

James F Drake

List of Publications by Year in descending order

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265
papers

20,468
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5092
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| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Parker Solar Probe Observations of Solar Wind Energetic Proton Beams Produced by Magnetic Reconnection in the Near-Sun Heliospheric Current Sheet. <i>Geophysical Research Letters</i> , 2022, 49, . | 4.0 | 15 |
| 2 | Electron energization and thermal to non-thermal energy partition during earth's magnetotail reconnection. <i>Physics of Plasmas</i> , 2022, 29, . | 1.9 | 7 |
| 3 | The reversibility of magnetic reconnection. <i>Physics of Plasmas</i> , 2021, 28, . | 1.9 | 3 |
| 4 | Spatial evolution of magnetic reconnection diffusion region structures with distance from the X-line. <i>Physics of Plasmas</i> , 2021, 28, . | 1.9 | 3 |
| 5 | Electron Inflow Velocities and Reconnection Rates at Earth's Magnetopause and Magnetosheath. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089082. | 4.0 | 23 |
| 6 | Turbulence and Transport During Guide Field Reconnection at the Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027498. | 2.4 | 7 |
| 7 | Sunward-propagating Whistler Waves Collocated with Localized Magnetic Field Holes in the Solar Wind: Parker Solar Probe Observations at $35.7 R_{\odot}$ Radii. <i>Astrophysical Journal Letters</i> , 2020, 891, L20. | 8.3 | 46 |
| 8 | Parker Solar Probe In Situ Observations of Magnetic Reconnection Exhausts during Encounter 1. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 34. | 7.7 | 65 |
| 9 | Energy Flux Densities near the Electron Dissipation Region in Asymmetric Magnetopause Reconnection. <i>Physical Review Letters</i> , 2020, 125, 265102. | 7.8 | 17 |
| 10 | Decomposition of plasma kinetic entropy into position and velocity space and the use of kinetic entropy in particle-in-cell simulations. <i>Physics of Plasmas</i> , 2019, 26, . | 1.9 | 20 |
| 11 | Particle heating and energy partition in low- β^2 guide field reconnection with kinetic Riemann simulations. <i>Physics of Plasmas</i> , 2019, 26, . | 1.9 | 16 |
| 12 | Transition from ion-coupled to electron-only reconnection: Basic physics and implications for plasma turbulence. <i>Physics of Plasmas</i> , 2019, 26, . | 1.9 | 61 |
| 13 | Reconnection With Magnetic Flux Pileup at the Interface of Converging Jets at the Magnetopause. <i>Geophysical Research Letters</i> , 2019, 46, 1937-1946. | 4.0 | 36 |
| 14 | A computational model for exploring particle acceleration during reconnection in macroscale systems. <i>Physics of Plasmas</i> , 2019, 26, . | 1.9 | 37 |
| 15 | Large-scale parallel electric fields and return currents in a global simulation model. <i>Physics of Plasmas</i> , 2019, 26, . | 1.9 | 15 |
| 16 | Instabilities and turbulence in low- β^2 guide field reconnection exhausts with kinetic Riemann simulations. <i>Physics of Plasmas</i> , 2019, 26, . | 1.9 | 6 |
| 17 | Magnetic Reconnection in Three Dimensions: Modeling and Analysis of Electromagnetic Drift Waves in the Adjacent Current Sheet. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 10085-10103. | 2.4 | 18 |
| 18 | Universality of Lower Hybrid Waves at Earth's Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 8727-8760. | 2.4 | 45 |

