

Stefan Eriksson

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Characteristics of Multi-scale Current Sheets in the Solar Wind at 1 au Associated with Magnetic Reconnection and the Case for a Heliospheric Current Sheet Avalanche. <i>Astrophysical Journal</i> , 2022, 933, 181.	1.6	5
2	Origin of Electron-Scale Magnetic Fluctuations Close to an Electron Diffusion Region. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA029046.	0.8	1
3	The Occurrence and Prevalence of Time Domain Structures in the Kelvin-Helmholtz Instability at Different Positions Along the Earth's Magnetospheric Flanks. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	1.1	2
4	MMS Observations of Double Mid-Latitude Reconnection Ion Beams in the Early Non-Linear Phase of the Kelvin-Helmholtz Instability. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	1.1	5
5	Ion Dynamics in the Meso-scale 3-D Kelvin-Helmholtz Instability: Perspectives From Test Particle Simulations. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	1.1	2
6	Spatial evolution of magnetic reconnection diffusion region structures with distance from the X-line. <i>Physics of Plasmas</i> , 2021, 28, .	0.7	3
7	Multiscale Coupling During Magnetopause Reconnection: Interface Between the Electron and Ion Diffusion Regions. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA027985.	0.8	10
8	Nascent Flux Rope Observations at Earth's Dayside Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA027919.	0.8	3
9	Parallel Electrostatic Waves Associated With Turbulent Plasma Mixing in the Kelvin-Helmholtz Instability. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087837.	1.5	7
10	Latitudinal Dependence of the Kelvin-Helmholtz Instability and Beta Dependence of Vortex-Induced High-Guide Field Magnetic Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027333.	0.8	7
11	Characteristics of the Flank Magnetopause: MMS Results. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027623.	0.8	24
12	A Survey of Plasma Waves Appearing Near Dayside Magnetopause Electron Diffusion Region Events. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 7837-7849.	0.8	20
13	The Relative Importance of Geoeffective Length Versus Alfvén Wing Formation in the Saturation of the Ionospheric Reverse Convection Potential. <i>Geophysical Research Letters</i> , 2019, 46, 1126-1131.	1.5	1
14	Magnetic Reconnection in Three Dimensions: Observations of Electromagnetic Drift Waves in the Adjacent Current Sheet. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 10104-10118.	0.8	6
15	Electron-Scale Magnetic Structure Observed Adjacent to an Electron Diffusion Region at the Dayside Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 10153-10169.	0.8	4
16	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.	0.8	18
17	Magnetic Reconnection, Turbulence, and Particle Acceleration: Observations in the Earth's Magnetotail. <i>Geophysical Research Letters</i> , 2018, 45, 3338-3347.	1.5	69
18	On Multiple Hall-Like Electron Currents and Tripolar Guide Magnetic Field Perturbations During Kelvin-Helmholtz Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 1305-1324.	0.8	10

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19	Magnetic Reconnection at a Thin Current Sheet Separating Two Interlaced Flux Tubes at the Earth's Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 1779-1793.	0.8	35
20	Magnetospheric Multiscale Dayside Reconnection Electron Diffusion Region Events. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 4858-4878.	0.8	79
21	Energy Conversion by Parallel Electric Fields During Guide Field Reconnection in Scaled Laboratory and Space Experiments. <i>Geophysical Research Letters</i> , 2018, 45, 12,677.	1.5	12
22	The Transition Between Antiparallel and Component Magnetic Reconnection at Earth's Dayside Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 10,177.	0.8	12
23	Solar Wind Turbulence Studies Using MMS Fast Plasma Investigation Data. <i>Astrophysical Journal</i> , 2018, 866, 81.	1.6	48
24	Ion Kinetics in a Hot Flow Anomaly: MMS Observations. <i>Geophysical Research Letters</i> , 2018, 45, 11,520.	1.5	28
25	The Role of the Parallel Electric Field in Electron-scale Dissipation at Reconnecting Currents in the Magnetosheath. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 6533-6547.	0.8	40
26	Generation of Electron Whistler Waves at the Mirror Mode Magnetic Holes: MMS Observations and PIC Simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 6383-6393.	0.8	27
27	Large-scale characteristics of reconnection diffusion regions and associated magnetopause crossings observed by MMS. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 5466-5486.	0.8	48
28	The nonlinear behavior of whistler waves at the reconnecting dayside magnetopause as observed by the Magnetospheric Multiscale mission: A case study. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 5487-5501.	0.8	22
29	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.	1.5	46
30	Mass and Energy Transfer Across the Earth's Magnetopause Caused by Vortex-induced Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 11,505.	0.8	35
31	The MMS Dayside Magnetic Reconnection Locations During Phase 1 and Their Relation to the Predictions of the Maximum Magnetic Shear Model. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 11,991.	0.8	26
32	Dual E ⁺ -B flow responses in the dayside ionosphere to a sudden IMF By rotation. <i>Geophysical Research Letters</i> , 2017, 44, 6525-6533.	1.5	3
33	Turbulent mass transfer caused by vortex induced reconnection in collisionless magnetospheric plasmas. <i>Nature Communications</i> , 2017, 8, 1582.	5.8	63
34	The Effect of a Guide Field on Local Energy Conversion During Asymmetric Magnetic Reconnection: Particle-in-Cell Simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 11,523.	0.8	27
35	Multipoint Measurements of the Electron Jet of Symmetric Magnetic Reconnection with a Moderate Guide Field. <i>Physical Review Letters</i> , 2017, 118, 265101.	2.9	44
36	Currents and associated electron scattering and bouncing near the diffusion region at Earth's magnetopause. <i>Geophysical Research Letters</i> , 2016, 43, 3042-3050.	1.5	81

