

Michael Hesse

List of Publications by Citations

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168
papers

9,024
citations

51
h-index

91
g-index

177
ext. papers

9,812
ext. citations

4
avg, IF

6.04
L-index

| # | Paper | IF | Citations |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 168 | Geospace Environmental Modeling (GEM) Magnetic Reconnection Challenge. <i>Journal of Geophysical Research</i> , 2001 , 106, 3715-3719 | | 970 |
| 167 | Electron-scale measurements of magnetic reconnection in space. <i>Science</i> , 2016 , 352, aaf2939 | 33.3 | 418 |
| 166 | The diffusion region in collisionless magnetic reconnection. <i>Physics of Plasmas</i> , 1999 , 6, 1781-1795 | 2.1 | 337 |
| 165 | General magnetic reconnection, parallel electric fields, and helicity. <i>Journal of Geophysical Research</i> , 1988 , 93, 5547 | | 337 |
| 164 | A theoretical foundation of general magnetic reconnection. <i>Journal of Geophysical Research</i> , 1988 , 93, 5559 | | 260 |
| 163 | Geotail observations of magnetic flux ropes in the plasma sheet. <i>Journal of Geophysical Research</i> , 2003 , 108, SMP 10-1 | | 237 |
| 162 | Three-dimensional magnetic reconnection and the magnetic topology of coronal mass ejection events. <i>Geophysical Research Letters</i> , 1995 , 22, 869-872 | 4.9 | 224 |
| 161 | Cluster observations of an intense normal component of the electric field at a thin reconnecting current sheet in the tail and its role in the shock-like acceleration of the ion fluid into the separatrix region. <i>Journal of Geophysical Research</i> , 2005 , 110, | | 222 |
| 160 | Bursty bulk flows and dipolarization in MHD simulations of magnetotail reconnection. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a | | 199 |
| 159 | On the propagation of bubbles in the geomagnetic tail. <i>Annales Geophysicae</i> , 2004 , 22, 1773-1786 | 2 | 188 |
| 158 | New measure of the dissipation region in collisionless magnetic reconnection. <i>Physical Review Letters</i> , 2011 , 106, 195003 | 7.4 | 159 |
| 157 | Collisionless magnetic reconnection: Electron processes and transport modeling. <i>Journal of Geophysical Research</i> , 2001 , 106, 3721-3735 | | 159 |
| 156 | Substorm electron injections: Geosynchronous observations and test particle simulations. <i>Journal of Geophysical Research</i> , 1998 , 103, 9235-9248 | | 147 |
| 155 | Electron-scale dynamics of the diffusion region during symmetric magnetic reconnection in space. <i>Science</i> , 2018 , 362, 1391-1395 | 33.3 | 139 |
| 154 | Details of current disruption and diversion in simulations of magnetotail dynamics. <i>Journal of Geophysical Research</i> , 1996 , 101, 15345-15358 | | 132 |
| 153 | Substorm ion injections: Geosynchronous observations and test particle orbits in three-dimensional dynamic MHD fields. <i>Journal of Geophysical Research</i> , 1997 , 102, 2325-2341 | | 128 |
| 152 | The substorm current wedge and field-aligned currents in MHD simulations of magnetotail reconnection. <i>Journal of Geophysical Research</i> , 1991 , 96, 1611-1618 | | 126 |

