

Prof. Dapeng Zhao (趙大鵬)

Total SCI citations > 31,170; H-index = 91 (Google Scholar)

Selected Peer-Reviewed SCI Publications by October 2023

2023

- Zhao, D., X. Liu, Z. Wang, T. Gou (2023). Seismic anisotropy tomography and mantle dynamics. *Surveys in Geophysics* **44**, 947-982.
- Zhao, D., J. Wang, Z. Huang, X. Liu, Z. Wang (2023). Seismic anisotropy and geodynamics of the East Japan subduction zone. *Journal of Geodynamics* **156**, 101975.
- Jia, R., D. Zhao (2023). Anisotropic tomography of the East Japan subduction zone: influence of inversion algorithms. *Geophys. J. Int.* **234**, 2199-2213.
- Hua, Y., D. Zhao, Y. Xu (2023). P and S wave anisotropic tomography of the Banda subduction zone. *Geophys. Res. Lett.* **50**, e2023GL105611.
- Wang, Z.W., D. Zhao, X. Chen (2023). Fine structure of the subducting slab and the 2022 M7.4 Fukushima-Oki intraslab earthquake. *Seismol. Res. Lett.* **94**, 17-25.
- Hu, H., D. Zhao, J. Lin, S. Pilia (2023). A slab window beneath North Sumatra revealed by P-wave mantle tomography. *J. Geophys. Res.* **128**, e2022JB025976.
- Fan, J., D. Zhao, C. Li, D. Dong (2023). Detached Pacific slab beneath the Philippine Sea plate and its geodynamical implications. *Geochem. Geophys. Geosyst.* **24**, e2023GC010883.
- Du, M., J. Lei, D. Zhao (2023). New seismic constraints on arc magmatism and subduction dynamics beneath the Japan Islands from Sn tomography. *J. Asian Earth Sci.* **256**, 105802.
- Yan, D., Y. Tian, D. Zhao, H. Li (2023). Seismicity and magmatic system of the Changbaishan intraplate volcano in East Asia. *J. Geophys. Res.* **128**, e2023JB026853.
- Quan, W., X. Liu, D. Zhao, S. Li (2023). Seismic evidence for slab detachment beneath the Taiwan Orogen. *Earth Planet. Sci. Lett.* **610**, 118131.
- Xie, F., Z. Wang, D. Zhao, R. Gao, X. Chen (2023). Seismic imaging of the Java subduction zone: New insight into arc volcanism and seismogenesis. *Tectonophysics* **854**, 229810.

- Li, J., Y. Tian, **D. Zhao**, D. Yan, Z. Li, H. Li (2023). Magmatic system and seismicity of the Arxan volcanic group in Northeast China. *Geophys. Res. Lett.* **50**, e2022GL101105.
- Li, H., Y. Tian, **D. Zhao**, R. Kumar, H. Li, D. Yan, C. Liu (2023). Shear-wave tomography of the Changbai volcanic area in NE China derived from ambient noise and seismic surface waves. *J. Asian Earth Sci.* **258**, 105482.
- Xi, J., G. Jiang, **D. Zhao**, G. Zhang, L. She, Q. Lü, D. Shi (2023). Hot mantle upwelling and Mesozoic mineralization in Southeast China. *J. Asian Earth Sci.* **258**, 105648.
- Xia, S., J. Lin, **D. Zhao**, J. Cao, C. Zhang, X. Wang, K. Wan, C. Fan (2023). The 4 January 2020 offshore Pearl River Estuary earthquake sequence in South China: Implications for seismic potential of the NW-striking local faults. *J. Asian Earth Sci.* **258**, 105697.
- Di Stefano, R., M. Ciaccio, P. Baccheschi, **D. Zhao** (2023). The Adriatic thrust fault of the 2021 seismic sequence estimated from accurate earthquake locations using *sP* depth phases. *Bull. Seismol. Soc. Am.* **113**, 480-493.
- She, L., G. Zhang, G. Jiang, **D. Zhao**, J. Xi, Q. Lu, D. Shi (2023). Slab morphology around the Philippine Sea: New insights from P-wave mantle tomography. *J. Geophys. Res.* **128**, e2022JB024757.
- Serrano, I., M. Dengra, F. Almendros, F. Torcal, **D. Zhao** (2023). Seismic anisotropy tomography beneath La Palma in the Canary Islands, Spain. *J. Volcanol. Geotherm. Res.* **441**, 107870.
- Sano, Y., T. Kagoshima, M. Zhang, N. Takahata, T. Onoue, T. Shibata, Y. Nishio, A. Chen, H. Lee, T. Fischer, **D. Zhao** (2023). Older magma at Aso caldera than at Unzen stratovolcano in southwest Japan as recorded through helium isotopes. *Commun. Earth Environ.* **4**, 2.

