

Andris Vaivads

List of Publications by Year in descending order

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224
papers

10,208
citations

28274

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45317

90
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254
all docs

254
docs citations

254
times ranked

2922
citing authors

#	ARTICLE	IF	CITATIONS
1	Particle energization in space plasmas: towards a multi-point, multi-scale plasma observatory. <i>Experimental Astronomy</i> , 2022, 54, 427-471.	3.7	14
2	Millisecond observations of nonlinear wave–electron interaction in electron phase space holes. <i>Physics of Plasmas</i> , 2022, 29, .	1.9	3
3	Downstream high-speed plasma jet generation as a direct consequence of shock reformation. <i>Nature Communications</i> , 2022, 13, 598.	12.8	15
4	Analysis of multiscale structures at the quasi-perpendicular Venus bow shock. <i>Astronomy and Astrophysics</i> , 2022, 660, A64.	5.1	5
5	Cross-scale Dynamics Driven by Plasma Jet Braking in Space. <i>Astrophysical Journal</i> , 2022, 926, 198.	4.5	13
6	Whistler Waves in the Foot of Quasi-Perpendicular Supercritical Shocks. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	2.4	4
7	Electron Kinetic Entropy across Quasi-Perpendicular Shocks. <i>Entropy</i> , 2022, 24, 745.	2.2	3
8	Direct observations of anomalous resistivity and diffusion in collisionless plasma. <i>Nature Communications</i> , 2022, 13, .	12.8	15
9	In Situ Evidence of Ion Acceleration between Consecutive Reconnection Jet Fronts. <i>Astrophysical Journal</i> , 2021, 908, 73.	4.5	3
10	Large Amplitude Electrostatic Proton Plasma Frequency Waves in the Magnetospheric Separatrix and Outflow Regions During Magnetic Reconnection. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090286.	4.0	9
11	DMSP Observations of High-Latitude Dayside Aurora (HiLDA). <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028808.	2.4	6
12	Energetic ions in the Venusian system: Insights from the first Solar Orbiter flyby. <i>Astronomy and Astrophysics</i> , 2021, 656, A7.	5.1	9
13	Statistical study of electron density turbulence and ion-cyclotron waves in the inner heliosphere: Solar Orbiter observations. <i>Astronomy and Astrophysics</i> , 2021, 656, A16.	5.1	5
14	Kinetic electrostatic waves and their association with current structures in the solar wind. <i>Astronomy and Astrophysics</i> , 2021, 656, A23.	5.1	12
15	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
16	Ion Acceleration Efficiency at the Earth’s Bow Shock: Observations and Simulation Results. <i>Astrophysical Journal</i> , 2021, 914, 82.	4.5	7
17	Density fluctuations associated with turbulence and waves. <i>Astronomy and Astrophysics</i> , 2021, 656, A19.	5.1	24
18	First dust measurements with the Solar Orbiter Radio and Plasma Wave instrument. <i>Astronomy and Astrophysics</i> , 2021, 656, A30.	5.1	12

