

James F Drake

List of Publications by Year in descending order

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265
papers

20,468
citations

9756

73
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12233

133
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267
all docs

267
docs citations

267
times ranked

5092
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Geospace Environmental Modeling (GEM) Magnetic Reconnection Challenge. Journal of Geophysical Research, 2001, 106, 3715-3719. | 3.3 | 1,071 |
| 2 | Electron acceleration from contracting magnetic islands during reconnection. Nature, 2006, 443, 553-556. | 13.7 | 793 |
| 3 | Parametric instabilities of electromagnetic waves in plasmas. Physics of Fluids, 1974, 17, 778. | 1.4 | 745 |
| 4 | Electron-scale measurements of magnetic reconnection in space. Science, 2016, 352, aaf2939. | 6.0 | 545 |
| 5 | The FIELDS Instrument Suite for Solar Probe Plus. Space Science Reviews, 2016, 204, 49-82. | 3.7 | 521 |
| 6 | Kinetic theory of tearing instabilities. Physics of Fluids, 1977, 20, 1341. | 1.4 | 419 |
| 7 | Alfvénic collisionless magnetic reconnection and the Hall term. Journal of Geophysical Research, 2001, 106, 3759-3772. | 3.3 | 389 |
| 8 | Formation of Electron Holes and Particle Energization During Magnetic Reconnection. Science, 2003, 299, 873-877. | 6.0 | 374 |
| 9 | Structure of the dissipation region during collisionless magnetic reconnection. Journal of Geophysical Research, 1998, 103, 9165-9176. | 3.3 | 331 |
| 10 | Transition to whistler mediated magnetic reconnection. Geophysical Research Letters, 1994, 21, 73-76. | 1.5 | 305 |
| 11 | Two-Scale Structure of the Electron Dissipation Region during Collisionless Magnetic Reconnection. Physical Review Letters, 2007, 99, 155002. | 2.9 | 275 |
| 12 | Cluster observations of electron holes in association with magnetotail reconnection and comparison to simulations. Journal of Geophysical Research, 2005, 110, . | 3.3 | 251 |
| 13 | A MAGNETIC RECONNECTION MECHANISM FOR THE GENERATION OF ANOMALOUS COSMIC RAYS. Astrophysical Journal, 2010, 709, 963-974. | 1.6 | 239 |
| 14 | The scaling of collisionless, magnetic reconnection for large systems. Geophysical Research Letters, 1999, 26, 2163-2166. | 1.5 | 237 |
| 15 | Three-dimensional fluid simulations of the nonlinear drift-resistive ballooning modes in tokamak edge plasmas. Physics of Fluids B, 1993, 5, 3712-3727. | 1.7 | 231 |
| 16 | Role of Dispersive Waves in Collisionless Magnetic Reconnection. Physical Review Letters, 2001, 87, 195004. | 2.9 | 231 |
| 17 | Three-dimensional particle simulations of collisionless magnetic reconnection. Journal of Geophysical Research, 2002, 107, SMP 6-1. | 3.3 | 231 |
| 18 | Two-Dimensional Electron Magnetohydrodynamic Turbulence. Physical Review Letters, 1996, 76, 1264-1267. | 2.9 | 230 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Phase Space of Tokamak Edge Turbulence, the \tilde{H} Transition, and the Formation of the Edge Pedestal. <i>Physical Review Letters</i> , 1998, 81, 4396-4399. | 2.9 | 230 |
| 20 | Formation of secondary islands during magnetic reconnection. <i>Geophysical Research Letters</i> , 2006, 33, . | 1.5 | 221 |
| 21 | Electron-scale dynamics of the diffusion region during symmetric magnetic reconnection in space. <i>Science</i> , 2018, 362, 1391-1395. | 6.0 | 221 |
| 22 | Electron magnetohydrodynamic turbulence. <i>Physics of Plasmas</i> , 1999, 6, 751-758. | 0.7 | 200 |
| 23 | Nonlinear reduced Braginskii equations with ion thermal dynamics in toroidal plasma. <i>Physics of Plasmas</i> , 1997, 4, 2134-2138. | 0.7 | 199 |
| 24 | The role of electron dissipation on the rate of collisionless magnetic reconnection. <i>Geophysical Research Letters</i> , 1998, 25, 3759-3762. | 1.5 | 195 |
| 25 | Two-fluid theory of collisionless magnetic reconnection. <i>Physics of Plasmas</i> , 1997, 4, 1002-1009. | 0.7 | 193 |
| 26 | Production of Energetic Electrons during Magnetic Reconnection. <i>Physical Review Letters</i> , 2005, 94, 095001. | 2.9 | 190 |
