



王艳楠，男，1988年2月出生，博士，副教授，硕士生导师。2011年毕业于河北理工大学，获工学学生学位；2011-2014年就读于中国地震局地质研究所，获构造地质学硕士学位；2014-2017年就读于中国科学院大学，获工学博士学位。2018年2月-今，河北工程大学讲师、副教授。

一、研究方向：

矿田构造、低温热年代学

二、教学和科研项目：

- (1) 国家自然科学基金青年项目，41902088，多体系热年代学在矿床保存中的应用——以西天山阿希金矿为例，2020年1月至2022年12月，25万，结题，主持；
- (2) 河北省自然科学基金青年项目，D2019402238，太行-吕梁山中生代以来的剥露过程——来自山西霍山的磷灰石裂变径迹年代学约束，2019年1月至2021年12月，6万，结题，主持；
- (3) 河北省高等学校青年拔尖人才项目，BJ2020023，邯邢式矽卡岩型矿床变化与保存过程研究——以西石门铁矿为例，2020年1月至2022年12月，9万，结题，主持；
- (4) 邯郸市首批青年拔尖人才计划，2020年9月至2026年9月，30万，在研，主持；
- (5) 河北省自然科学基金生态智慧矿山联合基金项目，D2020402013，水体下煤岩地层地质构造探查基础研究，2020年9月至2022年12月，240万元，在研，参与，排名第七；
- (6) 河北省首批研究生教育教学改革研究项目，河北省教育厅，基于“五位一体”的研究生优质课程建设——以《高等构造地质学》为例，YJG2023094，2023年1月至2025年1月，1.8万，在研，主持；
- (7) 河北省战略性关键矿产研究协同创新中心开放课题，河北地质大学，冀北地区金厂峪矿床保存条件、定位规律及其找矿潜力分析，HGUXT-2023-14，2023年7月至2025年7月，4万，在研，主持。

三、发表论文：

- [1] Yin, J.Y. *, **Wang, Y.N.** *, Hodges, K.V., Xiao, W.J., Thomson, S.T., Chen, W., Yuan, C., Sun, M., Cai, K.D., Sun, J. 2023. Episodic long-term exhumation of the Tianshan orogenic belt: new insights from multiple low-temperature thermochronometers, *Tectonics*, 42 (4): 1–28.
- [2] Wang, Y.M., **Wang, Y.N.** *, Yin, J.Y. *, Thomson, S.T., Xiao, W.J., He, Z.Y., Chen, W., Cai, K.D., Wu, M.X., Meng, Y., 2023. Mesozoic exhumation of the northern West Junggar, NW China: insights from low-temperature thermochronometers. *Tectonophysics*. 862, 229939, <https://doi.org/10.1016/j.tecto.2023.229939>.
- [3] **Wang, Y.N.** *, Zhang, J.*, Huang, X., Wang, Z.J., 2023. Cenozoic exhumation of the Tianshan as constrained by regional low-temperature thermochronology. *Earth-Science Reviews*, 237, 104325, [10.1016/j.earscirev.2023.104325](https://doi.org/10.1016/j.earscirev.2023.104325).
- [4] **Wang, Y.N.**, Cai, K.D. *, Sun, M., 2021. Burial and exhumation of Late Paleozoic arc-related rocks in the Tulasu basin, western Chinese Tianshan: implication for the preservation of

