

# Lou-Chuang Lee

## List of Publications by Year in descending order

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240  
papers

9,220  
citations

38720

50  
h-index

53190

85  
g-index

242  
all docs

242  
docs citations

242  
times ranked

3592  
citing authors

#	ARTICLE	IF	CITATIONS
1	A theory of the terrestrial kilometric radiation. <i>Astrophysical Journal</i> , 1979, 230, 621.	1.6	849
2	A theory of magnetic flux transfer at the Earth's magnetopause. <i>Geophysical Research Letters</i> , 1985, 12, 105-108.	1.5	456
3	Energy coupling function and solar windâ€magnetosphere dynamo. <i>Geophysical Research Letters</i> , 1979, 6, 577-580.	1.5	452
4	Gigantic jets between a thundercloud and the ionosphere. <i>Nature</i> , 2003, 423, 974-976.	13.7	191
5	Global distributions and occurrence rates of transient luminous events. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	186
6	Numerical simulation of nonoscillatory mirror waves at the Earth's magnetosheath. <i>Journal of Geophysical Research</i> , 1986, 91, 101-112.	3.3	168
7	Possible evidence of flux transfer events in the polar ionosphere. <i>Geophysical Research Letters</i> , 1986, 13, 1089-1092.	1.5	149
8	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, 6807-6815.	3.3	144
9	An improved coupling model for the lithosphereâ€atmosphereâ€ionosphere system. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 3189-3205.	0.8	143
10	Nonlinear ion-acoustic waves and solitons in a magnetized plasma. <i>Physics of Fluids</i> , 1981, 24, 430.	1.4	142
11	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.	3.3	136
12	Kelvinâ€Helmholtz Instability in the magnetopauseâ€boundary layer region. <i>Journal of Geophysical Research</i> , 1981, 86, 54-58.	3.3	118
13	Strong scintillations in astrophysics. II - A theory of temporal broadening of pulses. <i>Astrophysical Journal</i> , 1975, 201, 532.	1.6	115
14	Tearing instability, Kelvin-Helmholtz instability, and magnetic reconnection. <i>Journal of Geophysical Research</i> , 1997, 102, 151-161.	3.3	112
15	Effects of multiple scattering on coda waves in three-dimensional medium. <i>Pure and Applied Geophysics</i> , 1983, 121, 3-15.	0.8	107
16	The generalized Ohmâ€™s law in collisionless magnetic reconnection. <i>Physics of Plasmas</i> , 1997, 4, 509-520.	0.7	104
17	Fast magnetic reconnection with small shock angles. <i>Journal of Geophysical Research</i> , 1992, 97, 8277-8293.	3.3	103
18	Dregion ionization by lightning-induced electromagnetic pulses. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	100

