

# Xuguang Cai

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

681  
citations

471371

17  
h-index

642610

23  
g-index

26  
all docs

26  
docs citations

26  
times ranked

493  
citing authors

#	ARTICLE	IF	CITATIONS
1	Initial Observations by the GOLD Mission. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027823.	0.8	80
2	The Two-Dimensional Evolution of Thermospheric $O/N_2$ Response to Weak Geomagnetic Activity During Solar Minimum Observed by GOLD. Geophysical Research Letters, 2020, 47, e2020GL088838.	1.5	59
3	Investigation of a Neutral "Tongue" Observed by GOLD During the Geomagnetic Storm on May 11, 2019. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028817.	0.8	46
4	Investigation of the seasonal and local time variations of the high-altitude sporadic Na layer ( $Na_{ss}$ ) formation and the associated midlatitude descending $E$ layer ( $E_{ss}$ ) in lower $E$ region. Journal of Geophysical Research: Space Physics, 2014, 119, 5985-5999.	0.8	44
5	Pronounced Suppression and Pattern Merging of Equatorial Ionization Anomalies After the 2022 Tonga Volcano Eruption. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	42
6	A coordinated investigation of the gravity wave breaking and the associated dynamical instability by a Na lidar and an Advanced Mesosphere Temperature Mapper over Logan, UT (41.7°N, 111.8°W). Journal of Geophysical Research: Space Physics, 2014, 119, 6852-6864.	0.8	41
7	Variations in Thermosphere Composition and Ionosphere Total Electron Content Under "Geomagnetically Quiet" Conditions at Solar Minimum. Geophysical Research Letters, 2021, 48, e2021GL093300.	1.5	40
8	Comparison of GOLD Nighttime Measurements With Total Electron Content: Preliminary Results. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027767.	0.8	35
9	Impacts of CME-induced geomagnetic storms on the midlatitude mesosphere and lower thermosphere observed by a sodium lidar and TIMED/GUVI. Geophysical Research Letters, 2015, 42, 7295-7302.	1.5	31
10	A Numerical Investigation on Tidal and Gravity Wave Contributions to the Summer Time Na Variations in the Midlatitude E Region. Journal of Geophysical Research: Space Physics, 2017, 122, 10,577.	0.8	28
11	Observation of Postsunset OI 135.6nm Radiance Enhancement Over South America by the GOLD Mission. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028108.	0.8	28
12	Coordinated investigation of midlatitude upper mesospheric temperature inversion layers and the associated gravity wave forcing by Na lidar and Advanced Mesospheric Temperature Mapper in Logan, Utah. Journal of Geophysical Research D: Atmospheres, 2014, 119, 3756-3769.	1.2	27
13	Evidence of dispersion and refraction of a spectrally broad gravity wave packet in the mesopause region observed by the Na lidar and Mesospheric Temperature Mapper above Logan, Utah. Journal of Geophysical Research D: Atmospheres, 2016, 121, 579-594.	1.2	26
14	Large-scale gravity wave perturbations in the mesopause region above Northern Hemisphere midlatitudes during autumnal equinox: a joint study by the USU Na lidar and Whole Atmosphere Community Climate Model. Annales Geophysicae, 2017, 35, 181-188.	0.6	22
15	Seasonal Variation of Thermospheric Composition Observed by NASA GOLD. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	22
16	Investigation on the Distinct Nocturnal Secondary Sodium Layer Behavior Above 95 km in Winter and Summer Over Logan, UT (41.7°N, 112°W) and Arecibo Observatory, PR (18.3°N, 67°W). Journal of Geophysical Research: Space Physics, 2019, 124, 9610-9625.	0.8	18
17	Response of GOLD Retrieved Thermospheric Temperatures to Geomagnetic Activities of Varying Magnitudes. Geophysical Research Letters, 2021, 48, e2021GL093905.	1.5	18
18	A Numerical Investigation on the Variation of Sodium Ion and Observed Thermospheric Sodium Layer at Cerro Pachón, Chile During Equinox. Journal of Geophysical Research: Space Physics, 2019, 124, 10395-10414.	0.8	16

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19	The Response of Middle Thermosphere ( $\sim 160$ km) Composition to the November 20 and 21, 2003 Superstorm. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029449.	0.8	16
20	The Effects of IMF $B_y$ on the Middle Thermosphere During a Geomagnetically Quiet Period at Solar Minimum. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	13
21	Seasonal Variation of $O/N_2$ on Different Pressure Levels From GUVI Limb Measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA027844.	0.8	11
22	On the Long Lasting $\text{Ca}^+$ Structures in the Sodium Lidargram: The Lifetime of Kelvin-Helmholtz Billows in the Mesosphere and Lower Thermosphere Region. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 3110-3124.	0.8	8
23	Satellite In Situ Electron Density Observations of the Midlatitude Storm Enhanced Density on the Noon Meridional Plane in the F Region During the 20 November 2003 Magnetic Storm. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	8