

**Current positions**

Director, Helmholtz Institute Freiberg for Resource Technology, HZDR (since 2011)

Adjunct Professor, University of Johannesburg (since 2009)

Previous positions (two selected)

South African Research Chair in Geometallurgy, University of Johannesburg (2008)

Professor of Geology, University of Johannesburg (2004-2007)

Scientific degree

PhD in Geology, Rand Afrikaans University (1996)

Recent research topics

geometallurgy, resource technology, resource analytics, economic geology, petrology, automated mineralogy

Awards, honors, memberships

South African Research Chair in Geometallurgy (2008); TWAS Award, Academy of Sciences of South Africa (2007), Waldemar E. Lindgren Award, Society of Economic Geology (2002); President Award, National Research Foundation of South Africa (2000)

Publications (5 most important)

- **M. Frenzel**, M.P. Ketris, **J. Gutzmer**, On the geological availability of germanium. *Min Dep* 49, 471-486 (2014) [doi:10.1007/s00126-013-0506-z](https://doi.org/10.1007/s00126-013-0506-z)
- **M. Frenzel**, **J. Kullik**, **M.A. Reuter**, **J. Gutzmer**, Raw material ‘criticality’—sense or nonsense? *J.Phys. D: Appl.Phys.*, 50, 123002 (2017). [doi:10.1088/1361-6463/aa5b64](https://doi.org/10.1088/1361-6463/aa5b64)
- **M. Kern**, **J. Kästner**, **R. Tolosana-Delgado**, T. Jeske, **J. Gutzmer**, The inherent link between ore formation and geometallurgy as documented by complex tin mineralization at the Hämmerlein deposit (Erzgebirge, Germany). *Min Dep* (2018). [doi:10.1007/s00126-018-0832-2](https://doi.org/10.1007/s00126-018-0832-2)
- **M. Kern**, **R. Möckel**, **J. Krause**, **J. Teichmann**, **J. Gutzmer**, Calculating the deportment of a fine-grained and compositionally complex Sn skarn with a modified approach for automated mineralogy. *Minerals Engineering* 116, 213-225 (2018) [doi:10.1016/j.mineng.2017.06.006](https://doi.org/10.1016/j.mineng.2017.06.006)
- L. Richter, L.W. Diamond, **P. Atanasova**, D. A. Banks, **J. Gutzmer**, Hydrothermal formation of heavy rare earth element (HREE)–xenotime deposits at 100° C in a sedimentary basin. *Geology* 46, 263-266 (2018) [doi:10.1130/G39871.1](https://doi.org/10.1130/G39871.1)