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19	Observations of whistler mode waves by Solar Orbiter's RPW Low Frequency Receiver (LFR): In-flight performance and first results. <i>Astronomy and Astrophysics</i> , 2021, 656, A17.	5.1	6
20	Cluster Observations of Energetic Electron Acceleration Within Earthward Reconnection Jet and Associated Magnetic Flux Rope. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029545.	2.4	6
21	Upper-Hybrid Waves Driven by Meandering Electrons Around Magnetic Reconnection X Line. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093164.	4.0	13
22	Solar Orbiter/RPW antenna calibration in the radio domain and its application to type III burst observations. <i>Astronomy and Astrophysics</i> , 2021, 656, A33.	5.1	5
23	Non-Maxwellianity of Electron Distributions Near Earth's Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029260.	2.4	9
24	First-year ion-acoustic wave observations in the solar wind by the RPW/TDS instrument on board Solar Orbiter. <i>Astronomy and Astrophysics</i> , 2021, 656, A14.	5.1	13
25	Whistler waves observed by Solar Orbiter/RPW between 0.5 AU and 1 AU. <i>Astronomy and Astrophysics</i> , 2021, 656, A24.	5.1	19
26	The Solar Orbiter Radio and Plasma Waves (RPW) instrument (Corrigendum). <i>Astronomy and Astrophysics</i> , 2021, 654, C2.	5.1	2
27	Solar Orbiter's encounter with the tail of comet C/2019 Y4 (ATLAS): Magnetic field draping and cometary pick-up ion waves. <i>Astronomy and Astrophysics</i> , 2021, 656, A39.	5.1	4
28	First observations and performance of the RPW instrument on board the Solar Orbiter mission. <i>Astronomy and Astrophysics</i> , 2021, 656, A41.	5.1	9
29	Structure of a Perturbed Magnetic Reconnection Electron Diffusion Region in the Earth's Magnetotail. <i>Physical Review Letters</i> , 2021, 127, 215101.	7.8	15
30	Electron Bernstein waves driven by electron crescents near the electron diffusion region. <i>Nature Communications</i> , 2020, 11, 141.	12.8	26
31	Electron Acceleration in a Magnetotail Reconnection Outflow Region Using Magnetospheric MultiScale Data. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085080.	4.0	10
32	Electron Heating by Debye-Scale Turbulence in Guide-Field Reconnection. <i>Physical Review Letters</i> , 2020, 124, 045101.	7.8	31
33	Electron Acceleration and Thermalization at Magnetotail Separatrices. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027440.	2.4	21
34	The Solar Orbiter Radio and Plasma Waves (RPW) instrument. <i>Astronomy and Astrophysics</i> , 2020, 642, A12.	5.1	80
35	The Solar Orbiter Science Activity Plan. <i>Astronomy and Astrophysics</i> , 2020, 642, A3.	5.1	67
36	Monitoring the Spatio-temporal Evolution of a Reconnection X-line in Space. <i>Astrophysical Journal Letters</i> , 2020, 899, L34.	8.3	18

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37	Plasma Density and Magnetic Field Fluctuations in the Ion Gyro-Frequency Range Near the Diamagnetic Cavity of Comet 67P. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028592.	2.4	4
38	Collisionless Magnetic Reconnection and Waves: Progress Review. <i>Frontiers in Astronomy and Space Sciences</i> , 2019, 6, .	2.8	46
39	Ion-Beam-Driven Intense Electrostatic Solitary Waves in Reconnection Jet. <i>Geophysical Research Letters</i> , 2019, 46, 12702-12710.	4.0	43
40	MMS Observations of Multiscale Hall Physics in the Magnetotail. <i>Geophysical Research Letters</i> , 2019, 46, 10230-10239.	4.0	5
41	Evidence of Magnetic Nulls in Electron Diffusion Region. <i>Geophysical Research Letters</i> , 2019, 46, 48-54.	4.0	45
42	In situ spacecraft observations of a structured electron diffusion region during magnetopause reconnection. <i>Physical Review E</i> , 2019, 99, 043204.	2.1	11
43	Can Reconnection be Triggered as a Solar Wind Directional Discontinuity Crosses the Bow Shock? A Case of Asymmetric Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 8507-8523.	2.4	10
44	Observations of Electromagnetic Electron Holes and Evidence of Cherenkov Whistler Emission. <i>Physical Review Letters</i> , 2019, 123, 255101.	7.8	12
45	Universality of Lower Hybrid Waves at Earth's Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 8727-8760.	2.4	45
46	Multispacecraft Analysis of Electron Holes. <i>Geophysical Research Letters</i> , 2019, 46, 55-63.	4.0	32
47	Super-efficient Electron Acceleration by an Isolated Magnetic Reconnection. <i>Astrophysical Journal Letters</i> , 2019, 870, L22.	8.3	83
48	Magnetic Reconnection, Turbulence, and Particle Acceleration: Observations in the Earth's Magnetotail. <i>Geophysical Research Letters</i> , 2018, 45, 3338-3347.	4.0	69
49	Electron Jet Detected by MMS at Dipolarization Front. <i>Geophysical Research Letters</i> , 2018, 45, 556-564.	4.0	75
50	Electron Reconnection in the Magnetopause Current Layer. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 9222-9238.	2.4	15
51	Shock ripples observed by the MMS spacecraft: ion reflection and dispersive properties. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 125006.	2.1	25
52	Magnetotail Hall Physics in the Presence of Cold Ions. <i>Geophysical Research Letters</i> , 2018, 45, 10,941.	4.0	17
53	Rippled Electron-Scale Structure of a Dipolarization Front. <i>Geophysical Research Letters</i> , 2018, 45, 12,116.	4.0	38
54	Large-Amplitude High-Frequency Waves at Earth's Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 2630-2657.	2.4	30

