

## Publications

### 1) International Journal:- peer-reviewed publications

2025

1. Cai S H, Qin H F, Wang H P, Deng C L, Yang S H, Xu Y, Zhang C, Tang X, Gu L X, Li X G, Shen Z S, Zhang M, He K, Qi K X, Fan Y C Dong L, Hou Y F, Shi P Y, Liu S C, Su F, Chen Y, Li Q L, Li J H, Ross N. Mitchell1, He H Y, Li C L, Pan Y X, **Zhu R X**.  
Persistent but weak magnetic field at the Moon's midstage revealed by Chang'e-5 basalt.  
*Sci. Adv.* 11, eadp3333 (2025) 1 January 2025.
2. Cai S H, Qi K X, Yang S H, Fang J, Shi P Y, Shen Z S, Zhang M, Qin H F, Zhang C, Li X G, Chen F F, Chen Y, Li J H, He H Y, Deng C L, Li C L, Pan Y X, **Zhu R X**.  
A reinforced lunar dynamo recorded by Chang'e-6 farside basalt.  
*Nature*, DOI: [10.1038/s41586-024-08526-2](https://doi.org/10.1038/s41586-024-08526-2), 2025.

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3. Shi Z D, Ross N. Mitchell, Li Y, Wan B, Chen L, Peng P, Zhao L, Liu L J, **Zhu R X**.  
Sluggish thermochemical basal mantle structures support their long-lived stability.  
*Nature Communications*, 15:10000. DOI:10.1038/s41467-024-54416-6, 2024.
4. Hou Y F, Zhao P, Qin H F, Mitchell R N, Li Q L, Hao W X, Zhang M, Ward P D, Yuan J, Deng C L, **Zhu R X**.  
Completing the loop of the Late Jurassic–Early Cretaceous true polar wander event.  
*Nature Communications*, 15:2183, <https://doi.org/10.1038/s41467-024-46466-7>, 2024.
5. Qi K X, Cai S H, Qin H F, Yuhji Y, Deng C L, Pan Y X, Chneg X, Wu H N, **Zhu R X**.  
The culprit of bias for paleointensity estimation in the Shaw-type protocol and an innovative calculation method.  
*Geophysical Research Letters*, 51(14): e2024GL109930. DOI: 10.1029/2024GL109930, 2024.
6. **Zhu R X**, Zhang S C, Wang H J, Wang X M, Liu Y K, Zhang W, Hao F, Jin Z J.  
Multi-spheric interactions driven differential formation and accumulation of hydrocarbon resources in the North Sea Basin.  
*Sci. China Earth Sci.*, 67, <https://doi.org/10.1007/s11430-024-1421-8>, 2024.
7. **Zhu R X**, Wang H J, Wang H J, Wang X M, Wan B, Zhang W, Zhu H Q, Liu Y K, Liu J L, Meng Q R, Hao F, Jin Z J.  
Multi-spherical interactions and mechanisms of hydrocarbon enrichment in the Southeast Asian archipelagic tectonic system.  
*Sci. China Earth Sci.*, 67(2): 566–583, <https://doi.org/10.1007/s11430-023-1254-4>, 2024.
8. **Zhu R X**, Yang J H, Wang G W, Zeng Q D, Xue G Q, Xu T, Li X H, Zhang P, Lei D, Zhu G.

The genesis and resource potential of gold deposits in the Liaodong Peninsula.

*Sci. China Earth Sci.*, 54(3), 657-672, <https://doi.org/10.1007/s11430-023-1258-4>, 2024