| 27 | Linear analysis of the double-tearing mode. <i>Physics of Fluids</i> , 1980, 23, 1368. | 1.4 | 178 |
| 28 | The mechanisms of electron heating and acceleration during magnetic reconnection. <i>Physics of Plasmas</i> , 2014, 21, . | 0.7 | 172 |
| 29 | Spontaneous poloidal spin-up of tokamaks and the transition to the H mode. <i>Physical Review Letters</i> , 1991, 66, 309-312. | 2.9 | 169 |
| 30 | The Hall fields and fast magnetic reconnection. <i>Physics of Plasmas</i> , 2008, 15, . | 0.7 | 168 |
| 31 | Lower-hybrid-drift instability in field reversed plasmas. <i>Physics of Fluids</i> , 1980, 23, 552. | 1.4 | 166 |
| 32 | Ion-Controlled Collisionless Magnetic Reconnection. <i>Physical Review Letters</i> , 1995, 75, 3850-3853. | 2.9 | 153 |
| 33 | A MAGNETIC RECONNECTION MECHANISM FOR ION ACCELERATION AND ABUNDANCE ENHANCEMENTS IN IMPULSIVE FLARES. <i>Astrophysical Journal</i> , 2009, 700, L16-L20. | 1.6 | 153 |
| 34 | Fast reconnection in high temperature plasmas. <i>Physics of Plasmas</i> , 1995, 2, 23-34. | 0.7 | 152 |
| 35 | Ion heating resulting from pickup in magnetic reconnection exhausts. <i>Journal of Geophysical Research</i> , 2009, 114, . | 3.3 | 151 |
| 36 | Structure of Thin Current Layers: Implications for Magnetic Reconnection. <i>Physical Review Letters</i> , 1994, 73, 1251-1254. | 2.9 | 150 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 37 | Evidence for an Elongated Diffusion Region during Fast Magnetic Reconnection. <i>Physical Review Letters</i> , 2007, 99, 255002. | 2.9 | 150 |
| 38 | Marfes: Radiative condensation in tokamak edge plasma. <i>Physics of Fluids</i> , 1987, 30, 2429. | 1.4 | 145 |
| 39 | Catastrophe Model for Fast Magnetic Reconnection Onset. <i>Physical Review Letters</i> , 2005, 95, 235002. | 2.9 | 144 |
| 40 | A current filamentation mechanism for breaking magnetic field lines during reconnection. <i>Nature</i> , 2011, 474, 184-187. | 13.7 | 137 |
| 41 | THE VECTOR DIRECTION OF THE INTERSTELLAR MAGNETIC FIELD OUTSIDE THE HELIOSPHERE. <i>Astrophysical Journal</i> , 2010, 710, 1769-1775. | 1.6 | 131 |
| 42 | THE DEPENDENCE OF MAGNETIC RECONNECTION ON PLASMA β^2 AND MAGNETIC SHEAR: EVIDENCE FROM SOLAR WIND OBSERVATIONS. <i>Astrophysical Journal Letters</i> , 2010, 719, L199-L203. | 3.0 | 130 |
| 43 | THE POWER-LAW SPECTRA OF ENERGETIC PARTICLES DURING MULTI-ISLAND MAGNETIC RECONNECTION. <i>Astrophysical Journal Letters</i> , 2013, 763, L5. | 3.0 | 130 |
| 44 | The scaling of embedded collisionless reconnection. <i>Physics of Plasmas</i> , 2004, 11, 2199-2213. | 0.7 | 126 |
| 45 | Microtearing Modes and Anomalous Transport in Tokamaks. <i>Physical Review Letters</i> , 1980, 44, 994-997. | 2.9 | 125 |
| 46 | Evidence and theory for trapped electrons in guide field magnetotail reconnection. <i>Journal of Geophysical Research</i> , 2008, 113, . | 3.3 | 124 |
| 47 | Stabilization of the tearing mode in high-temperature plasma. <i>Physics of Fluids</i> , 1983, 26, 2509. | 1.4 | 118 |
| 48 | The dependence of magnetic reconnection on plasma β^2 and magnetic shear: Evidence from magnetopause observations. <i>Geophysical Research Letters</i> , 2013, 40, 11-16. | 1.5 | 109 |
| 49 | Peeling of convection cells and the generation of sheared flow. <i>Physics of Fluids B</i> , 1992, 4, 488-491. | 1.7 | 108 |
| 50 | Electron temperature gradient driven microtearing mode. <i>Physics of Fluids</i> , 1980, 23, 1182. | 1.4 | 107 |
| 51 | Kinetic signatures of the region surrounding the X line in asymmetric (magnetopause) reconnection. <i>Geophysical Research Letters</i> , 2016, 43, 4145-4154. | 1.5 | 106 |
| 52 | Nonlinear Evolution of Collisionless and Semicollisional Tearing Modes. <i>Physical Review Letters</i> , 1977, 39, 453-456. | 2.9 | 105 |
| 53 | Scaling of Sweet-Parker reconnection with secondary islands. <i>Physics of Plasmas</i> , 2009, 16, 120702. | 0.7 | 104 |
| 54 | MAGNETIZED JETS DRIVEN BY THE SUN: THE STRUCTURE OF THE HELIOSPHERE REVISITED. <i>Astrophysical Journal Letters</i> , 2015, 800, L28. | 3.0 | 103 |

