

个人简历

李明松

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1. 教育背景

2016 年 7 月	博士 中国地质大学（武汉） 地质学
2014 年 9 月–2016 年 8 月	约翰霍普金斯大学（美） 博士联合培养
2012 年 7 月	硕士 吉林大学 古生物学与地层学
2009 年 7 月	学士 吉林大学 地质学

2. 科研经历

2020 年 12 月 –	研究员，北京大学
2019 年 2 月 – 2020 年 12 月	助理研究教授，宾夕法尼亚州立大学（美）
2017 年 3 月 – 2018 年 12 月	博士后，宾夕法尼亚州立大学（美）
2016 年 9 月 – 2017 年 2 月	博士后，乔治梅森大学（美）

3. 曾获荣誉

2024 全球前 2% 顶尖科学家榜单
2024 National Science Review 学科编辑工作组优秀编委
2021 入选国家级人才计划青年项目
2021 北京大学博雅青年学者
2021 AGU 优秀审稿人
2019 Web of Science Publons 地学 TOP 审稿人

4. 发表文章

Google Scholar: <https://scholar.google.com/citations?user=NYUXDW0AAAAJ&hl=en>

被引次数: 2775 (2025 年 2 月 23 日)

* = 通讯作者; # = 指导学生

待刊、修改中

张昊勋, 李明松*. 2025. 古气候数据同化重建早始新世气候适宜期全球海水表面温度. 高校地质学报, 待刊

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61. Kai Wang, **Mingsong Li**, Peng Tang, Junxuan Fan, Renbin Zhan, Jianbo Liu, **2025**, High-resolution sedimentary cyclostratigraphy and astronomical signals in the Upper Ordovician of Southwest China. *Palaeoworld*, <https://doi.org/10.1016/j.palwor.2024.11.001>.

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59. **李明松***, 姚炜琪, 沈俊, 黄元耕, 杨义, **2024**, 古新世—始新世极热事件时期轨道尺度海洋脱氧的时空演化. *中国基础科学*, 26: 24-30.
- # 58. Meng Wang, **Mingsong Li***, Elizabeth A. Hajek, David B. Kemp, Yujing Wu, Hanyu Zhu, Chunju Huang, Haotian Zhang, Kaixuan Ji, Rui Zhang, Ren Wei, Zhijun Jin*, **2024**, Assessing the preservation of orbital signals across different sedimentary environments: Insights from stochastic sedimentation modeling. *Earth and Planetary Science Letters*, 642: 118866.
57. 王凯, **李明松**, 郑澳男, 吴荣昌, 魏鑫, 刘建波, **2024**, 华南四川凉山娃文拉土剖面上奥陶统凯迪阶旋回地层学综合研究. *地层学杂志*, 48: 253-278.
56. 刘平平, 林嘉敏, 王点兵, 马彝, **李明松**. **2024**. 火山活动规律及其影响因素初探. *矿物岩石地球化学通报*, <https://doi.org/10.3724/j.issn.1007-2802.20240038>
55. Xu Yao, Shuang Dai, Zhiqiang Wang, **Mingsong Li**, Linda Hinnov. **2024**. Astronomical influence on Miocene continental environments in Tibet, east-central Asia. *Geological Society of America Bulletin*, <https://doi.org/10.1130/B37129.1>

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54. **李明松***, 张皓天, 王蒙, 金之钧. **2023**. 天文驱动的温室时期地下水储库与海平面变化. *科学通报*, 68: 1517-1527, <https://doi.org/10.1360/TB-2022-0790>
- # 53. Meng Wang, **Mingsong Li***, David Kemp, Jan Landwehrs, Zhijun Jin. **2023**. Late Triassic sedimentary records reveal the hydrological response to climate forcing and the history of the chaotic Solar System. *Earth and Planetary Science Letters*, 607: 118052. <https://doi.org/10.1016/j.epsl.2023.118052>
52. Braun Natália Santos, Ciro Climaco Rodrigues, Daniel Ribeiro Franco, **Mingsong Li**, Mariana Aragão Fernandes, Mariane Candido, Raysa de Magalhães Rocha, Thiago Pereira dos Santos, André De Gasperi, Daniel Galvão Carnier Fragoso, Gabriella Fazio, Ana Natalia Gomes Rodrigues. **2023**. Integration of seismic stratigraphy and cyclostratigraphy for high resolution chronostratigraphic correlation: The Albacora Field, Campos Basin, Brazil. *Marine and Petroleum Geology*, 158: 106541. <https://doi.org/10.1016/j.marpetgeo.2023.106541>
51. 刘冬洋, 黄春菊, **李明松**, 陈文汉, 褚润健. **2023**. 中三叠世早中期华南古海洋磷富集演化及其对天文驱动力的响应. *第四纪研究*, 43, 1538-1546.
- # 50. 王蒙, 李清, 窦衍光, 蔡峰, **李明松**, **2023**. 晚更新世以来冲绳海槽天文驱动的气候变化: 来自 CSHC-15 钻孔的证据. *第四纪研究*, 43, 1711-1721.
49. 张瑞, 金之钧, **李明松**, 刘全有, 李鹏, 魏韧, 王蒙, 贺翔武. **2023**. 中三叠世鄂尔多斯盆地富有机质页岩发育的天文调控. *第四纪研究*, 43, 1547-1561.
48. 张瑞, 金之钧, 朱如凯, **李明松**, 惠潇, 魏韧, 贺翔武, 张谦. **2023**. 中国陆相富有机质页岩沉积速率研究及其页岩油勘探意义. *石油与天然气地质*, 44, 829-845.
47. Yiquan Ma, Majie Fan, **Mingsong Li***, James Ogg, Chen Zhang, Jun Feng, Chunhua Zhou, Xiaofeng Liu, Yongchao Lu, Huimin Liu, James Eldrett, Chao Ma*. **2023**. East Asian lake hydrology modulated by global sea-level variations in the Eocene greenhouse. *Earth and Planetary Science Letters*, 602: 117925. <https://doi.org/10.1016/j.epsl.2022.117925>