- epithermal deposits in old orogenic belts. *Gondwana Research*, 97: 51–67.
- [5] Wang, Y.N., Cai, K.D.*, Sun, M., Xiao, W.J., De Grave, J., Wan, B., Bao, Z.H., 2018. Tracking the multi-stage exhumation history of the western Chinese Tianshan by Apatite Fission Track (AFT) dating: Implications for the preservation of epithermal deposits in the ancient orogenic belt. *Ore Geology Reviews*, 100: 111–132.
- [6] Wang, Y.N., Zhang, J.*, Zhang, B.H., Zhao, H. 2018. Cenozoic exhumation history of South China: A case study from the Xuefeng Mt. Range. *Journal of Asian Earth Sciences*, 151: 173–189.
- [7] Huang, X., Wang, Y.N.*, Zhang, J., Wu F.Z., Yang, Y.L. 2022. Low-temperature thermochronological insights into the Mesozoic-Cenozoic exhumation history of the Taihang-Lvliangshan region: A review. *Geological Journal*, 57: 1511–1529, DOI: 10.1002/gj.4352.
- [8] Wang, Y.N., Zhang, J.*, Qi, W.H., Guo, S., 2015. Exhumation history of the Xining Basin since the Mesozoic and its tectonic implications. *Acta Geologica Sinca (English Edition)*, 89: 145–162.
- [9] Wang, X.S., Wang, Y.N.*, Sun, M., Zhao, G.C., Cai, K.D., Liu, X.J., Li, Z.L., Zhang, Y.Y., Leppard, F., 2024. Transcrustal magmatic system in lamprophyre dyke constructed by multiple magma reservoirs. *American Mineralogist*, in press, <https://doi.org/10.2138/am-2023-9271>.
- [10] Wang, Y.N., He, Z.Y., Bian, K.*, Zhao, C.L., Chen, L., Dong, R., Zhang, J., Zhu, Z.Q., Liu, G., 2024. Tectonic controls on ore deposit exhumation and preservation: A case study of the Handan-Xingtai iron-skarn district. *Geoscience Frontiers*, 15: 101924, <https://doi.org/10.1016/j.gsf.2024.101924>.
- [11] Wang, Y.N., Chen, L., Zhang, J.*, Zhao, C.L., Zhao, H., Guo, W.M., Qu, J.F., Li, Y.J., 2024. Spatial and temporal exhumation of the northeastern China: insights from low temperature thermochronology. *Island Arc*, 31: e12351, 10.1111/iar.12541.
- [12] 王艳楠, 张进*, 陈必河, 王宗秀, 张义平. 2014. 雪峰山黔阳地区基性岩锆石 SHRIMP U-Pb 年龄及意义. *大地构造与成矿学*, 38 (3): 706–717.
- [13] 孙鹏飞, 赵强, 黄祥祥, 王艳楠*. 2019. 赋予地质信息的采空区三维联合反演, 34(6): 2315-2319.
- [14] 王艳楠*, 蔡克大. 2016. 中国西天山晚古生代以来的剥露作用及其对浅成低温热液矿床保存的影响. 中国地球科学联合学术年会论文集: 501 – 504.
- [15] 王艳楠*, 蔡克大, 包子鹤, 王祥松. 2017. 西天山吐拉苏盆地的埋藏和剥露: 对前中生代浅成低温热液矿床保存的启示意义. 中国地球科学联合学术年会论文集: 3892-3895.
- [16] 王艳楠*, 王振江. 2023. 西天山时空剥露与矿床保存. 第十届全国成矿理论与找矿方法学术讨论会论文摘要集: 63.
- [17] 王艳楠*, 赵存良. 2023. 低温热年代学在矿床保存中的应用——从个例研究到大数据. *新疆地质*, S1: 6.
- [18] 王艳楠*, 王振江, 吴复柱, 朱兆群, 郭文牧. 2023. 构造地质学“课程思政”的挖掘和融入. *科教导刊 (电子版)*, 27: 158-160.
- [19] 王艳楠*, 李颖超, 朱兆群. 2024. 研究生优质课程建设思考——以高等构造地质学为例. *科教导刊 (电子版)*, 19: 114-116.
- [20] Zhang, J., Wang Y.N., Zhang B.H., Qu J.F., Li J.Y., Yun L., Niu P.F., Zhao H., Hui Jie. 2021. Tectonothermal events in the Central North China Craton since the Mesozoic and their tectonic implications: Constraints from low-temperature thermochronology. *Tectonophysics*, 804:

228769, 10.1016/j.tecto.2021.228769.