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|----|--|-----|-----------|
| 55 | Electron bulk heating in magnetic reconnection at Earth's magnetopause: Dependence on the inflow Alfvén speed and magnetic shear. <i>Geophysical Research Letters</i> , 2013, 40, 4475-4480. | 1.5 | 101 |
| 56 | Breakup of the electron current layer during 3-D collisionless magnetic reconnection. <i>Geophysical Research Letters</i> , 1997, 24, 2921-2924. | 1.5 | 100 |
| 57 | MMS observations of electron-scale filamentary currents in the reconnection exhaust and near the X line. <i>Geophysical Research Letters</i> , 2016, 43, 6060-6069. | 1.5 | 99 |
| 58 | Collisionless reconnection and the sawtooth crash. <i>Physical Review Letters</i> , 1991, 66, 1458-1461. | 2.9 | 96 |
| 59 | Evidence for collisionless magnetic reconnection at Mars. <i>Geophysical Research Letters</i> , 2008, 35, . | 1.5 | 94 |
| 60 | Nonlinear reduced fluid equations for toroidal plasmas. <i>Physics of Fluids</i> , 1984, 27, 898. | 1.4 | 93 |
| 61 | Streamer Formation in Plasma with a Temperature Gradient. <i>Physical Review Letters</i> , 1988, 61, 2205-2208. | 2.9 | 85 |
| 62 | Inherently three dimensional magnetic reconnection: A mechanism for bursty bulk flows?. <i>Geophysical Research Letters</i> , 2003, 30, . | 1.5 | 84 |
| 63 | MMS observations of large guide field symmetric reconnection between colliding reconnection jets at the center of a magnetic flux rope at the magnetopause. <i>Geophysical Research Letters</i> , 2016, 43, 5536-5544. | 1.5 | 84 |
| 64 | Electron acceleration in three-dimensional magnetic reconnection with a guide field. <i>Physics of Plasmas</i> , 2015, 22, . | 0.7 | 83 |
| 65 | Enhancement of Turbulence in Tokamaks by Magnetic Fluctuations. <i>Physical Review Letters</i> , 1997, 79, 229-232. | 2.9 | 82 |
| 66 | Orientation of the reconnection X-line. <i>Geophysical Research Letters</i> , 2007, 34, . | 1.5 | 82 |
| 67 | The effects of turbulence on three-dimensional magnetic reconnection at the magnetopause. <i>Geophysical Research Letters</i> , 2016, 43, 6020-6027. | 1.5 | 80 |
| 68 | Spontaneous poloidal spin-up of tokamak plasmas: Reduced equations, physical mechanism, and sonic regimes. <i>Physics of Fluids B</i> , 1993, 5, 4022-4029. | 1.7 | 77 |
| 69 | Local variables affecting H-mode threshold on Alcator C-Mod. <i>Plasma Physics and Controlled Fusion</i> , 1998, 40, 689-692. | 0.9 | 77 |
| 70 | Three-dimensional fluid simulations of tokamak edge turbulence. <i>Physics of Plasmas</i> , 1996, 3, 2951-2960. | 0.7 | 76 |
| 71 | Transition from antiparallel to component magnetic reconnection. <i>Journal of Geophysical Research</i> , 2005, 110, . | 3.3 | 76 |
| 72 | Energy Partition in Magnetic Reconnection in Earth's Magnetotail. <i>Physical Review Letters</i> , 2013, 110, 225001. | 2.9 | 75 |