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|----|--|------|-----------|
| 19 | Nonlinear Electrostatic Steepening of Whistler Waves: The Guiding Factors and Dynamics in Inhomogeneous Systems. Geophysical Research Letters, 2018, 45, 2168-2176. | 4.0 | 27 |
| 20 | Guide Field Reconnection: Exhaust Structure and Heating. Geophysical Research Letters, 2018, 45, 4569-4577. | 4.0 | 34 |
| 21 | Localized Oscillatory Energy Conversion in Magnetopause Reconnection. Geophysical Research Letters, 2018, 45, 1237-1245. | 4.0 | 41 |
| 22 | Super-Alfvenic Propagation and Damping of Reconnection Onset Signatures. Journal of Geophysical Research: Space Physics, 2018, 123, 341-349. | 2.4 | 9 |
| 23 | Characterizing Ion Flows Across a Magnetotail Dipolarization Jet. Journal of Geophysical Research: Space Physics, 2018, 123, 6326-6334. | 2.4 | 4 |
| 24 | Wave Generation and Heat Flux Suppression in Astrophysical Plasma Systems. Astrophysical Journal, 2018, 867, 154. | 4.5 | 33 |
| 25 | Electron-scale dynamics of the diffusion region during symmetric magnetic reconnection in space. Science, 2018, 362, 1391-1395. | 12.6 | 221 |
| 26 | The reduction of magnetic reconnection outflow jets to sub-Alfvenic speeds. Physics of Plasmas, 2018, 25, . | 1.9 | 20 |
| 27 | Localized and Intense Energy Conversion in the Diffusion Region of Asymmetric Magnetic Reconnection. Geophysical Research Letters, 2018, 45, 5260-5267. | 4.0 | 26 |
| 28 | The Twist of the Draped Interstellar Magnetic Field Ahead of the Heliopause: A Magnetic Reconnection Driven Rotational Discontinuity. Astrophysical Journal Letters, 2017, 839, L12. | 8.3 | 26 |
| 29 | Drift waves, intense parallel electric fields, and turbulence associated with asymmetric magnetic reconnection at the magnetopause. Geophysical Research Letters, 2017, 44, 2978-2986. | 4.0 | 46 |
| 30 | The Formation of Magnetic Depletions and Flux Annihilation Due to Reconnection in the Heliosheath. Astrophysical Journal, 2017, 837, 159. | 4.5 | 15 |
| 31 | Electron holes in the outer radiation belt: Characteristics and their role in electron energization. Journal of Geophysical Research: Space Physics, 2017, 122, 120-135. | 2.4 | 30 |
| 32 | Structure of Exhausts in Magnetic Reconnection with an X-line of Finite Extent. Astrophysical Journal, 2017, 848, 90. | 4.5 | 5 |
| 33 | Turbulence in Three-Dimensional Simulations of Magnetopause Reconnection. Journal of Geophysical Research: Space Physics, 2017, 122, 11,086. | 2.4 | 37 |
| 34 | The Effect of a Guide Field on Local Energy Conversion During Asymmetric Magnetic Reconnection: Particle-in-Cell Simulations. Journal of Geophysical Research: Space Physics, 2017, 122, 11,523. | 2.4 | 27 |
| 35 | SUPPRESSION OF ELECTRON THERMAL CONDUCTION IN THE HIGH β^2 INTRACLUSTER MEDIUM OF GALAXY CLUSTERS. Astrophysical Journal Letters, 2016, 830, L9. | 8.3 | 54 |
| 36 | Magnetized jets driven by the Sun: The structure of the heliosphere revisitedâ€”Updates. Physics of Plasmas, 2016, 23, . | 1.9 | 13 |

