

# Martin Volwerk

## List of Publications by Year in descending order

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174  
papers

6,859  
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61984

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204  
all docs

204  
docs citations

204  
times ranked

2850  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Galileo Magnetometer Measurements: A Stronger Case for a Subsurface Ocean at Europa. <i>Science</i> , 2000, 289, 1340-1343.  | 12.6 | 576       |
| 2  | The Permanent and Inductive Magnetic Moments of Ganymede. <i>Icarus</i> , 2002, 157, 507-522.  | 2.5  | 327       |
| 3  | Spatial scale of high-speed flows in the plasma sheet observed by Cluster. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.                                    | 4.0  | 291       |
| 4  | Current sheet structure near magnetic X-line observed by Cluster. <i>Geophysical Research Letters</i> , 2003, 30, .  | 4.0  | 240       |
| 5  | Local structure of the magnetotail current sheet: 2001 Cluster observations. <i>Annales Geophysicae</i> , 2006, 24, 247-262.   | 1.6  | 220       |
| 6  | Current sheet flapping motion and structure observed by Cluster. <i>Geophysical Research Letters</i> , 2003, 30, .   | 4.0  | 196       |
| 7  | Electric current and magnetic field geometry in flapping magnetotail current sheets. <i>Annales Geophysicae</i> , 2005, 23, 1391-1403.                                 | 1.6  | 171       |
| 8  | Multiple overshoot and rebound of a bursty bulk flow. <i>Geophysical Research Letters</i> , 2010, 37, .  | 4.0  | 153       |
| 9  | Cluster observation of a bifurcated current sheet. <i>Geophysical Research Letters</i> , 2003, 30, .   | 4.0  | 142       |
| 10 | Evolution of dipolarization in the near-Earth current sheet induced by Earthward rapid flux transport. <i>Annales Geophysicae</i> , 2009, 27, 1743-1754.               | 1.6  | 129       |
| 11 | A statistical and event study of magnetotail dipolarization fronts. <i>Annales Geophysicae</i> , 2011, 29, 1537-1547.  | 1.6  | 128       |
| 12 | Fast flow during current sheet thinning. <i>Geophysical Research Letters</i> , 2002, 29, 55-1-55-4.  | 4.0  | 114       |
| 13 | Birth of a comet magnetosphere: A spring of water ions. <i>Science</i> , 2015, 347, aaa0571.   | 12.6 | 107       |
| 14 | First detection of a diamagnetic cavity at comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2016, 588, A24.  | 5.1  | 95        |
| 15 | Magnetic turbulence in the plasma sheet. <i>Journal of Geophysical Research</i> , 2004, 109, .   | 3.3  | 83        |
| 16 | Characteristic size and shape of the mirror mode structures in the solar wind at 0.72 AU. <i>Geophysical Research Letters</i> , 2008, 35, .                            | 4.0  | 83        |
| 17 | Little or no solar wind enters Venus's atmosphere at solar minimum. <i>Nature</i> , 2007, 450, 654-656.  | 27.8 | 79        |
| 18 | Structure and evolution of the diamagnetic cavity at comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S459-S467. | 4.4  | 79        |

