

I Y Vasko

List of Publications by Year in descending order

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80
papers

1,794
citations

218381

26
h-index

329751

37
g-index

84
all docs

84
docs citations

84
times ranked

886
citing authors

#	ARTICLE	IF	CITATIONS
1	Electron magnetosonic waves and sub-ion magnetic holes in the magnetotail plasma. <i>Physics of Plasmas</i> , 2022, 29, .	0.7	3
2	Kinetic-scale Current Sheets in the Solar Wind at 1 au: Scale-dependent Properties and Critical Current Density. <i>Astrophysical Journal Letters</i> , 2022, 926, L19.	3.0	14
3	Core Electron Heating by Triggered Ion Acoustic Waves in the Solar Wind. <i>Astrophysical Journal Letters</i> , 2022, 927, L15.	3.0	7
4	Multisatellite Observations of Ion Holes in the Earth's Plasma Sheet. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	9
5	Kinetic-scale Current Sheets in Near-Sun Solar Wind: Properties, Scale-dependent Features and Reconnection Onset. <i>Astrophysical Journal</i> , 2022, 929, 58.	1.6	7
6	Ionâ€Acoustic Waves in a Quasiâ€Perpendicular Earth's Bow Shock. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	11
7	Configuration of the Earthâ€™s Magnetotail Current Sheet. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092153.	1.5	14
8	Nonlinear Ion-acoustic Waves, Ion Holes, and Electron Holes in the Near-Sun Solar Wind. <i>Astrophysical Journal</i> , 2021, 911, 89.	1.6	21
9	Magnetosphereâ€Ionosphere Coupling of Precipitated Electrons in Diffuse Aurora Driven by Time Domain Structures. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092655.	1.5	8
10	Solar Wind Discontinuity Transformation at the Bow Shock. <i>Astrophysical Journal</i> , 2021, 913, 142.	1.6	11
11	Electrostatic Solitary Waves in the Earth's Bow Shock: Nature, Properties, Lifetimes, and Origin. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029357.	0.8	20
12	Realistic Electron Diffusion Rates and Lifetimes Due to Scattering by Electron Holes. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029380.	0.8	9
13	Triggered Ion-acoustic Waves in the Solar Wind. <i>Astrophysical Journal Letters</i> , 2021, 919, L2.	3.0	15
14	Generation of High-frequency Whistler Waves in the Earthâ€™s Quasi-perpendicular Bow Shock. <i>Astrophysical Journal Letters</i> , 2021, 919, L17.	3.0	12
15	The dynamics of electron holes in current sheets. <i>Physics of Plasmas</i> , 2021, 28, 012902.	0.7	1
16	Spacecraft Observations and Theoretical Understanding of Slow Electron Holes. <i>Physical Review Letters</i> , 2021, 127, 165101.	2.9	11
17	Kinetic-scale Current Sheets in the Solar Wind at 1 au: Properties and the Necessary Condition for Reconnection. <i>Astrophysical Journal Letters</i> , 2021, 923, L19.	3.0	10
18	On quasi-parallel whistler waves in the solar wind. <i>Physics of Plasmas</i> , 2020, 27, .	0.7	21