46. Ren Wei, Zhijun Jin, Rui Zhang, **Mingsong Li**, Yongyun Hu, Xiangwu He, Shuai Yuan. **2023**. Orbitally-paced coastal sedimentary records and global sea-level changes in the early Permian. *Earth and Planetary Science Letters*, 620: 118356. <https://doi.org/10.1016/j.epsl.2023.118356>
45. Rui Zhang, David B Kemp, Nicolas Thibault, Mads E Jelby, **Mingsong Li**, Chunju Huang, Yu Sui, Zhixiang Wang, Dongyang Liu, Shizhen Jia. **2023**. Astrochronology and sedimentary noise modeling of Pliensbachian (Early Jurassic) sea-level changes, Paris Basin, France. *Earth and Planetary Science Letters*, 614: 118199. <https://doi.org/10.1016/j.epsl.2023.118199>
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40. Ruoyuan Qiu, Linhao Fang, Yuanzheng Lu, Yuxuan Chen, Renda Huang, Wenzhi Lei, Pengyuan Zhang, **Mingsong Li**. **2023**. Cyclostratigraphy of the Lower Jurassic (Toarcian) terrestrial successions in the Sichuan Basin, southwestern China. *Journal of Asian Earth Sciences*, 250: 105617. <https://doi.org/10.1016/j.jseaes.2023.105617>

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39. **Mingsong Li***, Timothy J Bralower, Lee R Kump, Jean M Self-Trail, James C Zachos, William D Rush, Marci M Robinson. **2022**. Astrochronology of the Paleocene-Eocene Thermal Maximum on the Atlantic Coastal Plain. *Nature communications*, 13(1): 5618. <https://doi.org/10.1038/s41467-022-33390-x>
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36. Jessica E Tierney, Jiang Zhu, **Mingsong Li**, Andy Ridgwell, Gregory J Hakim, Christopher J Poulsen, Ross DM Whiteford, James WB Rae, Lee R Kump. **2022**. Spatial patterns of climate change across the Paleocene–Eocene Thermal Maximum. *Proceedings of the National Academy of Sciences*, 119 (42): e2205326119. <https://doi.org/10.1073/pnas.2205326119>
35. Zhifeng Zhang, Yongjian Huang, **Mingsong Li**, Xiang Li, Pengcheng Ju, Chengshan Wang. **2022**. Obliquity-forced aquifer-eustasy during the Late Cretaceous greenhouse world. *Earth and Planetary Science Letters*, 596: 117800. <https://doi.org/10.1016/j.epsl.2022.117800>

- # 34. **Yujing Wu**, Xianjun Fang, Linhua Jiang, Biao Song, Baofu Han, **Mingsong Li***, Jianqing Ji*. **2022**. Very long-term periodicity of episodic zircon production and Earth system evolution. *Earth-Science Reviews*, 233: 104164. <https://doi.org/10.1016/j.earscirev.2022.104164>
33. Xu Yao, Shuang Dai, **Mingsong Li**, Linda Hinnov. **2022**. Orbital eccentricity and inclination metronomes in Middle Miocene lacustrine mudstones of Jiuxi Basin, Tibet: Closing an astrochronology time gap and calibrating global cooling events. *Global and Planetary Change*, 215: 103896. <https://doi.org/10.1016/j.gloplacha.2022.103896>
32. Tan Zhang, Yifan Li*, Tailiang Fan, Anne-Christine Da Silva, Juye Shi, Qi Gao, Mingzhi Kuang, Wangwei Liu, Zhiqian Gao, **Mingsong Li***. **2022**. Orbitally-paced climate change in the early Cambrian and its implications for the history of the Solar System. *Earth and Planetary Science Letters*, 583: 117420. <https://doi.org/10.1016/j.epsl.2022.117420>
31. Simin Jin, David B. Kemp, David W. Jolley, Manuel Vieira, James Zachos, Chunju Huang, **Mingsong Li**, Wenhan Chen. **2022**. Large-scale, astronomically paced sediment input to the North Sea Basin during the Paleocene Eocene Thermal Maximum. *Earth and Planetary Science Letters*, 579, 1, 11734. <https://doi.org/10.1016/j.epsl.2021.117340>
- # 30. **Meng Wang**, **Mingsong Li***, David B. Kemp, Slah Boulila, James G. Ogg. **2022**. Sedimentary noise modeling of lake-level change in the Late Triassic Newark Basin of North America. *Global and Planetary Change*, 208, 103706. <https://doi.org/10.1016/j.gloplacha.2021.103706>

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29. Ying Cui*, **Mingsong Li***, Elsbeth E. van Soelen, Francien Peterse, Wolfram M. Kürschner*. **2021**. Massive and rapid predominantly volcanic CO₂ emission during the end-Permian mass extinction. *Proceedings of the National Academy of Sciences*, 118, 37, p. e2014701118. <https://doi.org/10.1073/pnas.2014701118> [亮点论文]
28. Dongyang Liu, Chunju Huang, James G. Ogg, David B. Kemp, **Mingsong Li**, Meiyi Yu, William J. Foster. **2021**. Astronomically Forced Changes in Chemical Weathering and Redox During the Anisian (Middle Triassic): Implications for Marine Ecosystem Recovery Following the End-Permian Mass Extinction. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 569: 110355. <https://doi.org/10.1016/j.palaeo.2021.110355>
27. Dongyang Liu, Chunju Huang, David B. Kemp, **Mingsong Li**, James G. Ogg, Meiyi Yu, William J. Foster. **2021**. Paleoclimate and sea level response to orbital forcing in the Middle Triassic of the eastern Tethys. *Global and Planetary Change*: 103454, <https://doi.org/10.1016/j.gloplacha.2021.103454>
26. Omid Falahatkah, Ali Kadkhodaie*, Ali A. Ciabeghods, **Mingsong Li***, **2021**. Cyclostratigraphy of the Lower Triassic Kangan Formation in the Salman gas field, eastern Persian Gulf, Iran. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 561, 110045. <https://doi.org/10.1016/j.palaeo.2020.110045>