- [21] Zhang, J., **Wang, Y.N.**, Qu, J.f., Zhang B.H., Zhao, H., Yun, L., Li, T.Y., Niu, P.F., Hui, J., Zhang, Y.P., 2021. Mesozoic intracontinental deformation of the Alxa Block in the middle part of Central Asian Orogenic Belt: A review. *International Geology Review*, 63 (12): 1–32.
- [22] Zhang, J., **Wang, Y.N.**, Zhang, B.H., Zhao, H., 2015. Evolution of the Qinghai-Tibetan Plateau, constrained by the apatite fission track ages of the mountain ranges around the Xining Basin in NW China. *Journal of Asian Earth Sciences*, 97: 10–23.
- [23] Zhang, J., **Wang, Y.N.**, Zhang, B.H., and Zhang, Y.P., 2016. Tectonics of the Xining Basin in NW China NW China and its implications for the evolution of the Qinghai-Tibetan Plateau. *Basin Research*, 28(2): 159–182, doi: 10.1111/bre.12104.
- [24] 徐芹芹, 赵磊, 王艳楠. 2025. 新疆东准噶尔晚古生代—中生代的剥露历史: 来自裂变径迹和 (U-Th) /He 热年代学的约束. 地质学报, 99: 1–18.
- [25] Zhang, J., Zhang, Y.P., Xiao, W.X., **Wang, Y.N.**, Zhang, B.H., 2015. Linking the Alxa Terrane to the eastern Gondwana during the Early Paleozoic: Constraints from detrital zircon U-Pb ages and Cambrian sedimentary records. *Gondwana Research*, 28: 1168–1182.
- [26] Wang, X.S., Cai, K.D., Sun, M., Xiao, W.J., Xia, X.P., Wan, B., Bao, Z.H., **Wang, Y.N.**, 2017. Two contrasting late Paleozoic magmatic episodes in northwestern Chinese Tianshan Belt, NW China: implication for tectonic transition from plate convergence to intra-plate adjustment during accretionary orogenesis. *Journal of Asian Earth Sciences*, 10.1016/j.jseaes.2017.03.013.
- [27] Zhang, B.H., Zhang, J., Zhang, Y.P., Zhao, H., **Wang, Y.N.**, Nie, F.J., 2016. Tectonic affinity of the Alxa Block, Northwest China: Constrained by detrital zircon U-Pb ages from the early Paleozoic strata on its southern and eastern margins. *Sedimentary Geology*, 339: 289–303.
- [28] Zhang, B.H., Zhang, J., **Wang, Y.N.**, Zhao, H., Li, Y.F., 2017. Late Mesozoic-Cenozoic exhumation of the Northern Hexi Corridor: Constrained by apatite fission track ages of the Longshoushan. *Acta Geologica Sinca (English Edition)*, 91(5): 1624–1643.
- [28] Zhang, Y.P., Zhang, J., Chen, X.H., **Wang, Y.N.**, Zhao, H., Nie, F.J., Zhang, B.H., 2016. Late Paleozoic tectonic setting of the southern Alxa Block, SW China: constrained by age and composition of diabase. *International Geology Review*, 10.1080/00206814.2016.1253036.
- [29] Bao, Z.H., Cai, K.D., Sun, M., Xiao, W.J., Wan, B., **Wang, Y.N.**, Wang, X.S., Xia, X.P., 2017. Continental crust melting induced by subduction initial of the South Tianshan Ocean: insight from the Latest Devonian granitic magmatism in the southern Yili Block, NW China. *Journal of Asian Earth Sciences*, 10.1016/j.jseaes.2017.04.026.
- [30] Zhang, J., Qu, J.f., Zhang, B.H., Zhao, H., **Wang, Y.N.**, and Lu, M.A., 2018. Paleozoic to Mesozoic deformation of eastern Cathaysia: A case study of the Chencai complex, Zhejiang Province, eastern China, and its tectonic implications. *GSA Bulletin*, 130 (1), 10.1130/B31680.1.
- [31] Yin, J.Y., Chen, W., Thomson, S.N., Sun, M., **Wang, Y.N.**, Xiao, W.J., Yuan, C., Sun, J.B., Long, X.P., 2019. Fission track thermochronology of the Tuwu-Yandong porphyry Cu deposits, NW China: Constraints on preservation and exhumation. *Ore Geology Reviews*, 113 (1): 103104.
- [32] Cui, X.Y., Zhao, Q.H., Zhang, J., **Wang, Y.N.**, Zhang, B.H., Nie, F.J., Qu, J.F., Zhang, H., 2018. Late Cretaceous-Cenozoic Multi-STtage denudation at the Western Ordos Block: constraints by the apatite fission track on the Langshan. *Acta Geologica Sinca (English Edition)*, 92 (2): 536-555.

