

# Xiaohua Deng

## List of Publications by Year in descending order

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87  
papers

1,324  
citations

304368

22  
h-index

377514

34  
g-index

90  
all docs

90  
docs citations

90  
times ranked

1205  
citing authors

#	ARTICLE	IF	CITATIONS
1	Wave and particle characteristics of earthward electron injections associated with dipolarization fronts. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	118
2	Statistical characteristics of EMIC waves: Van Allen Probe observations. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 4400-4408.	0.8	72
3	Improvement of a Deep Learning Algorithm for Total Electron Content Maps: Image Completion. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 790-800.	0.8	68
4	Cluster observations of kinetic structures and electron acceleration within a dynamic plasma bubble. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 674-684.	0.8	66
5	Cold electron heating by EMIC waves in the plasmaspheric plume with observations of the Cluster satellite. <i>Geophysical Research Letters</i> , 2014, 41, 1830-1837.	1.5	57
6	Observation of large-amplitude magnetosonic waves at dipolarization fronts. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 4335-4347.	0.8	53
7	Wave-particle interaction in a plasmaspheric plume observed by a Cluster satellite. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	44
8	Simultaneous observations of precipitating radiation belt electrons and ring current ions associated with the plasmaspheric plume. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 4391-4399.	0.8	43
9	STUDIES OF TERAHERTZ WAVE PROPAGATION IN REALISTIC REENTRY PLASMA SHEATH. <i>Progress in Electromagnetics Research</i> , 2016, 157, 21-29.	1.6	39
10	Characteristics of precipitating energetic ions/electrons associated with the wave-particle interaction in the plasmaspheric plume. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	38
11	Impact of Reentry Speed on the Transmission of Obliquely Incident THz Waves in Realistic Plasma Sheaths. <i>IEEE Transactions on Plasma Science</i> , 2018, 46, 373-378.	0.6	38
12	Prediction of Global Ionospheric TEC Based on Deep Learning. <i>Space Weather</i> , 2022, 20, .	1.3	36
13	Plasma physics of magnetic island coalescence during magnetic reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 6177-6189.	0.8	34
14	Characteristic distribution and possible roles of waves around the lower hybrid frequency in the magnetotail reconnection region. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 8228-8242.	0.8	34
15	An Optimized Node Deployment Solution Based on a Virtual Spring Force Algorithm for Wireless Sensor Network Applications. <i>Sensors</i> , 2019, 19, 1817.	2.1	29
16	A terahertz signal propagation model in hypersonic plasma sheath with different flight speed. <i>Physics of Plasmas</i> , 2019, 26, .	0.7	26
17	A statistical study on the whistler waves behind dipolarization fronts. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 1086-1095.	0.8	25
18	Observation of Three-Dimensional Magnetic Reconnection in the Terrestrial Magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 9513-9520.	0.8	25

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19	Subwavelength guiding of channel plasmon polaritons by textured metallic grooves at telecom wavelengths. <i>Applied Physics Letters</i> , 2013, 102, 031606.	1.5	24
20	Geomagnetic storms and EMIC waves: Van Allen Probe observations. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 6444-6457.	0.8	24
21	Evidence of deflected super-Alfvénic electron jet in a reconnection region with weak guide field. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 1541-1548.	0.8	23
22	Gradient-based low rank method and its application in image inpainting. <i>Multimedia Tools and Applications</i> , 2018, 77, 5969-5993.	2.6	22
23	Reference Information Based Remote Sensing Image Reconstruction with Generalized Nonconvex Low-Rank Approximation. <i>Remote Sensing</i> , 2016, 8, 499.	1.8	20
24	Direct evidence for kinetic effects associated with solar wind reconnection. <i>Scientific Reports</i> , 2015, 5, 8080.	1.6	19
25	Force and Energy Balance of the Dipolarization Front. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028278.	0.8	19
26	Statistics of energetic electrons in the magnetotail reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 3108-3119.	0.8	17
27	Sub-THz signals™ propagation model in hypersonic plasma sheath under different atmospheric conditions. <i>Science China Information Sciences</i> , 2017, 60, 1.	2.7	17
28	Influence of precipitating energetic ions caused by EMIC waves on the subauroral ionospheric $E$ region during a geomagnetic storm. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 8462-8471.	0.8	16
29	Energetic particle precipitation and the influence on the sub-ionosphere in the SED plume during a super geomagnetic storm. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	15
30	Cooperative Jamming-Aided Secure Wireless Powered Communication Networks: A Game Theoretical Formulation. <i>IEEE Communications Letters</i> , 2020, 24, 1081-1085.	2.5	12
31	A comparative evaluation of the activities of thiol group and hydroxyl group in low-frequency vibrations using terahertz spectroscopy and DFT calculations. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 214, 246-251.	2.0	11
32	Measurements of Energy Dissipation in the Electron Diffusion Region. <i>Geophysical Research Letters</i> , 2021, 48, .	1.5	11
33	A Dictionary Learning Method with Total Generalized Variation for MRI Reconstruction. <i>International Journal of Biomedical Imaging</i> , 2016, 2016, 1-13.	3.0	10
34	One-Way Electromagnetic Mode Guided by the Mechanism of Total Internal Reflection. <i>IEEE Photonics Technology Letters</i> , 2018, 30, 133-136.	1.3	10
35	Anomalous refraction and reflection characteristics of bend V-shaped antenna metasurfaces. <i>Scientific Reports</i> , 2019, 9, 6700.	1.6	10
36	Terahertz spectroscopic characterizations and DFT calculations of carbamazepine cocrystals with nicotinamide, saccharin and fumaric acid. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 236, 118346.	2.0	10