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|----|--|------|-----------|
| 37 | Electron holes in inhomogeneous magnetic field: Electron heating and electron hole evolution. Physics of Plasmas, 2016, 23, . | 1.9 | 24 |
| 38 | Parallel electric fields are inefficient drivers of energetic electrons in magnetic reconnection. Physics of Plasmas, 2016, 23, . | 1.9 | 68 |
| 39 | Electron-scale measurements of magnetic reconnection in space. Science, 2016, 352, aaf2939. | 12.6 | 545 |
| 40 | MMS observations of electron-scale filamentary currents in the reconnection exhaust and near the X line. Geophysical Research Letters, 2016, 43, 6060-6069. | 4.0 | 99 |
| 41 | MMS observations of large guide field symmetric reconnection between colliding reconnection jets at the center of a magnetic flux rope at the magnetopause. Geophysical Research Letters, 2016, 43, 5536-5544. | 4.0 | 84 |
| 42 | Magnetospheric Multiscale Satellites Observations of Parallel Electric Fields Associated with Magnetic Reconnection. Physical Review Letters, 2016, 116, 235102. | 7.8 | 61 |
| 43 | Magnetospheric Multiscale Observations of the Electron Diffusion Region of Large Guide Field Magnetic Reconnection. Physical Review Letters, 2016, 117, 015001. | 7.8 | 74 |
| 44 | The effects of turbulence on three-dimensional magnetic reconnection at the magnetopause. Geophysical Research Letters, 2016, 43, 6020-6027. | 4.0 | 80 |
| 45 | VOYAGER OBSERVATIONS OF MAGNETIC SECTORS AND HELIOSPHERIC CURRENT SHEET CROSSINGS IN THE OUTER HELIOSPHERE. Astrophysical Journal, 2016, 831, 115. | 4.5 | 8 |
| 46 | Kinetic signatures of the region surrounding the X line in asymmetric (magnetopause) reconnection. Geophysical Research Letters, 2016, 43, 4145-4154. | 4.0 | 106 |
| 47 | The FIELDS Instrument Suite for Solar Probe Plus. Space Science Reviews, 2016, 204, 49-82. | 8.1 | 521 |
| 48 | Magnetospheric Multiscale observations of large-amplitude, parallel, electrostatic waves associated with magnetic reconnection at the magnetopause. Geophysical Research Letters, 2016, 43, 5626-5634. | 4.0 | 66 |
| 49 | Theory and Modeling for the Magnetospheric Multiscale Mission. Space Science Reviews, 2016, 199, 577-630. | 8.1 | 53 |
| 50 | The competition of electron and ion heating during magnetic reconnection. Geophysical Research Letters, 2015, 42, 9657-9665. | 4.0 | 70 |
| 51 | Electron acceleration in three-dimensional magnetic reconnection with a guide field. Physics of Plasmas, 2015, 22, . | 1.9 | 83 |
| 52 | Ion temperature anisotropy across a magnetotail reconnection jet. Geophysical Research Letters, 2015, 42, 7239-7247. | 4.0 | 57 |
| 53 | A MODEL OF THE HELIOSPHERE WITH JETS. Astrophysical Journal Letters, 2015, 808, L44. | 8.3 | 43 |
| 54 | Asymmetric magnetic reconnection with a flow shear and applications to the magnetopause. Journal of Geophysical Research: Space Physics, 2015, 120, 7748-7763. | 2.4 | 46 |

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| 55 | MAGNETIZED JETS DRIVEN BY THE SUN: THE STRUCTURE OF THE HELIOSPHERE REVISITED. <i>Astrophysical Journal Letters</i> , 2015, 800, L28. | 8.3 | 103 |
| 56 | 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. | 4.0 | 33 |
| 57 | Fast magnetic reconnection due to anisotropic electron pressure. <i>Physics of Plasmas</i> , 2015, 22, . | 1.9 | 24 |
| 58 | DYNAMICS OF DOUBLE LAYERS, ION ACCELERATION, AND HEAT FLUX SUPPRESSION DURING SOLAR FLARES. <i>Astrophysical Journal</i> , 2014, 793, 7. | 4.5 | 19 |
| 59 | Electron heating during magnetic reconnection: A simulation scaling study. <i>Physics of Plasmas</i> , 2014, 21, . | 1.9 | 74 |
| 60 | The mechanisms of electron heating and acceleration during magnetic reconnection. <i>Physics of Plasmas</i> , 2014, 21, . | 1.9 | 172 |
| 61 | The onset of ion heating during magnetic reconnection with a strong guide field. <i>Physics of Plasmas</i> , 2014, 21, . | 1.9 | 31 |
| 62 | Magnetic Reconnection in the Interior of Interplanetary Coronal Mass Ejections. <i>Physical Review Letters</i> , 2014, 113, 031101. | 7.8 | 15 |
| 63 | DEPENDENCE OF ENERGETIC ION AND ELECTRON INTENSITIES ON PROXIMITY TO THE MAGNETICALLY SECTORED HELIOSHEATH: <i>VOYAGER 1</i> AND <i>2</i> OBSERVATIONS. <i>Astrophysical Journal</i> , 2014, 781, 94. | 4.5 | 19 |
| 64 | 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. | 4.0 | 73 |
| 65 | On the 3D structure and dissipation of reconnection-driven flow bursts. <i>Geophysical Research Letters</i> , 2014, 41, 3710-3716. | 4.0 | 50 |
| 66 | A POROUS, LAYERED HELIOPAUSE. <i>Astrophysical Journal Letters</i> , 2013, 774, L8. | 8.3 | 44 |
| 67 | PROBING THE NATURE OF THE HELIOSHEATH WITH THE NEUTRAL ATOM SPECTRA MEASURED BY <i>IBEX</i> IN THE <i>VOYAGER 1</i> DIRECTION. <i>Astrophysical Journal Letters</i> , 2013, 776, L32. | 8.3 | 17 |
| 68 | Energy Partition in Magnetic Reconnection in Earth's Magnetotail. <i>Physical Review Letters</i> , 2013, 110, 225001. | 7.8 | 75 |
| 69 | 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. | 4.0 | 109 |
| 70 | ON THE ROTATION OF THE MAGNETIC FIELD ACROSS THE HELIOPAUSE. <i>Astrophysical Journal Letters</i> , 2013, 778, L26. | 8.3 | 38 |
| 71 | On phase diagrams of magnetic reconnection. <i>Physics of Plasmas</i> , 2013, 20, . | 1.9 | 27 |
| 72 | The adiabatic phase mixing and heating of electrons in Buneman turbulence. <i>Physics of Plasmas</i> , 2013, 20, . | 1.9 | 18 |

