

Lou-Chuang Lee

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240
papers

7,947
citations

47
h-index

79
g-index

242
ext. papers

8,427
ext. citations

4.2
avg, IF

5.66
L-index

#	Paper	IF	Citations
240	A theory of the terrestrial kilometric radiation. <i>Astrophysical Journal</i> , 1979 , 230, 621	4.7	754
239	A theory of magnetic flux transfer at the Earth's magnetopause. <i>Geophysical Research Letters</i> , 1985 , 12, 105-108	4.9	407
238	Energy coupling function and solar wind-magnetosphere dynamo. <i>Geophysical Research Letters</i> , 1979 , 6, 577-580	4.9	381
237	Gigantic jets between a thundercloud and the ionosphere. <i>Nature</i> , 2003 , 423, 974-6	50.4	154
236	Numerical simulation of nonoscillatory mirror waves at the Earth's magnetosheath. <i>Journal of Geophysical Research</i> , 1986 , 91, 101		151
235	Global distributions and occurrence rates of transient luminous events. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		147
234	Possible evidence of flux transfer events in the polar ionosphere. <i>Geophysical Research Letters</i> , 1986 , 13, 1089-1092	4.9	135
233	Multiple X line reconnection: 1. A criterion for the transition from a single X line to a multiple X line reconnection. <i>Journal of Geophysical Research</i> , 1986 , 91, 6807		133
232	Nonlinear ion-acoustic waves and solitons in a magnetized plasma. <i>Physics of Fluids</i> , 1981 , 24, 430		119
231	Kelvin-Helmholtz Instability in the magnetopause-boundary layer region. <i>Journal of Geophysical Research</i> , 1981 , 86, 54		110
230	An improved coupling model for the lithosphere-atmosphere-ionosphere system. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 3189-3205	2.6	107
229	Tearing instability, Kelvin-Helmholtz instability, and magnetic reconnection. <i>Journal of Geophysical Research</i> , 1997 , 102, 151-161		101
228	Strong scintillations in astrophysics. II - A theory of temporal broadening of pulses. <i>Astrophysical Journal</i> , 1975 , 201, 532	4.7	100
227	Ionosphere plasma bubbles and density variations induced by pre-earthquake rock currents and associated surface charges. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		99
226	Fast magnetic reconnection with small shock angles. <i>Journal of Geophysical Research</i> , 1992 , 97, 8277		98
225	The generalized Ohm's law in collisionless magnetic reconnection. <i>Physics of Plasmas</i> , 1997 , 4, 509-520	2.1	96
224	Effects of multiple scattering on coda waves in three-dimensional medium. <i>Pure and Applied Geophysics</i> , 1983 , 121, 3-15	2.2	96