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| 151 | Particle acceleration in dipolarization events. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 1960-1971 | 2.6 | 125 |
| 150 | Magnetosphere-Ionosphere Interactions: A Tutorial Review. <i>Geophysical Monograph Series</i> , 2000 , 91-106 | 1.1 | 124 |
| 149 | Multi-point observations of the Hall electromagnetic field and secondary island formation during magnetic reconnection. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a | | 115 |
| 148 | On the electron diffusion region in planar, asymmetric, systems. <i>Geophysical Research Letters</i> , 2014 , 41, 8673-8680 | 4.9 | 109 |
| 147 | The Diffusion Region in Collisionless Magnetic Reconnection. <i>Space Science Reviews</i> , 2011 , 160, 3-23 | 7.5 | 105 |
| 146 | Kinetic quasi-viscous and bulk flow inertia effects in collisionless magnetotail reconnection. <i>Journal of Geophysical Research</i> , 1998 , 103, 199-213 | | 97 |
| 145 | Collisionless reconnection supported by nongyrotropic pressure effects in hybrid and particle simulations. <i>Journal of Geophysical Research</i> , 2001 , 106, 3799-3810 | | 92 |
| 144 | Electron dissipation in collisionless magnetic reconnection. <i>Journal of Geophysical Research</i> , 1998 , 103, 26479-26486 | | 90 |
| 143 | Why does Steady-State Magnetic Reconnection have a Maximum Local Rate of Order 0.1?. <i>Physical Review Letters</i> , 2017 , 118, 085101 | 7.4 | 83 |
| 142 | The structure of the dissipation region for component reconnection: Particle simulations. <i>Geophysical Research Letters</i> , 2002 , 29, 4-1 | 4.9 | 83 |
| 141 | Electron acceleration in the dynamic magnetotail: Test particle orbits in three-dimensional magnetohydrodynamic simulation fields. <i>Physics of Plasmas</i> , 2004 , 11, 1825-1833 | 2.1 | 79 |
| 140 | Energy release and conversion by reconnection in the magnetotail. <i>Annales Geophysicae</i> , 2005 , 23, 3365-3373 | | 79 |
| 139 | The substorm current wedge in MHD simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 3364-3376 | 2.6 | 77 |
| 138 | The role of electron heat flux in guide-field magnetic reconnection. <i>Physics of Plasmas</i> , 2004 , 11, 5387-5397 | 2.7 | 74 |
| 137 | Hybrid simulations of collisionless reconnection in current sheets. <i>Journal of Geophysical Research</i> , 1994 , 99, 11177 | | 74 |
| 136 | Properties of asymmetric magnetic reconnection. <i>Physics of Plasmas</i> , 2008 , 15, 032101 | 2.1 | 69 |
| 135 | TWO-FLUID MAGNETOHYDRODYNAMIC SIMULATIONS OF RELATIVISTIC MAGNETIC RECONNECTION. <i>Astrophysical Journal</i> , 2009 , 696, 1385-1401 | 4.7 | 67 |
| 134 | Cluster observations of traveling compression regions in the near-tail. <i>Journal of Geophysical Research</i> , 2005 , 110, | | 66 |

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| 133 | Multiscale modeling of magnetospheric reconnection. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a | | 64 |
| 132 | The reconnection of magnetic fields between plasmas with different densities: Scaling relations. <i>Physics of Plasmas</i> , 2007 , 14, 102309 | 2.1 | 62 |
| 131 | Electron distribution functions in the diffusion region of asymmetric magnetic reconnection. <i>Geophysical Research Letters</i> , 2016 , 43, 1828-1836 | 4.9 | 62 |
| 130 | Particle-in-cell simulations of three-dimensional collisionless magnetic reconnection. <i>Journal of Geophysical Research</i> , 2001 , 106, 29831-29841 | | 61 |
| 129 | Magnetospheric Multiscale Observations of the Electron Diffusion Region of Large Guide Field Magnetic Reconnection. <i>Physical Review Letters</i> , 2016 , 117, 015001 | 7.4 | 60 |
| 128 | On the Relation between Reconnected Magnetic Flux and Parallel Electric Fields in the Solar Corona. <i>Astrophysical Journal</i> , 2005 , 631, 1227-1238 | 4.7 | 60 |
| 127 | ISEE 3 observations of plasmoids with flux rope magnetic topologies. <i>Geophysical Research Letters</i> , 1995 , 22, 2061-2064 | 4.9 | 58 |
| 126 | The substorm current wedge: Further insights from MHD simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 3503-3513 | 2.6 | 57 |
| 125 | Simultaneous observations of earthward flow bursts and plasmoid ejection during magnetospheric substorms. <i>Journal of Geophysical Research</i> , 2002 , 107, SMP 13-1 | | 56 |
| 124 | Electron energization and mixing observed by MMS in the vicinity of an electron diffusion region during magnetopause reconnection. <i>Geophysical Research Letters</i> , 2016 , 43, 6036-6043 | 4.9 | 55 |
| 123 | Onset of reconnection in the near magnetotail: PIC simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 9773-9789 | 2.6 | 55 |
| 122 | Electron nongyrotropy in the context of collisionless magnetic reconnection. <i>Physics of Plasmas</i> , 2013 , 20, 092903 | 2.1 | 55 |
| 121 | Particle acceleration in the dynamic magnetotail: Orbits in self-consistent three-dimensional MHD fields. <i>Journal of Geophysical Research</i> , 1994 , 99, 109 | | 54 |
| 120 | Three-dimensional magnetotail equilibria by numerical relaxation techniques. <i>Journal of Geophysical Research</i> , 1993 , 98, 3973-3982 | | 53 |
| 119 | Electron energization and structure of the diffusion region during asymmetric reconnection. <i>Geophysical Research Letters</i> , 2016 , 43, 2405-2412 | 4.9 | 53 |
| 118 | Scaling of asymmetric reconnection in compressible plasmas. <i>Physics of Plasmas</i> , 2010 , 17, 052108 | 2.1 | 52 |
| 117 | Magnetospheric Multiscale Satellites Observations of Parallel Electric Fields Associated with Magnetic Reconnection. <i>Physical Review Letters</i> , 2016 , 116, 235102 | 7.4 | 50 |
| 116 | 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 | 4.9 | 49 |