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| 73 | Influence of asymmetries and guide fields on the magnetic reconnection diffusion region in collisionless space plasmas. Plasma Physics and Controlled Fusion, 2013, 55, 124001. | 2.1 | 43 |
| 74 | CORONAL ELECTRON CONFINEMENT BY DOUBLE LAYERS. Astrophysical Journal, 2013, 778, 144. | 4.5 | 14 |
| 75 | MAGNETIC FLUX CONSERVATION IN THE HELIOSHEATH. Astrophysical Journal Letters, 2013, 762, L14. | 8.3 | 23 |
| 76 | THE POWER-LAW SPECTRA OF ENERGETIC PARTICLES DURING MULTI-ISLAND MAGNETIC RECONNECTION. Astrophysical Journal Letters, 2013, 763, L5. | 8.3 | 130 |
| 77 | ON THE CAUSE OF SUPRA-ARCADE DOWNFLOWS IN SOLAR FLARES. Astrophysical Journal Letters, 2013, 775, L14. | 8.3 | 26 |
| 78 | THE ROLE OF PRESSURE ANISOTROPY ON PARTICLE ACCELERATION DURING MAGNETIC RECONNECTION. Astrophysical Journal, 2013, 764, 126. | 4.5 | 15 |
| 79 | Electron bulk heating in magnetic reconnection at Earth's magnetopause: Dependence on the inflow Alfvén speed and magnetic shear. Geophysical Research Letters, 2013, 40, 4475-4480. | 4.0 | 101 |
| 80 | SCALING OF THE GROWTH RATE OF MAGNETIC ISLANDS IN THE HELIOSHEATH. Astrophysical Journal Letters, 2012, 750, L30. | 8.3 | 7 |
| 81 | Current Fragmentation and Particle Acceleration in Solar Flares. Space Science Reviews, 2012, 173, 223-245. | 8.1 | 59 |
| 82 | Ion Heating and Acceleration During Magnetic Reconnection Relevant to the Corona. Space Science Reviews, 2012, 172, 227-240. | 8.1 | 33 |
| 83 | The Acceleration Mechanism of Anomalous Cosmic Rays. Space Science Reviews, 2012, 173, 283-307. | 8.1 | 32 |
| 84 | Test of Shi et al. method to infer the magnetic reconnection geometry from spacecraft data: MHD simulation with guide field and antiparallel kinetic simulation. Journal of Geophysical Research, 2012, 117, . | 3.3 | 17 |
| 85 | The structure of the magnetic reconnection exhaust boundary. Physics of Plasmas, 2012, 19, . | 1.9 | 67 |
| 86 | NEAR THE BOUNDARY OF THE HELIOSPHERE: A FLOW TRANSITION REGION. Astrophysical Journal, 2012, 751, 80. | 4.5 | 25 |
| 87 | SUPPRESSION OF ENERGETIC ELECTRON TRANSPORT IN FLARES BY DOUBLE LAYERS. Astrophysical Journal, 2012, 757, 20. | 4.5 | 24 |
| 88 | Secondary Magnetic Islands Generated by the Kelvin-Helmholtz Instability in a Reconnecting Current Sheet. Physical Review Letters, 2012, 108, 255005. | 7.8 | 63 |
| 89 | THE EFFECTS OF PLASMA BETA AND ANISOTROPY INSTABILITIES ON THE DYNAMICS OF RECONNECTING MAGNETIC FIELDS IN THE HELIOSHEATH. Astrophysical Journal, 2011, 743, 70. | 4.5 | 38 |
| 90 | The effects of strong temperature anisotropy on the kinetic structure of collisionless slow shocks and reconnection exhausts. II. Theory. Physics of Plasmas, 2011, 18, . | 1.9 | 23 |