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|----|---|-----|-----------|
| 19 | Evolution of the ion environment of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015, 583, A20.  | 5.1 | 76        |
| 20 | Reconstruction of the magnetotail current sheet structure using multi-point Cluster measurements. <i>Planetary and Space Science</i> , 2005, 53, 237-243.                                     | 1.7 | 74        |
| 21 | A statistical study of electron acceleration behind the dipolarization fronts in the magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 4804-4810.               | 2.4 | 74        |
| 22 | Spatial distribution of low-energy plasma around comet 67P/CG from Rosetta measurements. <i>Geophysical Research Letters</i> , 2015, 42, 4263-4269.   | 4.0 | 74        |
| 23 | Initial Venus Express magnetic field observations of the Venus bow shock location at solar minimum. <i>Planetary and Space Science</i> , 2008, 56, 785-789.                                   | 1.7 | 71        |
| 24 | Observation of a new type of low-frequency waves at comet 67P/Churyumov-Gerasimenko. <i>Annales Geophysicae</i> , 2015, 33, 1031-1036.  | 1.6 | 66        |
| 25 | Electron-Scale Quadrants of the Hall Magnetic Field Observed by the Magnetospheric Multiscale spacecraft during Asymmetric Reconnection. <i>Physical Review Letters</i> , 2017, 118, 175101.  | 7.8 | 64        |
| 26 | Multi-scale magnetic field intermittence in the plasma sheet. <i>Annales Geophysicae</i> , 2003, 21, 1955-1964.   | 1.6 | 62        |
| 27 | RPC observation of the development and evolution of plasma interaction boundaries at 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S9-S22. | 4.4 | 62        |
| 28 | Initial Venus Express magnetic field observations of the magnetic barrier at solar minimum. <i>Planetary and Space Science</i> , 2008, 56, 790-795.   | 1.7 | 61        |
| 29 | Plasma sheet thickness during a bursty bulk flow reversal. <i>Journal of Geophysical Research</i> , 2010, 115, .  | 3.3 | 60        |
| 30 | Spatial distribution of rolled up Kelvin-Helmholtz vortices at Earth's dayside and flank magnetopause. <i>Annales Geophysicae</i> , 2012, 30, 1025-1035.                                      | 1.6 | 59        |
| 31 | Double Star/Cluster observation of neutral sheet oscillations on 5 August 2004. <i>Annales Geophysicae</i> , 2005, 23, 2909-2914.   | 1.6 | 58        |
| 32 | Magnetopause reconnection across wide local time. <i>Annales Geophysicae</i> , 2011, 29, 1683-1697.   | 1.6 | 57        |
| 33 | Cluster and Double Star multipoint observations of a plasma bubble. <i>Annales Geophysicae</i> , 2009, 27, 725-743.   | 1.6 | 54        |
| 34 | Wave activity in Europa's wake: Implications for ion pickup. <i>Journal of Geophysical Research</i> , 2001, 106, 26033-26048.   | 3.3 | 52        |
| 35 | Do BBFs contribute to inner magnetosphere dipolarizations: Concurrent Cluster and Double Star observations. <i>Geophysical Research Letters</i> , 2006, 33, .                                 | 4.0 | 50        |
| 36 | First identification of mirror mode waves in Venus' magnetosheath?. <i>Geophysical Research Letters</i> , 2008, 35, .   | 4.0 | 50        |

