i> , 2017 , 842, L11	7.9	29
39	Parallel electron heating in the magnetospheric inflow region. <i>Geophysical Research Letters</i> , 2017 , 44, 4384-4392	4.9	8
38	Fermi acceleration of electrons inside foreshock transient cores. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 9248-9263	2.6	23
37	Subcritical Growth of Electron Phase-space Holes in Planetary Radiation Belts. <i>Astrophysical Journal</i> , 2017 , 846, 83	4.7	3
36	Revisiting the structure of low-Mach number, low-beta, quasi-perpendicular shocks. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 9115-9133	2.6	37
35	Statistical study of particle acceleration in the core of foreshock transients. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 7197-7208	2.6	28
34	ON THE CONNECTION BETWEEN MICROBURSTS AND NONLINEAR ELECTRONIC STRUCTURES IN PLANETARY RADIATION BELTS. <i>Astrophysical Journal</i> , 2016 , 816, 51	4.7	17
33	Prompt acceleration of magnetospheric electrons to ultrarelativistic energies by the 17 March 2015 interplanetary shock. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 7622-7635	2.6	49

32	A PROTON-CYCLOTRON WAVE STORM GENERATED BY UNSTABLE PROTON DISTRIBUTION FUNCTIONS IN THE SOLAR WIND. <i>Astrophysical Journal</i> , 2016 , 819, 6	4.7	41
31	Relativistic Electrons Produced by Foreshock Disturbances Observed Upstream of Earth's Bow Shock. <i>Physical Review Letters</i> , 2016 , 117, 215101	7.4	35
30	A database of interplanetary and interstellar dust detected by the Wind spacecraft. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 9369-9377	2.6	19
29	Low Frequency Waves at and Upstream of Collisionless Shocks. <i>Geophysical Monograph Series</i> , 2016 , 269-291	1.1	68
28	Ion distributions in the Earth's foreshock: Hybrid-Vlasov simulation and THEMIS observations. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 3684-3701	2.6	33
27	THEMIS observations of electrostatic ion cyclotron waves and associated ion heating near the Earth's dayside magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 3380-3392	2.6	10
26	A statistical analysis of properties of small transients in the solar wind 2007-2009: STEREO and Wind observations. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 689-708	2.6	40
25	Quantified energy dissipation rates in the terrestrial bow shock: 2. Waves and dissipation. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 6475-6495	2.6	59
24	Quantified energy dissipation rates in the terrestrial bow shock: 1. Analysis techniques and methodology. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 6455-6474	2.6	43
23	Interplanetary and interstellar dust observed by the Wind/WAVES electric field instrument. <i>Geophysical Research Letters</i> , 2014 , 41, 266-272	4.9	51
22	A vortical dawn flank boundary layer for near-radial IMF: Wind observations on 24 October 2001. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 4572-4590	2.6	10
21	Structure of a reconnection layer poleward of the cusp: Extreme density asymmetry and a guide field. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 7343-7362	2.6	8
20	Large-Amplitude Whistler Waves and Electron Acceleration in the Earth's Radiation Belts: A Review of Stereo and Wind Observations. <i>Geophysical Monograph Series</i> , 2013 , 41-52	1.1	3
19	Electrostatic Solitary Waves in the Solar Wind: Evidence for Instability at Solar Wind Current Sheets. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 591-599	2.6	70
18	Shocklets, SLAMS, and field-aligned ion beams in the terrestrial foreshock. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 957-966	2.6	41
17	Electromagnetic waves and electron anisotropies downstream of supercritical interplanetary shocks. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 5-16	2.6	56
16	STEREO and Wind observations of intense cyclotron harmonic waves at the Earth's bow shock and inside the magnetosheath. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 7654-7664	2.6	30
15	THEMIS observations of the magnetopause electron diffusion region: Large amplitude waves and heated electrons. <i>Geophysical Research Letters</i> , 2013 , 40, 2884-2890	4.9	56

14	Explaining polarization reversals in STEREO wave data. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		6
13	Short large-amplitude magnetic structures (SLAMS) at Venus. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		14
12	Observations of electromagnetic whistler precursors at supercritical interplanetary shocks. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	69
11	Large amplitude whistlers in the magnetosphere observed with Wind-Waves. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		45
10	Observations of a high-latitude stable electron auroral emission at ~16 MLT during a large substorm. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		4
9	Observation of relativistic electron microbursts in conjunction with intense radiation belt whistler-mode waves. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	56
8	The properties of large amplitude whistler mode waves in the magnetosphere: Propagation and relationship with geomagnetic activity. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	72
7	Large-amplitude transmitter-associated and lightning-associated whistler waves in the Earth's inner plasmasphere at L. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		16
6	Observations of large-amplitude, narrowband whistlers at stream interaction regions. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		35
5	Electron trapping and charge transport by large amplitude whistlers. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	56
4	Large-amplitude electrostatic waves observed at a supercritical interplanetary shock. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		66
3	Low-frequency whistler waves and shocklets observed at quasi-perpendicular interplanetary shocks. <i>Journal of Geophysical Research</i> , 2009 , 114,		63
2	Waves in interplanetary shocks: a wind/WAVES study. <i>Physical Review Letters</i> , 2007 , 99, 041101	7.4	62
1	Evaluating the de Hoffmann-Teller cross-shock potential at real collisionless shocks		1