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9. Li Y J, Qin H F, Jicha l B R, Huyskens M H, Wall C J, Trayler R B, Yin Q Z, Schmitz M, Pan Y X, Deng C L, Singer B S, He H Y, **Zhu R X**.  
Revised onset age of magnetochron M0r: Chronostratigraphic and geologic implications.  
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10. Ma C, Tang Y J, Mitchell R N, Li Y F, Sun S L, Zhu J C, Foley SF, Wang M, Ye C Y, Yin J F, **Zhu R X**.  
Volcanic phosphorus supply boosted Mesozoic terrestrial biotas in northern China.  
*Sci Bull*, 68, 1317–1326, <https://doi.org/10.1016/j.scib.2023.05.022>, 2023.
11. Du A M, Ge Y S, Wang H P, Li H Y, Zhang Y, Luo H, Huang C, Shan L C, Han F, Liu Y, Zou Y L, Wang C, Pan Y X, Liu Q S, Mitchell R N, Jia Y, Chen B C, Jin S Y, Jiang Y, Zhang T L, **Zhu R X**, Gubbins D, Zhang K K.  
Ground magnetic survey on Mars from the Zhurong rover.  
*Nature Astronomy*, Doi:10.1038/s41550-023-02008-7, 2023.
12. Yuan J, Deng C J, Yang Z Y, Krijgsman W, Thubantsering, Qin H F, Yi L, Zhao P, Wan B, Zhao L, He H Y, Guo Z T, **Zhu R X**.  
New paleomagnetic data from the central Tethyan Himalaya refine the size of Greater India during the Campanian.  
*Earth and Planetary Science Letters*, 622, 118422, <https://doi.org/10.1016/j.epsl.2023.118422>, 2023.
13. Zhang F, Lin J, **Zhu R X**, Zhang X B, Zhang J Y, Zhou Z Y.  
Dual hydration of oceanic lithosphere.  
*Natl Sci Rev*, 10, nwad251, 2023.
14. Wan B, Wu F Y, **Zhu R X**.  
The influence of Tethyan evolution on changes of the Earth’ s past environment.  
*Science China Earth Sciences*, 66(12): 2653–2665, <https://doi.org/10.1007/s11430-023-1185-3>, 2023.
15. **Zhu R X**, Zhang S C, Wan B, Zhang W, Li Y, Wang H J, Luo B W, Liu Y K, He Z L, Jin Z J.  
Effects of Neo-Tethyan evolution on the petroleum system of Persian Gulf Superbasin.  
*Petroleum Exploration and Development*, 50(1): 1-13, 2023.
16. Ding W W, Zhu R X, Wan B, Zhao L, Niu X W, Zhao P, Sun B L, Zhao Y H.  
Geodynamic processes of the southeastern Neo-Tethys Ocean and the formation mechanism of the curved subduction system in Southeast Asia.

*Science China Earth Sciences*, <https://doi.org/10.1007/s11430-022-1071-4>, 2023.

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17. Wang S, Chen L, Talebian M, Ai Y S, Jiang M M, Yao H J, He Y M, Abdolreza Ghods, Farhad Sobouti, Wan B, Chu Y, Hou G B, Chen Q F, 钟孫霖, Xiao W J, Wu F Y, **Zhu R X**.

Shallow crustal response to Arabia-Eurasia convergence in northwestern Iran: Constraints from multifrequency P-wave receiver functions.

*Journal of Geophysical Research: Solid Earth*, 127, e2022JB024515. DOI:10.1029/2022JB024515, 2022.

18. Gao Y F, Chen L, Talebian M, Wu Z M, Wang X, Lan H Q, Ai, Y S, Jiang M M, Hou G B, Khatib, M M, Xiao W J, **Zhu R X**.

Nature and structural heterogeneities of the lithosphere control the continental deformation in the northeastern and eastern Iranian plateau as revealed by shear-wave splitting observations.

*Earth Planet. Sci. Lett.*, 578, <https://doi.org/10.1016/j.epsl.2021.117284>, 2022.

19. Wang F G, Yang S X, Ge J Y, Ollé A, Zhao K L, Yue J P, Rosso D E, Douka K, Guan Y, Li W Y, Yang H Y, Liu L Q, Xie F, Guo Z T, **Zhu R X**, Deng C L, d'Errico F, Petraglia M.

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20. Meng Q R, Zhou Z H, **Zhu R X**, Xu Y G, Guo Z T.

Cretaceous basin evolution in northeast Asia: tectonic responses to the paleo-Pacific plate subduction.

*National Science Review*, 9: nwab088, <https://doi.org/10.1093/nsr/nwab088>, 2022.

21. Li X H, Fan H R, **Zhu R X**, Matthew Steele-MacInnis, Yang K F, Cai J L.

Texture, geochemistry, and geochronology of titanite and pyrite: Fingerprint of magmatic-hydrothermal fertile fluids in the Jiaodong Au province.

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22. Li X H, Fan H R, **Zhu R X**, Yang K F, Yu X F, Li D P, Zhang Y W, Ma W D, Yang K F.

*In-situ* monazite Nd and pyrite S isotopes as fingerprints for the source of ore-forming fluids in the Jiaodong gold province.