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- Zhao, D.**, Y. Katayama, G. Toyokuni (2022). The Moho, slab and tomography of the East Japan forearc derived from seafloor S-net data. *Tectonophysics* **837**, 229452.
- Huang, Z., **D. Zhao** (2022). Seismotectonics of Mongolia and Baikal rift zone controlled by lithospheric structures. *Geophys. Res. Lett.* **49**, e2022GL099525.
- Yu, Z., **D. Zhao**, J. Li (2022). Structure and dynamics of the Tonga subduction zone: New insight from P-wave anisotropic tomography. *Earth Planet. Sci. Lett.* **598**, 117844.
- Toyokuni, G., **D. Zhao**, K. Kurata (2022). Whole-mantle tomography of Southeast Asia: New insight into plumes and slabs. *J. Geophys. Res.* **127**, e2022JB024298.

- Wang, Z.W., **D. Zhao**, X. Chen (2022). Seismic anisotropy and intraslab hydrated faults beneath the NE Japan forearc. *Geophys. Res. Lett.* **49**, e2021GL097266.
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- Liang, X., **D. Zhao**, Y. Xu, Y. Hua (2022). Anisotropic tomography and dynamics of the big mantle wedge. *Geophys. Res. Lett.* **49**, e2021GL097550.
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- Wei, W., **D. Zhao**, W. Yu, Y. Shi (2022). Complex patterns of mantle flow in eastern SE Asian subduction zones inferred from P-wave anisotropic tomography. *J. Geophys. Res.* **127**, e2021JB023366.
- Wang, Z.W., **D. Zhao**, X. Chen, R. Gao (2022). Subducting slabs, Hainan plume and intraplate volcanism in SE Asia: Insight from P-wave mantle tomography. *Tectonophysics* **831**, 229329.
- Wang, X., **D. Zhao**, S. Xia, J. Li (2022). Mantle structure and flow beneath the central-western US: Constraints from anisotropic tomography. *Tectonophysics* **822**, 229180.
- Yang, Z., **D. Zhao**, B. Cheng, Y. Dong (2022). Structural control on the 2019 Ridgecrest earthquake from local seismic tomography. *Phys. Earth Planet. Inter.* **324**, 106853.
- Yang, Z., **D. Zhao**, Y. Dong, B. Cheng (2022). Crustal flow and fluids affected the 2021 M7.4 Maduo earthquake in Northeast Tibet. *J. Asian Earth Sci.* **225**, 105050.
- Yan, D., Y. Tian, **D. Zhao**, H. Li (2022). Thermal and rheological structure of lithosphere beneath Northeast China. *Tectonophysics* **840**, 229560.
- Du, M., J. Lei, **D. Zhao**, H. Lu (2022). Pn anisotropic tomography of Northeast Asia: New insight into subduction dynamics and volcanism. *J. Geophys. Res.* **127**, e2021JB023080.
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- Li, H., Y. Tian, **D. Zhao**, D. Yan (2022). Anatomy of large earthquakes in North China. *J. Asian Earth Sci.* **237**, 105342.

- Yu, Y., F. Tilmann, **D. Zhao**, S. Gao, K. Liu (2022). Continental break-up under a convergent setting: Insights from P wave radial anisotropy tomography of the Woodlark rift in Papua New Guinea. *Geophys. Res. Lett.* **49**, e2022GL098086.
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- Lin, J., S. Xia, X. Wang, **D. Zhao**, D. Wang (2022). Seismogenic crustal structure affected by the Hainan mantle plume. *Gondwana Res.* **103**, 23-36.
- Cheng, B., Y. Liu, Y. Dong, **D. Zhao**, Z. Yang, G. Zhang (2022). Northeastward expansion of the Tibetan Plateau: Seismic anisotropy evidence from shear-wave splitting measurements. *J. Asian Earth Sci.* **240**, 105430.

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- Wang, Z.W., **D. Zhao** (2021). 3D anisotropic structure of the Japan subduction zone. *Science Advances* **7**, eabc9620.
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- Liu, X., **Zhao, D.** (2021). Seismic evidence for a plume-modified oceanic lithosphere-asthenosphere system beneath Cape Verde. *Geophys. J. Int.* **225**, 872-886.
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- Park, J., T. Tsuru, G. Fujie, E. Hondori, T. Kagoshima, N. Takahata, **D. Zhao**, Y. Sano (2021). Seismic reflection images of possible mantle-fluid conduits and basal erosion in the 2011 Tohoku earthquake rupture area. *Frontiers in Earth Science* **9**, 687382.

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