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19	Ionosphere and ground-based response to field-aligned currents near the magnetospheric cusp regions. <i>Journal of Geophysical Research</i> , 1987, 92, 7739-7743.	3.3	90
20	Electric fields and electron energies inferred from the ISUAL recorded sprites. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	1.5	89
21	Kinetic Alfvén waves as a source of plasma transport at the dayside magnetopause. <i>Journal of Geophysical Research</i> , 1994, 99, 17405.	3.3	88
22	Strong scintillations in astrophysics. I - The Markov approximation, its validity and application to angular broadening. <i>Astrophysical Journal</i> , 1975, 196, 695.	1.6	81
23	Generation of the auroral kilometric radiation. <i>Journal of Geophysical Research</i> , 1982, 87, 4476-4487.	3.3	80
24	The irregularity spectrum in interstellar space. <i>Astrophysical Journal</i> , 1976, 206, 735.	1.6	79
25	Simulation of multiple X-line reconnection at the dayside magnetopause. <i>Geophysical Research Letters</i> , 1985, 12, 291-294.	1.5	76
26	A mechanism for patchy reconnection at the dayside magnetopause. <i>Geophysical Research Letters</i> , 1988, 15, 152-155.	1.5	74
27	Heating and Acceleration of Protons and Minor Ions by Fast Shocks in the Solar Corona. <i>Astrophysical Journal</i> , 2000, 535, 1014-1026.	1.6	73
28	Discharge processes, electric field, and electron energy in ISUAL-recorded gigantic jets. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	73
29	Amplification of radiation near cyclotron frequency due to electron population inversion. <i>Physics of Fluids</i> , 1980, 23, 1348.	1.4	72
30	Nonlinear magnetic reconnection models with separatrix jets. <i>Journal of Plasma Physics</i> , 1990, 44, 337-360.	0.7	72
31	A simulation study of forced reconnection processes and magnetospheric storms and substorms. <i>Journal of Geophysical Research</i> , 1985, 90, 10896-10910.	3.3	71
32	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.	3.3	71
33	Particle pitch angle diffusion due to nonadiabatic effects in the plasma sheet. <i>Journal of Geophysical Research</i> , 1982, 87, 7445-7452.	3.3	66
34	Momentum transport near a magnetic X line in collisionless reconnection. <i>Journal of Geophysical Research</i> , 1994, 99, 35.	3.3	65
35	A dynamo theory of solar flares. <i>Solar Physics</i> , 1983, 84, 153-167.	1.0	64
36	Formation of solar prominences by photospheric shearing motions. <i>Solar Physics</i> , 1992, 138, 291-329.	1.0	62

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37	Core magnetic field enhancement in single X line, multiple X line and patchy reconnection. Journal of Geophysical Research, 1994, 99, 6125.	3.3	59
38	Modeling elves observed by FORMOSAT-2 satellite. Journal of Geophysical Research, 2007, 112, .	3.3	59
39	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. Journal of Geophysical Research: Space Physics, 2016, 121, 10,130.	0.8	59
40	Theory of imperfect magnetosphere-ionosphere coupling. Geophysical Research Letters, 1980, 7, 633-636.	1.5	58
41	Topology of magnetic flux ropes and formation of fossil flux transfer events and boundary layer plasmas. Journal of Geophysical Research, 1993, 98, 3943-3951.	3.3	58
42	Interplanetary small- and intermediate-sized magnetic flux ropes during 1995-2005. Journal of Geophysical Research, 2008, 113, .	3.3	58
43	Wave propagation in a random medium: A complete set of the moment equations with different wavenumbers. Journal of Mathematical Physics, 1974, 15, 1431-1435.	0.5	57
44	Structure of the dayside reconnection layer in resistive MHD and hybrid models. Journal of Geophysical Research, 1993, 98, 3919-3934.	3.3	57
45	Comparison of results from sprite streamer modeling with spectrophotometric measurements by ISUAL instrument on FORMOSAT-2 satellite. Geophysical Research Letters, 2006, 33, n/a-n/a.	1.5	57
46	Observations of Pi 2 pulsations at a very low latitude ( $L = 1.06$ ) station and magnetospheric cavity resonances. Journal of Geophysical Research, 1991, 96, 21105-21113.	3.3	56
47	Kelvin-Helmholtz instability and the variation of geomagnetic pulsation activity. Geophysical Research Letters, 1980, 7, 777-780.	1.5	55
48	Simulation of pressure pulses in the bow shock and magnetosheath driven by variations in interplanetary magnetic field direction. Journal of Geophysical Research, 1996, 101, 27251-27269.	3.3	55
49	Observation of sprites over the Asian continent and over oceans around Taiwan. Geophysical Research Letters, 2002, 29, 3-1.	1.5	55
50	Coupling of magnetopause boundary layer to the polar ionosphere. Journal of Geophysical Research, 1993, 98, 5707-5725.	3.3	51
51	Radiative emission and energy deposition in transient luminous events. Journal Physics D: Applied Physics, 2008, 41, 234014.	1.3	51
52	Electric field transition between the diffuse and streamer regions of sprites estimated from ISUAL/array photometer measurements. Geophysical Research Letters, 2006, 33, .	1.5	50
53	Evolution of Solar Magnetic Arcades. II. Effect of Resistivity and Solar Eruptive Processes. Astrophysical Journal, 1996, 472, 372-388.	1.6	50
54	Increase of ion kinetic temperature across a collisionless shock: I. A new mechanism. Geophysical Research Letters, 1986, 13, 209-212.	1.5	49