223	D region ionization by lightning-induced electromagnetic pulses. <i>Journal of Geophysical Research</i> , 2005 , 110,		80
222	Ionosphere and ground-based response to field-aligned currents near the magnetospheric cusp regions. <i>Journal of Geophysical Research</i> , 1987 , 92, 7739		80
221	Electric fields and electron energies inferred from the ISUAL recorded sprites. <i>Geophysical Research Letters</i> , 2005 , 32, n/a-n/a	4.9	78
220	Kinetic Alfvén waves as a source of plasma transport at the dayside magnetopause. <i>Journal of Geophysical Research</i> , 1994 , 99, 17405		75
219	Generation of the auroral kilometric radiation. <i>Journal of Geophysical Research</i> , 1982 , 87, 4476		74
218	A mechanism for patchy reconnection at the dayside magnetopause. <i>Geophysical Research Letters</i> , 1988 , 15, 152-155	4.9	73
217	The irregularity spectrum in interstellar space. <i>Astrophysical Journal</i> , 1976 , 206, 735	4.7	73
216	Simulation of multiple X-line reconnection at the dayside magnetopause. <i>Geophysical Research Letters</i> , 1985 , 12, 291-294	4.9	72
215	Strong scintillations in astrophysics. I - The Markov approximation, its validity and application to angular broadening. <i>Astrophysical Journal</i> , 1975 , 196, 695	4.7	70
214	Nonlinear magnetic reconnection models with separatrix jets. <i>Journal of Plasma Physics</i> , 1990 , 44, 337-360		68
213	A simulation study of forced reconnection processes and magnetospheric storms and substorms. <i>Journal of Geophysical Research</i> , 1985 , 90, 10896		68
212	Heating and Acceleration of Protons and Minor Ions by Fast Shocks in the Solar Corona. <i>Astrophysical Journal</i> , 2000 , 535, 1014-1026	4.7	67
211	Amplification of radiation near cyclotron frequency due to electron population inversion. <i>Physics of Fluids</i> , 1980 , 23, 1348		67
210	Discharge processes, electric field, and electron energy in ISUAL-recorded gigantic jets. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		62
209	Momentum transport near a magnetic X line in collisionless reconnection. <i>Journal of Geophysical Research</i> , 1994 , 99, 35		62
208	Formation of solar prominences by photospheric shearing motions. <i>Solar Physics</i> , 1992 , 138, 291-329	2.6	60
207	Particle pitch angle diffusion due to nonadiabatic effects in the plasma sheet. <i>Journal of Geophysical Research</i> , 1982 , 87, 7445		60
206	A dynamo theory of solar flares. <i>Solar Physics</i> , 1983 , 84, 153-167	2.6	59

205	Generation of dynamic pressure pulses downstream of the bow shock by variations in the interplanetary magnetic field orientation. <i>Journal of Geophysical Research</i> , 1996 , 101, 479-493		58
204	Core magnetic field enhancement in single X line, multiple X line and patchy reconnection. <i>Journal of Geophysical Research</i> , 1994 , 99, 6125		55
203	Theory of imperfect magnetosphere-ionosphere coupling. <i>Geophysical Research Letters</i> , 1980 , 7, 633-636	4.9	54
202	Modeling elves observed by FORMOSAT-2 satellite. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		52
201	Topology of magnetic flux ropes and formation of fossil flux transfer events and boundary layer plasmas. <i>Journal of Geophysical Research</i> , 1993 , 98, 3943-3951		52
200	Structure of the dayside reconnection layer in resistive MHD and hybrid models. <i>Journal of Geophysical Research</i> , 1993 , 98, 3919-3934		52
199	Comparison of results from sprite streamer modeling with spectrophotometric measurements by ISUAL instrument on FORMOSAT-2 satellite. <i>Geophysical Research Letters</i> , 2006 , 33, n/a-n/a	4.9	51
198	Simulation of pressure pulses in the bow shock and magnetosheath driven by variations in interplanetary magnetic field direction. <i>Journal of Geophysical Research</i> , 1996 , 101, 27251-27269		51
197	Coupling of magnetopause-boundary layer to the polar ionosphere. <i>Journal of Geophysical Research</i> , 1993 , 98, 5707-5725		49
196	Observation of sprites over the Asian continent and over oceans around Taiwan. <i>Geophysical Research Letters</i> , 2002 , 29, 3-1	4.9	48
195	Wave propagation in a random medium: A complete set of the moment equations with different wavenumbers. <i>Journal of Mathematical Physics</i> , 1974 , 15, 1431-1435	1.2	48
194	Observations of Pi 2 pulsations at a very low latitude ($L = 1.06$) station and magnetospheric cavity resonances. <i>Journal of Geophysical Research</i> , 1991 , 96, 21105		47
193	Interplanetary small- and intermediate-sized magnetic flux ropes during 1995-2005. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		46
192	Radiative emission and energy deposition in transient luminous events. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 234014	3	45
191	Electric field transition between the diffuse and streamer regions of sprites estimated from ISUAL/array photometer measurements. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	45
190	Evolution of Solar Magnetic Arcades. II. Effect of Resistivity and Solar Eruptive Processes. <i>Astrophysical Journal</i> , 1996 , 472, 372-388	4.7	45
189	A study of multiple X line reconnection at the dayside magnetopause. <i>Geophysical Research Letters</i> , 1988 , 15, 295-298	4.9	44
188	A study of mirror waves generated downstream of a quasi-perpendicular shock. <i>Journal of Geophysical Research</i> , 1988 , 93, 247		44