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|----|---|------|-----------|
| 37 | Three-dimensional magnetic flux rope structure formed by multiple sequential X-line reconnection at the magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 1904-1911. | 2.4  | 48        |
| 38 | Observation of double layer in the separatrix region during magnetic reconnection. <i>Geophysical Research Letters</i> , 2014, 41, 4851-4858.   | 4.0  | 48        |
| 39 | Bursty Bulk Flow Driven Turbulence in the Earth's Plasma Sheet. <i>Space Science Reviews</i> , 2006, 122, 301-311.  | 8.1  | 47        |
| 40 | Mass-loading, pile-up, and mirror-mode waves at comet 67P/Churyumov-Gerasimenko. <i>Annales Geophysicae</i> , 2016, 34, 1-15.   | 1.6  | 46        |
| 41 | The BepiColombo Planetary Magnetometer MPO-MAG: What Can We Learn from the Hermean Magnetic Field?. <i>Space Science Reviews</i> , 2021, 217, 1.  | 8.1  | 45        |
| 42 | Mirror-mode-like structures in Venus' induced magnetosphere. <i>Journal of Geophysical Research</i> , 2008, 113, .  | 3.3  | 44        |
| 43 | Induced magnetosphere and its outer boundary at Venus. <i>Journal of Geophysical Research</i> , 2008, 113, .  | 3.3  | 44        |
| 44 | Mirror mode structures in the solar wind at 0.72 AU. <i>Journal of Geophysical Research</i> , 2009, 114, .  | 3.3  | 43        |
| 45 | First upstream proton cyclotron wave observations at Venus. <i>Geophysical Research Letters</i> , 2008, 35, .   | 4.0  | 42        |
| 46 | CME impact on comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S45-S56.   | 4.4  | 42        |
| 47 | Large-Scale Structure and Dynamics of the Magnetotails of Mercury, Earth, Jupiter and Saturn. <i>Space Science Reviews</i> , 2014, 182, 85-154.   | 8.1  | 41        |
| 48 | Kink mode oscillation of the current sheet. <i>Geophysical Research Letters</i> , 2003, 30, .   | 4.0  | 39        |
| 49 | Flow bouncing and electron injection observed by Cluster. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 2055-2072.   | 2.4  | 38        |
| 50 | A statistical study of compressional waves in the tail current sheet. <i>Journal of Geophysical Research</i> , 2003, 108, .   | 3.3  | 37        |
| 51 | A comparative study of dipolarization fronts at MMS and Cluster. <i>Geophysical Research Letters</i> , 2016, 43, 6012-6019.   | 4.0  | 37        |
| 52 | Cassini in situ observations of long-duration magnetic reconnection in Saturn's magnetotail. <i>Nature Physics</i> , 2016, 12, 268-271.   | 16.7 | 35        |
| 53 | Wavelet analysis of magnetic turbulence in the Earth's plasma sheet. <i>Physics of Plasmas</i> , 2004, 11, 1333-1338.   | 1.9  | 34        |
| 54 | Intermittent turbulence, noisy fluctuations, and wavy structures in the Venusian magnetosheath and wake. <i>Journal of Geophysical Research</i> , 2008, 113, .                                      | 3.3  | 34        |

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|----|--|-----|-----------|
| 55 | Neptune and Triton: Essential pieces of the Solar System puzzle. <i>Planetary and Space Science</i> , 2014, 104, 108-121.  | 1.7 | 34        |
| 56 | Two-point observations of low-frequency waves at 67P/Churyumov-Gerasimenko during the descent of PHILAE: comparison of RPCMAG and ROMAP. <i>Annales Geophysicae</i> , 2016, 34, 609-622. | 1.6 | 34        |
| 57 | Flow burst-induced Kelvin-Helmholtz waves in the terrestrial magnetotail. <i>Geophysical Research Letters</i> , 2007, 34, .  | 4.0 | 33        |
| 58 | Proton cyclotron waves in the solar wind at Venus. <i>Journal of Geophysical Research</i> , 2008, 113, .   | 3.3 | 33        |
| 59 | Mirror mode structures near Venus and Comet P/Halley. <i>Annales Geophysicae</i> , 2014, 32, 651-657.  | 1.6 | 33        |
| 60 | Comparative magnetotail flapping: an overview of selected events at Earth, Jupiter and Saturn. <i>Annales Geophysicae</i> , 2013, 31, 817-833.   | 1.6 | 32        |
| 61 | Evolution of the magnetic field at comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S268-S275.                                     | 4.4 | 32        |
| 62 | Response of the inner magnetosphere and the plasma sheet to a sudden impulse. <i>Journal of Geophysical Research</i> , 2008, 113, .  | 3.3 | 31        |
| 63 | Behavior of current sheets at directional magnetic discontinuities in the solar wind at 0.72 AU. <i>Geophysical Research Letters</i> , 2008, 35, .                                       | 4.0 | 31        |
| 64 | Spectral scaling in the turbulent Earth's plasma sheet revisited. <i>Nonlinear Processes in Geophysics</i> , 2007, 14, 535-541.  | 1.3 | 30        |
| 65 | Upstream proton cyclotron waves at Venus near solar maximum. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 344-354.   | 2.4 | 30        |
| 66 | Two states of magnetotail dipolarization fronts: A statistical study. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 1096-1108.                                      | 2.4 | 29        |
| 67 | Mirror mode waves in Venus's magnetosheath: solar minimum vs. solar maximum. <i>Annales Geophysicae</i> , 2016, 34, 1099-1108.   | 1.6 | 29        |
| 68 | Observations of plasma vortices in the vicinity of flow-braking: a case study. <i>Annales Geophysicae</i> , 2009, 27, 3009-3017.   | 1.6 | 28        |
| 69 | In situ observations of multistage electron acceleration driven by magnetic reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 6320-6331.                  | 2.4 | 28        |
| 70 | Mirror mode structures ahead of dipolarization front near the neutral sheet observed by Cluster. <i>Geophysical Research Letters</i> , 2016, 43, 8853-8858.                              | 4.0 | 28        |
| 71 | Compressional waves in the Earth's neutral sheet. <i>Annales Geophysicae</i> , 2004, 22, 303-315.  | 1.6 | 27        |
| 72 | Plasma flow channels with ULF waves observed by Cluster and Double Star. <i>Annales Geophysicae</i> , 2005, 23, 2929-2935.   | 1.6 | 27        |