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| 91 | 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 |
| 92 | A current filamentation mechanism for breaking magnetic field lines during reconnection. <i>Nature</i> , 2011, 474, 184-187. | 27.8 | 137 |
| 93 | The effects of strong temperature anisotropy on the kinetic structure of collisionless slow shocks and reconnection exhausts. I. Particle-in-cell simulations. <i>Physics of Plasmas</i> , 2011, 18, . | 1.9 | 25 |
| 94 | THE ACCELERATION OF IONS IN SOLAR FLARES DURING MAGNETIC RECONNECTION. <i>Astrophysical Journal Letters</i> , 2011, 743, L35. | 8.3 | 49 |
| 95 | IS THE MAGNETIC FIELD IN THE HELIOSHEATH LAMINAR OR A TURBULENT SEA OF BUBBLES?. <i>Astrophysical Journal</i> , 2011, 734, 71. | 4.5 | 71 |
| 96 | Super-Alfvénic Propagation of Substorm Reconnection Signatures and Poynting Flux. <i>Physical Review Letters</i> , 2011, 107, 065001. | 7.8 | 66 |
| 97 | Publisher's Note: Super-Alfvénic Propagation of Substorm Reconnection Signatures and Poynting Flux [Phys. Rev. Lett.107, 065001 (2011)]. <i>Physical Review Letters</i> , 2011, 107, . | 7.8 | 2 |
| 98 | Wave associated anomalous drag during magnetic field reconnection. <i>Physics of Plasmas</i> , 2011, 18, . | 1.9 | 28 |
| 99 | A MAGNETIC RECONNECTION MECHANISM FOR THE GENERATION OF ANOMALOUS COSMIC RAYS. <i>Astrophysical Journal</i> , 2010, 709, 963-974. | 4.5 | 239 |
| 100 | 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. | 8.3 | 130 |
| 101 | THE VECTOR DIRECTION OF THE INTERSTELLAR MAGNETIC FIELD OUTSIDE THE HELIOSPHERE. <i>Astrophysical Journal</i> , 2010, 710, 1769-1775. | 4.5 | 131 |
| 102 | Three-dimensional simulations of the orientation and structure of reconnection X-lines. <i>Physics of Plasmas</i> , 2010, 17, . | 1.9 | 21 |
| 103 | A saddle-node bifurcation model of magnetic reconnection onset. <i>Physics of Plasmas</i> , 2010, 17, . | 1.9 | 21 |
| 104 | A statistical model of magnetic islands in a current layer. <i>Physics of Plasmas</i> , 2010, 17, . | 1.9 | 73 |
| 105 | Equations of state in collisionless magnetic reconnection. <i>Physics of Plasmas</i> , 2010, 17, . | 1.9 | 33 |
| 106 | Magnitude of the Hall fields during magnetic reconnection. <i>Geophysical Research Letters</i> , 2010, 37, . | 4.0 | 43 |
| 107 | Electron holes and heating in the reconnection dissipation region. <i>Geophysical Research Letters</i> , 2010, 37, . | 4.0 | 69 |
| 108 | Test of methods to infer the magnetic reconnection geometry from spacecraft data. <i>Journal of Geophysical Research</i> , 2010, 115, . | 3.3 | 22 |