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| 115 | Spatiotemporal evolution of electron characteristics in the electron diffusion region of magnetic reconnection: Implications for acceleration and heating. <i>Geophysical Research Letters</i> , 2015 , 42, 2586-2593 | 4.9 | 49 |
| 114 | Particle-in-cell simulation of collisionless reconnection with open outflow boundaries. <i>Physics of Plasmas</i> , 2008 , 15, 082102 | 2.1 | 49 |
| 113 | Aspects of collisionless magnetic reconnection in asymmetric systems. <i>Physics of Plasmas</i> , 2013 , 20, 061210 | 2.1 | 48 |
| 112 | The onset of magnetic reconnection in the magnetotail. <i>Earth, Planets and Space</i> , 2001 , 53, 645-653 | 2.9 | 48 |
| 111 | Dissipation in magnetic reconnection with a guide magnetic field. <i>Physics of Plasmas</i> , 2006 , 13, 122107 | 2.1 | 47 |
| 110 | Hybrid simulations of collisionless ion tearing. <i>Geophysical Research Letters</i> , 1993 , 20, 1207-1210 | 4.9 | 47 |
| 109 | The structure of the electron outflow jet in collisionless magnetic reconnection. <i>Physics of Plasmas</i> , 2008 , 15, 112102 | 2.1 | 46 |
| 108 | Computing magnetospheric force equilibria. <i>Journal of Geophysical Research</i> , 2003 , 108, | | 45 |
| 107 | Theory and Modeling for the Magnetospheric Multiscale Mission. <i>Space Science Reviews</i> , 2016 , 199, 577-630 | 2.6 | 42 |
| 106 | Electron diffusion region during magnetopause reconnection with an intermediate guide field: Magnetospheric multiscale observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 5235-5246 | 2.6 | 41 |
| 105 | Forced reconnection in the near magnetotail: Onset and energy conversion in PIC and MHD simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 290-309 | 2.6 | 41 |
| 104 | Dissipation in relativistic pair-plasma reconnection. <i>Physics of Plasmas</i> , 2007 , 14, 112102 | 2.1 | 41 |
| 103 | On the electron diffusion region in asymmetric reconnection with a guide magnetic field. <i>Geophysical Research Letters</i> , 2016 , 43, 2359-2364 | 4.9 | 41 |
| 102 | Magnetic Reconnection, Turbulence, and Particle Acceleration: Observations in the Earth's Magnetotail. <i>Geophysical Research Letters</i> , 2018 , 45, 3338-3347 | 4.9 | 40 |
| 101 | Energetic ions in dipolarization events. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 7698-7717 | 2.1 | 39 |
| 100 | Hybrid modeling of collisionless reconnection in two-dimensional current sheets: Simulations. <i>Journal of Geophysical Research</i> , 1995 , 100, 21815-21825 | | 37 |
| 99 | On the ion-scale structure of thin current sheets in the magnetotail. <i>Physica Scripta</i> , 1998 , T74, 63-66 | 2.6 | 36 |
| 98 | Drift waves, intense parallel electric fields, and turbulence associated with asymmetric magnetic reconnection at the magnetopause. <i>Geophysical Research Letters</i> , 2017 , 44, 2978-2986 | 4.9 | 35 |