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| 73 | Temporally Growing Raman Backscattering Instabilities in an Inhomogeneous Plasma. <i>Physical Review Letters</i> , 1973, 31, 1197-1200. | 2.9 | 74 |
| 74 | Electron heating during magnetic reconnection: A simulation scaling study. <i>Physics of Plasmas</i> , 2014, 21, . | 0.7 | 74 |
| 75 | Magnetospheric Multiscale Observations of the Electron Diffusion Region of Large Guide Field Magnetic Reconnection. <i>Physical Review Letters</i> , 2016, 117, 015001. | 2.9 | 74 |
| 76 | A statistical model of magnetic islands in a current layer. <i>Physics of Plasmas</i> , 2010, 17, . | 0.7 | 73 |
| 77 | Ion bulk heating in magnetic reconnection exhausts at Earth's magnetopause: Dependence on the inflow Alfvén speed and magnetic shear angle. <i>Geophysical Research Letters</i> , 2014, 41, 7002-7010. | 1.5 | 73 |
| 78 | A Model for Spontaneous Onset of Fast Magnetic Reconnection. <i>Astrophysical Journal</i> , 2006, 644, L145-L148. | 1.6 | 72 |
| 79 | Nonlinear evolution of drift-tearing modes. <i>Physics of Fluids</i> , 1985, 28, 275-277. | 1.4 | 71 |
| 80 | IS THE MAGNETIC FIELD IN THE HELIOSHEATH LAMINAR OR A TURBULENT SEA OF BUBBLES?. <i>Astrophysical Journal</i> , 2011, 734, 71. | 1.6 | 71 |
| 81 | The competition of electron and ion heating during magnetic reconnection. <i>Geophysical Research Letters</i> , 2015, 42, 9657-9665. | 1.5 | 70 |
| 82 | Onset of Fast Magnetic Reconnection. <i>Physical Review Letters</i> , 2007, 98, 215001. | 2.9 | 69 |
| 83 | Electron holes and heating in the reconnection dissipation region. <i>Geophysical Research Letters</i> , 2010, 37, . | 1.5 | 69 |
| 84 | Parallel electric fields are inefficient drivers of energetic electrons in magnetic reconnection. <i>Physics of Plasmas</i> , 2016, 23, . | 0.7 | 68 |
| 85 | The structure of the magnetic reconnection exhaust boundary. <i>Physics of Plasmas</i> , 2012, 19, . | 0.7 | 67 |
| 86 | Nonlinear Self-Sustained Drift-Wave Turbulence. <i>Physical Review Letters</i> , 1995, 75, 4222-4225. | 2.9 | 66 |
| 87 | Super-Alfvénic Propagation of Substorm Reconnection Signatures and Poynting Flux. <i>Physical Review Letters</i> , 2011, 107, 065001. | 2.9 | 66 |
| 88 | Magnetospheric Multiscale observations of large-amplitude, parallel, electrostatic waves associated with magnetic reconnection at the magnetopause. <i>Geophysical Research Letters</i> , 2016, 43, 5626-5634. | 1.5 | 66 |
| 89 | ENERGETIC PROTONS, RADIONUCLIDES, AND MAGNETIC ACTIVITY IN PROTOSTELLAR DISKS. <i>Astrophysical Journal</i> , 2009, 703, 2152-2159. | 1.6 | 65 |
| 90 | Parker Solar Probe In Situ Observations of Magnetic Reconnection Exhausts during Encounter 1. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 34. | 3.0 | 65 |