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| 109 | ENERGETIC PROTONS, RADIONUCLIDES, AND MAGNETIC ACTIVITY IN PROTOSTELLAR DISKS. <i>Astrophysical Journal</i> , 2009, 703, 2152-2159. | 4.5 | 65 |
| 110 | THE IMPACT OF MICROSCOPIC MAGNETIC RECONNECTION ON PRE-FLARE ENERGY STORAGE. <i>Astrophysical Journal</i> , 2009, 707, L158-L162. | 4.5 | 32 |
| 111 | The Weibel instability inside the electron-positron Harris sheet. <i>Physics of Plasmas</i> , 2009, 16, 042101. | 1.9 | 9 |
| 112 | Formation of a localized acceleration potential during magnetic reconnection with a guide field. <i>Physics of Plasmas</i> , 2009, 16, . | 1.9 | 52 |
| 113 | Nonlinear Development of Streaming Instabilities in Strongly Magnetized Plasma. <i>Physical Review Letters</i> , 2009, 102, 145004. | 7.8 | 47 |
| 114 | Scaling of Sweet-Parker reconnection with secondary islands. <i>Physics of Plasmas</i> , 2009, 16, 120702. | 1.9 | 104 |
| 115 | The hall effect in magnetic reconnection: Hybrid versus Hall-less hybrid simulations. <i>Geophysical Research Letters</i> , 2009, 36, . | 4.0 | 24 |
| 116 | Ion heating resulting from pickup in magnetic reconnection exhausts. <i>Journal of Geophysical Research</i> , 2009, 114, . | 3.3 | 151 |
| 117 | A MAGNETIC RECONNECTION MECHANISM FOR ION ACCELERATION AND ABUNDANCE ENHANCEMENTS IN IMPULSIVE FLARES. <i>Astrophysical Journal</i> , 2009, 700, L16-L20. | 4.5 | 153 |
| 118 | Evidence for collisionless magnetic reconnection at Mars. <i>Geophysical Research Letters</i> , 2008, 35, . | 4.0 | 94 |
| 119 | The existence and properties of the distant magnetotail during 32 hours of strongly northward interplanetary magnetic field. <i>Journal of Geophysical Research</i> , 2008, 113, . | 3.3 | 13 |
| 120 | Evidence and theory for trapped electrons in guide field magnetotail reconnection. <i>Journal of Geophysical Research</i> , 2008, 113, . | 3.3 | 124 |
| 121 | The Hall fields and fast magnetic reconnection. <i>Physics of Plasmas</i> , 2008, 15, . | 1.9 | 168 |
| 122 | Development of a Turbulent Outflow During Electron-Positron Magnetic Reconnection. <i>Astrophysical Journal</i> , 2008, 680, 999-1008. | 4.5 | 38 |
| 123 | Catastrophic onset of fast magnetic reconnection with a guide field. <i>Physics of Plasmas</i> , 2007, 14, 054502. | 1.9 | 45 |
| 124 | Evidence for an Elongated ($\langle \mathbf{m} \rangle = \langle \mathbf{m} \rangle$) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 Diffusion Region during Fast Magnetic Reconnection. <i>Physical Review Letters</i> , 2007, 99, 255002. | 7.8 | 150 |
| 125 | Two-Scale Structure of the Electron Dissipation Region during Collisionless Magnetic Reconnection. <i>Physical Review Letters</i> , 2007, 99, 155002. | 7.8 | 275 |
| 126 | Onset of Fast Magnetic Reconnection. <i>Physical Review Letters</i> , 2007, 98, 215001. | 7.8 | 69 |

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| 127 | Reconnection onset in the magnetotail: Particle simulations with open boundary conditions. Geophysical Research Letters, 2007, 34, . | 4.0 | 38 |
| 128 | Orientation of the reconnection X-line. Geophysical Research Letters, 2007, 34, . | 4.0 | 82 |
| 129 | Equation Free Projective Integration: A multiscale method applied to a plasma ion acoustic wave. Journal of Computational Physics, 2007, 226, 571-585. | 3.8 | 23 |
| 130 | Formation of secondary islands during magnetic reconnection. Geophysical Research Letters, 2006, 33, . | 4.0 | 221 |
| 131 | A Model for Spontaneous Onset of Fast Magnetic Reconnection. Astrophysical Journal, 2006, 644, L145-L148. | 4.5 | 72 |
| 132 | Electron acceleration from contracting magnetic islands during reconnection. Nature, 2006, 443, 553-556. | 27.8 | 793 |
| 133 | Production of Energetic Electrons during Magnetic Reconnection. Physical Review Letters, 2005, 94, 095001. | 7.8 | 190 |
| 134 | Catastrophe Model for Fast Magnetic Reconnection Onset. Physical Review Letters, 2005, 95, 235002. | 7.8 | 144 |
| 135 | Cluster observations of electron holes in association with magnetotail reconnection and comparison to simulations. Journal of Geophysical Research, 2005, 110, . | 3.3 | 251 |
| 136 | Transition from antiparallel to component magnetic reconnection. Journal of Geophysical Research, 2005, 110, . | 3.3 | 76 |
| 137 | The scaling of embedded collisionless reconnection. Physics of Plasmas, 2004, 11, 2199-2213. | 1.9 | 126 |
| 138 | Singular structure of magnetic islands resulting from reconnection. Physics of Plasmas, 2004, 11, 5668-5672. | 1.9 | 12 |
| 139 | A model of the bifurcated current sheet: 2. Flapping motions. Geophysical Research Letters, 2004, 31, n/a-n/a. | 4.0 | 36 |
| 140 | Inherently three dimensional magnetic reconnection: A mechanism for bursty bulk flows?. Geophysical Research Letters, 2003, 30, . | 4.0 | 84 |
| 141 | Signatures of collisionless magnetic reconnection. Journal of Geophysical Research, 2003, 108, . | 3.3 | 61 |
| 142 | Formation of Electron Holes and Particle Energization During Magnetic Reconnection. Science, 2003, 299, 873-877. | 12.6 | 374 |
| 143 | Impact of Frustrated Singularities on Magnetic Island Evolution. Physical Review Letters, 2003, 91, 125002. | 7.8 | 23 |
| 144 | Three-dimensional particle simulations of collisionless magnetic reconnection. Journal of Geophysical Research, 2002, 107, SMP 6-1. | 3.3 | 231 |