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|----|--|-----|-----------|
| 73 | Observation of multiple subcavities adjacent to single separatrix. <i>Geophysical Research Letters</i> , 2013, 40, 2511-2517.  | 4.0 | 27        |
| 74 | Near-Earth substorm features from multiple satellite observations. <i>Journal of Geophysical Research</i> , 2008, 113, .   | 3.3 | 26        |
| 75 | Proton cyclotron wave generation mechanisms upstream of Venus. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.  | 3.3 | 26        |
| 76 | On the magnetic characteristics of magnetic holes in the solar wind between Mercury and Venus. <i>Annales Geophysicae</i> , 2020, 38, 51-60.   | 1.6 | 26        |
| 77 | Flow burst-induced large-scale plasma sheet oscillation. <i>Journal of Geophysical Research</i> , 2004, 109, .   | 3.3 | 25        |
| 78 | Europa's Alfvén wing: shrinkage and displacement influenced by an induced magnetic field. <i>Annales Geophysicae</i> , 2007, 25, 905-914.  | 1.6 | 25        |
| 79 | Fast tailward flows in the plasma sheet boundary layer during a substorm on 9 March 2008: THEMIS observations. <i>Journal of Geophysical Research</i> , 2011, 116, .                     | 3.3 | 25        |
| 80 | Solar Wind Directional Change Triggering Flapping Motions of the Current Sheet: MMS Observations. <i>Geophysical Research Letters</i> , 2019, 46, 64-70.                                 | 4.0 | 25        |
| 81 | BepiColombo Science Investigations During Cruise and Flybys at the Earth, Venus and Mercury. <i>Space Science Reviews</i> , 2021, 217, 1.  | 8.1 | 25        |
| 82 | Properties of a bifurcated current sheet observed on 29 August 2001. <i>Annales Geophysicae</i> , 2004, 22, 2535-2540.   | 1.6 | 24        |
| 83 | First observations of magnetic holes deep within the coma of a comet. <i>Astronomy and Astrophysics</i> , 2018, 618, A114.   | 5.1 | 24        |
| 84 | Dissipation scales in the Earth's plasma sheet estimated from Cluster measurements. <i>Nonlinear Processes in Geophysics</i> , 2005, 12, 725-732.  | 1.3 | 22        |
| 85 | Flapping current sheet with superposed waves seen in space and on the ground. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 10,078.                                 | 2.4 | 22        |
| 86 | Hydrogen in the extended Venus exosphere. <i>Geophysical Research Letters</i> , 2009, 36, .  | 4.0 | 21        |
| 87 | A statistical analysis of Pi2-band waves in the plasma sheet and their relation to magnetospheric drivers. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 6167-6175. | 2.4 | 21        |
| 88 | Solar wind charge exchange in cometary atmospheres. <i>Astronomy and Astrophysics</i> , 2019, 630, A37.  | 5.1 | 21        |
| 89 | Probing Ganymede's magnetosphere with field line resonances. <i>Journal of Geophysical Research</i> , 1999, 104, 14729-14738.  | 3.3 | 20        |
| 90 | Magnetic fluctuations and turbulence in the Venus magnetosheath and wake. <i>Geophysical Research Letters</i> , 2008, 35, .  | 4.0 | 20        |

