

Fei He

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

1,183
citations

393982

19
h-index

433756

31
g-index

86
all docs

86
docs citations

86
times ranked

3734
citing authors

#	ARTICLE	IF	CITATIONS
1	Astrobiology at altitude in Earth's near space. <i>Nature Astronomy</i> , 2022, 6, 289-289.	4.2	8
2	The Frequency Domain Characterization of Cosmic Ray Intensity Variations Before Forbush Decreases Associated With Geomagnetic Storms. <i>Space Weather</i> , 2022, 20, .	1.3	1
3	The solar wind plasma upstream of Mars observed by Tianwen-1: Comparison with Mars Express and MAVEN. <i>Science China Earth Sciences</i> , 2022, 65, 759-768.	2.3	10
4	Survival of the magnetotactic bacterium <i>Magnetospirillum gryphiswaldense</i> exposed to Earth's lower near space. <i>Science Bulletin</i> , 2022, 67, 1335-1339.	4.3	7
5	Far-ultraviolet airglow remote sensing measurements on Feng Yun 3-D meteorological satellite. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 1577-1586.	1.2	4
6	Species-dependent solar rotation effects on the Martian ionosphere. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 513, 1293-1299.	1.6	3
7	Optomechanical design of a wide-field auroral imager on Fengyun-3D. <i>Applied Optics</i> , 2022, 61, 3349.	0.9	1
8	Long-term variations in precipitable water vapor and temperature at Lenghu Site. <i>Astronomy and Astrophysics</i> , 2022, 663, A34.	2.1	2
9	Correlations Between Giant Undulations and Plasmopause Configurations. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	1
10	Ancient Auroral Records Compiled From Korean Historical Books. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, .	0.8	6
11	Automatic Scheduling Tool for Balloon-Borne Planetary Optical Remote Sensing. <i>Remote Sensing</i> , 2021, 13, 1291.	1.8	1
12	Equatorial auroral records reveal dynamics of the paleo-West Pacific geomagnetic anomaly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	5
13	On the structure of the Enceladus plume. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 6216-6222.	1.6	0
14	Statistical Characteristics of Giant Undulations During Geomagnetic Storms. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093098.	1.5	5
15	Search for squarks and gluinos in final states with one isolated lepton, jets, and missing transverse momentum at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>European Physical Journal C</i> , 2021, 81, 1.	1.4	13
16	Lenghu on the Tibetan Plateau as an astronomical observing site. <i>Nature</i> , 2021, 596, 353-356.	13.7	42
17	Longitudinal dependence of ionospheric Poynting Flux in the Northern Hemisphere during quiet times. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029717.	0.8	3
18	Evaluation of the 900-Year European Auroral Records With Extreme Value Theory. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029481.	0.8	0

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19	Configuration and performance of the ATLAS b-jet triggers in Run 2. <i>European Physical Journal C</i> , 2021, 81, 1.	1.4	7
20	Photoelectrons as a Tracer of Planetary Atmospheric Composition: Application to CO on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006441.	1.5	13
21	A method to derive global O/N2 ratios from SSUSI/DMSF based on Re-AURIC algorithm. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2020, 199, 105196.	0.6	4
22	Implantation of Earth's Atmospheric Ions Into the Nearside and Farside Lunar Soil: Implications to Geodynamo Evolution. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086208.	1.5	11
23	Plasmapause surface wave oscillates the magnetosphere and diffuse aurora. <i>Nature Communications</i> , 2020, 11, 1668.	5.8	35
24	Equatorial aurora: the aurora-like airglow in the negative magnetic anomaly. <i>National Science Review</i> , 2020, 7, 1606-1615.	4.6	9
25	Remote sensing of planetary space environment. <i>Chinese Science Bulletin</i> , 2020, 65, 1305-1319.	0.4	2
26	On the Hardness of the Photoelectron Energy Spectrum Near Mars. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 2745-2753.	1.5	8
27	Tilt of the ring current during the main phases of intense geomagnetic storms. <i>Science China Technological Sciences</i> , 2019, 62, 820-828.	2.0	5
28	Wide-field auroral imager onboard the Fengyun satellite. <i>Light: Science and Applications</i> , 2019, 8, 47.	7.7	35
29	The Magnetospheric Driving Source of Double-peak Subauroral Ion Drifts: Double Ring Current Pressure Peaks. <i>Geophysical Research Letters</i> , 2019, 46, 7079-7087.	1.5	11
30	The Magnetic Local Time Distribution of Storm Geomagnetic Field Disturbance Under Different Conditions of Solar Wind and Interplanetary Magnetic Field. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 2656-2667.	0.8	4
31	Evolution of the Subauroral Polarization Stream Oscillations During the Severe Geomagnetic Storm on 20 November 2003. <i>Geophysical Research Letters</i> , 2019, 46, 599-607.	1.5	6
32	Development of a 3D Plasmapause Model With a Back-Propagation Neural Network. <i>Space Weather</i> , 2019, 17, 1689-1703.	1.3	4
33	Large-scale Structure of Subauroral Polarization Streams During the Main Phase of a Severe Geomagnetic Storm. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 2964-2973.	0.8	18
34	Hemispheric Asymmetry of the Vertical Ion Drifts at Dawn Observed by DMSF. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 10,213.	0.8	5
35	A Long-term Data Set of Vertical Ion Drift Velocity at High Latitudes Constructed From DMSF Measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 6090-6102.	0.8	3
36	A new auroral boundary determination algorithm based on observations from TIMED/GUVI and DMSF/SSUSI. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 2162-2173.	0.8	25