- [33] Zhang, J., Li, J.Y., Xiao, W.J., **Wang, Y.N.**, Qi, W.H., 2013. Kinematic and geochronology of multistage ductile deformation along the eastern Alxa block, NW China: New constraints on the relationship between the North China Plate and Alxa block. *Journal of Structural Geology*, 57: 38-57.
- [34] Zhang, J., Qu, J.F., Zhang, B.H., Niu, P.F., Zhao, S., Hui, J., Yun, L., Nie, F., **Wang, Y.N.**, 2020. Mesozoic intraplate deformation of the central North China Craton: Mechanism and tectonic setting. *Journal of Asian Earth Sciences*, 104269.
- [35] Zhang, B.H., Zhang, J., Zhao, H., Nie, F.J., **Wang, Y.N.**, and Zhang, Y.P., 2018. Tectonic evolution of the western Ordos Basin during the Paleozoic-Meozoic time as constrained by detrital zircon ages. *International Geology Review*, 10.1080/00206814.2018.1431963.
- [36] Wu, F.Z., **Wang, Y.N.**, Shi, S.Q., Zhu, Z.Q., 2021. Height of interconnected fracture zone based on the impact of rock fragmentation and bulking. *Energy Exploration & Exploitation*, DOI: 10.1177/014498720973396.
- [37] Wang, H.R., Cai, K.D., Sun, M., **Wang, Y.N.**, Lai, C.K., and Wan, B., 2021. Magma evolution and Cu-Au mineralization potential of the Upper Devonian-Lower Carboniferous Tulasu basin, Western Tianshan Orogen (NW China): Apatite U-Pb dating and geochemical perspectives. *Ore Geology Reviews*, 139: 104526.
- [38] Zhao, H., Zhang, J., Zhang, B.H., Qu, J.F., Zhang, Y.P., Niu, P.F., Hui, J., and **Wang, Y.N.**, 2022. Structures and chronology of the Yabrai shear zone in the Alxa, NW China: Constraints on the late Paleozoic shear system in central segment of the Central Asian Orogenic Belt. *Journal of Structural Geology*, 158: 104575.
- [39] Nie, F.J., Yan, Z.B., **Wang, Y.N.**, Zhang, J., Xia, F., Yang, D.Y., Wang, S.L., Chen, M.Y., Peng, Y.B., Miao, A.S., 2021. Intracontinental deformation of the western Ordos Basin in North China and sandstone-type uranium mineralization: Constraints from AFT chronology of the Helan Mountain. *Geological Journal*, 10.1002/gj.4249.
- [40] Wang, Z.J., Yao, Z.S., Jin, Z.M., **Wang, Y.N.**, 2023. Experimental Investigation on the Transport of Sulfide Driven by Melt-Rock Reaction in Partially Molten Peridotite. *Journal of Geophysical Research: Solid Earth*, 128, <https://doi.org/10.1029/2022JB026065>.
- [41] Wu, M.X., Yin, J.Y., He, Z.Y., Xiao, W.J., **Wang, Y.N.**, Chen, W., Wang, Y.M., Sun, J.B., Li, D.P., Meng, Y., 2023. Mesozoic Thermo-Tectonic Evolution of the Western Altai Orogenic Belt (NW China): Insights from Low-Temperature Thermochronology. *Lithosphere*, <https://doi.org/10.2113/2023/8161000>.
- [42] Zhang, Y.P., Chen, X.H., **Wang, Y.N.**, Zuza, A.V., Zhang, J., Li, B., Wang, Y.C., Wang, Y., Liu, K., Han, L.L., Zhang, B.H., Zhao, H., 2023. Multistage Strike-Slip Fault in the Narrowest Portion of the Qinling Orogen, Central China: Deformation Mechanism and Tectonic Significance. *Lithosphere*, <https://doi.org/10.2113/2023/8161000>.
- [43] 张进, 曲军锋, 刘建峰, 王艳楠, 赵衡, 赵硕, 张北航, 郑荣国, 云龙, 杨亚琦, 牛鹏飞. 2021. 中亚造山带东段西伦木构造带的性质与演化: 来自变形和低温热年代学的约束. *沉积与特提斯地质*, 41 (2): 190-217.
- [44] 赵衡, 张进, 曲军锋, 张北航, 牛鹏飞, 惠洁, 云龙, 李岩峰, 王艳楠, 张义平. 2019. 阿拉善地块东缘新生代中新世挤压变形及动力学背景. *地球科学*. Doi: 10.3799/dqkx, 2019.126.
- [45] 张义平, 肖文霞, 张进, 张北航, 赵衡, 王艳楠. 2015. 河西走廊东部香山群时代和物源讨论. *中国地质*, 42 (6): 1774-1792.

