Rabea Ali Mohamed Ali
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Personal Information

Nationality	Egyptian
Sex	Male
Date of Birth.	18/11/1987
Marital Status.	Married

Education

2016-2020: Ph.D., Geology (Mineralogy and Petrology),
Beni-Suef University, Egypt.

Thesis: Neoproterozoic serpentinites and related rocks along Idfu-Mersa Alam road, Eastern Desert, Egypt.

2011-2015: MSc, Geology (Mineralogy & Petrology),
Beni-Suef University, Egypt.

Thesis: Mineralogy and Geochemistry of Egyptian Ilmenite Ores of Abu Ghalaga Area and their Suitability for Industrial Applications

2006-2009: BSc, Special Geology, Geology Dep., Beni-Suef University, Egypt.

Occupation

2010-2015: Demonstrator, Geology Dep., Beni-Suef University, Egypt.

2015-2020: Assistant lecturer, Geology Dep., Beni-Suef University, Egypt.

2020-2021: Lecturer, Geology Dep., Beni-Suef University, Egypt.

2021- to date: Lecturer, Faculty of Earth Sciences, Beni-Suef University, Egypt.

Duties

2010-2020: Leading practical tutorials of the following undergraduate courses:

- Geochemistry
- Mineralogy and Crystallography
- Petrology of Metamorphic and Igneous Rocks
- Mining Geology and Ore Dressing

2020-present: Teaching the following undergraduate theoretical courses:

- Geochemistry
- Mineralogy and Crystallography
- Petrology of Metamorphic and Igneous Rocks
- Ore Mineralogy
- Mineral Exploration

Scholarships and short visits

January 2018-January 2020: Ph.D. scholarship (joint supervision) at Department of Geological Sciences, Stockholm University, Stockholm, Sweden, including two short visits for Uppsala University (Sweden) and Oslo University (Norway) to make some analyses there.

Awards and Honors

2015: Outstanding graduate student Award, the 4th scientific conference for graduate students, Faculty of Science, Beni-Suef University.

Research Interest

- Petrology, mineralogy and geochemistry of igneous and metamorphic rocks.
- Hard rocks-related mineralization.
- Mantle oxidation state and its heterogeneity through time.
- Ultramafic rocks carbonation and nature and source of the carbonating fluids.

Publications

- Mohamed G. Shahien, Mohamed M.H. Khedr, Ayman E.Maurice,Ahmed A. Farghali, **Rabea A.M. Ali.** Synthesis of high purity rutile nanoparticles from medium-grade Egyptian natural ilmenite. Beni-Suef University Journal of Basic and Applied Sciences 4 (2015) 207- 213.

- **Ali, R.A.M.,** Pitcairn, I.K., Maurice, A.E., Azer, M.K., Bakhit, B.R., Shahien, M.G., 2020. Petrology and geochemistry of ophiolitic ultramafic rocks and chromitites across the Eastern Desert of Egypt: Insights into the composition and nature of a

Neoproterozoic mantle and implication for the evolution of SSZ system. Precambrian Research 337, 105565.

- **Ali, R.A.M.,** Maurice, A.E., Pitcairn, I.K., Ahmed, A.H., Azer, M.K., Boskabadi, A., Bakhit, B.R., Shahien, M.G., 2020. Neoproterozoic and Cretaceous mantle oxidation states: Controls and heterogeneity through time. Lithos 356–357, 105375.

- Boskabadi, A., Kluge, T., Pitcairn, I., **Ali, R.,** Azer, M., Maurice, A., Stern, R., Bakhit, B., Shahien, M., Zoheir B., 2020. Temperatures of Neoproterozoic Regional Carbonate Alteration in the Eastern Desert of Egypt. EGU General Assembly Conference Abstracts, 18336.

- **Ali, R.A.M.,** Mobarak, M., Badawy, A.M., Lima E.C., Seliem, M.K., Ramadan, H.S., 2021. New insights into the surface oxidation role in enhancing Congo red dye uptake by Egyptian ilmenite ore: Experiments and physicochemical interpretations. Surfaces and Interfaces, Article no. 101316. https://doi.org/10.1016/j.surfin.2021.101316.

- Mobarak, M., **Ali, R.A.M.,** Seliem, M.K., Chitosan/activated coal composite as an effective adsorbent for Mn(VII): Modeling and interpretation of physicochemical parameters. International Journal of Biological Macromolecules 186 (2021) 750–758.

- Ramadan, H.S., **Ali, R.A.M.,** Mobarak, M., Badawi, M., Selim, A.Q., Mohamed, E.A., Bonilla-Petriciolet, A., Seliem, M.K., One-step fabrication of a new outstanding rutile TiO2 nanoparticles/anthracite adsorbent: Modeling and physicochemical interpretations for malachite green removal. Chemical Engineering Journal 426, Article no. 131890. https://doi.org/10.1016/j.cej.2021.131890.

Important Links

ResearchGate: https://www.researchgate.net/profile/Rabea-Ali-2.
Google Scholar: https://scholar.google.com/citations?hl=en&user=z4-Dz4gAAAAJ
ORCID ID. https://orcid.org/0000-0001-8472-6439.
Scopus: https://www.scopus.com/authid/detail.uri?authorId=57212241209.

References

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Iain K. Pitcairn Senior lecturer in Ore Geology,
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