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| 97 | Energy release and transfer in guide field reconnection. <i>Physics of Plasmas</i> , 2010 , 17, 012109 | 2.1 | 33 |
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| 95 | Localized Oscillatory Energy Conversion in Magnetopause Reconnection. <i>Geophysical Research Letters</i> , 2018 , 45, 1237-1245 | 4.9 | 31 |
| 94 | MHD simulations of the transition of magnetic reconnection from closed to open field lines. <i>Journal of Geophysical Research</i> , 1996 , 101, 10805-10816 | | 31 |
| 93 | Measurement of the Magnetic Reconnection Rate in the Earth's Magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 9150-9168 | 2.6 | 31 |
| 92 | Observational Evidence of Magnetic Reconnection in the Terrestrial Bow Shock Transition Region. <i>Geophysical Research Letters</i> , 2019 , 46, 562-570 | 4.9 | 28 |
| 91 | A simple model of core field generation during plasmoid evolution. <i>Journal of Geophysical Research</i> , 1996 , 101, 10797-10804 | | 28 |
| 90 | On the cessation of magnetic reconnection. <i>Annales Geophysicae</i> , 2004 , 22, 603-612 | 2 | 27 |
| 89 | The Scientific Foundations of Forecasting Magnetospheric Space Weather. <i>Space Science Reviews</i> , 2017 , 212, 1221-1252 | 7.5 | 26 |
| 88 | Structure of the Current Sheet in the 11 July 2017 Electron Diffusion Region Event. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 1173-1186 | 2.6 | 25 |
| 87 | A new look at driven magnetic reconnection at the terrestrial subsolar magnetopause. <i>Journal of Geophysical Research</i> , 2004 , 109, | | 25 |
| 86 | Three-Dimensional Magnetic Reconnection With a Spatially Confined X-Line Extent: Implications for Dipolarizing Flux Bundles and the Dawn-Dusk Asymmetry. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 2819-2830 | 2.6 | 24 |
| 85 | MMS Observation of Asymmetric Reconnection Supported by 3-D Electron Pressure Divergence. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 1806 | 2.6 | 24 |
| 84 | Magnetic Reconnection in a Quasi-Parallel Shock: Two-Dimensional Local Particle-in-Cell Simulation. <i>Geophysical Research Letters</i> , 2019 , 46, 9352-9361 | 4.9 | 23 |
| 83 | Reconnection in substorms and solar flares: analogies and differences. <i>Annales Geophysicae</i> , 2009 , 27, 1067-1078 | 2 | 23 |
| 82 | Three-dimensional modeling of electron quasiviscous dissipation in guide-field magnetic reconnection. <i>Physics of Plasmas</i> , 2005 , 12, 100704 | 2.1 | 23 |
| 81 | On the role of separatrix instabilities in heating the reconnection outflow region. <i>Physics of Plasmas</i> , 2018 , 25, 122902 | 2.1 | 23 |
| 80 | Comparison between hybrid and fully kinetic models of asymmetric magnetic reconnection: Coplanar and guide field configurations. <i>Physics of Plasmas</i> , 2013 , 20, 022902 | 2.1 | 22 |