2017-2020

25. Haocheng Yu, Kunfeng Qiu, **Mingsong Li**, M. Santosh, Z.G. Zhao, Y.Q. Huang, **2020**. Record of the late Paleozoic ice age from Tarim, China. *Geochemistry, Geophysics, Geosystems*, e2020GC009237. <https://doi.org/10.1029/2020GC009237>
24. Zheng Gong, **Mingsong Li**. **2020**. *Astrochronology of the Ediacaran Shuram Carbon Isotope Excursion, Oman*. *Earth and Planetary Science Letters*, 547, 116462. <https://doi.org/10.1016/j.epsl.2020.116462>
23. J. Fred Read, **Mingsong Li**, Linda A. Hinnov, Campbell S. Nelson, Steven Hood. **2020**. Testing for astronomical forcing of cycles and gamma ray signals in outer shelf/upper slope, mixed

- siliciclastic-carbonates: Upper Oligocene, New Zealand. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 555, <https://doi.org/10.1016/j.palaeo.2020.109821>
22. Yang Zhang, James G. Ogg, Matthias Franz, Gerhard H. Bachmann, Michael Szurlies, Heinz-Gerd Röhling, **Mingsong Li**, Christian Rolf, Karsten Obst. 2020. Carnian (Late Triassic) magnetostratigraphy from the Germanic Basin allowing global correlation of the Mid-Carnian Episode, *Earth and Planetary Science Letters*, 541, 116275, <https://doi.org/10.1016/j.epsl.2020.116275>
 21. Chao Ma, **Mingsong Li**. 2020. Astronomical time scale of the Turonian constrained by multiple paleoclimate proxies. *Geoscience Frontiers*. 11, 1345-1352, <https://doi.org/10.1016/j.gsf.2020.01.013>
 - # 20. Meng Wang, Honghan Chen, Chunju Huang, David B. Kemp, Tianwu Xu, Hongan Zhang, **Mingsong Li**. 2020. Astronomical forcing and sedimentary noise modeling of lake-level changes in the Paleogene Dongpu Depression of North China. *Earth and Planetary Science Letters*, 535: 116116, <https://doi.org/10.1016/j.epsl.2020.116116>
 19. Tan Zhang, Changmin Zhang, Tailiang Fan, Lei Zhang, Rui Zhu, Jinyu Tao, **Mingsong Li**. 2020. Cyclostratigraphy of Lower Triassic terrestrial successions in the Junggar Basin, northwestern China. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 109493. <https://doi.org/10.1016/j.palaeo.2019.109493>
 18. **Mingsong Li**, Hubert L. Barnes. 2019. Astronomically forced sphalerite growth in the upper Mississippi Valley District. *Geochemical Perspectives Letters*, 12, 18-22, <https://doi.org/10.7185/geochemlet.1929> [封面文章]
 17. Peng Gao, Junsheng Nie, **Mingsong Li**, Pu Li. 2019. Confirmation of a late Miocene subchron C4n.2n-1r from the eastern Qaidam Basin in the NE Tibetan Plateau. *Journal of Geophysical Research: Solid Earth*, <https://doi.org/10.1029/2019JB017936>
 16. Matthias Sinnesael, David De Vleeschouwer, Christian Zeeden, Sietske J. Batenburg, Da Silva Anne-Christine, Niels J. de Winter, Jaume Dinarès-Turell, Anna Joy Drury, Gabriele Gambacorta, Frits Hilgen, Linda Hinnov, Alexander J.L. Hudson, David B. Kemp, Margriet Lantink, Jiri Laurin, **Mingsong Li**, Diederik Liebrand, Chao Ma, Stephen Meyers, Johannes Monkenbusch, Sandro Montanari, Theresa Nohl, Heiko Pälike, Damien Pas, Micha Ruhl, Nicolas Thibault, Maximilian Vahlenkamp, Luis Valero, Sébastien Wouters, Huaichun Wu, Philippe Claeys. 2019. The Cyclostratigraphy Intercomparison Project (CIP): consistency, merits and pitfalls. *Earth-Science Reviews*, <https://doi.org/10.1016/j.earscirev.2019.102965>
 15. Qingda Su, Junsheng Nie, Zeng Luo, **Mingsong Li**, Richard Heermance, Carmala Garziona. 2019. Detection of strong precession cycles from the late Pliocene sedimentary records of northeastern Tibetan Plateau. *Geochemistry, Geophysics, Geosystems*, <https://doi.org/10.1029/2019GC008447>
 14. **Mingsong Li**, Chunju Huang, James Ogg, Yang Zhang, Linda Hinnov, Huaichun Wu, Zhong-Qiang Chen, Zhuoyan Zou. 2019. Paleoclimate proxies for cyclostratigraphy: Comparative analysis using a Lower Triassic marine section in South China. *Earth-Science Reviews*, 189, 125-146, <https://doi.org/10.1016/j.earscirev.2019.01.011>
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 12. **Mingsong Li**, Linda Hinnov, Chunju Huang, James Ogg. 2018. Sedimentary noise and sea levels linked to land-ocean water exchange and obliquity forcing. *Nature Communications*, 9, 1004, <https://doi.org/10.1038/s41467-018-03454-y>

11. **Mingsong Li**, Lee Kump, Linda Hinnov, Michael Mann. 2018. Tracking variable sedimentation rates and astronomical forcing in Phanerozoic paleoclimate proxy series with evolutionary correlation coefficients and hypothesis testing. *Earth and Planetary Science Letters*, 501, 165-179, <https://doi.org/10.1016/j.epsl.2018.08.041>
10. **Mingsong Li**, Chunju Huang, Weizhe Chen, Linda Hinnov, James Ogg, Wei Tian. 2018. Astrochronology of the Anisian Stage (Middle Triassic) of Guandao section, South China. *Earth and Planetary Science Letters*. 482, 591-606, <https://doi.org/10.1016/j.epsl.2017.11.042>
9. **Mingsong Li**, Yang, Zhang, Chunju Huang, James Ogg, Linda Hinnov, Yongdong Wang, Zhuoyan Zou, Liqin Li. 2017. Astronomical tuning and magnetostratigraphy of the Xujiache Formation in South China and Newark Supergroup in North America: implications for the Late Triassic time scale. *Earth and Planetary Science Letters*. 475: 207-223, <https://doi.org/10.1016/j.epsl.2017.07.015>