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55	A study of mirror waves generated downstream of a quasi-perpendicular shock. Journal of Geophysical Research, 1988, 93, 247-250.	3.3	49
56	A study of multiple X line reconnection at the dayside magnetopause. Geophysical Research Letters, 1988, 15, 295-298.	1.5	48
57	On the stability of rotational discontinuities and intermediate shocks. Journal of Geophysical Research, 1989, 94, 8813-8825.	3.3	47
58	Structure of the magnetopause rotational discontinuity. Journal of Geophysical Research, 1982, 87, 139-143.	3.3	46
59	Streaming sausage, kink and tearing instabilities in a current sheet with applications to the Earth's magnetotail. Journal of Geophysical Research, 1988, 93, 7354-7365.	3.3	45
60	Multiple brightenings of transient dayside auroral forms during oval expansions. Geophysical Research Letters, 1992, 19, 2429-2432.	1.5	45
61	Gigantic jets with negative and positive polarity streamers. Journal of Geophysical Research, 2010, 115, .	3.3	45
62	Spatial and temporal anomalies of soil gas in northern Taiwan and its tectonic and seismic implications. Journal of Asian Earth Sciences, 2017, 149, 64-77.	1.0	44
63	Solar wind energy transfer through the magnetopause of an open magnetosphere. Journal of Geophysical Research, 1982, 87, 1439-1444.	3.3	43
64	Magnetic reconnection in the presence of sheared plasma flow: Intermediate shock formation. Physics of Plasmas, 1994, 1, 706-713.	0.7	43
65	Interaction of interplanetary shocks and rotational discontinuities with the Earth's bow shock. Journal of Geophysical Research, 1996, 101, 4835-4848.	3.3	41
66	Evolution of Solar Magnetic Arcades. I. Ideal MHD Evolution under Footpoint Shearing. Astrophysical Journal, 1996, 472, 360-371.	1.6	41
67	Electric fields and electron energies in sprites and temporal evolutions of lightning charge moment. Journal Physics D: Applied Physics, 2008, 41, 234010.	1.3	40
68	Small-scale auroral arc deformations. Journal of Geophysical Research, 1983, 88, 8013-8019.	3.3	39
69	A mechanism for the generation of cusp region hydromagnetic waves. Journal of Geophysical Research, 1988, 93, 7578-7585.	3.3	38
70	Magnetospheric response to solar wind dynamic pressure variations: Interaction of interplanetary tangential discontinuities with the bow shock. Journal of Geophysical Research, 1993, 98, 21297-21311.	3.3	38
71	ISUAL far-ultraviolet events, elves, and lightning current. Journal of Geophysical Research, 2010, 115, .	3.3	38
72	A simulation study of the loss cone driven cyclotron maser applied to auroral kilometric radiation. Radio Science, 1984, 19, 509-518.	0.8	37

