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Research Interests
Physics of solar eruptions, solar radio bursts, particle acceleration

Educational Background

2001(9)-2004(2)	Predoctoral Fellow, Harvard-Smithsonian Center for Astrophysics (CfA)
1997(9)-2004(4)	Ph.D. in Solar-Terrestrial Space Physics, Univ. Sci. & Technol. Of China (USTC)
1993(9)-1997(7)	B. S. in Solar-Terrestrial Space Physics, USTC

Employment History

2013(7)-pres.	Executive Director, Institute of Space Sciences, Shandong University
2007(2)-pres.	Professor, School of Space Science and Physics, Shandong Univ. at Weihai
2005(4)-2005(7)	Visiting Scientist, SSP Division, Harvard-Smithsonian CfA
2004(4)-2007(1)	Associate Professor, School of Earth and Space Science, USTC

Teaching Experience
Introduction to Plasma Physics (2007-2012)
Introduction to Solar-Terrestrial Physics (2005, 2006)

Professional Societies
Regular member: AGU, AAS, COSPAR, AOGS
Committee Member for Space Weather Science, Chinese Geophysical Society (2008 -), Committee Member of AGU-CIP (Committee on International Participation, 2010-2014)

Honors/Awards

2017	Jeoujang Jaw Outstanding Young Science Award (Space Physics)
2016	Youth Innovation Award in Space Weather Science and Technology
2014	May-Fourth Youth Award (Nomination) of Shandong Province
2012	Excellent Teacher Award, Bao Gang Education Foundation
2012	Excellent Teacher Award, Shandong University
2012	Fu Min Xing Lu Labour Award, Shandong Province
2008	Basu Early Career Award in Sun-Earth systems Science, SPA/AGU
2008	Supported by the NNSFC Grant for Outstanding Young Scholars
2008	Youth Award in Science and Technology, Shandong Province
2006	Elected in Program for New Century Excellent Talents in Universities, Ministry of Education of China

2006 Young Faculty Career Award, USTC Alumni Foundation
2006 Excellent Doctoral Dissertation Award of China
2005 Excellent Doctoral Dissertation Award, CAS
2001 QiuShi Scholarship for Graduate Students
2000 Award in Memory of C. C. Cheng, Beijing Astronomical Obs.

Publications

- **Book**

1. Elementary Plasma Physics，Yao CHEN, Beijing: Science Press, 2019.07, 21.

- **Papers Published in Academic Journals**

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1. Ni S L., Chen Y., Li C Y., et al., Plasma emission induced by electron cyclotron maser instability in solar plasmas with a large ratio of plasma to gyrofrequency, ApJL, Letters, 891:L25 (8pp), 2020, https://doi.org/10.3847/2041-8213/ab7750.
2. Zheng, R. S., Chen Y., and Wang B., The initiation of a solar streamer blowout coronal mass ejection arising from the streamer flank, ApJL, accepted, 2020.