187	Kelvin-Helmholtz instability and the variation of geomagnetic pulsation activity. <i>Geophysical Research Letters</i> , 1980 , 7, 777-780	4.9	44
186	On the stability of rotational discontinuities and intermediate shocks. <i>Journal of Geophysical Research</i> , 1989 , 94, 8813		42
185	Increase of ion kinetic temperature across a collisionless shock: I. A new mechanism. <i>Geophysical Research Letters</i> , 1986 , 13, 209-212	4.9	42
184	Structure of the magnetopause rotational discontinuity. <i>Journal of Geophysical Research</i> , 1982 , 87, 139		42
183	Magnetic reconnection in the presence of sheared plasma flow: Intermediate shock formation. <i>Physics of Plasmas</i> , 1994 , 1, 706-713	2.1	39
182	Heliospheric plasma sheet (HPS) impingement onto the magnetosphere as a cause of relativistic electron dropouts (REDs) via coherent EMIC wave scattering with possible consequences for climate change mechanisms. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 10,130-10,156	2.6	39
181	Electric fields and electron energies in sprites and temporal evolutions of lightning charge moment. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 234010	3	38
180	Streaming sausage, kink and tearing instabilities in a current sheet with applications to the Earth's magnetotail. <i>Journal of Geophysical Research</i> , 1988 , 93, 7354		38
179	Small-scale auroral arc deformations. <i>Journal of Geophysical Research</i> , 1983 , 88, 8013		38
178	Interaction of interplanetary shocks and rotational discontinuities with the Earth's bow shock. <i>Journal of Geophysical Research</i> , 1996 , 101, 4835-4848		37
177	Multiple brightenings of transient dayside auroral forms during oval expansions. <i>Geophysical Research Letters</i> , 1992 , 19, 2429-2432	4.9	37
176	Solar wind energy transfer through the magnetopause of an open magnetosphere. <i>Journal of Geophysical Research</i> , 1982 , 87, 1439-1444		37
175	Gigantic jets with negative and positive polarity streamers. <i>Journal of Geophysical Research</i> , 2010 , 115,		36
174	Multiple X line reconnection: 2. The dynamics. <i>Journal of Geophysical Research</i> , 1986 , 91, 13373		36
173	A mechanism for the generation of cusp region hydromagnetic waves. <i>Journal of Geophysical Research</i> , 1988 , 93, 7578		35
172	A simulation study of the loss cone driven cyclotron maser applied to auroral kilometric radiation. <i>Radio Science</i> , 1984 , 19, 509-518	1.4	34
171	Evolution of Solar Magnetic Arcades. I. Ideal MHD Evolution under Footpoint Shearing. <i>Astrophysical Journal</i> , 1996 , 472, 360-371	4.7	34
170	Simulation study of the Riemann problem associated with the magnetotail reconnection. <i>Journal of Geophysical Research</i> , 1995 , 100, 19227		33