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|-----|---|-----|-----------|
| 91  | A Statistical Study on the Properties of Dips Ahead of Dipolarization Fronts Observed by MMS. Journal of Geophysical Research: Space Physics, 2019, 124, 139-150.                       | 2.4 | 20        |
| 92  | Multi-scale analysis of turbulence in the Earth's current sheet. Annales Geophysicae, 2004, 22, 2525-2533.  | 1.6 | 19        |
| 93  | Cluster and Double Star observations of dipolarization. Annales Geophysicae, 2005, 23, 2915-2920.   | 1.6 | 19        |
| 94  | The BepiColombo's Mio Magnetometer en Route to Mercury. Space Science Reviews, 2020, 216, 1.  | 8.1 | 19        |
| 95  | Substorm activity in Venus's magnetotail. Annales Geophysicae, 2009, 27, 2321-2330.   | 1.6 | 18        |
| 96  | Statistical Properties of Sub-ion Magnetic Holes in the Solar Wind at 1AU. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028320.                                    | 2.4 | 18        |
| 97  | Magnetic Holes in the Solar Wind and Magnetosheath Near Mercury. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028961.  | 2.4 | 18        |
| 98  | Multi-point observation of the high-speed flows in the plasma sheet. Advances in Space Research, 2005, 36, 1444-1447.   | 2.6 | 17        |
| 99  | High-latitude Pi2 pulsations associated with kink-like neutral sheet oscillations. Journal of Geophysical Research: Space Physics, 2017, 122, 2889-2899.                                | 2.4 | 17        |
| 100 | Fluxgate magnetometer offset vector determination by the 3D mirror mode method. Monthly Notices of the Royal Astronomical Society, 2017, 469, S675-S684.                                | 4.4 | 17        |
| 101 | Evidence for short cooling time in the Io plasma torus. Geophysical Research Letters, 1997, 24, 1147-1150.  | 4.0 | 16        |
| 102 | A statistical survey of the magnetotail current sheet. Advances in Space Research, 2006, 38, 1834-1837.   | 2.6 | 16        |
| 103 | Statistical study of low-frequency magnetic field fluctuations near Venus under the different interplanetary magnetic field orientations. Journal of Geophysical Research, 2010, 115, . | 3.3 | 16        |
| 104 | A comparison between VEGA 1, 2 and Giotto flybys of comet 1P/Halley: implications for Rosetta. Annales Geophysicae, 2014, 32, 1441-1453.  | 1.6 | 16        |
| 105 | Statistical study of linear magnetic hole structures near Earth. Annales Geophysicae, 2021, 39, 239-253.  | 1.6 | 16        |
| 106 | Spatial structure of plasma flow associated turbulence in the Earth's plasma sheet. Annales Geophysicae, 2007, 25, 13-17.   | 1.6 | 16        |
| 107 | Study of the Electron Velocity Inside Sub-ion Scale Magnetic Holes in the Solar Wind by MMS Observations. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028386.     | 2.4 | 15        |
| 108 | Joint Europa Mission (JEM): a multi-scale study of Europa to characterize its habitability and search for extant life. Planetary and Space Science, 2020, 193, 104960.                  | 1.7 | 15        |