2010-2016

8. **Mingsong Li**, Chunju Huang, Linda Hinnov, James Ogg, Zhong-Qiang Chen, Yang Zhang. 2016. Obliquity-forced climate during the Early Triassic hothouse in China. *Geology*. 44(8): 623-726, <https://doi.org/10.1130/G37970.1> [封面文章]
7. **Mingsong Li**, James Ogg, Yang Zhang, Chunju Huang, Linda Hinnov, Zhong-Qiang Chen, Zhuoyan Zou. 2016. Astronomical-cycle scaling of the End-Permian Extinction and the Early Triassic Epoch of South China and Germany. *Earth and Planetary Science Letters*. 441:10-25, <https://doi.org/10.1016/j.epsl.2016.02.017>
6. Zhuoyan Zou, Chunju Huang, **Mingsong Li**, Yang Zhang. 2016. Climate response to astronomical forcing during the Oligocene-Miocene transition in the equatorial Atlantic (ODP Site 926). *Science China Earth Sciences*. 59(8): 1665-1673, <https://doi.org/10.1007/s11430-016-5311-y>
5. Yang Zhang, **Mingsong Li**, James Ogg, Paul Montgomery, Chunju Huang, Zhong-Qiang Chen, Zhiqiang Shi, Paul Enos, Daniel J. Lehrmann, 2015. Cycle-calibrated magnetostratigraphy of middle Carnian from South China: Implications for Late Triassic time scale and termination of the Yangtze Platform. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 436, 135-166. <https://doi.org/10.1016/j.palaeo.2015.05.033>
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3. 孙跃武, **李明松**, 赵国伟. 2012. 吉林延边地区早二叠世一个新的陆相地层单位. 地层学杂志, 2012,36(1): 237-245.
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5. 会议摘要

2025

114. **李明松**. 2025. 三叠纪天文-磁性地层与古气候变化. 北京地球物理学会 2025 年学术年会, 北京. [邀请报告]

2024

113. **Mingsong Li**, Jiahao Liu, Haoxun Zhang, Xinwen Zhang, Lee R Kump, Andy Ridgwell. 2024. Carbon cycle data assimilation during the Paleocene-Eocene Thermal Maximum and the Early Eocene Climatic Optimum. AGU Fall Meeting, Washington DC, USA. [Invited Oral]
- # 112. Qingqing Jiang, **Mingsong Li**. 2024. Astrochronology of Paleocene-Eocene Thermal Maximum at ODP Site 1172. AGU Fall Meeting, Washington DC, USA.
- # 111. Kaixuan Ji, **Mingsong Li**. 2024. Application of Sedimentology and its Datafication in Astrochronology. AGU Fall Meeting, Washington DC, USA.
110. Meng Wang, **Mingsong Li**, Elizabeth Hajek, David Kemp, Yujing Wu, Hanyu Zhu, Zhijun Jin. 2024. Preservation of orbital signals in the sedimentary record and the robustness of astronomical time scales. AGU Fall Meeting, Washington DC, USA.
109. Jian Chen, **Mingsong Li**, Kunyuan Ma, Yuehan Lu. 2024. Cyclostratigraphic calibration of the Late Devonian and its implication for bio-crisis and bio-event in Illinois Basin, eastern United States. GSA Annual Meeting, Seattle, USA.
108. 李明松, 张昊勋, 胡永云, 刘佳豪, 朱晗宇, 张馨文. 2024. 古气候数据同化: 原理、进展与展望. 第二届数据驱动与地学发展全国学术研讨会. 中国北京. [邀请报告]
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6. 李明松, 孙跃武, 张兴洲, 葛文春, 2012. 嘎呀河-图们江: 古亚洲洋最东端的关闭位置[C], 第二届深海研究与地球系统科学学术研讨会, 上海, p. 53-54. [展板]
5. 李明松, 孙跃武, 葛文春, 张彦龙. 2011. 吉林延边地区开山屯植物群的时代——碎屑锆石 U-Pb 年代学约束[C]. 中国古生物学会第 26 届学术年会论文摘要集, 贵州关岭, 99-100. [优秀展板报告奖]
4. Yuewu Sun, Xingzhou Zhang, **Mingsong Li**, 2011, New material on Permian phytogeography in the Yanbian area, eastern Jilin Province, China: Proceedings of the Proc Russian Sci Conference with foreign participants on Geological processes in the lithospheric plates subduction, collision, and slid environments, Dalnauka, Vladivostok, 153.
3. 孙跃武, 张淑芹, 李明松, 张德军. 2011. 华北板块东北缘石炭-二叠纪地层序列[C]. 中国古生物学会第 26 届学术年会论文摘要集. 贵州关岭, 91-92. [口头]
2. 李明松, 孙跃武, 赵国伟. 2010. 吉林延边地区二叠纪植物地理区系[C]. 中国古生物学会古植物学分会第七届会员代表大会暨 2010 年学术年会论文摘要集. 云南景洪. 32. [口头]

1. 李明松, 赵国伟, 王成文, 孙跃武. 2010. 西拉木伦河缝合带在延边地区的东延——来自汪清大兴沟华夏植物群的证据[C]. 见: 松辽盆地及外围地区油气资源战略调查学术研讨会. 松原. 69-70. [口头, 会议论文一等奖]