169	Particle simulations of driven collisionless magnetic reconnection at the dayside magnetopause. <i>Journal of Geophysical Research</i> , 1992 , 97, 8453		33
168	ISUAL far-ultraviolet events, elves, and lightning current. <i>Journal of Geophysical Research</i> , 2010 , 115,		32
167	Magnetospheric response to solar wind dynamic pressure variations: Interaction of interplanetary tangential discontinuities with the bow shock. <i>Journal of Geophysical Research</i> , 1993 , 98, 21297-21311		32
166	Slow shock characteristics as a function of distance from the X-line in the magnetotail. <i>Geophysical Research Letters</i> , 1989 , 16, 903-906	4.9	32
165	The role of intermediate shocks in magnetic reconnection. <i>Geophysical Research Letters</i> , 1992 , 19, 229-232	4.9	31
164	A simulation study of impulsive penetration of solar wind irregularities into the magnetosphere at the dayside magnetopause. <i>Journal of Geophysical Research</i> , 1991 , 96, 15751-15765		31
163	Tearing mode instability in a multiple current sheet system. <i>Journal of Geophysical Research</i> , 1994 , 99, 8657		30
162	A study of tearing instability in the presence of a pressure anisotropy. <i>Journal of Geophysical Research</i> , 1987 , 92, 12171		30
161	Assessment of sprite initiating electric fields and quenching altitude of a 1 μ state of N ₂ using sprite streamer modeling and ISUAL spectrophotometric measurements. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		29
160	A simulation study of the vortex structure in the low-latitude boundary layer. <i>Journal of Geophysical Research</i> , 1990 , 95, 20793		29
159	Different FTE signatures generated by the bursty single X line reconnection and the multiple X line reconnection at the dayside magnetopause. <i>Journal of Geophysical Research</i> , 1991 , 96, 57		29
158	Spatial and temporal anomalies of soil gas in northern Taiwan and its tectonic and seismic implications. <i>Journal of Asian Earth Sciences</i> , 2017 , 149, 64-77	2.8	28
157	Optical emissions and behaviors of the blue starters, blue jets, and gigantic jets observed in the Taiwan transient luminous event ground campaign. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		28
156	Generation of slow-mode waves in front of the dayside magnetopause. <i>Geophysical Research Letters</i> , 1994 , 21, 629-632	4.9	28
155	Ground magnetic signatures of moving elongated plasma clouds. <i>Journal of Geophysical Research</i> , 1990 , 95, 2405		28
154	Streaming tearing instability in the current sheet with a super-Alfvénic flow. <i>Physics of Fluids</i> , 1988 , 31, 1544		28
153	Computer simulation of auroral kilometric radiation. <i>Geophysical Research Letters</i> , 1983 , 10, 483-486	4.9	28
152	Reconnection layers in two-dimensional magnetohydrodynamics and comparison with the one-dimensional Riemann problem. <i>Physics of Plasmas</i> , 1999 , 6, 3131-3146	2.1	27

