Shasha Zou

List of Publications by Year
in descending order

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69 papers	1,796 citations	279798 23 h-index	302126 39 g-index
83 all docs	83 docs citations	83 times ranked	1313 citing authors

#	Article	IF	Citations
1	COMPASS: A New COnductance Model Based on PFISR And SWARM Satellite Observations. Space Weather, 2022, 20, .	3.7	5
2	Thank You to Our 2021 Peer Reviewers. Space Weather, 2022, 20, .	3.7	0
3	Global Driving of Auroral Precipitation: 1. Balance of Sources. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	4
4	New Findings From Explainable SYMâ€H Forecasting Using Gradient Boosting Machines. Space Weather, 2022, 20, .	3.7	11
5	What sustained multi-disciplinary research can achieve: The space weather modeling framework. Journal of Space Weather and Space Climate, 2021, 11, 42.	3.3	32
6	Hemispheric Asymmetries in the Midâ€latitude Ionosphere During the September 7â€“8, 2017 Storm: Multiâ€instrument Observations. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028829.	2.4	16
7	A Statistical Study of Fâ€Region 3.2â€mâ€Scale Fieldâ€Aligned Irregularities Occurrence and Vertical Plasma Drift Over Hainan: Solar Activity, Season, and Magnetic Activity Dependences. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028932.	2.4	9
8	Impact of Storm-Enhanced Density (SED) on Ion Upflow Fluxes During Geomagnetic Storm. Frontiers in Astronomy and Space Sciences, 2021, 8, .	2.8	2
9	Multiâ€Instrument Investigation of the Polar Holes. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029795.	2.4	3
10	Coordinated Groundâ€Based and Spaceâ€Based Observations of Equatorial Plasma Bubbles. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027569.	2.4	34
11	Multi-scale ionosphere responses to the May 2017 magnetic storm over the Asian sector. GPS Solutions, 2020, 24, 1.	4.3	14
12	Statistical Study of Ion Upflow and Downflow Observed by PFISR. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028179.	2.4	4
13	Forecasting Global Ionospheric TEC Using Deep Learning Approach. Space Weather, 2020, 18, e2020SW002501.	3.7	80
14	A Statistical Study of the Subauroral Polarization Stream Over North American Sector Using the Millstone Hill Incoherent Scatter Radar 1979â€“2019 Measurements. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028584.	2.4	12
15	The Effect of Fâ€Layer Zonal Neutral Wind on the Monthly and Longitudinal Variability of Equatorial Ionosphere Irregularity and Drift Velocity. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027671.	2.4	3
16	Statistical Analysis of the Main Ionospheric Trough Using Swarm in Situ Measurements. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027583.	2.4	25
17	Episodic Occurrence of Fieldâ€Aligned Energetic Ions on the Dayside. Geophysical Research Letters, 2020, 47, e2019GL086384.	4.0	9
18	Statistical Analysis of Equatorial Plasma Irregularities Retrieved From Swarm 2013â€“2019 Observations. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027022.	2.4	28