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37	A new solar wind-driven global dynamic plasmopause model: 2. Model and validation. Journal of Geophysical Research: Space Physics, 2017, 122, 7172-7187.	0.8	24
38	Different Evolution Patterns of Subauroral Polarization Streams (SAPS) During Intense Storms and Quiet Time Substorms. Geophysical Research Letters, 2017, 44, 10,796.	1.5	24
39	A new solar wind-driven global dynamic plasmopause model: 1. Database and statistics. Journal of Geophysical Research: Space Physics, 2017, 122, 7153-7171.	0.8	16
40	Imaging of plasmasphere by Chang'e 3. , 2017, , .		0
41	Correlations between plasmopause evolutions and auroral signatures during substorms observed by Chang'e-3 EUV Camera. Earth and Planetary Physics, 2017, 1, 35-43.	0.4	5
42	Response of plasmaspheric configuration to substorms revealed by Chang'e 3. Scientific Reports, 2016, 6, 32362.	1.6	16
43	Double-peak subauroral ion drifts (DSAIDs). Geophysical Research Letters, 2016, 43, 5554-5562.	1.5	32
44	Determination of the Earth's plasmopause location from the CE-3 EUVC images. Journal of Geophysical Research: Space Physics, 2016, 121, 296-304.	0.8	18
45	Analysis of observational data from Extreme Ultra-Violet Camera onboard Chang'e-3 mission. Astrophysics and Space Science, 2016, 361, 1.	0.5	13
46	Calibration of transition matrix of coordinate system for the aurora imager. Proceedings of SPIE, 2016, , .	0.8	0
47	Onset of nonlinear self-focusing of femtosecond laser pulses in air: Conventional vs spatiotemporal focusing. Physical Review A, 2015, 92, .	1.0	7
48	Enhanced electron yield from laser-driven wakefield acceleration in high-Z gas jets. Review of Scientific Instruments, 2015, 86, 103502.	0.6	9
49	Hemispheric asymmetry of subauroral ion drifts: Statistical results. Journal of Geophysical Research: Space Physics, 2015, 120, 4544-4554.	0.8	15
50	High performance materials processing using tailored femtosecond laser pulses. , 2015, , .		0
51	Statistical characteristics of the equatorial boundary of the nightside auroral particle precipitation. Science China Earth Sciences, 2015, 58, 1602-1608.	2.3	4
52	High-Quality Laser-Driven Electron Beams by Ionization Injection in Low-Density Nitrogen Gas Jet. IEEE Transactions on Plasma Science, 2015, 43, 539-543.	0.6	1
53	EUV emissions from solar wind charge exchange in the Earth's magnetosheath: Three-dimensional global hybrid simulation. Journal of Geophysical Research: Space Physics, 2015, 120, 138-156.	0.8	6
54	Design and fabrication of far ultraviolet filters based on TiO_2 -multilayer technology in high-k materials. Scientific Reports, 2015, 5, 8503.	1.6	8