151	Generation of field-aligned currents and Alfvén waves by 3D magnetic reconnection. <i>Geophysical Research Letters</i> , 1995 , 22, 1737-1740	4.9	27
150	Magnetic reconnection with large separatrix angles. <i>Journal of Geophysical Research</i> , 1993 , 98, 7593-7602		27
149	Reconnection layer at the flank magnetopause in the presence of shear flow. <i>Geophysical Research Letters</i> , 1994 , 21, 855-858	4.9	27
148	Strong scintillations in astrophysics. III - The fluctuations in intensity. <i>Astrophysical Journal</i> , 1975 , 202, 439	4.7	27
147	Chaos and ion heating in a slow shock. <i>Geophysical Research Letters</i> , 1991 , 18, 1615-1618	4.9	26
146	A simulation study of magnetic reconnection: Transition from a fast mode to a slow mode expansion. <i>Journal of Geophysical Research</i> , 1986 , 91, 4551		26
145	A study of slow-mode structures in the dayside magnetosheath. <i>Geophysical Research Letters</i> , 1991 , 18, 381-384	4.9	25
144	On the generation of magnetosheath lion roars. <i>Journal of Geophysical Research</i> , 1987 , 92, 2343		25
143	Magnetospheric substorms: An equivalent circuit approach. <i>Journal of Geophysical Research</i> , 1988 , 93, 7366		25
142	Transmission of magnetohydrodynamic waves through the rotational discontinuity at the Earth's magnetopause. <i>Journal of Geophysical Research</i> , 1984 , 89, 10697		25
141	Highly structured electron anisotropy in collisionless reconnection exhausts. <i>Geophysical Research Letters</i> , 2014 , 41, 5389-5395	4.9	24
140	Formation of a very thin current sheet in the near-Earth magnetotail and the explosive growth phase of substorms. <i>Geophysical Research Letters</i> , 1995 , 22, 1137-1140	4.9	24
139	Increase of ion kinetic temperature across a collisionless shock: 2. A simulation study. <i>Journal of Geophysical Research</i> , 1987 , 92, 13438		24
138	Spontaneous synchrotron emission from a plasma with an energetic runaway electron tail. <i>Physics of Fluids</i> , 1978 , 21, 1502		24
137	A mechanism for the multiple brightenings of dayside poleward-moving auroral forms. <i>Geophysical Research Letters</i> , 1993 , 20, 2247-2250	4.9	23
136	Short wavelength stabilization of the gradient drift instability due to velocity shear. <i>Geophysical Research Letters</i> , 1983 , 10, 357-360	4.9	23
135	Ion two-stream and modified two-stream instabilities in the magnetic neutral sheet. <i>Geophysical Research Letters</i> , 1982 , 9, 1159-1162	4.9	23
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- 133 A quasi-local theory of the E B instability in the ionosphere. *Journal of Geophysical Research*, **1986**, 91, 3263 21
- 132 A new shock fitting procedure for the MHD Rankine-Hugoniot relations for the case of small He²⁺ slippage. *Journal of Geophysical Research*, **2006**, 111, 20
- 131 Magnetic field reconnection patterns at the dayside magnetopause: An MHD simulation study. *Journal of Geophysical Research*, **1991**, 96, 17627 20
- 130 A mechanism for the formation of plasmoids and kink waves in the heliospheric current sheet. *Solar Physics*, **1988**, 117, 157-169 2.6 20
- 129 Temporal variation of gamma rays as a possible precursor of earthquake in the Longitudinal Valley of eastern Taiwan. *Journal of Asian Earth Sciences*, **2015**, 114, 362-372 2.8 19
- 128 Collisional tearing instability in the current sheet with a low magnetic Lundquist number. *Journal of Geophysical Research*, **1986**, 91, 3311 19
- 127 A cyclotron-maser instability associated with a nongyrotropic distribution. *Physics of Fluids*, **1987**, 30, 3106 18
- 126 A simulation study of generation of field-aligned currents and Alfvén waves by three-dimensional magnetic reconnection. *Journal of Geophysical Research*, **1999**, 104, 10177-10189 17
- 125 The beta dependence of the collisionless tearing instability at the dayside magnetopause. *Journal of Geophysical Research*, **1992**, 97, 8257 17
- 124 Electrostatic Kelvin-Helmholtz instability in a radially injected plasma cloud. *Physics of Fluids*, **1983**, 26, 2986 17
- 123 Multiple X line reconnection: 3. A particle simulation of flux transfer events. *Journal of Geophysical Research*, **1986**, 91, 13384 16
- 122 Spontaneous Emission near the Electron Plasma Frequency in a Plasma with a Runaway Electron Tail. *Physical Review Letters*, **1978**, 40, 1563-1566 7.4 16
- 121 Interstellar turbulence spectrum from in situ observations of Voyager 1. *Nature Astronomy*, **2019**, 3, 154-159 15
- 120 Occurrence of elves and lightning during El Niño and La Niña. *Geophysical Research Letters*, **2012**, 39, n/a-n/a 4.9 14
- 119 Ionization emissions associated with N₂⁺ 1N band in halos without visible sprite streamers. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 5317-5326 2.6 14
- 118 Magnetic reconnection in the presence of sheared flow and density asymmetry: Applications to the Earth's magnetopause. *Journal of Geophysical Research*, **1995**, 100, 11875 14
- 117 Magnetic field and plasma properties associated with pressure pulses and magnetic reconnection at the dayside magnetopause. *Journal of Geophysical Research*, **1995**, 100, 14895 14
- 116 Magnetic reconnection in a collisionless plasma: Evidence for the current sheet acceleration. *Geophysical Research Letters*, **1987**, 14, 1003-1006 4.9 14