6. 讲座与学术报告

41. 中国科学院南京古生物与地质研究所. 南京. 2025 年 1 月 14 日. 邀请报告.
40. 中国石油大学(北京). 北京. 2025 年 1 月 2 日. 邀请报告.
39. 第七届古生物学青年学者论坛. 成都. 2024 年 12 月 16 日. 邀请报告.
38. 中国科学院地质与地球物理研究所. 北京. 2024 年 12 月 4 日. 邀请报告.
37. 北京大学元培学院. 北京. 2024 年 11 月 15 日. 邀请报告.
36. 巴黎天文台. 法国巴黎. 2024 年 7 月 17 日. Laskar 院士邀请报告.
35. 国际旋回地层学对比计划 2.0. 比利时布鲁塞尔. 2024 年 7 月 9 日. 主题报告.
34. 沈阳师范大学. 沈阳. 2024 年 6 月 18 日. 邀请报告.
33. 北京大学地球与空间科学学院. 北京. 2024 年 3 月 8 日. 邀请学术午餐会.
32. 中国科学院大气所. 北京. 2023 年 9 月 15 日. 邀请报告.
31. 中国石油勘探开发研究院. 北京. 2023 年 4 月 8 日. 邀请报告.
30. 中国科学院青藏所. 北京. 2023 年 4 月 19 日. 邀请报告.
29. 中国科学院地球环境所“古今风云”论坛. 西安. 2023 年 4 月 13 日. 邀请报告.
28. 2023 Paleoclimatology Group Seminar. 2023 年 2 月 5 日.
27. 固体地球科学重点实验室联盟 2022 年学术委员会会议. 2022 年 12 月 18 日.
26. 基金委大陆演化与季风系统演变基础科学中心项目网络系列学术研讨会. 2022 年 10 月 15 日.
25. 吉林大学. 2022 年 5 月 9 日. 邀请报告.
24. 古磁天地云论坛. 2021 年 12 月 5 日. 邀请报告.
23. 北京大学. 2021 年 10 月 27 日. 邀请报告.
22. 南方科技大学. 2021 年 10 月 23 日. 邀请报告.
21. Montclair State University. 2021 年 10 月 11 日. 邀请报告.
20. 同济大学. 2021 年 10 月 11 日. 邀请报告.
18. 北京大学. 2021 年 6 月 11 日. GeoLunch 邀请报告.
17. 北京大学. 2021 年 5 月 26 日. Astrobiology Initiative.
17. 同济大学. 2021 年 4 月 19 日. 邀请报告.
16. 中国地质大学(北京). 2021 年 4 月 16 日. 邀请报告.
15. Virginia Tech. 美国弗吉尼亚州. 2021 年 3 月 18 日. 邀请报告.
14. 中国科学院地质与地球物理研究所. 2021 年 3 月 16 日. 刘东生讲座邀请报告.
13. Virginia Tech. 美国弗吉尼亚州. 2021 年 3 月 11 日. 邀请报告.
12. 宾州州立大学. 美国宾夕法尼亚州. 2020 年 2 月 14 日.
11. 理海大学. 美国宾夕法尼亚州. 2019 年 9 月 6 日. 邀请报告.
10. 乔治梅森大学. 美国弗吉尼亚州. 2019 年 3 月 28 日. 邀请报告.
9. 宾州州立大学. 美国宾夕法尼亚州. 2018 年 9 月 21 日.
8. 中国科学院南京古生物与地质研究所. 中国江苏南京. 2018 年 5 月 11 日. 邀请报告.
7. 南京大学. 中国江苏南京. 2018 年 5 月 9 日. 邀请报告.
6. 中国地质大学(武汉). 中国湖北武汉. 2018 年 3 月 26 日. 邀请报告.
5. 普渡大学. 美国印第安纳州西拉法叶. 2018 年 1 月 18 日. 邀请报告.
4. 北京大学. 中国北京. 2017 年 10 月 19 日. 邀请报告.
3. 宾夕法尼亚州立大学. 美国宾夕法尼亚州学院. 2017 年 4 月 14 日.
2. 中国地质大学(武汉). 中国湖北武汉. 2017 年 3 月 19 日. 邀请报告.

1. 乔治梅森大学. 地质学讲座. 美国弗吉尼亚州费尔法克斯. 2015 年 10 月 8 日.

7. 教学

课程

2024 秋季, 北京大学, 地球科学中的数据科学 (01232010), 本科生课程, 独立讲授
2024 秋季, 北京大学, 深时地球数据分析与可视化 (01201270), 研究生课程, 独立讲授
2024 秋季, 北京大学, 古生物学及地层学研究进展 (01217280), 研究生课程, 独立讲授
2023 秋季, 北京大学, 地球科学中的数据科学 (01232010), 本科生课程, 独立讲授
2023 秋季, 北京大学, 深时地球数据分析与可视化 (01201270), 研究生课程, 独立讲授
2023 春季, 北京大学, 古生物学与地层学前沿 (01217280), 研究生课程, 合上
2022 秋季, 北京大学, 深时地球数据分析与可视化 (01201270), 研究生课程, 独立讲授
2022 春季, 北京大学, 古生物学与地层学前沿 (01217280), 研究生课程, 合上
2021 春季, 北京大学, 古生物学与地层学前沿 (01217280), 研究生课程, 合上
2020 宾州州立大学, 临时讲师: 地球生物学
2019 理海大学, 受邀短期培训课: Acycle 时间序列分析软件及其在古气候研究中的应用
2016 乔治梅森大学, 助课和实习课: 沉积地质学、古海洋学
2014 中国地质大学 (武汉), 助教: *Astronomical Forcing of the Paleoclimate System*

短期课程

2023 年 4 月, 旋回地层学短期课程, 成都理工大学, 沉积学大会. 中国成都. 主讲老师

其他

2024 年 12 月, 生成式 AI 革新地学研究教育, 北京大学 AI for Education 燕园智声沙龙, 邀请报告

8. 指导学生

(1) 博士后

纪开宣: 北京大学博士后, 2022 年 12 月至今

(2) 研究生

张皓天: 北京大学, 直博生, 2021 年 9 月-2026 年 7 月

张小宇: 北京大学, 直博生, 2022 年 9 月-2027 年 7 月

蒋青青: 北京大学, 硕士生, 2022 年 9 月-2025 年 7 月

朱晗宇: 北京大学, 直博生, 2023 年 9 月-2028 年 7 月

王之鑫: 北京大学, 直博生, 2024 年 9 月-2029 年 7 月

(3) 本科生科研

张馨文: 北京大学地球与空间科学学院, 2021 级本科生

刘佳豪: 北京大学地球与空间科学学院, 2022 级本科生

武衡: 北京大学地球与空间科学学院, 2023 级本科生

(4) 本科生班主任

北京大学地球与空间科学学院 2022 级 1 班地球化学强基班 (学院 22-23 年度“先进班集体”)

(5) 过去指导

王蒙: 2019 年 7 月-2020 年 9 月, 宾州州立大学访学博士生; 2021 年 7 月-2023 年 8 月, 北京大学博雅博士后; 现任中国科学院南京地质古生物研究所副研究员 (百人计划 B)

