

导师简介: 钟雨, 男, 博士, 讲师, 硕士生导师, 主要从事地震波反演成像、信号分析与处理、人工智能、图像处理等方面的研究工作。近几年来, 作为负责人或主要参与人主持、参与了湖北省重点实验室、中石化等多项课题研究, 在国内外重要学术刊物上发表论文 19 余篇, 获得国家授权发明专利 2 项。

研究方向: 地震波反演成像、数值计算方法、信号分析与处理、人工智能、图像处理等

教授课程: 模拟电子技术基础、数字电子技术基础等

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主持、参与的科研项目:

- 1、基于镜像原理的一阶表面多次波和反射波叠前联合逆时偏移方法研究, 地球内部多尺度成像湖北省重点实验室, 主持, 结题。
- 2、高效稳定的起伏地表多分量地震逆时偏移方法研究, 湖北汽车工业学院博士启动资金, 主持, 在研。
- 3、高精度弹性波最小二乘逆时偏移方法研究, 长江大学油气资源与勘探技术教育部重点实验室开放基金, 主持, 在研。

学术论文:

- [1] **Zhong Yu**, Gu Hanming*, Liu Yangting, Mao Qinghui, 2022-06-08. A new joint reverse time migration method to improve vertical seismic profile image quality. *Journal of Petroleum Science and Engineering*, 214. 1-13. SCI. IF=5.168, JCR, Q1.
- [2] **Zhong Yu**, Gu Hanming, Liu Yangting *, Mao Qinghui, 2022-03-13. Elastic least-squares reverse time migration based on decoupled wave equations. *Geophysics*, 86(6), S371-S386. SCI. IF= 3.264, JCR, Q2.
- [3] **Zhong Yu**, Liu Yangting*, 2019-09-04. Source-independent time-domain Vector-acoustic full-waveform inversion. *Geophysics*, 84(4), R489-R505. SCI. IF= 3.264, JCR, Q2.
- [4] **Zhong Yu**, Gu Hanming*, Liu Yangting, Luo Xia, Mao Qinghui, 2022-10-10, Elastic reverse time migration method in vertical transversely isotropic media including surface topography. *Geophysical Prospecting*, 70(9), 1528-1555. SCI. IF=2.035, JCR, Q3.
- [5] **Zhong Yu**, Gu Hanming*, Liu Yangting, Xu Kai, Mao Qinghui, 2022-07-22. Elastic full waveform inversion based on decoupled wave equations. *Journal of Applied Geophysics*, 204,1-10. SCI. IF= 1.845, JCR, Q3.
- [6] **Zhong Yu***, Liu Yangting, Luo Xin, 2019-09-11. Elastic reverse time migration in VTI media based on the acoustic wave equations. *Journal of Applied Geophysics*, 168,128-138. SCI. IF= 1.845, JCR, Q3.
- [7] **Zhong Yu***, Liu Yangting, Gu Hanming, Mao Qinghui, 2022-08-19. A new elastic least squares reverse-time migration method based on the new gradient equations. *Acta Geophysica*, 70(6), 2733-2746. SCI. IF=2.293, JCR, Q3.
- [8] **Zhong Yu**, Gu Hanming, Liu Yangting*, Mao Qinghui, 2022-01-22. Elastic Reverse-Time Migration with Complex Topography. *Energies*, 14(23), 1-19. SCI. IF= 3.252, JCR, Q3.
- [9] **Zhong Yu**, Liu Yangting *, 2019-04-12. Time-domain acoustic full-waveform inversion based on dual-sensor seismic acquisition system. *Journal of Seismic Exploration*, 28(2),103-120. SCI. IF=0.279, JCR, Q4.

[10] **Zhong Yu**, Liu Yangting*, 2018-12-28. Some improvement strategies for the time-domain dual-sensor full waveform inversion. *Arabian Journal of Geosciences*, 11(13),1-11. SCI. IF=1.827, JCR, Q3.

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[12] Liu Yangting*, **Zhong Yu**, 2021-05-21. Machine Learning-based Seafloor Seismic Prestack Inversion. *IEEE Transactions on Geoscience and Remote Sensing*, 59(5), 4471-4480. SCI. IF=8.125, JCR, Q1.

[13] Liu Yangting*, **Zhong Yu**, Liu Kai, Hua QingFeng, 2020-03-25. Seafloor Elastic Parameters Estimation Based on a Regularized AVO Inversion Method. *Marine Geophysical Research*, 41(1), 1-11. SCI. IF=2.5, JCR, Q3.

[14] Mao Qinghui*, Azeem Tahir, Gui Zhixian, Wang Peng, **Zhong Yu**, 2022-04-29. A Novel Polarity Correction Method Developed on Cross Correlation Analysis for Downhole Migration-Based Location of Microseismic Events. *Energies*, 15(8), 1-15. SCI. IF= 3.252, JCR, Q3.

[15] Mao Qinghui, Azeem Tahir, Zhang Xuliang, **Zhong Yu**, Fang Yuan, Zhang Yunxiao, 2020-10-12. A migration-based location method using improved waveform stacking for microseismic events in a borehole system. *Acta Geophysica*, 68(6), 1609-1618. SCI. IF=2.293, JCR, Q3.

[16] Establishing a Robust Model Using Stacked Generalization for Gas Identification of Coal-Bearing Strata in the A Block, Northeastern Ordos Basin, China. *SPE Journal*, SCI. 2023, 排名第四, 待刊。

[17] 边缘保真去噪时窗分解新方法,《科学技术与工程》,中文核心,2015, **钟雨**, 熊晓军, 林华伟, 贺振华。

[18] 基于流体替换的地震波场数值模拟与分析技术,《科学技术与工程》,中文核心,2015, 吕文正, 熊晓军, 吕文彪, **钟雨**。

[19] 基于成像函数优化的井中微震波形叠加定位方法,《石油地球物理物探》,EI,2023,排名第四,待刊。

授权国家发明专利:

[1] 一种基于实际地震资料的交错网格波动方程正演的方法,国家授权发明专利,2018, **钟雨**, 阎建国, 李远娟, 吴杰, 刘海波, 闫小伟, 徐松。

[2] 一种基于波动方程正演去除直达波的方法,国家授权发明专利,2018, 阎建国, **钟雨**, 吴杰, 李远娟, 闫小伟, 刘海波, 徐松。