Dr. Zhibin Lei | 雷志斌 博士

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Education

2022 Ph.D. • Earth Science (Geodynamics) Cardiff University, UK

2017 M.S. • Geology China University of Petroleum, Beijing, China University of Petrol

Research output

Lei, Z., Davies, J.H., 2023. Progressive weakening within the overriding plate during dual inward dipping subduction. Tectonophysics 230004. https://doi.org/10.1016/j.tecto.2023.230004

Wang, J., Gleeson, M., Smith, W. D., Ma, L., Lei, Z., Shi, G., & Chen, L. 2022. The factors controlling along-arc and across-arc variations of primitive arc magma compositions: A global perspective. Frontiers in Earth Science, 10, 1055255. https://doi.org/10.3389/feart.2022.1055255

Lei, Z. 2022. Numerical investigation of the influence of subduction on deformation within the overriding plate. PhD Thesis, Cardiff University. https://orca.cardiff.ac.uk/id/eprint/152759

Bai, D., Yang, M., Lei, Z., & Zhang, Y. 2020. Effect of tectonic evolution on hydrocarbon charging time: A case study from Lower Shihezi Formation (Guadalupian), the Hangjinqi area, northern Ordos. Journal of Petroleum Science and Engineering, 184, 106465. https://doi.org/10.1016/j.petrol.2019.106465

罗晓华, 杨明慧, 贾春阳, 李占元, 雷志斌, 张少华. 2019. 晋北地区口泉断裂带晚中生代分段构造特征. 现代地质, 33(3), 551-560. https://10.19657/j.geoscience.1000-8527.2019.03.08

杨明慧, 张厚和, 廖宗宝, 罗晓华, **雷志斌**, 张少华, 张雨田, 李毅玮. 2017. 南海南沙海域沉积盆地构造演化与油气成藏规律. 大地构造与成矿学, 41(4), 710-720. https://doi:10.16539/j.ddgzyckx.2017.04.007

邓爱居, 张少华, 李凤群, 雷志斌, 黄志佳, 李其瑞, 李运娥. 2017. 饶阳凹陷肃宁地区新生代断裂活动及其 对 油 气 成 藏 的 控 制 作 用 . 油 气 地 质 与 采 收 率 , 24(3), 18-24. https://10.13673/j.cnki.cn37-1359/te.2017.03.003

雷志斌, 杨明慧, 张厚和, 廖宗宝, 张少华, 罗晓华. 2016. 南沙海域南部第三纪三角洲演化与油气聚集. 海相油气地质, 21(4), 21-33. https://doi:10.3969/j.issn.1672-9854.2016.04.003

Awards

2021 • EGU • The Virtual Outstanding Student and PhD candidate Presentation (vOSPP) Award [link] [poster]

Skills

Coding: Experienced in a) designing and running numerical simulations on high-performance computing (HPC); b) post-processing and visualizing large dataset. Fluidity, Paraview, Python, Jupyter, vtk, GMT, PyGMT etc. are some code or software I have rich experience with, and I am always happy to explore new research tools.

Talks & Presentations

2022 • Ada Lovelace Workshop on Numerical Modelling of Mantle and Lithosphere Dynamics • *Progressive weakening within the overriding plate during dual inward dipping subduction* [slides] [recording]

Outreach & Services

2023 • EGU Geodynamics blog editor, edited blogs can be found at https://blogs.egu.eu/divisions/gd/author/lei/.