

# Jun Liang

## List of Publications by Year in descending order

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56  
papers

1,346  
citations

331259

21  
h-index

377514

34  
g-index

60  
all docs

60  
docs citations

60  
times ranked

1046  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mode Coupling From Kinetic Alfvén Waves to Electron Acoustic Waves in the Topside Ionosphere. Geophysical Research Letters, 2021, 48, e2020GL091702.	1.5	3
2	Neutral Wind Dynamics Preceding the STEVE Occurrence and Their Possible Preconditioning Role in STEVE Formation. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028505.	0.8	5
3	A Strong Correlation Between Relativistic Electron Microbursts and Patchy Aurora. Geophysical Research Letters, 2021, 48, e2021GL094696.	1.5	18
4	A Time-Dependent Two-Dimensional Model Simulation of Lower Ionospheric Variations Under Intense SAID. Journal of Geophysical Research: Space Physics, 2021, 126, .	0.8	7
5	Potential Association Between the Low-Energy Plasma Structure and the Patchy Pulsating Aurora. Frontiers in Astronomy and Space Sciences, 2021, 8, .	1.1	3
6	The Apparent Motion of STEVE and the Picket Fence Phenomena. Geophysical Research Letters, 2020, 47, e2020GL088980.	1.5	10
7	Ballooning Instability in the Plasma Sheet Transition Region in Conjunction With Nonstorm Auroral Wave Structures. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027340.	0.8	6
8	Storm-time convection dynamics viewed from optical auroras. Journal of Atmospheric and Solar-Terrestrial Physics, 2019, 193, 105088.	0.6	0
9	Responses of Different Types of Pulsating Aurora in Cosmic Noise Absorption. Geophysical Research Letters, 2019, 46, 5717-5724.	1.5	14
10	First Observations From the TReX Spectrograph: The Optical Spectrum of STEVE and the Picket Fence Phenomena. Geophysical Research Letters, 2019, 46, 7207-7213.	1.5	49
11	POP and Red Line Optical Observations of Alfvénic Auroras. Journal of Geophysical Research: Space Physics, 2019, 124, 4672-4696.	0.8	13
12	Multi-Instrument Observations of Mesoscale Enhancement of Subauroral Polarization Stream Associated With an Injection. Journal of Geophysical Research: Space Physics, 2019, 124, 1770-1784.	0.8	11
13	Identifying STEVE's Magnetospheric Driver Using Conjugate Observations in the Magnetosphere and on the Ground. Geophysical Research Letters, 2019, 46, 12665-12674.	1.5	35
14	Optical Spectra and Emission Altitudes of Double-Layer STEVE: A Case Study. Geophysical Research Letters, 2019, 46, 13630-13639.	1.5	26
15	Proton auroras during the transitional stage of substorm onset. Earth, Planets and Space, 2018, 70, .	0.9	7
16	Ionospheric Electron Heating Associated With Pulsating Auroras: Joint Optical and PFISR Observations. Journal of Geophysical Research: Space Physics, 2018, 123, 4430-4456.	0.8	8
17	On the Origin of STEVE: Particle Precipitation or Ionospheric Skyglow?. Geophysical Research Letters, 2018, 45, 7968-7973.	1.5	52
18	Ionospheric electron heating associated with pulsating auroras: A Swarm survey and model simulation. Journal of Geophysical Research: Space Physics, 2017, 122, 8781-8807.	0.8	11