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3. Guiping Ruan, Sonja Jejčič, Brigitte Schmieder, Pierre Mein, Nicole Mein, Petr Heinzel, Stanislav Gunár, and Yao Chen, Diagnostics of the Prominence Plasma from H α and MgII Spectral Observations, The Astrophysical Journal, 883:52 (17pp), 2019 September 20 https://doi.org/10.3847/1538-4357/ab3657
4. Guiping Ruan, Sonja Jejčič, Brigitte Schmieder, Pierre Mein, Nicole Mein, Petr Heinzel, Stanislav Gunár, and Yao Chen Diagnostics of the Prominence Plasma from H α and MgII Spectral Observations, The Astrophysical Journal, 886:134 (14pp), 2019 December 1 https://doi.org/10.3847/1538-4357/ab4b50
5. Xiangliang Kong (孔祥良), Fan Guo (郭帆), Chengcai Shen (沈呈彩), Bin Chen (陈彬), Yao Chen (陈耀), Sophie Musset, Lindsay Glesener, Peera Pongkitiwanichakul, and Joe Giacalone, THE ACCELERATION AND CONFINEMENT OF ENERGETIC ELECTRONS BY A TERMINATION SHOCK IN A MAGNETIC TRAP: AN EXPLANATION FOR NONTHERMAL LOOP-TOP SOURCES DURING SOLAR FLARES, Accepted by ApJL, 2019.
6. H. Q. Song, J. Zhang, L. P. Li, Y. D. Liu, B. Zhu, B. Wang, R. S. Zheng, and Y. Chen, The Structure of Solar Coronal Mass Ejections in the Extreme-ultraviolet Passbands, The Astrophysical Journal, 887:124 (8pp), 2019 December 20
7. H. Q. Song, J. Zhang, X. Cheng, L. P. Li, Y. Z. Tang, B. Wang, R. S. Zheng, and Y. Chen, On the Nature of the Bright Core of Solar Coronal Mass Ejections, The Astrophysical Journal, 883:43 (8pp), 2019 September 20 https://doi.org/10.3847/1538-4357/ab304c.
8. Xiangliang Kong, Fan Guo, Yao Chen, and Joe Giacalone, The Acceleration of Energetic Particles at Coronal Shocks and Emergence of a Double Power-law Feature in Particle Energy Spectra, The Astrophysical Journal, 883:49 (12pp), 2019 September 20 https://doi.org/10.3847/1538-4357/ab3848.
9. Hao Ning, **Yao Chen***, Jeongwoo Lee, Zhao Wu, Yang Su, Xiang-Liang Kong, Broken-up Spectra of the Loop-top Hard X-ray Source during a Solar Limb Flare, Research in Astronomy and Astrophysics, 2019, Res. Astron. Astrophys. 19 173
10. Chuanyang Li, **Yao Chen***, Xiangliang Kong, M. Hosseinpour, and Bing Wang, Effect of

the temperature of background plasma and the energy of energetic electrons on Z-mode excitation, The Astrophysical Journal, 880:31 (10pp), 2019 July 20, https://doi.org/10.3847/1538-4357/ab270f.

11. 刘睿, 陈耀, 邓元勇, 丁明德, 季海生, 林隽, 田晖, 汪毓明, 汪景琇, 中国太阳物理学研究进展, 科学通报, 2019 年第64 卷第19 期: 2011 ~ 2024.
12. 日冕磁场与等离子体综合探测望远镜, COronal Magnetism and Plasma ASsembled Scopes(COMPASS), 屈中权, 黎辉, 钟悦, 梁昱, 宋智明, 章海鹰, 张红鑫, **陈耀**, 田晖, 程鑫, 夏利东, 李波, 陈波, 闫晓理, 刘睿, 申成龙, 封莉, 侯俊峰, 李昊, 李臻 and 李少英, 中国科学: 物理学 力学 天文学 49, 059606 (2019); doi: 10.1360/SSPMA2018-00304.
13. 杜清府, 程仁君, 陈昌硕, 李昕, 张军蕊, 冯士伟, 苏艳蕊, 陈耀, 严发宝, 太阳射电观测系统多通道变频电路一致性补偿方法与实现, 中国科学: 技术科学; doi: 10.1360/N092018-00408, http://engine.scichina.com/doi/10.1360/N092018-00408
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19. V. Vasanth, **Yao Chen***, Chuanyang Li, Shiwei Feng, and Guohui Du, Source Imaging of a Moving Type-IV Solar Radio Burst and its Role in Tracking Coronal Mass Ejection From the Inner to the Outer Corona, The Astrophysical Journal, 870:30 (11pp), 2019 January 1, https://doi.org/10.3847/1538-4357/aaeffd

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21. Mahboub Hosseinpour, **Yao Chen**, and Seiji Zenitani, On the effect of parallel shear flow on the plasmoid instability, Physics of Plasmas 25, 102117 (2018); doi: 10.1063/1.5061818
22. Guiping Ruan, Brigitte Schmieder, Pierre Mein, Nicole Mein, Nicolas Labrosse, Stanislav Gunár, and **Yao Chen**, On the Dynamic Nature of a Quiescent Prominence Observed by IRIS and MSDP Spectrographs, The Astrophysical Journal, 865:123 (15pp), 2018 October 1 https://doi.org/10.3847/1538-4357/aada08

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Invited Talks at International Conferences

1) Y. Chen, and Zh. Peng, Theoretical studies on heavy ions in the slow wind from quiescent streamer edges, COSPAR (D2.3/E3.3), Beijing, 2006.