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|-----|--|-----|-----------|
| 91 | Secondary Magnetic Islands Generated by the Kelvin-Helmholtz Instability in a Reconnecting Current Sheet. <i>Physical Review Letters</i> , 2012, 108, 255005. | 2.9 | 63 |
| 92 | Diamagnetic stabilization of ideal ballooning modes in the edge pedestal. <i>Physics of Plasmas</i> , 1999, 6, 2797-2801. | 0.7 | 62 |
| 93 | Stochastic $E\tilde{A}$ - B particle transport. <i>Physics of Fluids</i> , 1984, 27, 1686. | 1.4 | 61 |
| 94 | Signatures of collisionless magnetic reconnection. <i>Journal of Geophysical Research</i> , 2003, 108, . | 3.3 | 61 |
| 95 | Magnetospheric Multiscale Satellites Observations of Parallel Electric Fields Associated with Magnetic Reconnection. <i>Physical Review Letters</i> , 2016, 116, 235102. | 2.9 | 61 |
| 96 | Transition from ion-coupled to electron-only reconnection: Basic physics and implications for plasma turbulence. <i>Physics of Plasmas</i> , 2019, 26, . | 0.7 | 61 |
| 97 | Current Fragmentation and Particle Acceleration in Solar Flares. <i>Space Science Reviews</i> , 2012, 173, 223-245. | 3.7 | 59 |
| 98 | Breaking of Large-Amplitude Waves as a Result of Relativistic Electron-Mass Variation. <i>Physical Review Letters</i> , 1976, 36, 196-200. | 2.9 | 57 |
| 99 | On the role of the lower hybrid drift instability in substorm dynamics. <i>Journal of Geophysical Research</i> , 1981, 86, 5881-5884. | 3.3 | 57 |
| 100 | Local Negative Shear and the Formation of Transport Barriers. <i>Physical Review Letters</i> , 1996, 77, 494-497. | 2.9 | 57 |
| 101 | Ion temperature anisotropy across a magnetotail reconnection jet. <i>Geophysical Research Letters</i> , 2015, 42, 7239-7247. | 1.5 | 57 |
| 102 | Analytic theory of resistive ballooning modes. <i>Physics of Fluids</i> , 1985, 28, 544. | 1.4 | 56 |
| 103 | Magnetic reconnection in collisionless plasmas: Prescribed fields. <i>Journal of Geophysical Research</i> , 1990, 95, 18833-18848. | 3.3 | 55 |
| 104 | SUPPRESSION OF ELECTRON THERMAL CONDUCTION IN THE HIGH $\hat{\nu}^2$ INTRACLUSTER MEDIUM OF GALAXY CLUSTERS. <i>Astrophysical Journal Letters</i> , 2016, 830, L9. | 3.0 | 54 |
| 105 | Theory and Modeling for the Magnetospheric Multiscale Mission. <i>Space Science Reviews</i> , 2016, 199, 577-630. | 3.7 | 53 |
| 106 | Prominence formation in a coronal loop. <i>Astrophysical Journal</i> , 1990, 359, 228. | 1.6 | 53 |
| 107 | Formation of a localized acceleration potential during magnetic reconnection with a guide field. <i>Physics of Plasmas</i> , 2009, 16, . | 0.7 | 52 |
| 108 | Observation and Interpretation of Magnetic-Field-Line Reconnection and Tearing in a Theta Pinch. <i>Physical Review Letters</i> , 1979, 42, 228-231. | 2.9 | 50 |

