

# A V Divin

## List of Publications by Year in descending order

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52  
papers

1,601  
citations

257450

24  
h-index

302126

39  
g-index

63  
all docs

63  
docs citations

63  
times ranked

1076  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dipolarization fronts as a signature of transient reconnection in the magnetotail. Journal of Geophysical Research, 2009, 114, .	3.3	272
2	Scales of guide field reconnection at the hydrogen mass ratio. Physics of Plasmas, 2010, 17, .	1.9	72
3	Evolution of the lower hybrid drift instability at reconnection jet front. Journal of Geophysical Research: Space Physics, 2015, 120, 2675-2690.	2.4	70
4	Formation of a transient front structure near reconnection point in 3D PIC simulations. Journal of Geophysical Research: Space Physics, 2013, 118, 1435-1449.	2.4	67
5	Lower hybrid drift instability at a dipolarization front. Journal of Geophysical Research: Space Physics, 2015, 120, 1124-1132.	2.4	55
6	Electromagnetic energy conversion in downstream fronts from three dimensional kinetic reconnection. Physics of Plasmas, 2014, 21, .	1.9	53
7	Bipolar electric field signatures of reconnection separatrices for a hydrogen plasma at realistic guide fields. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	52
8	Electron and Ion Dynamics of the Solar Wind Interaction with a Weakly Outgassing Comet. Physical Review Letters, 2017, 118, 205101.	7.8	52
9	Numerical simulations of separatrix instabilities in collisionless magnetic reconnection. Physics of Plasmas, 2012, 19, .	1.9	51
10	Energy conversion at dipolarization fronts. Geophysical Research Letters, 2017, 44, 1234-1242.	4.0	49
11	Electromagnetic Particle-in-Cell Simulations of the Solar Wind Interaction with Lunar Magnetic Anomalies. Physical Review Letters, 2014, 112, 151102.	7.8	45
12	Model of electron pressure anisotropy in the electron diffusion region of collisionless magnetic reconnection. Physics of Plasmas, 2010, 17, .	1.9	44
13	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
14	Reconnection onset in the magnetotail: Particle simulations with open boundary conditions. Geophysical Research Letters, 2007, 34, .	4.0	38
15	Kinetic simulations of plasmoid chain dynamics. Physics of Plasmas, 2013, 20, .	1.9	38
16	Cold ion demagnetization near the X-line of magnetic reconnection. Geophysical Research Letters, 2016, 43, 6759-6767.	4.0	35
17	Cold ion heating at the dayside magnetopause during magnetic reconnection. Geophysical Research Letters, 2016, 43, 58-66.	4.0	34
18	Collisionless magnetic reconnection in a plasmoid chain. Nonlinear Processes in Geophysics, 2012, 19, 145-153.	1.3	32

#	ARTICLE	IF	CITATIONS
19	ENERGY DISSIPATION IN MAGNETIC NULL POINTS AT KINETIC SCALES. <i>Astrophysical Journal</i> , 2015, 807, 155.	4.5	32
20	MAGNETIC NULL POINTS IN KINETIC SIMULATIONS OF SPACE PLASMAS. <i>Astrophysical Journal</i> , 2016, 819, 52.	4.5	32
21	Electron Heating by Debye-Scale Turbulence in Guide-Field Reconnection. <i>Physical Review Letters</i> , 2020, 124, 045101.	7.8	31
22	Three-scale structure of diffusion region in the presence of cold ions. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 12,001.	2.4	30
23	Separatrices: The crux of reconnection. <i>Journal of Plasma Physics</i> , 2015, 81, .	2.1	26
24	MHD modeling of the double-gradient (kink) magnetic instability. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 1146-1158.	2.4	25
25	Detection of Magnetic Nulls around Reconnection Fronts. <i>Astrophysical Journal</i> , 2018, 860, 128.	4.5	25
26	Reiner Gamma albedo features reproduced by modeling solar wind standoff. <i>Communications Physics</i> , 2018, 1, .	5.3	25
27	Scaling of the inner electron diffusion region in collisionless magnetic reconnection. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	23
28	The Formation of a Magnetosphere with Implicit Particle-in-Cell Simulations. <i>Procedia Computer Science</i> , 2015, 51, 1178-1187.	2.0	22
29	Building a Weakly Outgassing Comet from a Generalized Ohm's Law. <i>Physical Review Letters</i> , 2019, 123, 055101.	7.8	21
30	Electron Energization at a Reconnecting Magnetosheath Current Sheet. <i>Geophysical Research Letters</i> , 2018, 45, 8081-8090.	4.0	20
31	Three dimensional density cavities in guide field collisionless magnetic reconnection. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	19
32	The 2.5 analytical model of steady-state Hall magnetic reconnection. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	17
33	Simulating the Reiner Gamma Swirl: The Long-Term Effect of Solar Wind Standoff. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006219.	3.6	15
34	Direct observations of anomalous resistivity and diffusion in collisionless plasma. <i>Nature Communications</i> , 2022, 13, .	12.8	15
35	Energetic particles in magnetotail reconnection. <i>Journal of Plasma Physics</i> , 2015, 81, .	2.1	14
36	The double-gradient magnetic instability: Stabilizing effect of the guide field. <i>Physics of Plasmas</i> , 2015, 22, 012904.	1.9	11

#	ARTICLE	IF	CITATIONS
37	A new model for the electron pressure nongyrotopropy in the outer electron diffusion region. Geophysical Research Letters, 2016, 43, 10,565.	4.0	11
38	Automated Classification of Plasma Regions Using 3D Particle Energy Distributions. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029620.	2.4	11
39	A 2.5-D electron Hall-MHD analytical model of steady state Hall magnetic reconnection in a compressible plasma. Journal of Geophysical Research, 2011, 116, .	3.3	10
40	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
41	Cold ion energization at separatrices during magnetic reconnection. Physics of Plasmas, 2021, 28, .	1.9	8
42	A Fully Kinetic Perspective of Electron Acceleration around a Weakly Outgassing Comet. Astrophysical Journal Letters, 2020, 889, L33.	8.3	8
43	Electron trapping in the coma of a weakly outgassing comet. Physics of Plasmas, 2019, 26, .	1.9	7
44	REFLECTED CHARGED PARTICLE POPULATIONS AROUND DIPOLAR LUNAR MAGNETIC ANOMALIES. Astrophysical Journal, 2016, 829, 60.	4.5	6
45	The Inertia-Based Model for Reconstruction of the Electron Diffusion Region. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA029045.	2.4	5
46	Collisionless magnetic reconnection: analytical model and PIC simulation comparison. Annales Geophysicae, 2009, 27, 905-911.	1.6	4
47	Role of Z-pinchs in magnetic reconnection in space plasmas. Journal of Plasma Physics, 2015, 81, .	2.1	4
48	Inner and outer electron diffusion region of antiparallel collisionless reconnection: Density dependence. Physics of Plasmas, 2019, 26, .	1.9	4
49	Grad-Shafranov reconstruction of the magnetic configuration in the reconnection X-point vicinity in compressible plasma. Physics of Plasmas, 2020, 27, .	1.9	4
50	The Plasma Environment Surrounding the Reiner Gamma Magnetic Anomaly. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029180.	2.4	4
51	The transition from "double-gradient" to ballooning unstable mode in bent magnetotail-like current sheet. Physics of Plasmas, 2019, 26, .	1.9	1
52	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