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19	DC and Low-Frequency Electric Field Measurements on the Parker Solar Probe. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA027980.	0.8	24
20	Superthin current sheets supported by anisotropic electrons. <i>Physics of Plasmas</i> , 2020, 27, 082904.	0.7	4
21	Potential Evidence of Low-Energy Electron Scattering and Ionospheric Precipitation by Time Domain Structures. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089138.	1.5	14
22	Multisatellite MMS Analysis of Electron Holes in the Earth's Magnetotail: Origin, Properties, Velocity Gap, and Transverse Instability. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028066.	0.8	31
23	Ionosphere Feedback to Electron Scattering by Equatorial Whistler Mode Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028373.	0.8	12
24	On the Nature and Origin of Bipolar Electrostatic Structures in the Earth's Bow Shock. <i>Frontiers in Physics</i> , 2020, 8, .	1.0	24
25	A model of the current sheet in the Earth's magnetotail. <i>Physics of Plasmas</i> , 2020, 27, .	0.7	3
26	Kinetic Models of Tangential Discontinuities in the Solar Wind. <i>Astrophysical Journal</i> , 2020, 891, 86.	1.6	17
27	Shock Drift Acceleration of Ions in an Interplanetary Shock Observed by MMS. <i>Astrophysical Journal Letters</i> , 2020, 891, L26.	3.0	6
28	Ion Nongyrotropy in Solar Wind Discontinuities. <i>Astrophysical Journal Letters</i> , 2020, 889, L23.	3.0	5
29	Contribution of Anisotropic Electron Current to the Magnetotail Current Sheet as a Function of Location and Plasma Conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027251.	0.8	12
30	Electrostatic Turbulence and Debye-scale Structures in Collisionless Shocks. <i>Astrophysical Journal Letters</i> , 2020, 889, L9.	3.0	34
31	The Electromagnetic Signature of Outward Propagating Ion-scale Waves. <i>Astrophysical Journal</i> , 2020, 899, 74.	1.6	23
32	Large-amplitude, Wideband, Doppler-shifted, Ion Acoustic Waves Observed on the Parker Solar Probe. <i>Astrophysical Journal</i> , 2020, 901, 107.	1.6	19
33	Statistical Study of Whistler Waves in the Solar Wind at 1 au. <i>Astrophysical Journal</i> , 2019, 878, 41.	1.6	69
34	Nonlinear Evolution of the Whistler Heat Flux Instability. <i>Astrophysical Journal</i> , 2019, 882, 81.	1.6	36
35	Kinetic Properties of Solar Wind Discontinuities at 1 AU Observed by ARTEMIS. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 3858-3870.	0.8	22
36	Ion Anisotropy in Earth's Magnetotail Current Sheet: Multicomponent Ion Population. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 3454-3467.	0.8	11

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37	Whistler Fan Instability Driven by Strahl Electrons in the Solar Wind. <i>Astrophysical Journal Letters</i> , 2019, 871, L29.	3.0	62
38	On the Kinetic Nature of Solar Wind Discontinuities. <i>Geophysical Research Letters</i> , 2019, 46, 1185-1194.	1.5	27
39	Whistler Wave Generation by Halo Electrons in the Solar Wind. <i>Astrophysical Journal Letters</i> , 2019, 870, L6.	3.0	53
40	Electron-acoustic solitary waves in the Earth's inner magnetosphere. <i>Physics of Plasmas</i> , 2018, 25, .	0.7	45
41	Nonlinear Electrostatic Steepening of Whistler Waves: The Guiding Factors and Dynamics in Inhomogeneous Systems. <i>Geophysical Research Letters</i> , 2018, 45, 2168-2176.	1.5	27
42	Two-dimensional self-similar plasma equilibria. <i>Physics of Plasmas</i> , 2018, 25, .	0.7	6
43	Simultaneous Observations of Lower Band Chorus Emissions at the Equator and Microburst Precipitating Electrons in the Ionosphere. <i>Geophysical Research Letters</i> , 2018, 45, 511-516.	1.5	54
44	Reply to Comment by Nishimura Et Al.. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 2071.	0.8	2
45	Direct Observation of Electron Distributions inside Millisecond Duration Electron Holes. <i>Physical Review Letters</i> , 2018, 121, 135102.	2.9	32
46	Simultaneous Multispacecraft Probing of Electron Phase Space Holes. <i>Geophysical Research Letters</i> , 2018, 45, 11,513.	1.5	35
47	Electrostatic Steepening of Whistler Waves. <i>Physical Review Letters</i> , 2018, 120, 195101.	2.9	27
48	Scattering by the broadband electrostatic turbulence in the space plasma. <i>Physics of Plasmas</i> , 2018, 25, .	0.7	24
49	Three dimensional analytical model of dipolarizing flux bundles. <i>Physics of Plasmas</i> , 2018, 25, .	0.7	2
50	3D Magnetic Holes in Collisionless Plasmas. <i>Plasma Physics Reports</i> , 2018, 44, 729-737.	0.3	1
51	Dynamics of Intense Currents in the Solar Wind. <i>Astrophysical Journal</i> , 2018, 859, 95.	1.6	18
52	Solitary Waves Across Supercritical Quasi-Perpendicular Shocks. <i>Geophysical Research Letters</i> , 2018, 45, 5809-5817.	1.5	43
53	Evolution of electron phase space holes in inhomogeneous magnetic fields. <i>Geophysical Research Letters</i> , 2017, 44, 2105-2112.	1.5	7
54	Diffusive scattering of electrons by electron holes around injection fronts. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 3163-3182.	0.8	46