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37	Magnetopause reconnection layer bounded by switch-off shocks: Part 2. Pressure anisotropy. Journal of Geophysical Research: Space Physics, 2016, 121, 9940-9955.	0.8	1
38	Observations of large-amplitude, parallel, electrostatic waves associated with the Kelvin-Helmholtz instability by the magnetospheric multiscale mission. Geophysical Research Letters, 2016, 43, 8859-8866.	1.5	26
39	Observations of turbulence in a Kelvin-Helmholtz event on 8 September 2015 by the Magnetospheric Multiscale mission. Journal of Geophysical Research: Space Physics, 2016, 121, 11,021.	0.8	81
40	Magnetospheric Multiscale observations of magnetic reconnection associated with Kelvin-Helmholtz waves. Geophysical Research Letters, 2016, 43, 5606-5615.	1.5	104
41	Magnetospheric Multiscale Satellites Observations of Parallel Electric Fields Associated with Magnetic Reconnection. Physical Review Letters, 2016, 116, 235102.	2.9	61
42	Magnetospheric Multiscale Observations of the Electron Diffusion Region of Large Guide Field Magnetic Reconnection. Physical Review Letters, 2016, 117, 015001.	2.9	74
43	Observations of whistler mode waves with nonlinear parallel electric fields near the dayside magnetic reconnection separatrix by the Magnetospheric Multiscale mission. Geophysical Research Letters, 2016, 43, 5909-5917.	1.5	61
44	Subsolar magnetopause observation and kinetic simulation of a tripolar guide magnetic field perturbation consistent with a magnetic island. Geophysical Research Letters, 2016, 43, 3035-3041.	1.5	7
45	Signatures of complex magnetic topologies from multiple reconnection sites induced by Kelvin-Helmholtz instability. Journal of Geophysical Research: Space Physics, 2016, 121, 9926-9939.	0.8	35
46	Turbulence Heating Observer " satellite mission proposal. Journal of Plasma Physics, 2016, 82, .	0.7	60
47	Magnetospheric Multiscale observations of large-amplitude, parallel, electrostatic waves associated with magnetic reconnection at the magnetopause. Geophysical Research Letters, 2016, 43, 5626-5634.	1.5	66
48	Reconnection layer bounded by switch-off shocks: Dayside magnetopause crossing by THEMIS D. Journal of Geophysical Research: Space Physics, 2016, 121, 3310-3332.	0.8	10
49	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
50	ON MULTIPLE RECONNECTION X-LINES AND TRIPOLAR PERTURBATIONS OF STRONG GUIDE MAGNETIC FIELDS. Astrophysical Journal, 2015, 805, 43.	1.6	22
51	The role of magnetic flux tube deformation and magnetosheath plasma beta in the saturation of the Region 1 field-aligned current system. Journal of Geophysical Research: Space Physics, 2015, 120, 2036-2051.	0.8	13
52	Dual-spacecraft reconstruction of a three-dimensional magnetic flux rope at the Earth's magnetopause. Annales Geophysicae, 2015, 33, 169-184.	0.6	13
53	On the signatures of magnetic islands and multiple X-lines in the solar wind as observed by ARTEMIS and WIND. Plasma Physics and Controlled Fusion, 2014, 56, 064008.	0.9	34
54	Åerenkov Emission of Quasiparallel Whistlers by Fast Electron Phase-Space Holes during Magnetic Reconnection. Physical Review Letters, 2014, 112, 145002.	2.9	49