张昊勋: 北京大学, 硕士, 2021 年 9 月-2024 年 7 月

王之鑫: 北京大学, 地球与空间科学学院, 2020 级本科生, 现为北京大学直博生

向志丹: 北京大学, 地球与空间科学学院, 2021 级本科生, 现为北京大学直博生

吴朵晋: 北京大学地球与空间科学学院, 2023 级本科生

朱晗宇: 北京大学, 元培学院, 2019 级本科生, 现为北京大学直博生

武于靖: 北京大学, 博士研究生, 2019 年 9 月-2024 年 7 月, 副导师; 现任法国天文台 Laskar 院士课题组博士后研究员

Ciro Clímaco Rodrigues: 巴西 National Observatory in Rio de Janeiro 硕士, 2021 年-2023 年, 副导师

Mariana Aragao Fernandes: 巴西 National Observatory in Rio de Janeiro 硕士, 2021 年-2023 年, 副导师

9. 科研项目

(1) 2021 年以来

1. 2025 年 1 月 – 2027 年 12 月, 国家自然科学基金指南引导类原创探索计划项目“跨圈层同位素数据同化揭示古新世-始新世极热事件的碳释放源与进程”(42450195), 直接费用 135 万, **主持**
2. 2025 年 1 月 – 2028 年 12 月, 国家自然科学基金面上项目“混沌太阳系新生代早期行星轨道长期共振跃迁事件的旋回地层学研究”(42472050), 直接费用 53 万, **主持**
3. 2022 年 12 月 – 2027 年 11 月, 国家重点研发计划青年科学家项目“古新世-始新世极热事件时期轨道尺度海洋脱氧的时空演化”(2022YFF0802900), 400 万, **主持**
4. 2022 年 1 月 – 2024 年 12 月, 国家级人才计划青年项目“天文年代学与深时全球变化”, 100 万, **主持**
5. 2021 年 12 月 – 2026 年 11 月, 国家重点研发计划青年科学家项目“示踪元古宙中期地球宜居性演化的金属稳定同位素技术”(2021YFA0718200), 88 万(总 533 万), **骨干**
6. 2021 年 1 月 – 2024 年 12 月, 北京大学基本科研业务费“高分辨率天文年代学与古气候变化研究”(7100603368), 100 万, **主持**
7. 2021 年 1 月 – 2024 年 12 月, 国家自然科学基金面上项目“基于沉积噪音模型的中德早三叠世湖平面与海平面变化机制研究”(42072040), 直接费用 61 万, **主持**
8. 2021 年 1 月 – 2021 年 12 月, 流域关键带演化湖北省重点实验室开放基金项目“四川广安谢家槽下三叠统海相剖面的古海平面重建”(2021F07), 3 万, **主持**

(2) 2020 年及以前

1. 2017 年 3 月 – 2020 年 12 月, Heising-Simons Foundation, “Paleoclimate Data Assimilation for Deep Time”, 参与
2. 2016 年 9 月 – 2017 年 2 月, NSF-Standard Grant-OCE-1303605, “Collaborative Research: The relationship between multi-year droughts in California, coupled ocean-atmosphere climate oscillations and climate forcing”, 参与
3. 2014 年 1 月 – 2016 年 12 月, 国家自然科学基金优秀青年基金 (41322013) “天文旋回与深时全球变化”, 参与
4. 2014 年 1 月 – 2016 年 12 月, 国家自然科学基金青年基金 (41302113) “川西坳陷上三叠统须家河组米兰科维奇旋回的识别及天文年代标尺建立”, 参与
5. 2012 年 1 月 – 2014 年 12 月, 国家自然科学基金青年基金项目 (41102004) “吉林中部地区石炭系牙形刺研究”, 参与
6. 2012 年 9 月 – 2014 年 12 月 973 项目 (2012CB822000-G) “晚中生代温室地球气候-环境演变”子课题, 参与
7. 2011 – 2012 中国地质调查局沈阳地调中心“东北地区泥盆-石炭纪地层划分对比及油气资源前景研究”, 参与
8. 2011 – 2012 中国地质科学院矿产资源研究所“天山-兴蒙构造带石炭-二叠系对比研究”参与

9. 2011 年 1 月 – 2012 年 12 月 教育部重点实验室平台项目“吉林延边地区晚古生代古生物地理区划”，参与
10. 2009 年 9 月 – 2012 年 7 月 全国油气资源战略选区调查与评价国家专项（第二批）“松辽盆地及外围上古生界油气资源战略选区”子项目“松辽盆地及外围上古生界石油地质综合研究”（14B09XQ1201），参与

10. 专业软件

Acycle 软件:

<https://acycle.org>

图形界面、跨平台的时间序列分析软件，为世界各地的千余位古气候研究者提供便利，用户来自耶鲁大学、普林斯顿大学、哥伦比亚大学、卡尔加里大学、澳大利亚国立大学、乌德勒支大学、帕多瓦大学、巴西国家观测局、中国科学院、北京大学、兰州大学、中国地质大学、中国石油大学等单位