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55	Enhanced Escape of Spacecraft Photoelectrons Caused by Langmuir and Upper Hybrid Waves. Journal of Geophysical Research: Space Physics, 2018, 123, 7534-7553.	2.4	14
56	Observations of Whistler Waves in the Magnetic Reconnection Diffusion Region. , 2018, , .		1
57	Ion Kinetics in a Hot Flow Anomaly: MMS Observations. Geophysical Research Letters, 2018, 45, 11,520.	4.0	28
58	Electron Energization at a Reconnecting Magnetosheath Current Sheet. Geophysical Research Letters, 2018, 45, 8081-8090.	4.0	20
59	New Insights into the Nature of Turbulence in the Earth's Magnetosheath Using Magnetospheric MultiScale Mission Data. Astrophysical Journal, 2018, 859, 127.	4.5	23
60	Energy conversion at dipolarization fronts. Geophysical Research Letters, 2017, 44, 1234-1242.	4.0	49
61	Electron Heating at Kinetic Scales in Magnetosheath Turbulence. Astrophysical Journal, 2017, 836, 247.	4.5	50
62	Lower hybrid waves in the ion diffusion and magnetospheric inflow regions. Journal of Geophysical Research: Space Physics, 2017, 122, 517-533.	2.4	108
63	Intermittent energy dissipation by turbulent reconnection. Geophysical Research Letters, 2017, 44, 37-43.	4.0	176
64	MMS Observation of Magnetic Reconnection in the Turbulent Magnetosheath. Journal of Geophysical Research: Space Physics, 2017, 122, 11,442.	2.4	73
65	Cold Ionospheric Ions in the Magnetic Reconnection Outflow Region. Journal of Geophysical Research: Space Physics, 2017, 122, 10,194.	2.4	19
66	Energy budget and mechanisms of cold ion heating in asymmetric magnetic reconnection. Journal of Geophysical Research: Space Physics, 2017, 122, 9396-9413.	2.4	24
67	Instability of Agyrotropic Electron Beams near the Electron Diffusion Region. Physical Review Letters, 2017, 119, 025101.	7.8	46
68	Numerical Study on the Validity of the Taylor Hypothesis in Space Plasmas. Astrophysical Journal, Supplement Series, 2017, 231, 4.	7.7	35
69	Whistler emission in the separatrix regions of asymmetric magnetic reconnection. Journal of Geophysical Research: Space Physics, 2016, 121, 1934-1954.	2.4	56
70	Electron jet of asymmetric reconnection. Geophysical Research Letters, 2016, 43, 5571-5580.	4.0	66
71	Electron scale structures and magnetic reconnection signatures in the turbulent magnetosheath. Geophysical Research Letters, 2016, 43, 5969-5978.	4.0	92
72	Differential kinetic dynamics and heating of ions in the turbulent solar wind. New Journal of Physics, 2016, 18, 125001.	2.9	51

