

Reza Fahim Guilany

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Education

- 2023 - Ph.D. student in Chemistry,
in the Biogeochemistry Group, Microcosm Earth Center,
University of Marburg and Max Planck Institute
for Terrestrial Microbiology, Marburg, Germany
- 2009 - 2012: Islamic Azad University, Lahijan, Iran
MSc. in Geology - Petrology
Master Thesis: Petrology and Geochemistry of the Eastern Imam Zadeh-
Hashim Intrusive Rock Bodies (south of Guilan). (GPA: 17.62/20)
- 2004 – 2009: Islamic Azad University, Lahijan, Iran
BSc. in Mining Engineering
(GPA: 14,88/20)

Work Experience

- 2014 – 2023: University Lecturer, Kooshyar Higher Education Institute, Rasht, Iran
- 2012 – 2014: Geology expert, Geological Survey of Iran, Guilan Department.

Research interests

- Volcanology
- Pyroclastic Rocks
- Geochemistry
- Biogeochemistry
- Environmental Microbiology
- Extreme Environments
- Microbial Ecology

Publications

1. **Fahim Guilany, R.**, Salavati, M (2012), Effects of Subduction and Crustal Contamination on the Imamzadeh-Hashim Gabbroic Rocks. Sixth National Conference of Payam Noor University of Kerman.
2. **Fahim Guilany, R.**, Salavati, M (2013), Tectonomagmatic Setting of Imamzadeh-Hashim Gabbroic Rocks (South of Guilan). 2nd National Conference of Geological Science Society of Shahid Beheshti University, Iran.

3. Omid Zahir, M.R, Salavati, M, **Fahim Guilany, R** (2013), Tectonomagmatic Setting of Imamzadeh-Hashim Gabbroic Rocks (South of Guilan). 2nd National Conference of Geological Science Society of Shahid Beheshti University, Iran.
4. **Fahim Guilany, R**, Salavati, M (2013), Tectonic Setting of Ultramafic Rocks in the East of Imamzadeh-Hashim (South of Guilan) by Geochemical Data. 1st Conference on Iranian Applied Geochemistry, Damghan University, Iran.
5. **Fahim Guilany, R**, Giahchi, P (2014), Optimum Utilization of Guilan Province Soil Potential by Geology. 32nd National and 1st International Geosciences Congress, Iran.
6. Salavati, M, **Fahim Guilany, R** (2014), Petrology and Geochemistry of Imamzadeh-Hashim Mafic and Ultramafic Bodies, Southern Guilan Province. Journal of Economic Geology, Volume 6 , Number 1; 87-105.
7. **Fahim Guilany, R** (2016), The Most complex Volcano of Iran. 3rd International Conference on Geographical Sciences, Kharazmi High Institute of Science and Technology, Shiraz, Iran.
8. **Fahim Guilany, R.**, Darvishzadeh, A. and Sheikhzakariaee, S.J. (2016) The Nuée Ardentes of Sabalan Volcano in Iran. Open Journal of Geology, 6, 1553-1566. <http://dx.doi.org/10.4236/ojg.2016.612110>.
9. **Fahim Guilany, R.**, Darvishzadeh, A., Sheikhzakariaee, S.J., Abedini,. (2018). Geochemical Characteristics of Sabalan Volcanic Rocks in Northwestern Iran. Bulletin of The Mineral Research and Exploration. 1-2. 10.19111/bulletinofmre.451565.
10. **Fahim Guilany, R.**, Darvishzadeh, A., Sheikhzakariaee, S.J., Abedini,. (2019). Volcanological and Geochemical Features of the Products of Sabalan's Last Eruption, NW Iran. Iranian Journal of Petrology. 10 (1), 125-146. [10.22108/IJP.2019.115533.1119](https://doi.org/10.22108/IJP.2019.115533.1119).

Additional qualifications

Corel Draw
 MS Office – Word, Excel, PowerPoint,
 Igpert
 GCDkit

Languages Persian: Mother tongue
 English: Fluent
 German: Intermediate

Hobbies

Playing Music (Piano, Tar, Setar), Travelling, Sport (Football, Table Tennis), Painting

The overarching question of my PhD project is: How did microorganisms transform Earth to the oxygen-rich planet that we live on? Questions around Earth's oxygenation pattern in the Precambrian, a time when life was solely microbial, will be targeted by simulating ancient conditions in the lab. This will allow to constrain the impact of diverse metabolisms on geochemical parameters and vice versa, with focus on different types of photosynthesis. The project will be highly interdisciplinary and bridge a wide range of scales: from molecular mechanisms toward their impact on Earth over geological timescales.