11. 科研活动

(1) 学会任职

2022 至今 中国地质学会人类世研究分会 委员

(2) 编委会

2021-2025 *National Science Review* 学科编辑组成员

2024 至今《沉积学报》青年编委

2023 《第四纪研究》杂志特邀编审

(3) 召集主持学术会议

1. 2025 上海地球系统科学大会，召集人，水循环的地质演变
2. 2025 上海地球系统科学大会，共同召集人，温室地球古海洋与古气候
3. 2025 上海地球系统科学大会，共同召集人，地球轨道力驱动的地球系统演变
4. 2025 第八届全国沉积学大会，共同召集人，细粒岩精时地层学
5. 2025 第八届全国沉积学大会，共同召集人，地球轨道力驱动的环境与气候演变
6. 2024 美国地球物理学会（AGU）秋季年会专题会议共同主席, *PP53G: Astronomical Forcing of Earth's Paleoclimate System II Oral*
7. 2024 美国地球物理学会（AGU）秋季年会，专题会议共同主席, *PP51B: Astronomical Forcing of Earth's Paleoclimate System I Poster*
8. 2024 第二届数据驱动与地学发展全国学术研讨会，共同召集人，专题 1. 地球科学研究的大数据与人工智能范式
9. 2024 The 6th International Conference of Palaeogeography 专题会议主席与召集人, *T7-8: Astronomical forcing of palaeoclimate and palaeoenvironmental systems*
10. 2023 美国地球物理学会（AGU）秋季年会专题会议共同主席, *PP01: Online Poster Session for Paleoceanography and Paleoclimatology I*
11. 2023 美国地球物理学会（AGU）秋季年会专题会议主席与召集人, *PP24B. Cyclostratigraphy and Astronomical Forcing of Earth's Paleoclimate System II Oral*
12. 2023 美国地球物理学会（AGU）秋季年会专题会议主席与召集人, *PP21D. Cyclostratigraphy and Astronomical Forcing of Earth's Paleoclimate System I Poster*
13. 2023 上海地球系统科学大会，专题召集人，专题 36 长周期地球轨道力驱动的地球系统演变
14. 2023 上海地球系统科学大会，专题召集人，专题 37 地球变暖时期的古环境重建

15. 2022 美国地球物理学会 (AGU) 秋季年会专题会议主席与召集人, *PP11C. Cyclostratigraphy and Astronomical Forcing of Earth's Paleoclimate System I Online Poster Discussion*
16. 2022 美国地球物理学会 (AGU) 秋季年会专题会议主席与召集人, *PP13B. Cyclostratigraphy and Astronomical Forcing of Earth's Paleoclimate System II Oral*
17. 2022 美国地球物理学会 (AGU) 秋季年会专题会议主席与召集人, *PP25D. Cyclostratigraphy and Astronomical Forcing of Earth's Paleoclimate System III Poster*
18. 2022 美国地球物理学会 (AGU) 秋季年会专题会议共同主席, *PP14A. Ocean Deoxygenation During Past Hyperthermals I Online Poster Discussion*
19. 2022 美国地球物理学会 (AGU) 秋季年会专题会议共同主席, *PP22D - Ocean Deoxygenation During Past Hyperthermals II Poster*
20. 2021 美国地球物理学会 (AGU) 秋季年会专题会议主席与召集人, *PP006. Cyclostratigraphy and Astronomical Forcing of Earth's Paleoclimate System*
21. 2021 美国地质学会 (GSA) 年会专题会议共同召集人, *T171. Data-Driven Approaches Deciphering Water and Carbon Cycles in Earth-Surface Systems*
22. 2021 欧洲地球科学联合会年会共同召集人: *CL1.8/SSP2.4: Climate response to orbital forcing*
23. 2020 美国地球物理学会 (AGU) 秋季年会专题会议主席与召集人: *Astronomical Forcing and Past Climate Cycles*
24. 2020 Goldschmidt 专题会议主席与召集人: *New Developments in Deep-Time Paleooceanography: Geochemical Proxies, Cyclostratigraphy & Data Analysis*
25. 2019 美国地球物理学会 (AGU) 秋季年会专题会议主席与召集人: *Cyclostratigraphy and Astronomical Forcing of Past Climates*
26. 2019 美国地球物理学会 (AGU) 秋季年会专题会议主席与召集人: *Chrono-stratigraphy using Magnetic Methods*
27. 2018 美国地球物理学会 (AGU) 秋季年会专题会议主席与召集人: *Cyclostratigraphy and Astrochronology in Deep Time*
28. 2018 深时极端气候环境与生物响应国际研讨会专题会议共同主席: *Triassic*
29. 2018 欧洲地球科学联合会年会共同召集人: *Session CL1.31: Climate response to orbital forcing*
30. 2017 美国地球物理学会 (AGU) 秋季年会专题会议共同主席 *PP42B: Cyclostratigraphy and Astronomical Forcing of Past Climates*
31. 2017 美国地质学会 (GSA) 年会专题会议共同召集人 *T47: Recent Developments in Cyclostratigraphy*

(4) 基金评阅人:

中国国家自然科学基金委 NSFC, 美国自然科学基金 NSF, 英国 NERC 基金, 德国研究基金会 DFG, 波兰国家科学中心, 荷兰科学研究组织 NOW

(5) 杂志审稿人 (120+):

Publons: <https://publons.com/researcher/1455928/mingsong-li/peer-review/>

(31) *Palaeogeography, Palaeoclimatology, Palaeoecology*, (11) *Global and Planetary Change*, (8) *Paleoceanography and Paleoclimatology*, (7) *Earth and Planetary Science Letters*, (7) *Earth-Science Reviews*, (5) *Journal of Asian Earth Sciences*, (4) *Marine and Petroleum Geology*, (3) *Geology*, (3) *Climate of the Past*, (3) *Computers & Geosciences*, (3) *GSA Bulletin*, (3) *Geological Journal*, (3) *Geophysical Research Letters*, (3) *Nature Communications*, (3) *Quaternary Science Reviews*, (2) *Gondwana Research*, (2) *PNAS*, (2) *Cretaceous Research*, (2) *Geological Journal*, (2) *Journal of King Saud University - Science*, (2) *Science Bulletin*, (2) *Scientific Reports*, (1) *Arabian Journal of Geosciences*, (2) *Journal of Geoscience*, (1) *Journal of Geophysical Research: Atmospheres*, (1)

Geoscience Frontiers, (1) Journal of Ocean University of China, (1) Journal of Geological Society, (1) MethodsX, (1) Paleooceanography, (1) Precambrian Research, (1) Science, (1) Science Advances, (1) Sedimentology, (1) Terra Nova

(6) 学术评委:

2022 北京大学地空学院研究生第五届“学术之星”评委
2021 北京大学地空学院研究生第四届“学术之星”评委
2019 Outstanding Student Presentation Award (OSPA), AGU
2018 Outstanding Student Presentation Award (OSPA), AGU
2017 Tenth Annual Postdoc Research Exhibition, Penn State

(7) 科学传播:

Acycle 时间序列分析微信公众号 (订阅用户: 4929 人)

12. 部分媒体报道

2024 北京大学官网首页, 北京大学新闻网, 地球与空间科学学院、数学科学学院获批国家自然科学基金委原创探索计划项目

<https://news.pku.edu.cn/xwzh/9a4af42b70c34174bb7072d9af29d0a8.htm>

2024 北京大学文科数智化公共平台, “AI for Education 燕园智声沙龙: 生成式 AI 背景下的教育教学变革与对策” (第五期) 举行 <https://hdipp.pku.edu.cn/info/1002/2066.htm>