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73	Three-scale structure of diffusion region in the presence of cold ions. Journal of Geophysical Research: Space Physics, 2016, 121, 12,001.	2.4	30
74	Solar wind test of the de Broglie-Proca massive photon with Cluster multi-spacecraft data. Astroparticle Physics, 2016, 82, 49-55.	4.3	33
75	In situ observations of flux rope at the separatrix region of magnetic reconnection. Journal of Geophysical Research: Space Physics, 2016, 121, 205-213.	2.4	30
76	Kinetic evidence of magnetic reconnection due to Kelvin-Helmholtz waves. Geophysical Research Letters, 2016, 43, 5635-5643.	4.0	47
77	Magnetic reconnection and modification of the Hall physics due to cold ions at the magnetopause. Geophysical Research Letters, 2016, 43, 6705-6712.	4.0	45
78	THE EFFECTS OF KINETIC INSTABILITIES ON SMALL-SCALE TURBULENCE IN EARTH'S MAGNETOSHEATH. Astrophysical Journal, 2016, 829, 54.	4.5	23
79	EMC aspects of turbulence heating observer (THOR) spacecraft. , 2016, , .		3
80	Oxygen ion response to proton bursty bulk flows. Journal of Geophysical Research: Space Physics, 2016, 121, 7535-7546.	2.4	11
81	Strong current sheet at a magnetosheath jet: Kinetic structure and electron acceleration. Journal of Geophysical Research: Space Physics, 2016, 121, 9608-9618.	2.4	20
82	Multispacecraft analysis of dipolarization fronts and associated whistler wave emissions using MMS data. Geophysical Research Letters, 2016, 43, 7279-7286.	4.0	49
83	Cold ion demagnetization near the X-line of magnetic reconnection. Geophysical Research Letters, 2016, 43, 6759-6767.	4.0	35
84	Electron currents and heating in the ion diffusion region of asymmetric reconnection. Geophysical Research Letters, 2016, 43, 4691-4700.	4.0	53
85	Two types of whistler waves in the hall reconnection region. Journal of Geophysical Research: Space Physics, 2016, 121, 6639-6646.	2.4	57
86	Rippled Quasiperpendicular Shock Observed by the Magnetospheric Multiscale Spacecraft. Physical Review Letters, 2016, 117, 165101.	7.8	87
87	Identifying magnetic reconnection events using the FOTE method. Journal of Geophysical Research: Space Physics, 2016, 121, 1263-1272.	2.4	69
88	Turbulence Heating Observer " satellite mission proposal. Journal of Plasma Physics, 2016, 82, .	2.1	60
89	Electrostatic solitary waves and electrostatic waves at the magnetopause. Journal of Geophysical Research: Space Physics, 2016, 121, 3069-3092.	2.4	73
90	Finite gyroradius effects in the electron outflow of asymmetric magnetic reconnection. Geophysical Research Letters, 2016, 43, 6724-6733.	4.0	37