115	OBSERVATIONAL EVIDENCE FOR THE RELATIONSHIP BETWEEN WALDEN SLOPE AND AMPLITUDE RATIO OF INWARD TO OUTWARD ALFVÉN WAVES IN THE SOLAR WIND. <i>Astrophysical Journal</i> , 2016 , 817, 178	4.7	14
114	Multidimensional nonlinear mirror-mode structures in the Earth's magnetosheath. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		13
113	Hall effects on the Walden relation in rotational discontinuities and Alfvén waves. <i>Journal of Geophysical Research</i> , 2000 , 105, 18377-18389		13
112	Hall effects on the generation of field-aligned currents in three-dimensional magnetic reconnection. <i>Journal of Geophysical Research</i> , 2001 , 106, 25951-25960		13
111	On the generation of the pulsating aurora by the loss cone driven whistler instability in the equatorial region. <i>Journal of Geophysical Research</i> , 1990 , 95, 3893		13
110	An improvement of the Kamide-Richmond-Matsushita Scheme for the estimation of the three-dimensional current system. <i>Journal of Geophysical Research</i> , 1985 , 90, 6469		13
109	Double-layer criterion on the altitude of the auroral acceleration region. <i>Geophysical Research Letters</i> , 1980 , 7, 429-432	4.9	13
108	Preseismic anomalies in soil-gas radon associated with 2016 M 6.6 Meinong earthquake, Southern Taiwan. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2017 , 28, 787-798	1.8	13
107	Ionospheric plasma dynamics and instability caused by upward currents above thunderstorms. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 3240-3253	2.6	12
106	WALDEN TEST AND DE HOFFMANN-TELLER FRAME OF INTERPLANETARY LARGE-AMPLITUDE ALFVÉN WAVES. <i>Astrophysical Journal</i> , 2014 , 786, 149	4.7	12
105	Characteristics and generation of secondary jets and secondary gigantic jets. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		12
104	Controlling synoptic-scale factors for the distribution of transient luminous events. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		12
103	The relationship between small interplanetary magnetic flux rope and the substorm expansion phase. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		11
102	A 2D simulation study of Langmuir, whistler, and cyclotron maser instabilities induced by an electron ring-beam distribution. <i>Physics of Plasmas</i> , 2011 , 18, 092110	2.1	11
101	Identification of mirror waves by the phase difference between perturbed magnetic field and plasmas. <i>Journal of Geophysical Research</i> , 1998 , 103, 6621-6631		11
100	Full-kinetic elve model simulations and their comparisons with the ISUAL observed events. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		10
99	Nonlinear saturation of cyclotron maser instability associated with energetic ring-beam electrons. <i>Physical Review Letters</i> , 2009 , 103, 105101	7.4	10
98	Structure of intermediate shocks and slow shocks in a magnetized plasma with heat conduction. <i>Physics of Plasmas</i> , 2005 , 12, 082501	2.1	10

