

A V Divin

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

1,601
citations

257450

24
h-index

302126

39
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63
all docs

63
docs citations

63
times ranked

1076
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct observations of anomalous resistivity and diffusion in collisionless plasma. Nature Communications, 2022, 13, .	12.8	15
2	Cold ion energization at separatrices during magnetic reconnection. Physics of Plasmas, 2021, 28, .	1.9	8
3	The Inertia-Based Model for Reconstruction of the Electron Diffusion Region. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA029045.	2.4	5
4	The Plasma Environment Surrounding the Reiner Gamma Magnetic Anomaly. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029180.	2.4	4
5	Automated Classification of Plasma Regions Using 3D Particle Energy Distributions. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029620.	2.4	11
6	Grad-Shafranov reconstruction of the magnetic configuration in the reconnection X-point vicinity in compressible plasma. Physics of Plasmas, 2020, 27, .	1.9	4
7	Electron Heating by Debye-Scale Turbulence in Guide-Field Reconnection. Physical Review Letters, 2020, 124, 045101.	7.8	31
8	Simulating the Reiner Gamma Swirl: The Long-Term Effect of Solar Wind Standoff. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006219.	3.6	15
9	A Fully Kinetic Perspective of Electron Acceleration around a Weakly Outgassing Comet. Astrophysical Journal Letters, 2020, 889, L33.	8.3	8
10	Building a Weakly Outgassing Comet from a Generalized Ohm's Law. Physical Review Letters, 2019, 123, 055101.	7.8	21
11	Inner and outer electron diffusion region of antiparallel collisionless reconnection: Density dependence. Physics of Plasmas, 2019, 26, .	1.9	4
12	Electron trapping in the coma of a weakly outgassing comet. Physics of Plasmas, 2019, 26, .	1.9	7
13	The transition from "double-gradient" to ballooning unstable mode in bent magnetotail-like current sheet. Physics of Plasmas, 2019, 26, .	1.9	1
14	Electron Energization at a Reconnecting Magnetosheath Current Sheet. Geophysical Research Letters, 2018, 45, 8081-8090.	4.0	20
15	Detection of Magnetic Nulls around Reconnection Fronts. Astrophysical Journal, 2018, 860, 128.	4.5	25
16	Reiner Gamma albedo features reproduced by modeling solar wind standoff. Communications Physics, 2018, 1, .	5.3	25
17	Energy conversion at dipolarization fronts. Geophysical Research Letters, 2017, 44, 1234-1242.	4.0	49
18	Electron and Ion Dynamics of the Solar Wind Interaction with a Weakly Outgassing Comet. Physical Review Letters, 2017, 118, 205101.	7.8	52

#	ARTICLE	IF	CITATIONS
19	Three-scale structure of diffusion region in the presence of cold ions. Journal of Geophysical Research: Space Physics, 2016, 121, 12,001.	2.4	30
20	A new model for the electron pressure nongyrotropy in the outer electron diffusion region. Geophysical Research Letters, 2016, 43, 10,565.	4.0	11
21	REFLECTED CHARGED PARTICLE POPULATIONS AROUND DIPOLAR LUNAR MAGNETIC ANOMALIES. Astrophysical Journal, 2016, 829, 60.	4.5	6
22	Cold ion demagnetization near the X-line of magnetic reconnection. Geophysical Research Letters, 2016, 43, 6759-6767.	4.0	35
23	Three-dimensional full-kinetic simulation of the solar wind interaction with a vertical dipolar lunar magnetic anomaly. Geophysical Research Letters, 2016, 43, 4136-4144.	4.0	8
24	MAGNETIC NULL POINTS IN KINETIC SIMULATIONS OF SPACE PLASMAS. Astrophysical Journal, 2016, 819, 52.	4.5	32
25	Cold ion heating at the dayside magnetopause during magnetic reconnection. Geophysical Research Letters, 2016, 43, 58-66.	4.0	34
26	General mechanism and dynamics of the solar wind interaction with lunar magnetic anomalies from 3D particle-in-cell simulations. Journal of Geophysical Research: Space Physics, 2015, 120, 6443-6463.	2.4	43
27	Energetic particles in magnetotail reconnection. Journal of Plasma Physics, 2015, 81, .	2.1	14
28	The Formation of a Magnetosphere with Implicit Particle-in-Cell Simulations. Procedia Computer Science, 2015, 51, 1178-1187.	2.0	22
29	The double-gradient magnetic instability: Stabilizing effect of the guide field. Physics of Plasmas, 2015, 22, 012904.	1.9	11
30	Lower hybrid drift instability at a dipolarization front. Journal of Geophysical Research: Space Physics, 2015, 120, 1124-1132.	2.4	55
31	Evolution of the lower hybrid drift instability at reconnection jet front. Journal of Geophysical Research: Space Physics, 2015, 120, 2675-2690.	2.4	70
32	Separatrices: The crux of reconnection. Journal of Plasma Physics, 2015, 81, .	2.1	26
33	ENERGY DISSIPATION IN MAGNETIC NULL POINTS AT KINETIC SCALES. Astrophysical Journal, 2015, 807, 155.	4.5	32
34	Role of Z-pinches in magnetic reconnection in space plasmas. Journal of Plasma Physics, 2015, 81, .	2.1	4
35	Electromagnetic energy conversion in downstream fronts from three dimensional kinetic reconnection. Physics of Plasmas, 2014, 21, .	1.9	53
36	Publisher's Note: Electromagnetic Particle-in-Cell Simulations of the Solar Wind Interaction with Lunar Magnetic Anomalies [Phys. Rev. Lett.112, 151102 (2014)]. Physical Review Letters, 2014, 113, .	7.8	0

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37	Electromagnetic Particle-in-Cell Simulations of the Solar Wind Interaction with Lunar Magnetic Anomalies. <i>Physical Review Letters</i> , 2014, 112, 151102.	7.8	45
38	Kinetic simulations of plasmoid chain dynamics. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	38
39	MHD modeling of the double- ∇ (kink) magnetic instability. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 1146-1158.	2.4	25
40	Formation of a transient front structure near reconnection point in 3D PIC simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 1435-1449.	2.4	67
41	Three dimensional density cavities in guide field collisionless magnetic reconnection. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	19
42	Scaling of the inner electron diffusion region in collisionless magnetic reconnection. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	23
43	Collisionless magnetic reconnection in a plasmoid chain. <i>Nonlinear Processes in Geophysics</i> , 2012, 19, 145-153.	1.3	32
44	Numerical simulations of separatrix instabilities in collisionless magnetic reconnection. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	51
45	A 2.5-D electron Hall-MHD analytical model of steady state Hall magnetic reconnection in a compressible plasma. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	10
46	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.	4.0	52
47	Model of electron pressure anisotropy in the electron diffusion region of collisionless magnetic reconnection. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	44
48	Scales of guide field reconnection at the hydrogen mass ratio. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	72
49	Collisionless magnetic reconnection: analytical model and PIC simulation comparison. <i>Annales Geophysicae</i> , 2009, 27, 905-911.	1.6	4
50	Dipolarization fronts as a signature of transient reconnection in the magnetotail. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	272
51	The 2.5D analytical model of steady-state Hall magnetic reconnection. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	17
52	Reconnection onset in the magnetotail: Particle simulations with open boundary conditions. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	38