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| 145 | Alfvénic collisionless magnetic reconnection and the Hall term. Journal of Geophysical Research, 2001, 106, 3759-3772. | 3.3 | 389 |
| 146 | Role of Dispersive Waves in Collisionless Magnetic Reconnection. Physical Review Letters, 2001, 87, 195004. | 7.8 | 231 |
| 147 | Geospace Environmental Modeling (GEM) Magnetic Reconnection Challenge. Journal of Geophysical Research, 2001, 106, 3715-3719. | 3.3 | 1,071 |
| 148 | Magnetic explosions in space. Nature, 2001, 410, 525-526. | 27.8 | 35 |
| 149 | Magnetic Reconnection in Toroidal \hat{z} -Mode Turbulence. Physical Review Letters, 2000, 84, 99-102. | 7.8 | 31 |
| 150 | Liquid metal flow encasing a magnetic cavity. Physics of Plasmas, 2000, 7, 1081-1084. | 1.9 | 2 |
| 151 | The onset of turbulence in collisionless magnetic reconnection. Geophysical Research Letters, 2000, 27, 3157-3160. | 4.0 | 33 |
| 152 | Diamagnetic stabilization of ideal ballooning modes in the edge pedestal. Physics of Plasmas, 1999, 6, 2797-2801. | 1.9 | 62 |
| 153 | Electron magnetohydrodynamic turbulence. Physics of Plasmas, 1999, 6, 751-758. | 1.9 | 200 |
| 154 | Whistler turbulence at the magnetopause: 1. Reduced equations and linear theory. Journal of Geophysical Research, 1999, 104, 6919-6928. | 3.3 | 13 |
| 155 | The scaling of collisionless, magnetic reconnection for large systems. Geophysical Research Letters, 1999, 26, 2163-2166. | 4.0 | 237 |
| 156 | Tokamak edge turbulence and the L-H transition. European Physical Journal D, 1998, 48, 50-50. | 0.4 | 0 |
| 157 | The role of electron dissipation on the rate of collisionless magnetic reconnection. Geophysical Research Letters, 1998, 25, 3759-3762. | 4.0 | 195 |
| 158 | Phase Space of Tokamak Edge Turbulence, the \hat{z} -H Transition, and the Formation of the Edge Pedestal. Physical Review Letters, 1998, 81, 4396-4399. | 7.8 | 230 |
| 159 | Structure of the dissipation region during collisionless magnetic reconnection. Journal of Geophysical Research, 1998, 103, 9165-9176. | 3.3 | 331 |
| 160 | Local variables affecting H-mode threshold on Alcator C-Mod. Plasma Physics and Controlled Fusion, 1998, 40, 689-692. | 2.1 | 77 |
| 161 | Transition from resistive ballooning to \hat{z} -driven turbulence in tokamaks. Physics of Plasmas, 1998, 5, 2654-2663. | 1.9 | 49 |
| 162 | Enhancement of Turbulence in Tokamaks by Magnetic Fluctuations. Physical Review Letters, 1997, 79, 229-232. | 7.8 | 82 |

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| 163 | Three-dimensional simulations of the parallel velocity shear instability. Physics of Plasmas, 1997, 4, 300-309. | 1.9 | 26 |
| 164 | Electron temperature fluctuations in drift-resistive ballooning turbulence. Physics of Plasmas, 1997, 4, 991-1001. | 1.9 | 18 |
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