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| 79 | Dual spacecraft observations of lobe magnetic field perturbations before, during and after plasmoid release. <i>Geophysical Research Letters</i> , 1999 , 26, 2897-2900 | 4.9 | 22 |
| 78 | Reconnection rates in driven magnetic reconnection. <i>Physics of Plasmas</i> , 2007 , 14, 082306 | 2.1 | 21 |
| 77 | Electron Diffusion Regions in Magnetotail Reconnection Under Varying Guide Fields. <i>Geophysical Research Letters</i> , 2019 , 46, 6230-6238 | 4.9 | 20 |
| 76 | Tail reconnection in the global magnetospheric context: Vlasiator first results. <i>Annales Geophysicae</i> , 2017 , 35, 1269-1274 | 2 | 20 |
| 75 | Test of methods to infer the magnetic reconnection geometry from spacecraft data. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a | | 19 |
| 74 | A simple, analytical model of collisionless magnetic reconnection in a pair plasma. <i>Physics of Plasmas</i> , 2009 , 16, 102106 | 2.1 | 19 |
| 73 | Analysis of Magnetotail Flux Ropes with Strong Core Fields: ISEE 3 Observations. <i>Journal of Geomagnetism and Geoelectricity</i> , 1996 , 48, 589-601 | | 19 |
| 72 | The Impact of Oxygen on the Reconnection Rate. <i>Geophysical Research Letters</i> , 2019 , 46, 6195-6203 | 4.9 | 18 |
| 71 | Orientation of X lines in asymmetric magnetic reconnection Mass ratio dependency. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 7331-7341 | 2.6 | 18 |
| 70 | Formation of thin bifurcated current sheets by quasisteady compression. <i>Physics of Plasmas</i> , 2008 , 15, 042902 | 2.1 | 18 |
| 69 | Mass Loading the Earth's Dayside Magnetopause Boundary Layer and Its Effect on Magnetic Reconnection. <i>Geophysical Research Letters</i> , 2019 , 46, 6204-6213 | 4.9 | 17 |
| 68 | How the IMF By Induces a Local By Component During Northward IMF Bz and Characteristic Timescales. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 3333-3348 | 2.6 | 17 |
| 67 | The role of compressibility in energy release by magnetic reconnection. <i>Physics of Plasmas</i> , 2012 , 19, 082109 | 2.1 | 17 |
| 66 | Acceleration of oxygen ions in the dynamic magnetotail. <i>Annales Geophysicae</i> , 2004 , 22, 1305-1315 | 2 | 17 |
| 65 | Magnetosphere-ionosphere coupling during plasmoid evolution: First results. <i>Journal of Geophysical Research</i> , 1991 , 96, 11513 | | 17 |
| 64 | Particle-in-cell simulations of collisionless magnetic reconnection with a non-uniform guide field. <i>Physics of Plasmas</i> , 2016 , 23, 032302 | 2.1 | 17 |
| 63 | The effect of reconnection electric field on crescent and U-shaped distribution functions in asymmetric reconnection with no guide field. <i>Physics of Plasmas</i> , 2017 , 24, 072903 | 2.1 | 16 |
| 62 | Test of Shi et al. method to infer the magnetic reconnection geometry from spacecraft data: MHD simulation with guide field and antiparallel kinetic simulation. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a | | 16 |