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55	Solar cycle, seasonal, and diurnal variations of subauroral ion drifts: Statistical results. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 5076-5086.	0.8	52
56	Development and calibration of the Moon-based EUV camera for Chang'e-3. <i>Research in Astronomy and Astrophysics</i> , 2014, 14, 1654-1663.	0.7	19
57	Data processing and initial results from the CE-3 Extreme Ultraviolet Camera. <i>Research in Astronomy and Astrophysics</i> , 2014, 14, 1664-1673.	0.7	19
58	Femtosecond Laser Fabrication of Monolithically Integrated Microfluidic Sensors in Glass. <i>Sensors</i> , 2014, 14, 19402-19440.	2.1	70
59	In-situ and real time stress of 30.4 nm Mo/Si multilayer mirror for the moon-based EUV Camera. <i>Proceedings of SPIE</i> , 2014, , .	0.8	0
60	Thermal and stress studies of the 30.4nm Mo/Si multilayer mirror for the moon-based EUV camera. <i>Applied Surface Science</i> , 2014, 317, 902-907.	3.1	4
61	Fabrication of three-dimensional microdisk resonators in calcium fluoride by femtosecond laser micromachining. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 116, 2019-2023.	1.1	19
62	Evolution of earth's plasmasphere in response to the solar wind variations and magnetic storms. , 2014, , .		0
63	Moon-based EUV imaging of the Earth's Plasmasphere: Model simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 7085-7103.	0.8	25
64	Inversion of the Earth's Plasmaspheric Density Distribution from EUV Images with Genetic Algorithm. <i>Chinese Journal of Geophysics</i> , 2012, 55, 1-9.	0.2	13
65	Plasmaspheric trough evolution under different conditions of subauroral ion drift. <i>Science China Technological Sciences</i> , 2012, 55, 1287-1294.	2.0	12
66	Reconstruction of the plasmasphere from Moon-based EUV images. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	11
67	Tuning etch selectivity of fused silica irradiated by femtosecond laser pulses by controlling polarization of the writing pulses. <i>Journal of Applied Physics</i> , 2011, 109, .	1.1	27
68	A microfluidic chip integrated with a microoptical lens fabricated by femtosecond laser micromachining. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 102, 179-183.	1.1	25
69	Fabrication of hollow optical waveguides in fused silica by three-dimensional femtosecond laser micromachining. <i>Applied Physics B: Lasers and Optics</i> , 2011, 105, 379-384.	1.1	39
70	Spatio-temporal manipulation of femtosecond pulses for 3D micro/nano-fabrication. , 2011, , .		0
71	Calculation of the extreme ultraviolet radiation of the earth's plasmasphere. <i>Science China Technological Sciences</i> , 2010, 53, 200-205.	2.0	9
72	Direct fabrication of homogeneous microfluidic channels embedded in fused silica using a femtosecond laser. <i>Optics Letters</i> , 2010, 35, 282.	1.7	75

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73	Fabrication of microfluidic channels with a circular cross section using spatiotemporally focused femtosecond laser pulses. <i>Optics Letters</i> , 2010, 35, 1106.	1.7	167
74	Two-photon fluorescence excitation with a microlens fabricated on the fused silica chip by femtosecond laser micromachining. <i>Applied Physics Letters</i> , 2010, 96, 041108.	1.5	44
75	Space solar telescope in soft X-ray and EUV band. <i>Science in China Series G: Physics, Mechanics and Astronomy</i> , 2009, 52, 1806-1809.	0.2	7
76	Rapid fabrication of optical volume gratings in Foturan glass by femtosecond laser micromachining. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 97, 853-857.	1.1	22
77	Optical Remote Sensing of Planetary Space Environment. , 0, , .		1
78	THE OVERVIEW OF THE PLANETARY ATMOSPHERIC SPECTRAL TELESCOPE (PAST) IN THE SCIENTIFIC EXPERIMENTAL SYSTEM IN NEAR-SPACE (SENSE). <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XLII-2/W13, 1419-1423.	0.2	2