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73	Multiple X line reconnection: 2. The dynamics. Journal of Geophysical Research, 1986, 91, 13373-13383.	3.3	37
74	Ground magnetic signatures of moving elongated plasma clouds. Journal of Geophysical Research, 1990, 95, 2405-2418.	3.3	36
75	A simulation study of impulsive penetration of solar wind irregularities into the magnetosphere at the dayside magnetopause. Journal of Geophysical Research, 1991, 96, 15751-15765.	3.3	36
76	Simulation study of the Riemann problem associated with the magnetotail reconnection. Journal of Geophysical Research, 1995, 100, 19227.	3.3	35
77	A study of tearing instability in the presence of a pressure anisotropy. Journal of Geophysical Research, 1987, 92, 12171-12179.	3.3	34
78	The role of intermediate shocks in magnetic reconnection. Geophysical Research Letters, 1992, 19, 229-232.	1.5	34
79	Particle simulations of driven collisionless magnetic reconnection at the dayside magnetopause. Journal of Geophysical Research, 1992, 97, 8453-8481.	3.3	34
80	Tearing mode instability in a multiple current sheet system. Journal of Geophysical Research, 1994, 99, 8657.	3.3	34
81	Streaming tearing instability in the current sheet with a super-Alfvénic flow. Physics of Fluids, 1988, 31, 1544.	1.4	33
82	Slow shock characteristics as a function of distance from the X $\epsilon$ line in the magnetotail. Geophysical Research Letters, 1989, 16, 903-906.	1.5	33
83	Different FTE signatures generated by the bursty single X line reconnection and the multiple X line reconnection at the dayside magnetopause. Journal of Geophysical Research, 1991, 96, 57-66.	3.3	33
84	Highly structured electron anisotropy in collisionless reconnection exhausts. Geophysical Research Letters, 2014, 41, 5389-5395.	1.5	33
85	A simulation study of the vortex structure in the low $\epsilon$ latitude boundary layer. Journal of Geophysical Research, 1990, 95, 20793-20807.	3.3	32
86	Generation of slow-mode waves in front of the dayside magnetopause. Geophysical Research Letters, 1994, 21, 629-632.	1.5	32
87	Formation of a very thin current sheet in the near-Earth magnetotail and the explosive growth phase of substorms. Geophysical Research Letters, 1995, 22, 1137-1140.	1.5	32
88	Computer simulation of auroral kilometric radiation. Geophysical Research Letters, 1983, 10, 483-486.	1.5	31
89	Reconnection layer at the flank magnetopause in the presence of shear flow. Geophysical Research Letters, 1994, 21, 855-858.	1.5	30
90	Reconnection layers in two-dimensional magnetohydrodynamics and comparison with the one-dimensional Riemann problem. Physics of Plasmas, 1999, 6, 3131-3146.	0.7	30

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91	Assessment of sprite initiating electric fields and quenching altitude of $N_2^+$ state of $N_2$ using sprite streamer modeling and ISUAL spectrophotometric measurements. Journal of Geophysical Research, 2009, 114, .	3.3	30
92	Optical emissions and behaviors of the blue starters, blue jets, and gigantic jets observed in the Taiwan transient luminous event ground campaign. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	30
93	Strong scintillations in astrophysics. III - The fluctuations in intensity. Astrophysical Journal, 1975, 202, 439.	1.6	30
94	Transmission of magnetohydrodynamic waves through the rotational discontinuity at the Earth's magnetopause. Journal of Geophysical Research, 1984, 89, 10697-10708.	3.3	29
95	Magnetic reconnection with large separatrix angles. Journal of Geophysical Research, 1993, 98, 7593-7602.	3.3	29
96	Generation of field-aligned currents and Alfvén waves by 3D magnetic reconnection. Geophysical Research Letters, 1995, 22, 1737-1740.	1.5	29
97	On the generation of magnetosheath lion roars. Journal of Geophysical Research, 1987, 92, 2343-2348.	3.3	28
98	Magnetospheric substorms: An equivalent circuit approach. Journal of Geophysical Research, 1988, 93, 7366-7375.	3.3	28
99	A study of slow-mode structures in the dayside magnetosheath. Geophysical Research Letters, 1991, 18, 381-384.	1.5	28
100	A mechanism for the multiple brightenings of dayside poleward-moving auroral forms. Geophysical Research Letters, 1993, 20, 2247-2250.	1.5	28
101	Preseismic anomalies in soil-gas radon associated with 2016 M 6.6 Meinong earthquake, Southern Taiwan. Terrestrial, Atmospheric and Oceanic Sciences, 2017, 28, 787-798.	0.3	28
102	Spontaneous synchrotron emission from a plasma with an energetic runaway electron tail. Physics of Fluids, 1978, 21, 1502.	1.4	27
103	A simulation study of magnetic reconnection: Transition from a fast mode to a slow mode expansion. Journal of Geophysical Research, 1986, 91, 4551-4556.	3.3	27
104	Earth's Outgoing Longwave Radiation Variability Prior to M 6.0 Earthquakes in the Taiwan Area During 2009-2019. Frontiers in Earth Science, 2020, 8, .	0.8	27
105	Short wavelength stabilization of the gradient drift instability due to velocity shear. Geophysical Research Letters, 1983, 10, 357-360.	1.5	26
106	A quasi-local theory of the $E \times B$ instability in the ionosphere. Journal of Geophysical Research, 1986, 91, 3263-3269.	3.3	26
107	Increase of ion kinetic temperature across a collisionless shock: 2. A simulation study. Journal of Geophysical Research, 1987, 92, 13438-13446.	3.3	26
108	Chaos and ion heating in a slow shock. Geophysical Research Letters, 1991, 18, 1615-1618.	1.5	26