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| 61 | Near- and Mid-Tail Current Flow During Substorms: Small- and Large-Scale Aspects of Current Disruption. <i>Geophysical Monograph Series</i> , 2000 , 295-303 | 1.1 | 16 |
| 60 | The physical foundation of the reconnection electric field. <i>Physics of Plasmas</i> , 2018 , 25, 032901 | 2.1 | 15 |
| 59 | Ion beams in the plasma sheet boundary layer. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 7522-7535 | 2.6 | 15 |
| 58 | Magnetospheric signature of an ionospheric traveling convection vortex event. <i>Journal of Geophysical Research</i> , 2002 , 107, SMP 5-1 | | 15 |
| 57 | Suppression of collisionless magnetic reconnection in asymmetric current sheets. <i>Physics of Plasmas</i> , 2016 , 23, 060704 | 2.1 | 14 |
| 56 | Lower-Hybrid Drift Waves Driving Electron Nongyrotropic Heating and Vortical Flows in a Magnetic Reconnection Layer. <i>Physical Review Letters</i> , 2020 , 125, 025103 | 7.4 | 13 |
| 55 | On the Collisionless Asymmetric Magnetic Reconnection Rate. <i>Geophysical Research Letters</i> , 2018 , 45, 3311-3318 | 4.9 | 13 |
| 54 | Two-scale ion meandering caused by the polarization electric field during asymmetric reconnection. <i>Geophysical Research Letters</i> , 2016 , 43, 7831-7839 | 4.9 | 13 |
| 53 | Electron Acceleration and Thermalization at Magnetotail Separatrices. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027440 | 2.6 | 12 |
| 52 | Strongly localized magnetic reconnection by the super-Alfvénic shear flow. <i>Physics of Plasmas</i> , 2018 , 25, | 2.1 | 12 |
| 51 | Magnetic reconnection in a compressible MHD plasma. <i>Physics of Plasmas</i> , 2011 , 18, 042104 | 2.1 | 12 |
| 50 | The asymmetric geospace as displayed during the geomagnetic storm on 17 August 2001. <i>Annales Geophysicae</i> , 2018 , 36, 1577-1596 | 2 | 12 |
| 49 | The two-fluid dynamics and energetics of the asymmetric magnetic reconnection in laboratory and space plasmas. <i>Nature Communications</i> , 2018 , 9, 5223 | 17.4 | 12 |
| 48 | Population Mixing in Asymmetric Magnetic Reconnection with a Guide Field. <i>Physical Review Letters</i> , 2017 , 118, 145101 | 7.4 | 11 |
| 47 | Evolution of the plasmoid-lobe interaction with downtail distance. <i>Geophysical Research Letters</i> , 1994 , 21, 2765-2768 | 4.9 | 11 |
| 46 | Electron Inflow Velocities and Reconnection Rates at Earth's Magnetopause and Magnetosheath. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL089082 | 4.9 | 11 |
| 45 | 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 | 2.6 | 11 |
| 44 | Effect of the Reconnection Electric Field on Electron Distribution Functions in the Diffusion Region of Magnetotail Reconnection. <i>Geophysical Research Letters</i> , 2018 , 45, 12,142 | 4.9 | 11 |

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| 43 | The Formation of an Oxygen Wave by Magnetic Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 9370-9380 | 2.6 | 11 |
| 42 | Three-Dimensional X-line Spreading in Asymmetric Magnetic Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027094 | 2.6 | 10 |
| 41 | Ion demagnetization in the magnetopause current layer observed by MMS. <i>Geophysical Research Letters</i> , 2016 , 43, 4850-4857 | 4.9 | 10 |
| 40 | High-density O+ in Earth's outer magnetosphere and its effect on dayside magnetopause magnetic reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 10257-10269 | 2.6 | 10 |
| 39 | Outstanding questions in magnetospheric plasma physics: The pollenzo view. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2020 , 208, 105377 | 2 | 9 |
| 38 | Collisionless Magnetic Reconnection in an Asymmetric Oxygen Density Configuration. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL085359 | 4.9 | 9 |
| 37 | Magnetic reconnection and kinetic waves generated in the Earth's quasi-parallel bow shock. <i>Physics of Plasmas</i> , 2020 , 27, 092901 | 2.1 | 9 |
| 36 | Energy Conversion and Partition in the Asymmetric Reconnection Diffusion Region. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 8185-8205 | 2.6 | 9 |
| 35 | Parallel electron heating in the magnetospheric inflow region. <i>Geophysical Research Letters</i> , 2017 , 44, 4384-4392 | 4.9 | 8 |
| 34 | The Critical Role of Collisionless Plasma Energization on the Structure of Relativistic Magnetic Reconnection. <i>Astrophysical Journal Letters</i> , 2020 , 892, L13 | 7.9 | 8 |
| 33 | Influence of the dissipation mechanism on collisionless magnetic reconnection in symmetric and asymmetric current layers. <i>Physics of Plasmas</i> , 2013 , 20, 042901 | 2.1 | 8 |
| 32 | Particle Acceleration in Strong Turbulence in the Earth's Magnetotail. <i>Astrophysical Journal</i> , 2020 , 898, 153 | 4.7 | 8 |
| 31 | Impacts of Ionospheric Ions on Magnetic Reconnection and Earth's Magnetosphere Dynamics. <i>Reviews of Geophysics</i> , 2021 , 59, e2020RG000707 | 23.1 | 8 |
| 30 | Orientation and Stability of Asymmetric Magnetic Reconnection X Line. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 4908-4920 | 2.6 | 8 |
| 29 | Electron Reconnection in the Magnetopause Current Layer. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 9222-9238 | 2.6 | 8 |
| 28 | Effects of the guide field on electron distribution functions in the diffusion region of asymmetric reconnection. <i>Physics of Plasmas</i> , 2019 , 26, 082310 | 2.1 | 6 |
| 27 | Scaling of Magnetic Reconnection With a Limited X-Line Extent. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL088147 | 4.9 | 6 |
| 26 | Interaction of Cold Streaming Protons with the Reconnection Process. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027619 | 2.6 | 6 |

