# 陈杰

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## 工作经历

2022.08-现在 博士后,巴黎西岱大学-巴黎地球物理学院(IPGP)

研究课题:全球洋中脊热结构数值模拟

合作导师: Mathilde Cannat 和 Jean-Arthur Olive

2022.01-2022.07 研究助理, 自然资源部第二海洋研究所

研究课题: 北极 Gakkel 洋中脊微地震定位(JASMInE 航次)

合作者: 李家彪院士和张涛研究员

## 教育背景

2018.09-2021.12 博士(海洋地球物理), IPGP, 巴黎西岱大学

论文标题:慢速-超慢速扩张洋中脊上岩浆供给对断层分布、火山作用

以及热结构的影响.

论文导师: Mathilde Cannat, Wayne. C. Crawford, Jean-Arthur Olive

2015.07-2018.08 硕士(海洋地球物理),自然资源部第二海洋研究所

论文标题:西南印度洋脊 Indomed 和 Gallieni 间(46°-52°E)分段性及

岩浆供给研究

论文导师: 陶春辉、张涛、李怀明

2011.08-2015.06 本科(勘查技术与工程专业),中国海洋大学-海洋地球科学学院

#### 研究兴趣

洋中脊 热液循环系统 慢速-超慢速扩张洋中脊 海底火山活动

岩浆和构造过程 地震活动 水下自动机器人(AUV) 数值模拟

# 发表论文

- 1. **Chen J,** Olive J.A, and Cannat M (2023). Beyond Spreading Rate: Controls on the Thermal Regime of Mid-Ocean Ridges. *PNAS*. <a href="https://www.pnas.org/doi/10.1073/pnas.2306466120">https://www.pnas.org/doi/10.1073/pnas.2306466120</a>.
- 2. **Chen J,** Crawford W. C, and Cannat M (2023). Microseismicity and lithosphere thickness at a nearly-amagmatic oceanic detachment fault system. *Nature Communications*. https://doi.org/10.1038/s41467-023-36169-w.
- 3. Chen J, Zhang T, Li H, Tao C, Cannat M, and Sauter D (2023). Evolution of enhanced

- magmatism at the ultraslow spreading Southwest Indian Ridge between 46°E and 53.5°E. *Tectonophysics*. <a href="https://doi.org/10.1016/j.tecto.2023.229903">https://doi.org/10.1016/j.tecto.2023.229903</a>.
- 4. **Chen J,** Zhang T, Tominaga M, Escartin J, and Kang R (2023). Ocean Sciences with the Spilhaus Projection: A Seamless Ocean Map for Spatial Data Recognition. *Scientific Data*. https://doi.org/10.1038/s41597-023-02309-6.
- 5. Tao C, Guo Z, Liang J, Ding T, Yang W, Liao S, Chen M, Zhou F, **Chen J**, Wang N, Liu X, Zhou J (2023). Sulfide metallogenic model for the ultraslow-spreading Southwest Indian Ridge. *Science China Earth Sciences*. https://doi.org/10.1007/s11430-023-1108-7.
- 6. **Chen J,** Olive J.A, and Cannat M. (2022) Thermal Regime of Slow and Ultraslow Spreading Ridges Controlled by Melt Supply and Modes of Emplacement. *Journal of Geophysical Research:* Solid Earth. https://doi.org/10.1029/2021JB023715.
- 7. **Chen J,** Cannat M, Tao C, Sauter D, and Munschy M. (2021). 780 thousand years of upper-crustal construction at a melt-rich segment of the ultraslow spreading Southwest Indian Ridge 50°28'E. *Journal of Geophysical Research: Solid Earth*. <a href="https://doi.org/10.1029/2021JB022152">https://doi.org/10.1029/2021JB022152</a>.
- 8. Ding T, Wang J, Tao C, Dias Á.A, Liang J, Wang Y, Chen J. et al. (2021). Trace-element compositions of sulfides from inactive Tianzuo hydrothermal field, Southwest Indian Ridge: Implications for ultramafic rocks hosting mineralization. *Ore Geology Reviews*. <a href="https://doi.org/10.1016/j.oregeorev.2021.104421">https://doi.org/10.1016/j.oregeorev.2021.104421</a>.
- 9. Ding T, Tao C, Dias Á.A, Liang J, **Chen J.** et al. (2021). Sulfur isotopic compositions of sulfides along the Southwest Indian Ridge: implications for mineralization in ultramafic rocks. *Mineralium Deposita*. https://doi.org/10.1007/s00126-020-01025-0.
- 10. Li, H, Tao, C, Yue, X, Baker, E.T, Deng, X, Zhou, J, Wang, Y, Zhang, G, **Chen, J.** et al. (2020). Enhanced hydrothermal activity on an ultraslow-spreading supersegment with a seismically detected melting anomaly. *Marine Geology*. <a href="https://doi.org/10.1016/j.margeo.2020.106335">https://doi.org/10.1016/j.margeo.2020.106335</a>.
- 11. **Chen J**, Tao C, Liang J, et al, (2018). Newly discovered hydrothermal fields along the ultraslow-spreading Southwest Indian Ridge around 63°E. *Acta Oceanologica Sinica*. <a href="https://doi.org/10.1007/s13131-018-1333-y">https://doi.org/10.1007/s13131-018-1333-y</a>.

## 学术会议

- 1. **Chen J**, Cannat M, and Olive JA. Beyond Spreading Rate: Controls on the Thermal Regime of Mid-Ocean Ridges. Ocean Floor Symposium, 2022.
- 2. **Chen J**, Li J, Zhang T, Niu X, Ding W, and the Jasmine team. OBS-Recorded Microseismicity at the Slowest Spreading Gakkel Ridge 85°E, Arctic Ocean. AGU, 2022.
- 3. Cannat M, Chen J, and Olive JA. Beyond Spreading Rate: Controls on the Thermal Regime of Mid-Ocean Ridges. AGU, 2022.
- 4. Cannat M, **Chen J**, and JA Olive. The thermal regime of mid-ocean ridges: geological perspectives and numerical modelling. EGU, 2022.
- 5. **Chen J**, Crawford W C, and Cannat M. Microseismicity constraints on brittle lithosphere thickness at a nearly amagmatic spreading corridor of the ultraslow Southwest Indian Ridge. AGU, 2020.
- 6. **Chen J**, Cannat M, and Tao C. 780-thousand years of volcanic seafloor accretion at a melt-rich segment of the ultraslow-spreading Southwest Indian Ridge 50°28'E. AGU, 2019.
- 7. **Chen J**, Li H, Zhang T, et al, Characteristics and mechanisms of magma supply along Southwest Indian Ridge between 46°E and 52.3°E. CGU, 2017.

#### 激请报告

2022.06 自然资源部第二海洋研究所-海底科学重点实验室

2021.09 南方科技大学-海洋科学与工程系

2021.06 巴黎西岱大学-巴黎地球物理学院

### 出海经历

法国 Pourquoi Pas 号, Momarsat19 航次, 大西洋, 2019 年 7 月中国雪龙号, 太平洋海试, 2017 年 7 月

## 获得资助

2018-2021 中国国家留学基金委员会(CSC)

## 学生指导

苏道鑫硕士(2022.01-2022.12, 自然资源部第二海洋研究所)闫凯宣硕士(2022.01-2024.06, 自然资源部第二海洋研究所)

### 相关技能及其他

工作技能: GMT, Global Mapper, MATLAB, ArcGIS, Bash shell, Python, SEISAN, 云计算,

Obspy, Seismic Unix, 机器学习-海底断层识别

语言:英语(流利)、法语(初级)和中文(母语)

爱好:中国武术-梅花桩