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|-----|--|-----|-----------|
| 109 | Roles of electrons and ions in formation of the current in mirror-mode structures in the terrestrial plasma sheet: Magnetospheric Multiscale observations. <i>Annales Geophysicae</i> , 2020, 38, 309-318. | 1.6 | 15        |
| 110 | Three-dimensional Geometry of the Electron-scale Magnetic Hole in the Solar Wind. <i>Astrophysical Journal Letters</i> , 2020, 904, L11.   | 8.3 | 15        |
| 111 | Particle acceleration in flares. <i>Solar Physics</i> , 1994, 153, 33-53.  | 2.5 | 14        |
| 112 | Magnetotail dipolarization and associated current systems observed by Cluster and Double Star. <i>Journal of Geophysical Research</i> , 2008, 113, .   | 3.3 | 14        |
| 113 | Magnetosheath fluctuations at Venus for two extreme orientations of the interplanetary magnetic field. <i>Geophysical Research Letters</i> , 2009, 36, .   | 4.0 | 14        |
| 114 | Properties of the singing comet waves in the 67P/Churyumov-Gerasimenko plasma environment as observed by the Rosetta mission. <i>Astronomy and Astrophysics</i> , 2019, 630, A39.                          | 5.1 | 14        |
| 115 | First Observations of an Ion Vortex in a Magnetic Hole in the Solar Wind by MMS. <i>Astronomical Journal</i> , 2021, 161, 110.   | 4.7 | 14        |
| 116 | Solar Orbiter's first Venus flyby: Observations from the Radio and Plasma Wave instrument. <i>Astronomy and Astrophysics</i> , 2021, 656, A18.   | 5.1 | 14        |
| 117 | Neutral sheet normal direction determination. <i>Advances in Space Research</i> , 2005, 36, 1940-1945.   | 2.6 | 13        |
| 118 | Alfvén waves in the near-PSBL lobe: Cluster observations. <i>Annales Geophysicae</i> , 2006, 24, 1001-1013.  | 1.6 | 13        |
| 119 | The proton temperature anisotropy associated with bursty bulk flows in the magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 4875-4883.                                      | 2.4 | 12        |
| 120 | Hybrid Simulations of Positively and Negatively Charged Pickup Ions and Cyclotron Wave Generation at Europa. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 10408-10420.               | 2.4 | 12        |
| 121 | Multi-scale observations of the magnetopause Kelvin-Helmholtz waves during southward IMF. <i>Physics of Plasmas</i> , 2022, 29, .  | 1.9 | 12        |
| 122 | Multi-satellite observations of ULF waves. <i>Geophysical Monograph Series</i> , 2006, , 109-135.  | 0.1 | 11        |
| 123 | Current sheet flapping motions in the tailward flow of magnetic reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 7817-7827.  | 2.4 | 11        |
| 124 | Current sheets in comet 67P/Churyumov-Gerasimenko's coma. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 3308-3321.  | 2.4 | 11        |
| 125 | Foreshock as a Source Region of Electron-scale Magnetic Holes in the Solar Wind at 1 au. <i>Astrophysical Journal</i> , 2021, 915, 3.  | 4.5 | 11        |
| 126 | Title is missing!. <i>Journal Physics D: Applied Physics</i> , 1993, 26, 1192-1202.  | 2.8 | 10        |