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109	Entropy antidiffusion instability and formation of a thin current sheet during geomagnetic substorms. <i>Journal of Geophysical Research</i> , 1998, 103, 29419-29428.	3.3	26
110	Interstellar turbulence spectrum from in situ observations of Voyager 1. <i>Nature Astronomy</i> , 2019, 3, 154-159.	4.2	26
111	Magnetic reconnection in the presence of sheared flow and density asymmetry: Applications to the Earth's magnetopause. <i>Journal of Geophysical Research</i> , 1995, 100, 11875-11889.	3.3	24
112	Temporal variation of gamma rays as a possible precursor of earthquake in the Longitudinal Valley of eastern Taiwan. <i>Journal of Asian Earth Sciences</i> , 2015, 114, 362-372.	1.0	24
113	Ion two-stream and modified two-stream instabilities in the magnetic neutral sheet. <i>Geophysical Research Letters</i> , 1982, 9, 1159-1162.	1.5	23
114	A mechanism for the formation of plasmoids and kink waves in the heliospheric current sheet. <i>Solar Physics</i> , 1988, 117, 157-169.	1.0	22
115	Magnetic field reconnection patterns at the dayside magnetopause: An MHD simulation study. <i>Journal of Geophysical Research</i> , 1991, 96, 17627-17650.	3.3	21
116	Spontaneous Emission near the Electron Plasma Frequency in a Plasma with a Runaway Electron Tail. <i>Physical Review Letters</i> , 1978, 40, 1563-1566.	2.9	20
117	Electrostatic Kelvin-Helmholtz instability in a radially injected plasma cloud. <i>Physics of Fluids</i> , 1983, 26, 2986.	1.4	20
118	Collisional tearing instability in the current sheet with a low magnetic Lundquist number. <i>Journal of Geophysical Research</i> , 1986, 91, 3311-3313.	3.3	20
119	A new shock fitting procedure for the MHD Rankine-Hugoniot relations for the case of small He <sup>2+</sup> slippage. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	20
120	The beta dependence of the collisionless tearing instability at the dayside magnetopause. <i>Journal of Geophysical Research</i> , 1992, 97, 8257-8267.	3.3	19
121	OBSERVATIONAL EVIDENCE FOR THE RELATIONSHIP BETWEEN WAVE SLOPE AND AMPLITUDE RATIO OF INWARD TO OUTWARD ALFVÉN WAVES IN THE SOLAR WIND. <i>Astrophysical Journal</i> , 2016, 817, 178.	1.6	19
122	Plasma and magnetic-field structures near the Martian induced magnetosphere boundary. <i>Astronomy and Astrophysics</i> , 2020, 642, A34.	2.1	19
123	A cyclotron-maser instability associated with a nongyrotropic distribution. <i>Physics of Fluids</i> , 1987, 30, 3106.	1.4	18
124	A simulation study of generation of field-aligned currents and Alfvén waves by three-dimensional magnetic reconnection. <i>Journal of Geophysical Research</i> , 1999, 104, 10177-10189.	3.3	18
125	Occurrence of elves and lightning during El Niño and La Niña. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	18
126	A 3D Parametric Martian Bow Shock Model with the Effects of Mach Number, Dynamic Pressure, and the Interplanetary Magnetic Field. <i>Astrophysical Journal</i> , 2020, 903, 125.	1.6	18