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|-----|--|-----|-----------|
| 109 | On the 3D structure and dissipation of reconnection-driven flow bursts. Geophysical Research Letters, 2014, 41, 3710-3716. | 1.5 | 50 |
| 110 | Instability of fluid vortices and generation of sheared flow. Physics of Fluids B, 1992, 4, 2758-2768. | 1.7 | 49 |
| 111 | Transition from resistive ballooning to \hat{i} -driven turbulence in tokamaks. Physics of Plasmas, 1998, 5, 2654-2663. | 0.7 | 49 |
| 112 | THE ACCELERATION OF IONS IN SOLAR FLARES DURING MAGNETIC RECONNECTION. Astrophysical Journal Letters, 2011, 743, L35. | 3.0 | 49 |
| 113 | Dynamics of the Sawtooth Collapse in Tokamak Plasmas. Physical Review Letters, 1994, 73, 971-974. | 2.9 | 48 |
| 114 | Nonlinear mode coupling theory of the lower-hybrid-drift instability. Physics of Fluids, 1984, 27, 1148. | 1.4 | 47 |
| 115 | Skin Currents and Compound Sawteeth in Tokamaks. Physical Review Letters, 1986, 56, 2477-2480. | 2.9 | 47 |
| 116 | Stability of resistive and ideal ballooning modes in the Texas Experimental Tokamak and DIII-D. Physics of Fluids B, 1992, 4, 1846-1854. | 1.7 | 47 |
| 117 | Theory and simulation of Kelvin-Helmholtz instability in the geomagnetic tail. Journal of Geophysical Research, 1996, 101, 27327-27339. | 3.3 | 47 |
| 118 | Nonlinear Development of Streaming Instabilities in Strongly Magnetized Plasma. Physical Review Letters, 2009, 102, 145004. | 2.9 | 47 |
| 119 | Kinetic theory of $m=1$ internal instabilities. Physics of Fluids, 1978, 21, 1777. | 1.4 | 46 |
| 120 | Radiative instabilities in a sheared magnetic field. Physics of Fluids, 1988, 31, 813. | 1.4 | 46 |
| 121 | Asymmetric magnetic reconnection with a flow shear and applications to the magnetopause. Journal of Geophysical Research: Space Physics, 2015, 120, 7748-7763. | 0.8 | 46 |
| 122 | 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 |
| 123 | Sunward-propagating Whistler Waves Collocated with Localized Magnetic Field Holes in the Solar Wind: Parker Solar Probe Observations at $35.7 R_{\odot}$ Radii. Astrophysical Journal Letters, 2020, 891, L20. | 3.0 | 46 |
| 124 | Catastrophic onset of fast magnetic reconnection with a guide field. Physics of Plasmas, 2007, 14, 054502. | 0.7 | 45 |
| 125 | Universality of Lower Hybrid Waves at Earth's Magnetopause. Journal of Geophysical Research: Space Physics, 2019, 124, 8727-8760. | 0.8 | 45 |
| 126 | A POROUS, LAYERED HELIOPAUSE. Astrophysical Journal Letters, 2013, 774, L8. | 3.0 | 44 |

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|-----|---|-----|-----------|
| 127 | Physical mechanism of enhanced stability from negative shear in tokamaks: Implications for edge transport and the L-H transition. <i>Physics of Plasmas</i> , 1996, 3, 2221-2223. | 0.7 | 43 |
| 128 | Magnitude of the Hall fields during magnetic reconnection. <i>Geophysical Research Letters</i> , 2010, 37, . | 1.5 | 43 |
| 129 | Influence of asymmetries and guide fields on the magnetic reconnection diffusion region in collisionless space plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2013, 55, 124001. | 0.9 | 43 |
| 130 | A MODEL OF THE HELIOSPHERE WITH JETS. <i>Astrophysical Journal Letters</i> , 2015, 808, L44. | 3.0 | 43 |
| 131 | Comparison of a statistical model for magnetic islands in large current layers with Hall MHD simulations and Cluster FTE observations. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a. | 3.3 | 42 |
| 132 | Localized Oscillatory Energy Conversion in Magnetopause Reconnection. <i>Geophysical Research Letters</i> , 2018, 45, 1237-1245. | 1.5 | 41 |
| 133 | Magnetic field diffusion and dissipation in reversed-field plasmas. <i>Physics of Fluids</i> , 1981, 24, 78. | 1.4 | 40 |
| 134 | Stabilization of the lower-hybrid-drift instability in finite- β^2 plasmas. <i>Physics of Fluids</i> , 1983, 26, 2247-4 | 1.4 | 39 |
| 135 | Density limit disruptions in tokamaks. <i>Physics of Fluids B</i> , 1991, 3, 372-383. | 1.7 | 39 |
| 136 | Reconnection onset in the magnetotail: Particle simulations with open boundary conditions. <i>Geophysical Research Letters</i> , 2007, 34, . | 1.5 | 38 |
| 137 | Development of a Turbulent Outflow During Electron-Positron Magnetic Reconnection. <i>Astrophysical Journal</i> , 2008, 680, 999-1008. | 1.6 | 38 |
| 138 | THE EFFECTS OF PLASMA BETA AND ANISOTROPY INSTABILITIES ON THE DYNAMICS OF RECONNECTING MAGNETIC FIELDS IN THE HELIOSHEATH. <i>Astrophysical Journal</i> , 2011, 743, 70. | 1.6 | 38 |
| 139 | ON THE ROTATION OF THE MAGNETIC FIELD ACROSS THE HELIOPAUSE. <i>Astrophysical Journal Letters</i> , 2013, 778, L26. | 3.0 | 38 |
| 140 | New unstable branch of drift resistive ballooning modes in tokamaks. <i>Physics of Plasmas</i> , 1995, 2, 781-791. | 0.7 | 37 |
| 141 | Turbulence in Three-Dimensional Simulations of Magnetopause Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 11,086. | 0.8 | 37 |
| 142 | A computational model for exploring particle acceleration during reconnection in macroscale systems. <i>Physics of Plasmas</i> , 2019, 26, . | 0.7 | 37 |
| 143 | A model of the bifurcated current sheet: 2. Flapping motions. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a. | 1.5 | 36 |
| 144 | Reconnection With Magnetic Flux Pileup at the Interface of Converging Jets at the Magnetopause. <i>Geophysical Research Letters</i> , 2019, 46, 1937-1946. | 1.5 | 36 |