*Ore Geology Reviews* 147, 147: 104965, 2022.

23. Li X H, Fan H R, Xie H L, Yang K F, Hollings Pete, Wei Z H, **Zhu R X**, Zeng Q D, Liang G Z, Wu J J.

Geochronology, ore-forming processes and fluid sources of the Qinglonggou gold deposit, North Qaidam (NW China): constraints from in-situ U-Pb dating of monazite and geochemistry of pyrite.

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24. **Zhu R X**, Zhao P, Zhao L.

Tectonic evolution and geodynamics of the Neo-Tethys Ocean.

*Science China Earth Sciences*, 65(1), 1-24, <https://doi.org/10.1007/s11430-021-9845-7>, 2022.

## 2021

25. **Zhu R X**, Zhao G C, Xiao W J, Chen L, Tang Y J.

Origin, accretion, and reworking of continents.

*Reviews of Geophysics*, 59, e2019RG000689. <https://doi.org/10.1029/2019RG000689>, 2021.

26. **Zhu R X**, Zhao G C, Xiao W J, Chen L, Tang Y J.

The birth, growth, and death of continents.

*EOS*, 102, <https://doi.org/10.1029/2021EO215003>. Published on 28 October 2021.

27. Deng C, **Zhu R X**, Han J H, Shu Y, Wu Y X, Hou K F, Long W.

Impact of basement thrust faults on low-angle normal faults and rift basin evolution: a case study in the Enping sag, Pearl River Basin.

*Solid Earth*, 12, 2327–2350, <https://doi.org/10.5194/se-12-2327-2021>, 2021.

28. Deng C, **Zhu R X**, Han J H, Hou K F, Shu Y, Liu C Y, Wu Y X, Long W.

Influence of fault geometry, kinematics and growth rate on syn-tectonic stratigraphic pattern: Insights from the 2D move-on-fault technique in MOVE software.

*Journal of Structural Geology*, 149, 104377, <https://doi.org/10.1016/j.jsg.2021.104377>, 2021.

29. Zhou Z H, Meng Q R, **Zhu R X**, Wang M.

Spatiotemporal evolution of the Jehol Biota: Responses to the North China craton destruction in the Early Cretaceous.

*Proceedings of the National Academy of Sciences of the United States of America*, 118(34). <https://doi.org/10.1073/pnas.2107859118>, 2021.

30. Hao W X, **Zhu R X**, Zhu G.

Jurassic tectonics of the eastern North China Craton: Response to initial subduction of the Paleo-Pacific Plate.

*Geological Society of America Bulletin* 133(1-2):19-36. [doi.org/10.1130/B35585.1](https://doi.org/10.1130/B35585.1), 2021

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Magnetostratigraphy across the end-Permian mass extinction event from the Meishan sections, southeastern China.  
*Geology*, 49(11), 1289-1294, <https://doi.org/10.1130/G49072.1>, 2021
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Equatorial auroral records reveal dynamics of the paleo-West Pacific geomagnetic anomaly.  
*Proceedings of the National Academy of Sciences of the United States of America*, 118(20). [doi.org/10.1073/pnas.2026080118](https://doi.org/10.1073/pnas.2026080118), 2021
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Remagnetization of Permian Emeishan basalts: Constraints on the timing of native copper mineralization in northeast Yunnan Province, China.  
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35. Rong Z J, Wei Y, Klinger L, Yamauchi M, Xu W Y, Kong D L, Cui J, Shen C, Yang Y Y, **Zhu R X**, Zhong J, Chai L H.  
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37. Wu G L, Meng Q R, **Zhu R X**, Fan L G, Meng K, Wei H H, Duan L, Zhu J C.  
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39. Yang S X, Wang F G, Xie F, Yue J P, Deng C L, **Zhu R X**, Petraglia M D  
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40. Li X H, Fan H R, Liang G Z, **Zhu R X**, Yang K F, Steele-MacInnis M, Hu H L.  
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41. Li F C, Zeng Q D, **Zhu R X**, Chu S X, Xie W, Zhang B L, Zhang X X.  
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50. Xu H R, Yang T, Dekkers M J, Peng P, Li S H, Deng C L, **Zhu R X**.  
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52. Zhu J, Feng Y, Meng Q, Wu F, Li H, Liu H, Zhang F, Wang T, Wu G, Zou C, **Zhu R X**.  
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