

刘帮军，男，博士，教授，硕士生导师，四川绵阳人，于2020年获德国法兰克福大学地球科学与地理学院自然科学（地球科学方向）理学博士学位（Dr. rer. nat im Fach Geowissenschaften），德国蒂宾根大学理学院地球科学系访问学者（2024-2025）。主持多项国家自然科学基金和河北省自然科学基金等科研项目。



联系方式: bangjunliu@126.com

招生专业: 地质资源与地质工程; 地质工程

一、研究方向

- 1、含煤盆地古环境和古气候变化与碳循环;
- 2、前第四纪古野火生态系统与生物多样性、古环境和古气候协同演化;
- 3、含煤岩系生物标志化合物形成和演化规律及稳定同位素的地质意义;
- 4、煤系战略性关键金属元素有机-无机富集机理;
- 5、水-土系统污染物多界面迁移转化与行为机理及其生态修复与治理（生态环境部华南环境科学研究所联合培养）。

二、代表性论文:

- [1]. Yun Xu, Yan Meng, Achim Bechtel, Qiaojing Zhao, Dieter Uhl, Cunliang Zhao, Yuzhuang Sun, Dawei Lv, **Bangjun Liu***. Palaeoenvironmental and palaeoclimatic changes during the Cretaceous (early Albian) Oceanic Anoxic Event 1b: A record from coal from northeast China. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 2025, 676, 113181.
- [2]. Cunliang Zhao, Xu Guo, Achim Bechtel, Lin Xiao, Jianguo Yao, Qiaojing Zhao, Wenmu Guo, Balaji Panchal, Shiming Liu, **Bangjun Liu***. Tectonic-driven thermal alteration of organic matter in the Permian high-rank coals in the southern North China Basin, *Fuel*, 2025, 290, 134715.
- [3]. Balaji Panchal, Yuzhuang Sun, Chia Huang Su, **Bangjun Liu***, Qiaojing Zhao, Cunliang Zhao*, Kai Bian, Jinxi Wang*. Reusable CFA₂₅₀-PA-SO₃H Catalyst Derived from Coal ash a Potential Method for Fuel Synthesis, *Surfaces and Interfaces*, 2025, 58, 105717. 三区
- [4]. **Bangjun Liu***, Achim Bechtel, Ksenija Stojanović, James C. Hower, Cunliang Zhao, Xu Guo. Organic petrography, biomarkers, and stable isotope ($\delta^{13}\text{C}$, δD , $\delta^{15}\text{N}$, $\delta^{18}\text{O}$) compositions of liptinite-rich coals. *International Journal of Coal Geology*, 2024, 290, 104561.

- [5]. Jingzhi Li, Xu Guo, Balaji Panchal, Jinxi Wang, Wenmu Guo, **Bangjun Liu***, Yue Yuan, Shiming Liu*. Quantitative analysis of molecular structure characterization of different liptinite-rich coals using FTIR spectroscopy. *Infrared Physics and Technology*, 2024, **141**, 105458.
- [6]. Balaji Panchal, Yuzhuang Sun, Cunliang Zhao*, Jinxi Wang, Kai Bian, Qiaojing Zhao, **Bangjun Liu***. Waste to value addition: Utilization of waste corn cob from corn plant derived novel green acidic catalyst for effective synthesis of esters. *Energy Reports*, 2024, **11**, 4277-4289. 三区
- [7]. Cunliang Zhao, Ke Zhang, Lin Xiao, Dieter Uhl, Zhixiang Shi, Wenwu Zhao, Qiaojing Zhao, Yuzhuang Sun, **Bangjun Liu***. Paleoclimate-induced wildfires in a paleomire in the Ordos Basin, Northern China during the Middle Jurassic greenhouse period. *Chemical Geology*, 2023, **637**, 121677.
- [8]. Zewei Wang, Yun Xu*, Qiaojing Zhao, Minmin Zhang, Weixu Li, Balaji Panchal, **Bangjun Liu***. Peatland wildfires in the Lower Cretaceous Damoguaihe Formation, Hailar Basin, Northeast China. *Cretaceous Research*, 2023, **150**, 105578.
- [9]. Balaji Panchal, Jinxi Wang, Yuzhuang Sun, Kai Bian, Cunliang Zhao*, Qiaojing Zhao*, **Bangjun Liu***. Production of ethyl esters using municipal sewage sludge and porous ionic liquid coordinated with Burkholderia lipase. *Biochemical Engineering Journal*, 2023, **198**, 109019. 三区
- [10]. **Bangjun Liu***, Rafael Spiekermann, Cunliang Zhao, Wilhelm Püttmann, Yuzhuang Sun, André Jasper, Dieter Uhl. Evidence for the repeated occurrence of wildfires in an upper Pliocene lignite deposit from Yunnan, SW China. *International Journal of Coal Geology*, 2022, **250**, 103924.
- [11]. **Bangjun Liu***, Achim Bechtel, Dietmar Gross, Qiaojing Zhao, Wenmu Guo, Samuel Ajuaba, Yuzhuang Sun, Cunliang Zhao*. Molecular and carbon isotope composition of hydrocarbons from ambers of the Eocene Shenbei coalfield (Liaoning Province, NE China). *Organic Geochemistry*, 2022, **104436**.
- [12]. Shiming Liu, Lian Jiang, **Bangjun Liu***, Cunliang Zhao, Shuheng Tang, Furong Tan. Investigation of organic matter sources and depositional environment changes for terrestrial shale succession from the Yuka Depression (the 7th Member of the Dameigou Formation): Implications from organic geochemistry and petrological analyses. *Journal of Earth Science*, 2023, **34**, 1577-1595.
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- [14]. **Bangjun Liu**, Cunliang Zhao, Jens Fiebig, Achim Bechtel, Yuzhuang Sun, Wilhelm Püttmann*. Stable isotopic and elemental characteristics of pale and dark layers in an upper Pliocene lignite deposit basin in Yunnan Province, southwestern China: Implications for paleoenvironmental changes. *International Journal of Coal Geology*, 2020, **226**, 103498.
- [15]. **Bangjun Liu**, Junyan Wang, Hongtao He, Vivek Mishra, Yanheng Li, Jinxi Wang*, Cunliang Zhao*. Geochemistry of Carboniferous coals from Laoyaogou Mine, Ningwu Coalfield, Shanxi Province, northern China: emphasis on the enrichment of valuable elements. *Fuel*, 2020, **279**, 118414.

- [16]. **Bangjun Liu**, Mirijam Vrabc, Miloš Markič, Wilhelm Püttmann*. Reconstruction of paleobotanical and paleoenvironmental changes in the Pliocene Velenje Basin, Slovenia, by molecular and stable isotope analysis of lignites. *International Journal of Coal Geology*, 2019, **206**, 31–45.
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- [20]. 刘帮军, 田泽奇, 李鸿豆, 郭旭, 赵巧静, 石志祥, 郭文牧, 张宁, Achim Bechtel, Maksim G. Blokhin, 孙玉壮, 赵存良*. 沈北煤田煤中琥珀的植物来源和稳定同位素的古环境意义. *地质学报*, 2023,97(08): 2445-2458.
- [21]. 郭旭, 姚建国, 李鸿豆, 田泽奇, 王志勇, 石志祥, 赵存良, 刘帮军*, 孙玉壮. 不同燃烧程度木炭的 FTIR 特征对煤中丝质体成因的指示意义. *煤炭科学技术*, 2023, 51(09): 292-301.