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91	The FIELDS Instrument Suite for Solar Probe Plus. Space Science Reviews, 2016, 204, 49-82.	8.1	521
92	ION INJECTION AT QUASI-PARALLEL SHOCKS SEEN BY THE CLUSTER SPACECRAFT. Astrophysical Journal Letters, 2016, 817, L4.	8.3	10
93	Cold ion heating at the dayside magnetopause during magnetic reconnection. Geophysical Research Letters, 2016, 43, 58-66.	4.0	34
94	Electrostatic solitary waves with distinct speeds associated with asymmetric reconnection. Geophysical Research Letters, 2015, 42, 215-224.	4.0	62
95	Kinetic structures of quasi-perpendicular shocks in global particle-in-cell simulations. Physics of Plasmas, 2015, 22, .	1.9	13
96	How to find magnetic nulls and reconstruct field topology with MMS data?. Journal of Geophysical Research: Space Physics, 2015, 120, 3758-3782.	2.4	111
97	Statistics and accuracy of magnetic null identification in multispacecraft data. Geophysical Research Letters, 2015, 42, 6883-6889.	4.0	16
98	Slow electron holes in multicomponent plasmas. Geophysical Research Letters, 2015, 42, 7264-7272.	4.0	30
99	The use of the power density for identifying reconnection regions. Journal of Geophysical Research: Space Physics, 2015, 120, 8644-8662.	2.4	4
100	Energetic particles in magnetotail reconnection. Journal of Plasma Physics, 2015, 81, .	2.1	14
101	The Formation of a Magnetosphere with Implicit Particle-in-Cell Simulations. Procedia Computer Science, 2015, 51, 1178-1187.	2.0	22
102	Slow electron phase space holes: Magnetotail observations. Geophysical Research Letters, 2015, 42, 1654-1661.	4.0	45
103	Lower hybrid drift instability at a dipolarization front. Journal of Geophysical Research: Space Physics, 2015, 120, 1124-1132.	2.4	55
104	Evolution of the lower hybrid drift instability at reconnection jet front. Journal of Geophysical Research: Space Physics, 2015, 120, 2675-2690.	2.4	70
105	Dawn-dusk scale of dipolarization front in the Earth's magnetotail: multi-cases study. Astrophysics and Space Science, 2015, 357, 1.	1.4	23
106	THIN CURRENT SHEETS AND ASSOCIATED ELECTRON HEATING IN TURBULENT SPACE PLASMA. Astrophysical Journal Letters, 2015, 804, L1.	8.3	91
107	Modification of the Hall physics in magnetic reconnection due to cold ions at the Earth's magnetopause. Geophysical Research Letters, 2015, 42, 6146-6154.	4.0	47
108	Evidence for the braking of flow bursts as they propagate toward the Earth. Journal of Geophysical Research: Space Physics, 2014, 119, 9004-9018.	2.4	22

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109	Electron Dynamics in the Diffusion Region of an Asymmetric Magnetic Reconnection. Physical Review Letters, 2014, 112, .	7.8	37
110	Whistler mode waves inside flux pileup region: Structured or unstructured?. Journal of Geophysical Research: Space Physics, 2014, 119, 9089-9100.	2.4	112
111	Wave normal angles of whistler mode chorus rising and falling tones. Journal of Geophysical Research: Space Physics, 2014, 119, 9567-9578.	2.4	54
112	Whistler mode waves at magnetotail dipolarization fronts. Journal of Geophysical Research: Space Physics, 2014, 119, 2605-2611.	2.4	51
113	Energetic electron acceleration by unsteady magnetic reconnection. Nature Physics, 2013, 9, 426-430.	16.7	215
114	Mapping HF waves in the reconnection diffusion region. Geophysical Research Letters, 2013, 40, 1032-1037.	4.0	49
115	Inverted V and low energy broadband electron acceleration features of multiple auroras within a large scale surge. Journal of Geophysical Research: Space Physics, 2013, 118, 5543-5552.	2.4	17
116	Wave dispersion in the hybrid-Vlasov model: Verification of Vlasiator. Physics of Plasmas, 2013, 20, .	1.9	19
117	Supermagnetosonic subsolar magnetosheath jets and their effects: from the solar wind to the ionospheric convection. Annales Geophysicae, 2012, 30, 33-48.	1.6	92
118	Pitch angle distribution of suprathermal electrons behind dipolarization fronts: A statistical overview. Journal of Geophysical Research, 2012, 117, .	3.3	136
119	Electron acceleration in the reconnection diffusion region: Cluster observations. Geophysical Research Letters, 2012, 39, .	4.0	95
120	Electric structure of dipolarization front at sub-proton scale. Geophysical Research Letters, 2012, 39, .	4.0	160
121	Observations of turbulence within reconnection jet in the presence of guide field. Geophysical Research Letters, 2012, 39, .	4.0	78
122	Occurrence rate of earthward propagating dipolarization fronts. Geophysical Research Letters, 2012, 39, .	4.0	141
123	Lower Hybrid Drift Waves: Space Observations. Physical Review Letters, 2012, 109, 055001.	7.8	91
124	EIDOSCOPE: particle acceleration at plasma boundaries. Experimental Astronomy, 2012, 33, 491-527.	3.7	6
125	Crater flux transfer events: Highroad to the X line?. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	16
126	Fermi and betatron acceleration of suprathermal electrons behind dipolarization fronts. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	299