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127	Hall effects on the generation of field-aligned currents in three-dimensional magnetic reconnection. <i>Journal of Geophysical Research</i> , 2001, 106, 25951-25960.	3.3	17
128	Controlling synoptic-scale factors for the distribution of transient luminous events. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	17
129	Ionization emissions associated with $N_2^+$ 1N band in halos without visible sprite streamers. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 5317-5326.	0.8	17
130	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, 6469-6474.	3.3	16
131	Multiple X line reconnection: 3. A particle simulation of flux transfer events. <i>Journal of Geophysical Research</i> , 1986, 91, 13384-13392.	3.3	16
132	Magnetic field and plasma properties associated with pressure pulses and magnetic reconnection at the dayside magnetopause. <i>Journal of Geophysical Research</i> , 1995, 100, 14895.	3.3	16
133	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, 3893-3906.	3.3	15
134	Ionospheric plasma dynamics and instability caused by upward currents above thunderstorms. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 3240-3253.	0.8	15
135	Formation of Macroscale Flux Transfer Events at Mercury. <i>Astrophysical Journal Letters</i> , 2020, 893, L18.	3.0	15
136	Magnetic reconnection in a collisionless plasma: Evidence for the current sheet acceleration. <i>Geophysical Research Letters</i> , 1987, 14, 1003-1006.	1.5	14
137	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, .	0.7	14
138	Multidimensional nonlinear mirror-mode structures in the Earth's magnetosheath. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	14
139	Double-layer criterion on the altitude of the auroral acceleration region. <i>Geophysical Research Letters</i> , 1980, 7, 429-432.	1.5	13
140	Hall effects on the $\omega$ relation in rotational discontinuities and Alfvén waves. <i>Journal of Geophysical Research</i> , 2000, 105, 18377-18389.	3.3	13
141	Characteristics and generation of secondary jets and secondary gigantic jets. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	13
142	WALDEN TEST AND DE HOFFMANN-TELLER FRAME OF INTERPLANETARY LARGE-AMPLITUDE ALFVÉN WAVES. <i>Astrophysical Journal</i> , 2014, 786, 149.	1.6	13
143	Multiple X-line Reconnection Observed in Mercury's Magnetotail Driven by an Interplanetary Coronal Mass Ejection. <i>Astrophysical Journal Letters</i> , 2020, 893, L11.	3.0	13
144	on the Relation Between the Pattern and Wind Velocities in Inter-Planetary Scintillations. <i>Astrophysical Journal</i> , 1973, 182, 317.	1.6	13