2024 新华社英文版, Ancient climate crisis offers warning on modern ocean acidification: Study https://xhnewsapi.xinhuaxmt.com/share/news_pc?id=1030777941192704

2024 CGTN, China Economic Net, United News of Bangladesh, TBSNews.net. Ancient climate crisis offers warning on modern ocean acidification <https://news.cgtn.com/news/2024-12-23/Ancient-climate-crisis-offers-warning-on-modern-ocean-acidification-1zyJSjVik9y/p.html>

2024 Phys.org. Ancient climate study links past ocean acidification to current trends <https://phys.org/news/2024-11-ancient-climate-links-ocean-acidification.html>

2024 noticiasdelatierra. Un estudio sobre el clima antiguo vincula la acidificación pasada de los océanos con las tendencias actuales <https://noticiasdelatierra.com/un-estudio-sobre-el-clima-antiguo-vincula-la-acidificacion-pasada-de-los-oceanos-con-las-tendencias-actuales/>

2024 Ocean Acidification. Ancient climate study links past ocean acidification to current trends <https://news-oceanacidification-icc.org/2024/11/20/ancient-climate-study-links-past-ocean-acidification-to-current-trends/>

2024 Ocean Acidification. Coupled decline in ocean pH and carbonate saturation during the Palaeocene–Eocene Thermal Maximum <https://news-oceanacidification-icc.org/2024/11/20/coupled-decline-in-ocean-ph-and-carbonate-saturation-during-the-palaeocene-eocene-thermal-maximum/>

2024 北京大学官网首页, 北京大学新闻网, 地空学院李明松团队揭示远古气候危机时期的海洋酸化与当今的相似之处 <https://news.pku.edu.cn/jxky/873f4e2126a24e0b8100a21bb60c6c31.htm>

2024 北京大学地空学院, 北大地空学院李明松揭示远古气候危机时期的海洋酸化与当今的相似之处 <https://sess.pku.edu.cn/info/1291/4648.htm>

2024 微信公众号(Acycle 时间序列分析, 中国大洋钻探计划, 地学之家, 化学星球, Marine Sedimentology 等), 远古大洋的挽歌: 温室气体排放、海洋酸化与生物大灭绝 https://mp.weixin.qq.com/s/oSJQSGCQC_PUsdKMDocWOw

2023 北京大学新闻网, 国家重点研发计划“地球系统与全球变化”重点专项青年项目启动会 <https://news.pku.edu.cn/xwzh/89b5392190ed4092b66a61ac0de7e1df.htm>

2023 北京大学地空学院, 国家重点研发计划“地球系统与全球变化”重点专项青年项目启动会 <https://sess.pku.edu.cn/info/1033/3941.htm>

- 2022 北京大学新闻网, 地空学院李明松研究员在古新世-始新世极热事件研究中取得进展
<https://news.pku.edu.cn/jxky/20c6bb15765e489ba497b0ed382b38e7.htm>
- 2022 Penn State, Sciencedaily, Phys.org: Changes in Earth's Orbit May Have Triggered Ancient Warming Event <https://www.psu.edu/news/research/story/changes-earths-orbit-may-have-triggered-ancient-warming-event>
- 2022 Épisode hyperthermique du Paléocène-Éocène: et si la cause était astronomique ?
<https://sciencepost.fr/episode-hyperthermique-du-paleocene-eocene-et-si-la-cause-etait-astronomique/>
- 2022 LOS CAMBIOS EN LA ÓRBITA DE LA TIERRA PUEDEN HABER DESENCADENADO UN ANTIGUO EVENTO DE CALENTAMIENTO <https://noticiasdelatierra.com/los-cambios-en-la-orbita-de-la-tierra-pueden-haber-desencadenado-un-antiguo-evento-de-calemtamiento/>
- 2022 Une modification dans l'orbite de la Terre a causé le plus grand réchauffement climatique jamais connu <https://www.futura-sciences.com/planete/actualites/rechauffement-climatique-modification-orbite-terre-cause-plus-grand-rechauffement-climatique-jamais-connu-102342/#xtor%3DRSS-8>
- 2022 Ученые выяснили последствия изменений орбиты Земли
<https://cursorinfo.co.il/interest/uchenye-vyyasnili-posledstviya-izmenenij-orbity-zemli/>
- 2022 Выявлены причины древнего глобального потепления
<https://lenta.ru/news/2022/12/15/orbital/>
- 2022 Maps of the past may shed light on our climate future <https://phys.org/news/2022-10-climate-future.html>
- 2022 中国科学报, 学术论文中, 署名应该遵守什么规范,
<https://news.sciencenet.cn/htmlnews/2022/5/479615.shtm>
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<https://phys.org/news/2021-09-mass-extinction-lethal-temperatures-due.html>
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<https://lenta.ru/news/2021/09/09/traps/>
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<https://www.msn.com/fr-fr/actualite/technologie-et-sciences/le-co2-en-cause-dans-la-pire-catastrophe-de-lhistoire-de-la-terre/ar-AAOcuZ8?li=BB0JvSH>, <https://fr.news.yahoo.com/co2-cause-pire-catastrophe-l-014500489.html>
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- Mar 2020 Newsweek: “Days on Earth When Dinosaurs Lived Were Half an Hour Shorter Than They Are Now, Ancient Fossil Reveals” <https://www.newsweek.com/days-earth-dinosaurs-half-hour-shorter-ancient-fossil-1491422>
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<https://phys.org/news/2019-11-ancient-gauge-evidence-links-groundwater.html>
- April 2018 Penn State Today, Science Daily, Physics News, and EurekAlert: “Connection of sea level and groundwater missing link in climate response”
<https://www.sciencedaily.com/releases/2018/04/180403120002.htm>
- April 2018 Europa Press: “La inclinación terrestre altera el nivel del mar sin hielo en los polos”
<http://www.europapress.es/ciencia/habitat-y-clima/noticia-inclinacion-terrestre-altera-nivel-mar-hielo-polos-20180403143840.html>

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