2) Y. Chen, S. J. Sun and Y. Q. Hu, Catastrophic eruption of magnetic flux rope in the corona and solar wind with and without magnetic reconnection, Session ST6-10 From CMEs to BBFs, the 4th Asia and Oceania Geophysics Society (AOGS) meeting, Bangkok, July 30—Aug 4, 2007.

3) Y. Chen, Streamer activities: from blobs to blow-outs, The Third International Symposium On KuaFu Project (ISKP-III), Sept. 14-Sept. 19, 2008, Kunming.

4) Y. Chen, Coronal Streamers and Associated Activities, The 2nd Asia-Pacific School on International Heliophysical Year, Oct. 20-Oct. 31, 2008, Beijing, China.

5) Y. Chen, X. Li et al., Intrinsic Instability of Coronal Streamers: periodic releases of plasma blobs, EGU General Assembly, 19 - 24 April 2009, Vienna, Austria.

6) Y. Chen et al., Contraction and coalescence of macroscopic magnetic islands and electron acceleration from STEREO observation, West Lake International Symposium on Plasma Simulation, April 18-20, Hangzhou, China, 2012.

7) Y. Chen et al., CME-streamer Interaction and Its Implication on Particle Acceleration, AOGS – AGU (WPGM) Joint Assembly, Aug. 12-18, Resorts World Sentosa, Singapore, 2012.

8) Y. Chen et al., Recent Studies on CME-streamer Interactions, AGU-Fall meeting, Dec. 3-7, San Francisco, CA, USA, 2012.

9) Y. Chen et al., Recent studies on solar type II radio bursts, the AOGS 11th Annual Meeting in Sapporo, Japan on 28 July - 1 August, 2014.

10) Y. Chen et al., A solar flux-rope filament eruption driven by rapid sunspot rotation, the AOGS 11th Annual Meeting in Sapporo, Japan on 28 July - 1 August, 2014.

11) Y. Chen et al., Type-II radio bursts, the 13th Solar terrestrial Physics symposium (STP13) in Xian, China, October 12-18, 2014.

12) Yao Chen, Coronal HXR Double-source Structure Associated With A Magnetic Breakout Solar Eruption, the 2016 Asia Oceania Geosciences Society (AOGS) annual meeting, Beijing, China, July 2016.

13) Yao Chen, An Eruptive hot-channel structure observed at metric wavelength as a moving type-IV solar radio burst, The 14th Asia Oceania Geosciences Society (AOGS) annual meeting, Singapore, Aug. 6-11, 2017.

14) Yao Chen, Double Coronal X-ray and Microwave Sources, 7th East-Asia School and Workshop on Laboratory, Space, and Astrophysical Plasmas (EASW-7), Weihai, July 24 to July 29, 2017.

15) Yao Chen, Initiation and Energy Release Mechanism of Solar Coronal Mass Ejections (CMEs) and Associated Solar Radio Bursts, Invited Lecture (80 minutes), 8th East-Asia School and Workshop on Laboratory, Space, and Astrophysical Plasmas (EASW-8), Daejeon, South Korea, July 30 (Mon), 2018 ~ August 03 (Fri), 2018.

16) Yao Chen, V. Vasanth, Chuanyang Li, Observational Characteristics and Possible Emission Mechanism of Moving Type-IV Solar Radio Bursts, the 2nd Asia-Pacific Conference on Plasma Physics, Kanazawa, Japan 12-17 Nov. 2018.