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|-----|--|------|-----------|
| 145 | Theory of ion temperature gradient instabilities: Thresholds and transport. <i>Physics of Fluids B</i> , 1990, 2, 1822-1832. | 1.7 | 35 |
| 146 | Magnetic explosions in space. <i>Nature</i> , 2001, 410, 525-526. | 13.7 | 35 |
| 147 | Irreversibility and transport in the lower hybrid drift instability. <i>Physics of Fluids</i> , 1981, 24, 1115. | 1.4 | 34 |
| 148 | Guide Field Reconnection: Exhaust Structure and Heating. <i>Geophysical Research Letters</i> , 2018, 45, 4569-4577. | 1.5 | 34 |
| 149 | The rippling instability. <i>Physics of Fluids</i> , 1983, 26, 133. | 1.4 | 33 |
| 150 | The onset of turbulence in collisionless magnetic reconnection. <i>Geophysical Research Letters</i> , 2000, 27, 3157-3160. | 1.5 | 33 |
| 151 | Equations of state in collisionless magnetic reconnection. <i>Physics of Plasmas</i> , 2010, 17, . | 0.7 | 33 |
| 152 | Ion Heating and Acceleration During Magnetic Reconnection Relevant to the Corona. <i>Space Science Reviews</i> , 2012, 172, 227-240. | 3.7 | 33 |
| 153 | The development of a bursty precipitation front with intense localized parallel electric fields driven by whistler waves. <i>Geophysical Research Letters</i> , 2015, 42, 2563-2570. | 1.5 | 33 |
| 154 | Wave Generation and Heat Flux Suppression in Astrophysical Plasma Systems. <i>Astrophysical Journal</i> , 2018, 867, 154. | 1.6 | 33 |
| 155 | Turbulence and transport in the magnetopause current layer. <i>Journal of Geophysical Research</i> , 1994, 99, 11211. | 3.3 | 32 |
| 156 | THE IMPACT OF MICROSCOPIC MAGNETIC RECONNECTION ON PRE-FLARE ENERGY STORAGE. <i>Astrophysical Journal</i> , 2009, 707, L158-L162. | 1.6 | 32 |
| 157 | The Acceleration Mechanism of Anomalous Cosmic Rays. <i>Space Science Reviews</i> , 2012, 173, 283-307. | 3.7 | 32 |
| 158 | Magnetic Reconnection in Toroidal α -Mode Turbulence. <i>Physical Review Letters</i> , 2000, 84, 99-102. | 2.9 | 31 |
| 159 | The onset of ion heating during magnetic reconnection with a strong guide field. <i>Physics of Plasmas</i> , 2014, 21, . | 0.7 | 31 |
| 160 | Physical mechanism of wave-particle resonances in an inhomogeneous magnetic field. I. Linear theory. <i>Physics of Fluids</i> , 1981, 24, 1650. | 1.4 | 30 |
| 161 | Formation of the shear layer in toroidal edge plasma. <i>Physics of Fluids B</i> , 1993, 5, 1188-1199. | 1.7 | 30 |
| 162 | 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 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 163 | Nonlinear Stability of Drift-Tearing Modes. <i>Physical Review Letters</i> , 1985, 54, 1027-1030. | 2.9 | 28 |
| 164 | Three-dimensional equilibrium and stability of ionospheric plasma clouds. <i>Physics of Fluids</i> , 1988, 31, 3412. | 1.4 | 28 |
| 165 | Ion tearing in a magnetotail configuration with an embedded thin current sheet. <i>Journal of Geophysical Research</i> , 1992, 97, 16749-16756. | 3.3 | 28 |
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