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| 學歷  Academic Qualification \* | PHD: National Space Science Center, CAS，Space Physics  BSc & MSc: Changsha University of Science and Technology, Physics | |
| 教學領域  Teaching Area \* | Introduction to Space Weather, Magnetospheric Physics | |
| 研究領域  Research Area \* | Space Weather, Magnetospheric Physics, Lunar Space Environment | |
| 工作經歷  Working Experience \* | 2024.01-Now Macau University of Science and Technology, Associate Professor  2018-2024 School of Atmospheric Science, Sun-yat Sen University, Associate Professor  2016-2017 University of Texas at Dallas, Visiting Scholar  2015-2018 Harbin Institute of Technology, PosDoc | |
| 學術出版物（精選） Academic Publication (selected) \* | 1. Yan Q, **He Z.\*,** et al., Contribution of Substorm-injected Electrons to the High-Frequency Plasmaspheric Hiss Generation: a Statistical Study by Van Allan Probes (2024). Geophysical Research Letters, Under Revision. 2. Ding X, **He Z.\***, et al., Radial and latitudinal distributions of the Exohiss under the effect of Landau damping (2024). Geophysical Research Letters, 10.1029/2024GL112567. 3. Yang C, Yue J, Yang H, **He Z.\***, et al. Contribution of EMIC and chorus waves to the formation of the three-belt of ultra-relativistic electrons (2024). Journal of Geophysical Research: Space Physics, https://doi.org/10.1029/2024JA033380. 4. **He Z.**, Yu J, et al., Latitudinal distribution and propagation of lightning-generated whistler: a statistical study by Van Allen Probes observation and ray-tracing simulation (2024). Sci. China Earth Sci., Minor Revision. 5. Li Z, **He Z.\***, et al., Simulations on Levitation and Spatial Distribution of Charged Dust on the Moon Surface (2024). The Planetary Science Journal, 2024, 5(7): 156. 6. Yu J, Ren A, **He Z.\***, et al., Resonant Interactions Between Relativistic Electrons and EMIC Waves Modified by Partial Shell Proton Velocity Distributions (2024), Journal of Geophysical Research: Space Physics, doi: 10.1029/2023JA032355. 7. Yu J, Wang J, **He Z.\***, Chen Z, Li L, Cui J and Cao J (2023), Electron diffusion by chorus waves: effects of latitude dependent wave power spectrum. Front. Astron. Space Sci. 10:1333184. doi: 10.3389/fspas.2023.1333184 8. Wu, Z., Su, Z.\*, **He, Z.\***, Zheng, H., Wang, Y. (2022). Magnetosonic waves above the lower hybrid frequency in cyclotron resonance with the Van Allen radiation belt electrons. Geophysical Research Letters, e2022GL100971. 9. Wu, Z., Su, Z.\*, Goldstein, J., Liu, N., **He, Z.\***, Zheng, H., & Wang, Y. (2022). Nightside plasmaspheric plume‐to‐core migration of whistler‐mode hiss waves. Geophysical Research Letters, e2022GL100306. 10. Chen, Z., Su, Z.\*, **He, Z.\***, Wu, Z., Dai, G., Wang, B., ... & Wang, Y. (2022). A rapid localized deceleration of Earth’s radiation belt relativistic electrons driven by storm proton injection. Geophysical Research Letters, e2022GL098810. 11. Yu, J., Wang, J., **He, Z.\***, Liu, N., Li, K., Ren, A., ... & Cao, J. (2022). Combined Scattering of Suprathermal Electrons by Whistler‐Mode Chorus and Electromagnetic Ion Cyclotron Waves in the Low‐Density Plasmatrough. Journal of Geophysical Research: Space Physics, 127(8), e2022JA030640. 12. Yang, C., Wang, Z., Xiao, F.\*, **He, Z.\***, Xie, Y., Zhang, S., ... & Zhou, Q. (2022). Correlated observations linking loss of energetic protons to EMIC waves. Science China Technological Sciences, 65(1), 131-138. 13. **He, Z.**, Yu, J., Li, K., Liu, N., Chen, Z., & Cui, J. (2021). A comparative study on the distributions of incoherent and coherent plasmaspheric hiss. Geophysical Research Letters, 48(7), e2021GL092902. 14. He, J., Jin, Y., Xiao, F.\*, **He, Z.\***, Yang, C., Xie, Y., ... & Zhang, S. (2021). The influence of various frequency chorus waves on electron dynamics in radiation belts. Science China Technological Sciences, 64(4), 890-897. 15. **He, Z.**, Yu, J., Chen, L., Xia, Z., Wang, W., Li, K., & Cui, J. (2020). Statistical study on locally generated high‐frequency plasmaspheric hiss and its effect on suprathermal electrons: Van Allen Probes observation and quasi‐linear simulation. Journal of Geophysical Research: Space Physics, 125(10), e2020JA028526. 16. **He, Z.**, Yan, Q., Zhang, X., Yu, J., Ma, Y., Cao, Y., & Cui, J. (2020). Precipitation loss of radiation belt electrons by two‐band plasmaspheric hiss waves. Journal of Geophysical Research: Space Physics, 125(10), e2020JA028157. 17. **He, Z.**, Chen, L., Liu, X., Zhu, H., Liu, S., Gao, Z., & Cao, Y. (2019). Local generation of high‐frequency plasmaspheric hiss observed by Van Allen Probes. Geophysical Research Letters, 46(3), 1141-1148. 18. **He, Z.**, Yan, Q., Ma, Y., & Cao, Y. (2018). Precipitation loss of Van Allen radiation belt electrons by hiss waves outside the plasmasphere. Astrophysics and Space Science, 363(4), 1-6. 19. **He, Z.**, Chen, L., Zhu, H., Xia, Z., Reeves, G. D., Xiong, Y., ... & Cao, Y. (2017). Multiple‐satellite observation of magnetic dip event during the substorm on 10 October 2013. Geophysical Research Letters, 44(18), 9167-9175. 20. **He, Z.**, Yan, Q., Chu, Y., & Cao, Y. (2016). Wave‐driven gradual loss of energetic electrons in the slot region. Journal of Geophysical Research: Space Physics, 121(9), 8614-8623. 21. **He, Z.**, Zong, Q., Liu, S., Wang, Y., Lin, R., & Shi, L. (2014). Frequency sweep rates of rising tone electromagnetic ion cyclotron waves: Comparison between nonlinear theory and Cluster observation. Physics of Plasmas, 21(12), 122309. 22. **He, Z.**, Zhu, H., Liu, S., Zong, Q., Wang, Y., Lin, R., ... & Gong, J. (2015). Correlated observations and simulations on the buildup of radiation belt electron fluxes driven by substorm injections and chorus waves. Astrophysics and Space Science, 355(2), 245-251. 23. **He, Z.**, Xiao, F., Zong, Q., Wang, Y., Chen, L., Yue, C., & Zhang, S. (2011). Multi-satellite observations on the storm-time enhancements of energetic outer zone electron fluxes driven by chorus waves. Science China Technological Sciences, 54(8), 2209-2216. | |
| 書籍  Books \* |  | |
| 專利  Patents \* |  | |
| 專業認證和獎項 Professional Certification and Awards \* |  | |
| 專業協會會員資格  Professional Society Membership \* | Youth member of China Space Science Society | |

Remarks: The field tagged with “\*” is optional.