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127	Jet front-driven mirror modes and shocklets in the near-Earth flow-braking region. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	17
128	The proton pressure tensor as a new proxy of the proton decoupling region in collisionless magnetic reconnection. Annales Geophysicae, 2011, 29, 1571-1579.	1.6	16
129	Relativistic filamentary equilibria. Journal of Plasma Physics, 2011, 77, 193-205.	2.1	2
130	Plasma Jet Braking: Energy Dissipation and Nonadiabatic Electrons. Physical Review Letters, 2011, 106, 165001.	7.8	193
131	Suprathermal electron acceleration during reconnection onset in the magnetotail. Annales Geophysicae, 2011, 29, 1917-1925.	1.6	48
132	Local influence of magnetosheath plasma beta fluctuations on magnetopause reconnection. Annales Geophysicae, 2010, 28, 1053-1063.	1.6	11
133	Applications of the wave kinetic approach: from laser wakefields to drift wave turbulence. Journal of Plasma Physics, 2010, 76, 903-914.	2.1	1
134	Observations of Slow Electron Holes at a Magnetic Reconnection Site. Physical Review Letters, 2010, 105, 165002.	7.8	106
135	The Alfvén edge in asymmetric reconnection. Annales Geophysicae, 2010, 28, 1327-1331.	1.6	9
136	Electron acceleration signatures in the magnetotail associated with substorms. Journal of Geophysical Research, 2010, 115, .	3.3	64
137	Oxygen energization by localized perpendicular electric fields at the cusp boundary. Geophysical Research Letters, 2010, 37, .	4.0	17
138	Magnetic reconnection and cold plasma at the magnetopause. Geophysical Research Letters, 2010, 37, .	4.0	35
139	Features of separatrix regions in magnetic reconnection: Comparison of 2D particle-in-cell simulations and Cluster observations. Journal of Geophysical Research, 2010, 115, .	3.3	87
140	Growth of filaments and saturation of the filamentation instability. Physics of Plasmas, 2010, 17, 032108.	1.9	12
141	Scale size and life time of energy conversion regions observed by Cluster in the plasma sheet. Annales Geophysicae, 2009, 27, 4147-4155.	1.6	5
142	Supermagnetosonic Jets behind a Collisionless Quasiparallel Shock. Physical Review Letters, 2009, 103, 245001.	7.8	121
143	The Cross-Scale Mission. , 2009, , .		0
144	Magnetic reconnection in space plasma. Plasma Physics and Controlled Fusion, 2009, 51, 124016.	2.1	3

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145	Cross-scale: multi-scale coupling in space plasmas. <i>Experimental Astronomy</i> , 2009, 23, 1001-1015.	3.7	18
146	Observation of the lower hybrid waves near the three-dimensional null pair. <i>Science in China Series G: Physics, Mechanics and Astronomy</i> , 2009, 52, 626-630.	0.2	3
147	Kelvin-Helmholtz waves at the Earth's magnetopause: Multiscale development and associated reconnection. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	119
148	Applications of the wave kinetic approach: From laser wakefields to drift wave turbulence. <i>Physics of Plasmas</i> , 2009, 16, 055904.	1.9	12
149	Dynamics and waves near multiple magnetic null points in reconnection diffusion region. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	37
150	Observation of waves near lower hybrid frequency in the reconnection region with thin current sheet. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	69
151	Separatrix regions of magnetic reconnection at the magnetopause. <i>Annales Geophysicae</i> , 2009, 27, 4039-4056.	1.6	31
152	Observation of energetic electrons within magnetic islands. <i>Nature Physics</i> , 2008, 4, 19-23.	16.7	238
153	Modulated reconnection rate and energy conversion at the magnetopause under steady IMF conditions. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	24
154	Observations of an active thin current sheet. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	40
155	Retreat and reformation of X-line during quasi-continuous tailward-to-the-cusp reconnection under northward IMF. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	20
156	Comparison of local energy conversion estimates from Cluster with global MHD simulations. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	16
157	Evidence of an extended electron current sheet and its neighboring magnetic island during magnetotail reconnection. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	92
158	Cluster observations of energetic electrons and electromagnetic fields within a reconnecting thin current sheet in the Earth's magnetotail. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	109
159	Simulation of zonal flow excitation by drift mode turbulence: applications to tokamaks and the magnetopause. <i>Plasma Physics and Controlled Fusion</i> , 2008, 50, 124048.	2.1	2
160	Studies of Zonal Flows Driven by Drift Mode Turbulence in Laboratory and Space Plasmas. , 2008, , .		1
161	Magnetosheath Plasma Turbulence and Its Spatiotemporal Evolution as Observed by the Cluster Spacecraft. <i>Physical Review Letters</i> , 2008, 100, 205003.	7.8	55
162	Effects on magnetic reconnection of a density asymmetry across the current sheet. <i>Annales Geophysicae</i> , 2008, 26, 2471-2483.	1.6	63