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19	Direct Observations of a Polar Cap Patch Formation Associated With Dayside Reconnection Driven Fast Flow. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027745.	2.4	5
20	Dissipation of Earthward Propagating Flux Rope Through Reâ€reconnection with Geomagnetic Field: An MMS Case Study. Journal of Geophysical Research: Space Physics, 2019, 124, 7477-7493.	2.4	15
21	Ingestion of GIM-derived TEC data for updating IRI-2016 driven by effective IG indices over the European region. Journal of Geodesy, 2019, 93, 1911-1930.	3.6	13
22	Segmentation of SED by Boundary Flows Associated With Westward Drifting Partial Ring current. Geophysical Research Letters, 2019, 46, 7920-7928.	4.0	10
23	Event Studies of O + Density Variability Within Quietâ€Time Plasma Sheet. Journal of Geophysical Research: Space Physics, 2019, 124, 4168-4187.	2.4	2
24	Merging of Storm Time Midlatitude Traveling Ionospheric Disturbances and Equatorial Plasma Bubbles. Space Weather, 2019, 17, 285-298.	3.7	58
25	Response of the Geospace System to the Solar Wind Dynamic Pressure Decrease on 11 June 2017: Numerical Models and Observations. Journal of Geophysical Research: Space Physics, 2019, 124, 2613-2627.	2.4	4
26	Multiâ€instrument Observations of Mesoscale Enhancement of Subauroral Polarization Stream Associated With an Injection. Journal of Geophysical Research: Space Physics, 2019, 124, 1770-1784.	2.4	11
27	Midlatitude Plasma Bubbles Over China and Adjacent Areas During a Magnetic Storm on 8 September 2017. Space Weather, 2018, 16, 321-331.	3.7	95
28	Modeling Study of the Geospace System Response to the Solar Wind Dynamic Pressure Enhancement on 17 March 2015. Journal of Geophysical Research: Space Physics, 2018, 123, 2974-2989.	2.4	10
29	An Ionosphere Specification Technique Based on Data Ingestion Algorithm and Empirical Orthogonal Function Analysis Method. Space Weather, 2018, 16, 1410-1423.	3.7	15
30	Formation and Evolution of Lowâ€Latitude F Region Fieldâ€Aligned Irregularities During the 7â€“8 September 2017 Storm: Hainan Coherent Scatter Phased Array Radar and Digisonde Observations. Space Weather, 2018, 16, 648-659.	3.7	35
31	Ionospheric Electron Heating Associated With Pulsating Auroras: Joint Optical and PFISR Observations. Journal of Geophysical Research: Space Physics, 2018, 123, 4430-4456.	2.4	8
32	Statistical Characteristics of Polar Cap Patches Observed by RISRâ€C. Journal of Geophysical Research: Space Physics, 2018, 123, 6981-6995.	2.4	17
33	Smallâ€scale structure of the midlatitude storm enhanced density plume during the 17 March 2015 St. Patrick's Day storm. Journal of Geophysical Research: Space Physics, 2017, 122, 3665-3677.	2.4	15
34	PFISR observation of intense ion upflow fluxes associated with an SED during the 1 June 2013 geomagnetic storm. Journal of Geophysical Research: Space Physics, 2017, 122, 2589-2604.	2.4	19
35	Effects of sudden commencement on the ionosphere: PFISR observations and global MHD simulation. Geophysical Research Letters, 2017, 44, 3047-3058.	4.0	17
36	Nightside Pi2 Wave Properties During an Extended Period With Stable Plasmapause Location and Variable Geomagnetic Activity. Journal of Geophysical Research: Space Physics, 2017, 122, 12,120.	2.4	2

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37	IMF B_y effects on ground magnetometer response to increased solar wind dynamic pressure derived from global MHD simulations. Journal of Geophysical Research: Space Physics, 2017, 122, 5028-5042.	2.4	9
38	The story of plumes: the development of a new conceptual framework for understanding magnetosphere and ionosphere coupling. Annales Geophysicae, 2016, 34, 1243-1253.	1.6	25
39	The 17 March 2013 storm: Synergy of observations related to electric field modes and their ionospheric and magnetospheric Effects. Journal of Geophysical Research: Space Physics, 2016, 121, 10,880.	2.4	27
40	Hiss or equatorial noise? Ambiguities in analyzing suprathermal ion plasma wave resonance. Journal of Geophysical Research: Space Physics, 2016, 121, 9619-9631.	2.4	3
41	Modeling subauroral polarization streams during the 17 March 2013 storm. Journal of Geophysical Research: Space Physics, 2015, 120, 1738-1750.	2.4	52
42	ULF wave electromagnetic energy flux into the ionosphere: Joule heating implications. Journal of Geophysical Research: Space Physics, 2015, 120, 494-510.	2.4	12
43	Coordinated SuperDARN THEMIS ASI observations of mesoscale flow bursts associated with auroral streamers. Journal of Geophysical Research: Space Physics, 2014, 119, 142-150.	2.4	58
44	On the generation/decay of the stormâ€enhanced density plumes: Role of the convection flow and fieldâ€aligned ion flow. Journal of Geophysical Research: Space Physics, 2014, 119, 8543-8559.	2.4	74
45	Evidence for potential and inductive convection during intense geomagnetic events using normalized superposed epoch analysis. Journal of Geophysical Research: Space Physics, 2013, 118, 181-191.	2.4	29
46	Electrodynamics of the highâ€latitude trough: Its relationship with convection flows and fieldâ€aligned currents. Journal of Geophysical Research: Space Physics, 2013, 118, 2565-2572.	2.4	21
47	Multiâ€instrument observations of SED during 24â€“25 October 2011 storm: Implications for SED formation processes. Journal of Geophysical Research: Space Physics, 2013, 118, 7798-7809.	2.4	53
48	GPS TEC observations of dynamics of the mid-latitude trough during substorms. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	30
49	Categorization of the Time Sequence of Events Leading to Substorm Onset Based on THEMIS All-Sky Imager Observations. , 2011, , 133-142.		8
50	Relations between multiple auroral streamers, pre-onset thin arc formation, and substorm auroral onset. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	64
51	Substorm triggering by new plasma intrusion: THEMIS allâ€sky imager observations. Journal of Geophysical Research, 2010, 115, .	3.3	221
52	Enhanced transport across entire length of plasma sheet boundary field lines leading to substorm onset. Journal of Geophysical Research, 2010, 115, .	3.3	16
53	Substorm triggering by new plasma intrusion: Incoherentâ€scatter radar observations. Journal of Geophysical Research, 2010, 115, .	3.3	67
54	Identification of substorm onset location and preonset sequence using Reimei, THEMIS GBO, PFISR, and Geotail. Journal of Geophysical Research, 2010, 115, .	3.3	24