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| 25 | AME: A Cross-Scale Constellation of CubeSats to Explore Magnetic Reconnection in the Solar-Terrestrial Relation. <i>Frontiers in Physics</i> , 2020 , 8, | 3.9 | 5 |
| 24 | Full particle-in-cell simulations of kinetic equilibria and the role of the initial current sheet on steady asymmetric magnetic reconnection. <i>Journal of Plasma Physics</i> , 2016 , 82, | 2.7 | 5 |
| 23 | Reconnection and interchange instability in the near magnetotail. <i>Earth, Planets and Space</i> , 2015 , 67, | 2.9 | 5 |
| 22 | Ion-scale Current Structures in Short Large-amplitude Magnetic Structures. <i>Astrophysical Journal</i> , 2020 , 898, 121 | 4.7 | 5 |
| 21 | Lower-hybrid drift waves and their interaction with plasmas in a 3D symmetric reconnection simulation with zero guide field. <i>Physics of Plasmas</i> , 2021 , 28, 072102 | 2.1 | 5 |
| 20 | Whistler waves generated by nongyrotropic and gyrotropic electron beams during asymmetric guide field reconnection. <i>Physics of Plasmas</i> , 2022 , 29, 012903 | 2.1 | 4 |
| 19 | Orientation of the X-line in asymmetric magnetic reconnection. <i>Journal of Plasma Physics</i> , 2016 , 82, | 2.7 | 3 |
| 18 | A New Look at the Electron Diffusion Region in Asymmetric Magnetic Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA028456 | 2.6 | 3 |
| 17 | Strong reconnection electric fields in shock-driven turbulence. <i>Physics of Plasmas</i> , 2022 , 29, 042304 | 2.1 | 3 |
| 16 | Ion Behaviors in the Reconnection Diffusion Region of a Corrugated Magnetotail Current Sheet. <i>Geophysical Research Letters</i> , 2019 , 46, 5014-5020 | 4.9 | 2 |
| 15 | Millisecond observations of nonlinear wave-electron interaction in electron phase space holes. <i>Physics of Plasmas</i> , 2022 , 29, 012309 | 2.1 | 2 |
| 14 | On the Impact of a Streaming Oxygen Population on Collisionless Magnetic Reconnection. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL089462 | 4.9 | 2 |
| 13 | On the Presence and Thermalization of Cold Ions in the Exhaust of Antiparallel Symmetric Reconnection. <i>Frontiers in Astronomy and Space Sciences</i> , 2021 , 8, | 3.8 | 2 |
| 12 | Substorm Current Wedge: Energy Conversion and Current Diversion. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA028073 | 2.6 | 1 |
| 11 | The Micro-Macro Coupling of Mass-Loading in Symmetric Magnetic Reconnection With Cold Ions. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL090690 | 4.9 | 1 |
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