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145	Nonlinear Saturation of Cyclotron Maser Instability Associated with Energetic Ring-Beam Electrons. <i>Physical Review Letters</i> , 2009, 103, 105101.	2.9	12
146	The relationship between small interplanetary magnetic flux rope and the substorm expansion phase. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	12
147	Turbulence Spectra of Electron Density and Magnetic Field Fluctuations in the Local Interstellar Medium. <i>Astrophysical Journal</i> , 2020, 904, 66.	1.6	12
148	Identification of mirror waves by the phase difference between perturbed magnetic field and plasmas. <i>Journal of Geophysical Research</i> , 1998, 103, 6621-6631.	3.3	11
149	Magnetic field rotation and transition width in rotational discontinuities and Alfvén wave trains. <i>Journal of Geophysical Research</i> , 2000, 105, 139-155.	3.3	11
150	Immediate impact of the Mt Chaiten eruption on atmosphere from FORMOSAT-3/COSMIC constellation. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	11
151	Full-kinetic elve model simulations and their comparisons with the ISUAL observed events. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	11
152	Ionospheric Peaked Structures and Their Local Time, Seasonal, and Solar Activity Dependence Based on Global Ionosphere Maps. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 7994-8014.	0.8	11
153	A note on the nature of the distant geomagnetic tail magnetopause and boundary layer. <i>Geophysical Research Letters</i> , 1985, 12, 153-154.	1.5	10
154	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, 17897-17901.	3.3	10
155	Formation of a compound slow shock-rotational discontinuity structure. <i>Journal of Geophysical Research</i> , 2000, 105, 13045-13053.	3.3	10
156	Structure of intermediate shocks and slow shocks in a magnetized plasma with heat conduction. <i>Physics of Plasmas</i> , 2005, 12, 082501.	0.7	10
157	A possible generation mechanism of interplanetary rotational discontinuities. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	10
158	The 762 nm emissions of sprites. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	10
159	Coherency and ellipticity of electromagnetic ion cyclotron waves: Satellite observations and simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 3374-3396.	0.8	10
160	Ionospheric density and velocity anomalies before M <sub>w</sub> 6.5 earthquakes observed by DEMETER satellite. <i>Journal of Asian Earth Sciences</i> , 2018, 166, 210-222.	1.0	10
161	Fluid and kinetic aspects of magnetic reconnection and some related magnetospheric phenomena. <i>Reviews of Modern Plasma Physics</i> , 2020, 4, 1.	2.2	10
162	Theory of thin-screen scintillations for a spherical wave. <i>Astrophysical Journal</i> , 1977, 218, 468.	1.6	10

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163	Structure of field-aligned plasma jets associated with magnetic reconnection. <i>Physics of Fluids B</i> , 1992, 4, 3808-3810.	1.7	9
164	Generation of kinetic Alfvén waves by mirror instability. <i>Geophysical Research Letters</i> , 2001, 28, 3051-3054.	1.5	9
165	Effects of a guide field on the evolution of a current sheet. <i>Physics of Plasmas</i> , 2006, 13, 102902.	0.7	9
166	Formation of fast shocks by magnetic reconnection in the solar corona. <i>Physics of Plasmas</i> , 2009, 16, .	0.7	9
167	Are all leading shocks driven by magnetic clouds?. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	9
168	Generation of He <sup>+</sup> and O <sup>+</sup> EMIC waves by the bunch distribution of O <sup>+</sup> ions associated with fast magnetosonic shocks in the magnetosphere. <i>Geophysical Research Letters</i> , 2016, 43, 9406-9414.	1.5	9
169	Gamma Ray and Radon Anomalies in Northern Taiwan as a Possible Preearthquake Indicator around the Plate Boundary. <i>Geofluids</i> , 2019, 2019, 1-14.	0.3	9
170	Effect of solar wind density and velocity on the subsolar standoff distance of the Martian magnetic pileup boundary. <i>Astronomy and Astrophysics</i> , 2021, 651, A22.	2.1	9
171	Velocity of the Solar Wind as Determined from Interplanetary Scintillations.. <i>Astrophysical Journal</i> , 1972, 172, 729.	1.6	9
172	Excitation of high-frequency waves with mixed polarization by streaming energetic electrons. <i>Journal of Plasma Physics</i> , 1979, 22, 277-288.	0.7	8
173	Negative ion-acoustic solitons in a two-component magnetized plasma. <i>Physics of Fluids</i> , 1988, 31, 1549.	1.4	8
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