97	Magnetic field rotation and transition width in rotational discontinuities and Alfvén wave trains. <i>Journal of Geophysical Research</i> , 2000 , 105, 139-155		10
96	A note on the nature of the distant geomagnetic tail magnetopause and boundary layer. <i>Geophysical Research Letters</i> , 1985 , 12, 153-154	4.9	10
95	Theory of thin-screen scintillations for a spherical wave. <i>Astrophysical Journal</i> , 1977 , 218, 468	4.7	10
94	Earth's Outgoing Longwave Radiation Variability Prior to M ₀ Earthquakes in the Taiwan Area During 2009-2019. <i>Frontiers in Earth Science</i> , 2020 , 8,	3.5	10
93	Formation of Macroscale Flux Transfer Events at Mercury. <i>Astrophysical Journal Letters</i> , 2020 , 893, L18	7.9	9
92	The 762 nm emissions of sprites. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		9
91	A possible generation mechanism of interplanetary rotational discontinuities. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		9
90	Effects of a guide field on the evolution of a current sheet. <i>Physics of Plasmas</i> , 2006 , 13, 102902	2.1	9
89	Structure of field-aligned plasma jets associated with magnetic reconnection. <i>Physics of Fluids B</i> , 1992 , 4, 3808-3810		9
88	Plasma and magnetic-field structures near the Martian induced magnetosphere boundary. <i>Astronomy and Astrophysics</i> , 2020 , 642, A34	5.1	9
87	Coherency and ellipticity of electromagnetic ion cyclotron waves: Satellite observations and simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 3374-3396	2.6	8
86	Are all leading shocks driven by magnetic clouds?. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		8
85	Formation of fast shocks by magnetic reconnection in the solar corona. <i>Physics of Plasmas</i> , 2009 , 16, 092901	2.1	8
84	Immediate impact of the Mt Chaiten eruption on atmosphere from FORMOSAT-3/COSMIC constellation. <i>Geophysical Research Letters</i> , 2009 , 36, n/a-n/a	4.9	8
83	Structure of slow shocks in a magnetized plasma with heat conduction. <i>Physics of Plasmas</i> , 2002 , 9, 1185-1191	1.91	8
82	Formation of a compound slow shock-rotational discontinuity structure. <i>Journal of Geophysical Research</i> , 2000 , 105, 13045-13053		8
81	Generation of kinetic Alfvén waves by mirror instability. <i>Geophysical Research Letters</i> , 2001 , 28, 3051-3054	4.9	8
80	Tailward stretching of geomagnetic field lines in the presence of an enhanced ionospheric convection electric field. <i>Geophysical Research Letters</i> , 1995 , 22, 3449-3452	4.9	8

79	Generation of Pc 1 waves by the ion temperature anisotropy associated with fast shocks caused by sudden impulses. <i>Journal of Geophysical Research</i> , 1991 , 96, 17897		8
78	Generation of He+ and O+ EMIC waves by the bunch distribution of O+ ions associated with fast magnetosonic shocks in the magnetosphere. <i>Geophysical Research Letters</i> , 2016 , 43, 9406-9414	4.9	8
77	Multiple X-line Reconnection Observed in Mercury's Magnetotail Driven by an Interplanetary Coronal Mass Ejection. <i>Astrophysical Journal Letters</i> , 2020 , 893, L11	7.9	7
76	Ionospheric density and velocity anomalies before M 6.5 earthquakes observed by DEMETER satellite. <i>Journal of Asian Earth Sciences</i> , 2018 , 166, 210-222	2.8	7
75	Plasma pressure and anisotropy inferred from the Tsyganenk magnetic field model. <i>Annales Geophysicae</i> , 1994 , 12, 286-295	2	7
74	A hybrid simulation of contact discontinuity. <i>Geophysical Research Letters</i> , 1994 , 21, 2059-2062	4.9	7
73	Negative ion-acoustic solitons in a two-component magnetized plasma. <i>Physics of Fluids</i> , 1988 , 31, 1549		7
72	Excitation of high-frequency waves with mixed polarization by streaming energetic electrons. <i>Journal of Plasma Physics</i> , 1979 , 22, 277-288	2.7	7
71	Velocity of the Solar Wind as Determined from Interplanetary Scintillations.. <i>Astrophysical Journal</i> , 1972 , 172, 729	4.7	7
70	on the Relation Between the Pattern and Wind Velocities in Inter-Planetary Scintillations. <i>Astrophysical Journal</i> , 1973 , 182, 317	4.7	7
69	Strong scintillations in astrophysics. IV - Cross-correlation between different frequencies and finite bandwidth effects. <i>Astrophysical Journal</i> , 1976 , 206, 744	4.7	7
68	Plasma irregularities in the comet's tail. <i>Astrophysical Journal</i> , 1976 , 210, 254	4.7	7
67	Reply to comment by B. E. Prokhorov and O. V. Zolotov on An improved coupling model for the lithosphere-atmosphere-ionosphere system <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 4869-4874	2.6	6
66	Evaluating the March 27, 2013 M 6.2 Earthquake Hypocenter Using Momentary High-Conductivity Materials. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2015 , 26, 1	1.8	6
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