- [46] 赵衡, 张进, 王艳楠, 张北航. 2017. 黑龙江科洛杂岩变形特征、阶段和意义. *大地构造与成矿学*, 41 (4): 617-637.
- [47] 赵衡, 张进, 李岩峰, 曲军峰, 张北航, 牛鹏飞, 张义平, 王艳楠. 2019. 正断层的分区构造及生长机制:以狼山山前断层带为例. *地质学报*, 93 (7): 1601-1617.
- [48] 赵衡, 张进, 曲军峰, 张北航, 牛鹏飞, 惠洁, 云龙, 李岩峰, 王艳楠, 张义平. 2020. 阿拉善地块东缘新生代中新世挤压变形及动力学背景. *地球科学*, 45 (4):1-29.
- [49] 聂逢君, 张进, 严兆彬, 王艳楠, 李满根, 夏菲, 朱成华, 王思力, 胡鉴. 2018. 卫境岩体磷灰石裂变径迹年代学与华北北缘晚白垩世剥露事件及铀成矿. *地质学报*, 92 (2): 313-329.
- [50] 张北航, 张进, 曲军峰, 赵衡, 王艳楠, 李锦轶, 牛鹏飞, 赵硕, 郑荣国, 李岩峰, 云龙, 张义平, 惠洁. 2021. 吕梁山——华北克拉通中部中生代基底卷入褶皱系统. *地球科学*, 46 (7): 2423-2448.
- [51] 赵衡, 张进, 李岩峰, 曲军峰, 张北航, 张义平, 云龙, 王艳楠. 2019. 内蒙古狼山地区新生代断层活动特征: 对正断层生长的限定. *中国地质*, 46 (6): 1433-1453.
- [52] 罗栋, 王艳楠. 2013. 我国金矿资源现状与找矿方向. *资源与产业*, 15 (4): 51-57.

四、获奖情况:

- (1) 河北省自然科学奖, 2024 年, 中国北方造山带陆内造山作用与矿床保存, 排名 1
- (2) 全国煤炭行业教学成果奖, 2024 年, “有组织教学”在地质类研究生培养中的探索与应用, 排名 2