

79 Prof. Pengda Zhao



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Education

B.A. Peking University, Beijing, China, 1952

M.A., Московский геологоразведочный институт, Moscow, Russia, 1957

Work Experience

Associate Professor, University of Science and Technology of China, 1960

Professor, University of Science and Technology of China, 1980

Research Interests

Mathematical geology

Services & Awards

1992 William Christian Krumbein Medal

Committee Responsibilities and Professional Activities

Academician of Chinese Academy of Sciences, 1993-present

Major Publications

- Wei, S., & Zhao, P. (2002). Theoretical study of statistical fractal model with applications to mineral resource prediction ☆. *Computers & Geosciences*, 28(3), 369-376.
- Wang, Y., Shen, W., & Zhao, P. (2008). Mrqp: a windows-based mixed-language program for mineral resource quantitative prediction. *Computers & Geosciences*, 34(11), 1631-1637.
- Shen, W., & Zhao, P. (2002). Multidimensional self-affine distribution with application in geochemistry. *Mathematical Geology*, 34(2), 109-123.
- Gao, H., Wang, J., & Zhao, P. (1996). The updated kriging variance and optimal sample design. *Mathematical Geology*, 28(3), 295-313.
- Zhao, P. (1992). Theories, principles, and methods for the statistical prediction of mineral deposits. *Mathematical Geology*, 24(6), 589-595.
- Chen, Y., & Zhao, P. (1998). Zonation in primary halos and geochemical prospecting pattern for the guilaizhuang gold deposit, eastern china. *Nonrenewable Resources*, 7(1), 37-44.
- Chen, Y., Zhao, P., Chen, J., & Liu, J. (2001). Application of the geo-anomaly unit concept in quantitative delineation and assessment of gold ore targets in western shandong uplift terrain, eastern china. *Natural Resources Research*, 10(1), 35-49.
- Zhao, P., Cheng, Q., & Xia, Q. (2008). Quantitative prediction for deep mineral exploration. *Journal of China University of Geosciences*, 19(4), 309-318.
- Zhang, S., Xia, Q., Zhao, P., & Gao, Y. (2008). Diversity of mineralization and spectrum of the

- gejiu superlarge tin-copper polymetallic deposit,yunnan,china. *Journal of China University of Geosciences*, 19(4), 363-370.
- Zhao, P., Chen, J., Chen, J., Zhang, S., & Chen, Y. (2004). "three-component" digital prospecting method: a new approach for mineral resources quantitative prediction and assessment. *Natural Resources Research*, 15(3), 245-252.
- Chi, S., Zhao, P., & Li, J. (2000). Application of gisto geo-anomaly-based delineation of mineral resources. *Journal of China University of Geosciences*, 11(2), 72-75.
- Xia, Q., Pengda, Z., & Zhang, S. (2003). Application of weights of evidence to mineral potential mapping of yujiacun ore field in northwest yunnan province, china. *Journal of China University of Geosciences*, 14(3), 269-273.
- Chen, J., Pengda, Z., & Ding, H. (2001). Theory of geological anomaly in remote sensing. *Journal of China University of Geosciences*, 12(2), 108-112.
- Zhao, P., Agterberg, F. P., & Jiang, Z. (1998). *Mathematical geology and geoinformatics*. Crc Press.
- Pengda, Z., & Chen, J. (2000). Discussion on nontraditional mineral resources. *Journal of China University of Geosciences*, 11(3), 21-25.
- Pengda, Z., & Chen, J. (2000). Important issues of sustainable development: research of nontraditional mineral resources. *Journal of China University of Geosciences*, 11(2), 3-7.
- Xia, Q., Zhao, P., Wang, X., & Zuo, R. . Coding of ore deposit: a new approach for digitization of mineralization information.
- Xia, Q., Zhao, P., Zuo, R., & Wang, X. . Diversity of mineralization in eastern yunnan province, china.
- Jin, Y., & Zhao, P. (1998). Three-dimensional geological environment simulation of submarine exhalative sediments. *Natural Resources Research*, 7(1), 45-51.
- Xinbiao, L., & Zhao, P. (1998). Geologic anomaly analysis for space-time distribution of mineral deposits in the middle-lower yangtze area, southeastern china. *Nonrenewable Resources*, 7(3), 187-196.
- Zhao, J., Zhao, P., & Chen, Y. (2016). Using an improved bemd method to analyse the characteristic scale of aeromagnetic data in the gejiu region of yunnan, china. *Computers & Geosciences*, 88(7), 132-141.