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|-----|--|-----|-----------|
| 127 | Local field-aligned currents in the magnetotail and ionosphere as observed by a Cluster, Double Star, and MIRACLE conjunction. <i>Journal of Geophysical Research</i> , 2008, 113, .   | 3.3 | 10        |
| 128 | A tail like no other. <i>Astronomy and Astrophysics</i> , 2018, 614, A10.  | 5.1 | 10        |
| 129 | Unusually high magnetic fields in the coma of 67P/Churyumov-Gerasimenko during its high-activity phase. <i>Astronomy and Astrophysics</i> , 2019, 630, A38.  | 5.1 | 10        |
| 130 | Dipolarization Fronts: Tangential Discontinuities? On the Spatial Range of Validity of the MHD Jump Conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 9963-9975.                                  | 2.4 | 10        |
| 131 | Solar Orbiter's first Venus flyby: MAG observations of structures and waves associated with the induced Venusian magnetosphere. <i>Astronomy and Astrophysics</i> , 0, , .   | 5.1 | 10        |
| 132 | Upstream proton cyclotron waves at Venus. <i>Planetary and Space Science</i> , 2008, 56, 1293-1299.  | 1.7 | 9         |
| 133 | Study of waves in the magnetotail region with cluster and DSP. <i>Advances in Space Research</i> , 2008, 41, 1593-1597.  | 2.6 | 8         |
| 134 | Study of reconnection-associated multiscale fluctuations with Cluster and Double Star. <i>Journal of Geophysical Research</i> , 2008, 113, .   | 3.3 | 8         |
| 135 | Tailward propagation of Pi2 waves in the Earth's magnetotail lobe. <i>Annales Geophysicae</i> , 2008, 26, 4023-4030.   | 1.6 | 8         |
| 136 | Low-frequency oscillatory flow signatures and high-speed flows in the Earth's magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 7042-7056.   | 2.4 | 8         |
| 137 | Asymmetries in the Magnetosheath Field Draping on Venus' Nightside. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 10,396.   | 2.4 | 8         |
| 138 | Pick-Up Ion Cyclotron Waves Around Mercury. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092606.   | 4.0 | 8         |
| 139 | Systems III and IV modulation of the Io phase effect in the Io plasma torus. <i>Journal of Geophysical Research</i> , 1997, 102, 24403-24410.  | 3.3 | 7         |
| 140 | Magnetic pileup boundary and field draping at Comet Halley. <i>Planetary and Space Science</i> , 2014, 96, 125-132.  | 1.7 | 7         |
| 141 | Field-Aligned Currents Originating From the Chaotic Motion of Electrons in the Tilted Current Sheet: MMS Observations. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL088841.  | 4.0 | 7         |
| 142 | Electron-scale Magnetic Peaks Upstream of the Terrestrial Bow Shock Observed by the Magnetospheric Multiscale Mission. <i>Astrophysical Journal</i> , 2021, 914, 101.  | 4.5 | 7         |
| 143 | A Study of the Solar Wind Ion and Electron Measurements From the Magnetospheric Multiscale Mission's Fast Plasma Investigation. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029784.              | 2.4 | 7         |
| 144 | Interplanetary magnetic field rotations followed from L1 to the ground: the response of the Earth's magnetosphere as seen by multi-spacecraft and ground-based observations. <i>Annales Geophysicae</i> , 2011, 29, 1549-1569. | 1.6 | 7         |

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|-----|---|-----|-----------|
| 145 | Magnetometer in-flight offset accuracy for the BepiColombo spacecraft. <i>Annales Geophysicae</i> , 2020, 38, 823-832.  | 1.6 | 7         |
| 146 | Ion pick-up near the icy Galilean satellites. , 2010, , .   |     | 6         |
| 147 | ULF waves in Ganymede's upstream magnetosphere. <i>Annales Geophysicae</i> , 2013, 31, 45-59.   | 1.6 | 6         |
| 148 | Ion cyclotron waves during the Rosetta approach phase: a magnetic estimate of cometary outgassing. <i>Annales Geophysicae</i> , 2013, 31, 2201-2206.  | 1.6 | 6         |
| 149 | Statistical study on ultralow-frequency waves in the magnetotail lobe observed by Cluster. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 5319-5332.  | 2.4 | 6         |
| 150 | Occurrence rate of dipolarization fronts in the plasma sheet: Cluster observations. <i>Annales Geophysicae</i> , 2017, 35, 1015-1022.   | 1.6 | 6         |
| 151 | Statistical Study of Small-scale Magnetic Holes in the Upstream Regime of the Martian Bow Shock. <i>Astrophysical Journal</i> , 2021, 921, 153.   | 4.5 | 6         |
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