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19	A statistical study of the motion of pulsating aurora patches: using the THEMIS All-Sky Imager. <i>Annales Geophysicae</i> , 2017, 35, 217-225.	0.6	18
20	Evidence of kinetic Alfvén eigenmode in the near-Earth magnetotail during substorm expansion phase. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 4316-4330.	0.8	31
21	On the 630-nm red-line pulsating aurora: Red-line Emission Geospace Observatory observations and model simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 7988-8012.	0.8	28
22	Earth's ion upflow associated with polar cap patches: Global and in situ observations. <i>Geophysical Research Letters</i> , 2016, 43, 1845-1853.	1.5	34
23	Resonant scattering of central plasma sheet protons by multiband EMIC waves and resultant proton loss timescales. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 1219-1232.	0.8	44
24	Plasma sheet Pi2 pulsations associated with bursty bulk flows. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 8692-8706.	0.8	9
25	Low-energy ion precipitation structures associated with pulsating auroral patches. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 5408-5431.	0.8	19
26	Using patchy pulsating aurora to remote sense magnetospheric convection. <i>Geophysical Research Letters</i> , 2015, 42, 5083-5089.	1.5	23
27	Chorus intensity modulation driven by time-varying field-aligned low-energy plasma. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 7433-7446.	0.8	13
28	Chorus intensity modulation driven by time-varying field-aligned low-energy plasma. , 2015, , .		0
29	Current sheet scattering and ion isotropic boundary under 3D empirical force-balanced magnetic field. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 8202-8211.	0.8	22
30	On an energy-latititude dispersion pattern of ion precipitation potentially associated with magnetospheric EMIC waves. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 8137-8160.	0.8	32
31	Auroral wave structures and ballooning instabilities in the plasma sheet. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 6319-6326.	0.8	11
32	Multiprobe estimation of field line curvature radius in the equatorial magnetosphere and the use of proton precipitations in magnetosphere-ionosphere mapping. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 4924-4945.	0.8	12
33	Quasi-parallel electron beams and their possible application in inferring the auroral arc's root in the magnetosphere. <i>Annales Geophysicae</i> , 2013, 31, 1077-1101.	0.6	5
34	If substorm onset triggers tail reconnection, what triggers substorm onset?. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	21
35	Efficient diffuse auroral electron scattering by electrostatic electron cyclotron harmonic waves in the outer magnetosphere: A detailed case study. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	85
36	Dipolarization fronts and associated auroral activities: 1. Conjugate observations and perspectives from global MHD simulations. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	25

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37	Dipolarization fronts and associated auroral activities: 2. Acceleration of ions and their subsequent behavior. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	48
38	Global distribution of electrostatic electron cyclotron harmonic waves observed on THEMIS. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	54
39	Near-Earth plasma sheet azimuthal pressure gradient and associated auroral development soon before substorm onset. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	32
40	Fast earthward flows, electron cyclotron harmonic waves, and diffuse auroras: Conjunctive observations and a synthesized scenario. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	38
41	Multi-instrument observations of soft electron precipitation and its association with magnetospheric flows. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	14
42	Electrostatic field and ion temperature drop in thin current sheets: A theory. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	13
43	High-latitude reconnection effect observed at the dayside dip equator as a precursor of a sudden impulse. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	1
44	THEMIS observations of electron cyclotron harmonic emissions, ULF waves, and pulsating auroras. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	46
45	A transient narrow poleward extrusion from the diffuse aurora and the concurrent magnetotail activity. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	18
46	Longitudinally propagating arc wave in the pre-onset optical aurora. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	53
47	Ion temperature drop and quasi-electrostatic electric field at the current sheet boundary minutes prior to the local current disruption. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	15
48	Observation of isolated high-speed auroral streamers and their interpretation as optical signatures of Alfvén waves generated by bursty bulk flows. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	9
49	Intensification of preexisting auroral arc at substorm expansion phase onset: Wave-like disruption during the first tens of seconds. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	126
50	Simultaneous THEMIS in situ and auroral observations of a small substorm. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	89
51	Interaction between kinetic ballooning perturbation and thin current sheet: Quasi-electrostatic field, local onset, and global characteristics. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	13
52	Remote-sensing magnetospheric dynamics with riometers: Observation and theory. <i>Journal of Geophysical Research</i> , 2007, 112, n/a-n/a.	3.3	8
53	A MHD mechanism for the generation of the meridional current system during substorm expansion phase. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	9
54	Azimuthal structures of substorm electron injection and their signatures in riometer observations. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	20

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55	On the equatorward motion and fading of proton aurora during substorm growth phase. Journal of Geophysical Research, 2007, 112, .	3.3	11
56	Magnetospheric Dynamics and the Proton Aurora. Geophysical Monograph Series, 0, , 365-378.	0.1	19