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37	EHF Wave Propagation in the Plasma Sheath Enveloping Sharp-Coned Hypersonic Vehicle. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 978-982.	2.4	10
38	A subauroral polarization stream driven by field-aligned currents associated with precipitating energetic ions caused by EMIC waves: A case study. Journal of Geophysical Research: Space Physics, 2016, 121, 1696-1705.	0.8	9
39	Terahertz spectroscopic characterizations and DFT calculations of indomethacin cocrystals with nicotinamide and saccharin. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 249, 119309.	2.0	9
40	The Prediction of Storm-Time Thermospheric Mass Density by LSTM-Based Ensemble Learning. Space Weather, 2022, 20, .	1.3	9
41	Study on the relationship between the residual 27-day quasiperiodicity and ionospheric Q disturbances. Journal of Geophysical Research: Space Physics, 2017, 122, 2542-2550.	0.8	8
42	One-way edge modes in a photonic crystal of semiconductor at terahertz frequencies. Scientific Reports, 2018, 8, 8165.	1.6	8
43	Modeling substorm ion injection observed by the THEMIS and LANL spacecraft in the near-Earth magnetotail. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	7
44	System Design of the Prototype Incoherent Scatter Radar at Nanchang University. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 352-356.	1.4	6
45	Optimized Node Deployment Algorithm and Parameter Investigation in a Mobile Sensor Network for Robotic Systems. International Journal of Advanced Robotic Systems, 2015, 12, 152.	1.3	6
46	An effective method for incoherent scattering radar's detecting ability evaluation. Radio Science, 2016, 51, 852-857.	0.8	6
47	Antenna Array Simulation and Detection Performance Analysis of Sanya Prototype Incoherent Scatter Radar. Radio Science, 2018, 53, 820-829.	0.8	6
48	Molecular dynamics study on the inhibition mechanisms of ReACp53 peptide for p53-R175H mutant aggregation. Physical Chemistry Chemical Physics, 2021, 23, 23032-23041.	1.3	6
49	Modulation of Whistler Mode Waves by Ultra-Low Frequency Wave in a Macroscale Magnetic Hole: MMS Observations. Geophysical Research Letters, 2021, 48, e2021GL096056.	1.5	6
50	The turbulence evolution in the high $\beta$ region of the Earth's foreshock. Journal of Geophysical Research: Space Physics, 2013, 118, 7151-7159.	0.8	5
51	Electron dynamics and wave activities associated with mirror mode structures in the near-Earth magnetotail. Science China Technological Sciences, 2014, 57, 1541-1551.	2.0	5
52	A Novel Ionospheric Sounding Radar Based on USRP. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 1800-1804.	1.4	5
53	Investigation of Parameter Effects on Virtual-Spring-Force Algorithm for Wireless-Sensor-Network Applications. Sensors, 2019, 19, 3082.	2.1	5
54	A comparative study of the low-frequency vibrations of l-histidine molecule in different solid states. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 224, 117468.	2.0	5