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55	Preonset time sequence of auroral substorms: Coordinated observations by allâ€sky imagers, satellites, and radars. Journal of Geophysical Research, 2010, 115, .	3.3	51
56	Reply to comment by Harald U. Frey on â€œSubstorm triggering by new plasma intrusion: THEMIS allâ€sky imager observationsâ€. Journal of Geophysical Research, 2010, 115, .	3.3	11
57	PFISR observations of strong azimuthal flow bursts in the ionosphere and their relation to nightside aurora. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 729-737.	1.6	15
58	Poker flat radar observations of the magnetosphereâ€“ionosphere coupling electrodynamics of the earthward penetrating plasma sheet following convection enhancements. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 717-728.	1.6	8
59	Nightside ionospheric electrodynamics associated with substorms: PFISR and THEMIS ASI observations. Journal of Geophysical Research, 2009, 114, .	3.3	49
60	Evidence that solar wind fluctuations substantially affect the strength of dayside ionospheric convection. Journal of Geophysical Research, 2009, 114, .	3.3	24
61	Evidence that solar wind fluctuations substantially affect global convection and substorm occurrence. Journal of Geophysical Research, 2009, 114, .	3.3	27
62	On the coupling between the Harang reversal evolution and substorm dynamics: A synthesis of SuperDARN, DMSP, and IMAGE observations. Journal of Geophysical Research, 2009, 114, .	3.3	64
63	Connections between plasma sheet transport, Region 2 currents, and entropy changes associated with convection, steady magnetospheric convection periods, and substorms. Journal of Geophysical Research, 2009, 114, .	3.3	18
64	Highâ€time resolution dayside convection monitoring by incoherent scatter radar and a sample application. Journal of Geophysical Research, 2008, 113, .	3.3	3
65	Dynamic pressure enhancements as a cause of largeâ€scale stormtime substorms. Journal of Geophysical Research, 2008, 113, .	3.3	14
66	Statistical significance of association between whistlerâ€mode chorus enhancements and enhanced convection periods during highâ€speed streams. Journal of Geophysical Research, 2007, 112, .	3.3	26
67	The Importance of the Plasmasphere Boundary Layer for Understanding Inner Magnetosphere Dynamics. Geophysical Monograph Series, 0, , 321-328.	0.1	1
68	Auroral Disturbances as a Manifestation of Interplay Between Large-Scale and Mesoscale Structure of Magnetosphere-Ionosphere Electrodynamical Coupling. Geophysical Monograph Series, 0, , 193-204.	0.1	10
69	Mutual Evolution of Aurora and Ionospheric Electrodynamic Features Near the Harang Reversal During Substorms. Geophysical Monograph Series, 0, , 159-170.	0.1	14