

# 1-8 Prof. Renguang Zuo

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## Education

B.A. Resource exploration engineering, China University of Geosciences, Wuhan, China, 2004

M.A. Mineral resource prospecting and exploration, China University of Geosciences, Wuhan, China, 2009

Ph.D. Geological resources and geological engineering, Beijing, China, 2013

## Work Experience

Lecturer, Associate Professor, Professor, China University of Geosciences, Wuhan, China, 2009.7-present

## Research Interests

Quantitative prediction and evaluation of mineral resources

## Committee Responsibilities and Professional Activities

Associate editor of 《Journal of Geochemical Exploration》、《Natural Resources Research》

## Major Publications

Wang, J., & Zuo, R. (2016). An extended local neighborhood gap statistic for identifying geochemical anomalies. *Journal of Geochemical Exploration*, 164, 86-93.

Zhang, Z., Zuo, R., & Cheng, Q. (2015). Geological features and formation processes of the makeng fe deposit, china. *Resource Geology*, 65(3), 266-284.

Wang, H., Cheng, Q., & Zuo, R. (2015). Spatial characteristics of geochemical patterns related to fe mineralization in the southwestern fujian province (china). *Journal of Geochemical Exploration*, 148, 259-269.

Wang, H., Cheng, Q., & Zuo, R. (2015). Quantifying the spatial characteristics of geochemical patterns via gis-based geographically weighted statistics. *Journal of Geochemical Exploration*, 157, 110-119.

Xu, G., Cheng, Q., Zuo, R., & Wang, H. (2015). Application of improved bi-dimensional empirical mode decomposition (bemd) based on perona-malik to identify copper anomaly association in the southwestern fujian (china). *Journal of Geochemical Exploration*, 164, 65-74.

Wang, Z., Zuo, R., & Zhang, Z. (2015). Spatial analysis of fe deposits in fujian province, china: implications for mineral exploration. *Journal of Earth Science*, 26(6), 813-820.

Zhang, Z., Zuo, R., & Cheng, Q. (2015). The mineralization age of the makeng fe deposit, south china: implications from u-pb and sm-nd geochronology. *International Journal of Earth Sciences*, 104(3), 663-682.

- Zhao, J., Zuo, R., Chen, S., & Kreuzer, O. P. (2014). Application of the tectono-geochemistry method to mineral prospectivity mapping: a case study of the gaosong tin-polymetallic deposit, gejiu district, sw china. *Ore Geology Reviews*, 71, 719-734.
- Zuo, R., Zhang, Z., Zhang, D., Carranza, E. J. M., Wang, H., & Zuo, R., et al. (2014). Evaluation of uncertainty in mineral prospectivity mapping due to missing evidence: a case study with skarn-type fe deposits in southwestern fujian province, china. *Ore Geology Reviews*, 71, 502-515.
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- Yuan, Z., Cheng, Q., Xia, Q., Yao, L., Chen, Z., & Zuo, R., et al. (2014). Spatial patterns of geochemical elements measured on rock surfaces by portable x-ray fluorescence: application to hand specimens and rock outcrops. *Geochemistry Exploration Environment Analysis*, 14(3), 265-276.
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- Zhang, D., Agterberg, F., Cheng, Q., & Zuo, R. (2014). A comparison of modified fuzzy weights of evidence, fuzzy weights of evidence, and logistic regression for mapping mineral prospectivity. *Mathematical Geosciences*, 46(7), 869-885.
- Zuo, R., Xia, Q., & Wang, H. (2013). Compositional data analysis in the study of integrated geochemical anomalies associated with mineralization. *Applied Geochemistry*, 28(28), 202-211.
- Zuo, R., Xia, Q., Zhang, D., Zuo, R., Xia, Q., & Zhang, D. (2013). A comparison study of the c–a and s–a models with singularity analysis to identify geochemical anomalies in covered areas. *Applied Geochemistry*, 33(6), 165-172.
- Zuo, R., Carranza, E. J. M., & Cheng, Q. (2012). Fractal/multifractal modelling of geochemical exploration data. *Journal of Geochemical Exploration*, 122, 1-3.
- Wang, G., Carranza, E. J. M., Zuo, R., Hao, Y., Du, Y., & Pang, Z., et al. (2012). Mapping of district-scale potential targets using fractal models. *Journal of Geochemical Exploration*, 122(11), 34-46.
- Zhao, J., Chen, S., Zuo, R., & Carranza, E. J. M. (2011). Mapping complexity of spatial distribution of faults using fractal and multifractal models: vectoring towards exploration targets. *Computers & Geosciences*, 37(12), 1958-1966.
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- Zuo, R. (2011). Decomposing of mixed pattern of arsenic using fractal model in gangdese belt, tibet, china. *Applied Geochemistry*, 26(3), S271–S273.