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55	Nonlinear Landau resonance with localized wave pulses. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 5519-5527.	0.8	10
56	Electron-acoustic solitons and double layers in the inner magnetosphere. <i>Geophysical Research Letters</i> , 2017, 44, 4575-4583.	1.5	62
57	Electron holes in the outer radiation belt: Characteristics and their role in electron energization. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 120-135.	0.8	30
58	Pulsating auroras produced by interactions of electrons and time domain structures. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 8604-8616.	0.8	17
59	Hot Ion Flows in the Distant Magnetotail: ARTEMIS Observations From Lunar Orbit to $\sim 200 R_E$. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 9898-9909.	0.8	14
60	Evolution of electron phase space holes in inhomogeneous plasmas. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	10
61	Near-relativistic electron acceleration by Landau trapping in time domain structures. <i>Geophysical Research Letters</i> , 2016, 43, 508-514.	1.5	35
62	Electron holes in inhomogeneous magnetic field: Electron heating and electron hole evolution. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	24
63	Kinetic models of sub-ion cylindrical magnetic hole. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	10
64	Upper limit of electron fluxes generated by kinetic Alfvén waves in Maxwellian plasma. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 8361-8373.	0.8	3
65	Magnetospheric Multiscale Satellite Observations of Parallel Electron Acceleration in Magnetic Field Reconnection by Fermi Reflection from Time Domain Structures. <i>Physical Review Letters</i> , 2016, 116, 145101.	2.9	45
66	Effects of electron pressure anisotropy on current sheet configuration. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	15
67	Magnetic field depression within electron holes. <i>Geophysical Research Letters</i> , 2015, 42, 2123-2129.	1.5	32
68	Earth's distant magnetotail current sheet near and beyond lunar orbit. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 8663-8680.	0.8	35
69	Kinetic model of force-free current sheets with non-uniform temperature. <i>Physics of Plasmas</i> , 2015, 22, .	0.7	20
70	Thermal electron acceleration by electric field spikes in the outer radiation belt: Generation of field-aligned pitch angle distributions. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 8616-8632.	0.8	29
71	Time domain structures: What and where they are, what they do, and how they are made. <i>Geophysical Research Letters</i> , 2015, 42, 3627-3638.	1.5	121
72	Current sheets with inhomogeneous plasma temperature: Effects of polarization electric field and 2D solutions. <i>Physics of Plasmas</i> , 2015, 22, .	0.7	13

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73	Formation of a quasi-one-dimensional current sheet in the laboratory experiment and in the Earth's magnetotail. Plasma Physics Reports, 2015, 41, 71-87.	0.3	9
74	Current Sheets in the Earth Magnetotail: Plasma and Magnetic Field Structure with Cluster Project Observations. Space Science Reviews, 2015, 188, 311-337.	3.7	69
75	Two-dimensional MHD model of the Jovian magnetodisk. Cosmic Research, 2015, 53, 341-353.	0.2	1
76	Formation of the high-energy ion population in the earth's magnetotail: spacecraft observations and theoretical models. Annales Geophysicae, 2014, 32, 1233-1246.	0.6	11
77	Thin current sheets with strong bell-shape guide field: Cluster observations and models with beams. Annales Geophysicae, 2014, 32, 1349-1360.	0.6	28
78	The structure of strongly tilted current sheets in the Earth magnetotail. Annales Geophysicae, 2014, 32, 133-146.	0.6	27
79	The structure of the Venusian current sheet. Planetary and Space Science, 2014, 96, 81-89.	0.9	16
80	Kinetic models of two-dimensional plane and axially symmetric current sheets: Group theory approach. Physics of Plasmas, 2013, 20, .	0.7	27