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55	Phase-Controlled Planar Metalenses for High-Resolution Terahertz Focusing. <i>Photonics</i> , 2021, 8, 143.	0.9	5
56	The Short-time Prediction of the Energetic Electron Flux in the Planetary Radiation Belt Based on Stacking Ensemble Learning Algorithm. <i>Space Weather</i> , 0, , .	1.3	5
57	Observations of current sheets associated with solar wind reconnection exhausts passing through the near lunar wake. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 9246-9255.	0.8	4
58	Completely stopping microwaves with extremely enhanced magnetic fields. <i>Scientific Reports</i> , 2018, 8, 15811.	1.6	4
59	Statistical Characteristics of Electron Pitch Angle Distributions Inside the Magnetopause Based on MMS Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028291.	0.8	4
60	Ion dynamics associated with substorm dipolarization fronts. <i>Science China Earth Sciences</i> , 2014, 57, 2543-2551.	2.3	3
61	Anomalously high rate refilling in the near lunar wake caused by the Earth's bow shock. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 9102-9114.	0.8	3
62	One-Way Propagation and Complete Trapping of Terahertz Radiations in All-Dielectric Systems. <i>Plasmonics</i> , 2017, 12, 399-404.	1.8	3
63	Sparse Representation Based Range-Doppler Processing for Integrated OFDM Radar-Communication Networks. <i>International Journal of Antennas and Propagation</i> , 2017, 2017, 1-12.	0.7	3
64	Mechanically scanned leaky-wave antenna based on a topological one-way waveguide. <i>Frontiers of Physics</i> , 2020, 15, 1.	2.4	3
65	Statistics of the Intense Current Structure in the Dayside Magnetopause Boundary Layer. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029890.	0.8	3
66	Machine Learning Enabled Vectorial Opto-Magnetization Orientation. <i>Annalen Der Physik</i> , 2022, 534, 2100287.	0.9	3
67	Theoretical Study on the Impacts of Plasmas Enveloping Reentry Vehicles on the Radiation Performance of Terahertz Array Antenna. <i>IEEE Transactions on Plasma Science</i> , 2022, 50, 517-524.	0.6	3
68	Energization of Cold Ions in Magnetic Reconnection: Particle-in-Cell Simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	3
69	One-way electromagnetic mode at the surface of a magnetized gyromagnetic medium. <i>Electronic Materials Letters</i> , 2014, 10, 969-973.	1.0	2
70	Statistical study on the suprathermal electrons properties around dipolarization fronts in Earth's magnetotail. <i>Science China Technological Sciences</i> , 2015, 58, 961-966.	2.0	2
71	An Incoherent Scatter Radar Simulation System Based on MATLAB. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2020, 17, 1513-1517.	1.4	2
72	The Prototype Incoherent Scatter Radar System of Nanchang University. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2021, 18, 1184-1188.	1.4	2

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73	Electron-Only Magnetic Reconnection: Lessons Learned From Magnetic Island Coalescence. Geophysical Research Letters, 2022, 49, .	1.5	2
74	Intense Energy Conversion Events at the Magnetopause Boundary Layer. Geophysical Research Letters, 2022, 49, .	1.5	2
75	Observation and analysis of whistler-mode wave and electrostatic solitary waves within density depletion near magnetic reconnection X-line. Science China: Physics, Mechanics and Astronomy, 2014, 57, 652-658.	2.0	1
76	Joint Range-Doppler-Angle Estimation for OFDM-Based RadCom System via Tensor Decomposition. Wireless Communications and Mobile Computing, 2018, 2018, 1-12.	0.8	1
77	An Improved Iterative Algorithm Utilized in Data Processing for Incoherent Scatter Radar. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	1
78	Machine learning for improving stellar image-based alignment in wide-field Telescopes. Research in Astronomy and Astrophysics, 0, , .	0.7	1
79	Characteristics of EHF Wave Propagation in Hypersonic Plasma Sheaths Magnetized by Dipole Magnetic Fields. Applied Sciences (Switzerland), 2022, 12, 3105.	1.3	1
80	Contrasting the Mechanisms of Reconnection-driven Electron Acceleration with In Situ Observations from MMS in the Terrestrial Magnetotail. Astrophysical Journal, 2022, 931, 135.	1.6	1
81	A Novel Conventional Vehicle-Mounted Broadband HF Ionospheric Vertical Sounding Antenna. , 2011, , .		0
82	Dual-channel rainbow trapping of terahertz surface plasmon-polariton in graded metallic grating structures. Journal of Modern Optics, 2014, 61, 1545-1549.	0.6	0
83	Low power software defined incoherent scatter radar system design concept for continuous sounding the earth's ionosphere. IET Radar, Sonar and Navigation, 2014, 8, 1026-1034.	0.9	0
84	Terahertz unidirectional invisibility in grating-based structures. Journal of Modern Optics, 2017, 64, 1971-1975.	0.6	0
85	Prediction of the structure, magnetic properties, and martensitic transition of Mg-V-Ga Heusler alloys using first-principles calculations. Journal of Applied Physics, 2019, 126, .	1.1	0
86	A Novel Method for Sensing Local Electron Density via Measuring the VSWR of Spaceborne Antenna. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	0
87	Design of impedance matching network based on optimized real frequency algorithm. Electronics Letters, 0, , .	0.5	0