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163	GALS – Gradient Analysis by Least Squares. Annales Geophysicae, 2008, 26, 3491-3499.	1.6	15
164	Dissipation in Turbulent Plasma due to Reconnection in Thin Current Sheets. Physical Review Letters, 2007, 99, 025004.	7.8	198
165	Spontaneous Generation of Self-Organized Solitary Wave Structures at Earth's Magnetopause. Physical Review Letters, 2007, 99, 205006.	7.8	35
166	Source of whistler emissions at the dayside magnetopause. Geophysical Research Letters, 2007, 34, .	4.0	44
167	Dynamics of thin current sheets: Cluster observations. Annales Geophysicae, 2007, 25, 1365-1389.	1.6	83
168	In situ evidence of magnetic reconnection in turbulent plasma. Nature Physics, 2007, 3, 235-238.	16.7	333
169	Low-frequency electric field and density fluctuation measurements on Solar Orbiter. Advances in Space Research, 2007, 39, 1502-1509.	2.6	10
170	Internal structure and spatial dimensions of whistler wave regions in the magnetopause boundary layer. Annales Geophysicae, 2007, 25, 2439-2451.	1.6	12
171	Shell-instability generated waves by low energy electrons on converging magnetic field lines. Geophysical Research Letters, 2006, 33, .	4.0	4
172	Structure of the separatrix region close to a magnetic reconnection X-line: Cluster observations. Geophysical Research Letters, 2006, 33, .	4.0	88
173	Experimental investigation of auroral generator regions with conjugate Cluster and FAST data. Annales Geophysicae, 2006, 24, 619-635.	1.6	23
174	Observations of concentrated generator regions in the nightside magnetosphere by Cluster/FAST conjunctions. Annales Geophysicae, 2006, 24, 637-649.	1.6	23
175	Plasma Waves Near Reconnection Sites. , 2006, , 251-269.		17
176	Magnetospheric energy budget during huge geomagnetic activity using Cluster and ground-based data. Journal of Geophysical Research, 2006, 111, .	3.3	30
177	Microphysics of Magnetic Reconnection. Space Science Reviews, 2006, 122, 19-27.	8.1	31
178	Formation of Inner Structure of a Reconnection Separatrix Region. Physical Review Letters, 2006, 97, 205003.	7.8	83
179	Cluster/rapid energetic electron observations at the dayside magnetospheric boundary. Advances in Space Research, 2005, 36, 1904-1908.	2.6	2
180	In situ multi-satellite detection of coherent vortices as a manifestation of Alfvénic turbulence. Nature, 2005, 436, 825-828.	27.8	124

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181	Magnetopause and Boundary Layer. Space Science Reviews, 2005, 118, 231-320.	8.1	56
182	Magnetopause Processes. Space Science Reviews, 2005, 118, 367-424.	8.1	35
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184	Electron-scale sheets of whistlers close to the magnetopause. Annales Geophysicae, 2005, 23, 3715-3725.	1.6	16
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