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55	Observation of a retreating x line and magnetic islands poleward of the cusp during northward interplanetary magnetic field conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 9643-9657.	0.8	17
56	Alfvén Mach number and IMF clock angle dependencies of sunward flow channels in the magnetosphere. <i>Geophysical Research Letters</i> , 2013, 40, 1257-1262.	1.5	4
57	Magnetic signatures of Kelvin-Helmholtz vortices on Saturn's magnetopause: Global survey. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 393-404.	0.8	81
58	Investigation of the interhemispheric asymmetry in reverse convection near solstice during northward interplanetary magnetic field conditions using MHD simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 4289-4297.	0.8	7
59	Three-dimensional dynamics of vortex-induced reconnection and comparison with THEMIS observations. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 5742-5757.	0.8	83
60	Field-aligned current reconfiguration and magnetospheric response to an impulse in the interplanetary magnetic field B_y component. <i>Geophysical Research Letters</i> , 2013, 40, 2489-2494.	1.5	10
61	Ionospheric Joule heating, fast flow channels, and magnetic field line topology for IMF B_y -dominant conditions: Observations and comparisons with predicted reconnection jet speeds. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	16
62	Collisionless magnetic reconnection in a plasmoid chain. <i>Nonlinear Processes in Geophysics</i> , 2012, 19, 145-153.	0.6	32
63	Multispacecraft observations of a foreshock-induced magnetopause disturbance exhibiting distinct plasma flows and an intense density compression. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	30
64	Extreme Poynting flux in the dayside thermosphere: Examples and statistics. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	85
65	A TORSIONAL ALFVÉN WAVE EMBEDDED WITHIN A SMALL MAGNETIC FLUX ROPE IN THE SOLAR WIND. <i>Astrophysical Journal Letters</i> , 2010, 719, L36-L40.	3.0	42
66	THEMIS observations of a secondary magnetic island within the Hall electromagnetic field region at the magnetopause. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	33
67	Observation of an inner magnetosphere electric field associated with a BBF-like flow and PBIs. <i>Annales Geophysicae</i> , 2009, 27, 1489-1500.	0.6	2
68	Observations of Double Layers in Earth's Plasma Sheet. <i>Physical Review Letters</i> , 2009, 102, 155002.	2.9	88
69	New Features of Electron Phase Space Holes Observed by the THEMIS Mission. <i>Physical Review Letters</i> , 2009, 102, 225004.	2.9	86
70	Magnetic island formation between large-scale flow vortices at an undulating postnoon magnetopause for northward interplanetary magnetic field. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	40
71	Asymmetric shear flow effects on magnetic field configuration within oppositely directed solar wind reconnection exhausts. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	19
72	High-latitude ionosphere convection and Birkeland current response for the 15 May 2005 magnetic storm recovery phase. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	18

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73	Eigenmode Structure in Solar-Wind Langmuir Waves. <i>Physical Review Letters</i> , 2008, 101, 051101.	2.9	84
74	Direct evidence for prolonged magnetic reconnection at a continuous x-line within the heliospheric current sheet. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	70
75	Five spacecraft observations of oppositely directed exhaust jets from a magnetic reconnection Xâ€line extending $> 4.26 \text{ \AA} \times 10^{16}$ km in the solar wind at 1 AU. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	53
76	Multiple magnetic reconnection sites associated with a coronal mass ejection in the solar wind. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	69
77	Petschek-type magnetic reconnection exhausts in the solar wind well inside 1 AU: Helios. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	52
78	Electrodynamics of a split-transpolar aurora. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	10
79	Petschekâ€Type Reconnection Exhausts in the Solar Wind Well beyond 1 AU:Ulysses. <i>Astrophysical Journal</i> , 2006, 644, 613-621.	1.6	66
80	On the generation of enhanced sunward convection and transpolar aurora in the high-latitude ionosphere by magnetic merging. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	29
81	EMMA - the Electric and Magnetic Monitor of the Aurora on Astrid-2. <i>Annales Geophysicae</i> , 2004, 22, 115-123.	0.6	7
82	Solar windâ€magnetosphereâ€ionosphere coupling: an event study based on Freja data. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2004, 66, 375-380.	0.6	3
83	Global control of merging by the interplanetary magnetic field: Cluster observations of dawnside flank magnetopause reconnection. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	10
84	WalÃ©n and slow-mode shock analyses in the near-Earth magnetotail in connection with a substorm onset on 27 August 2001. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	40
85	Lobe cell convection and polar cap precipitation. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	15
86	Multi-site observations of the association between aurora and plasma convection in the cusp/polar cap during a southeastward (B_{z} < 0) interval. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	106
87	Timing of magnetic reconnection initiation during a global magnetospheric substorm onset. <i>Geophysical Research Letters</i> , 2002, 29, 43-1-43-4.	1.5	102
88	Comparing a spherical harmonic model of the global electric field distribution with Astrid-2 observations. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 27-1.	3.3	5
89	Lobe cell convection and field-aligned currents poleward of the region 1 current system. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 16-1-SMP 16-15.	3.3	29
90	Magnetospheric response to the solar wind as indicated by the cross-polar potential drop and the low-latitude asymmetric disturbance field. <i>Annales Geophysicae</i> , 2001, 19, 649-653.	0.6	2

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91	The cross-polar potential drop and its correlation to the solar wind. Journal of Geophysical Research, 2000, 105, 18639-18653.	3.3	14