

Personal Information:

- **Date/ Place of Birth:** 11/11/ 1984 , Mirgasor, Arbil, Iraq.
- **Gender:** Male
- **Nationality:** Iraqi
- **Marital Status:** Married
- **Address:** Soran City, Erbil, Kurdistan Region, Iraq
- **Phone:** +964(750) 8268224
- **Email address:** mohammad.askandar@soran.edu.iq

**Education:**

- Ph.D. in Exploration Geochemistry at Soran University.
Thesis title: Geochemistry, mineralogy, and mapping of newly discovered iron ores and stream sediments elements patterns associated with listvenites and fuchsites mineralizations in Rayat District, Iraqi Kurdistan. **GPA: 92/100**
- M.Sc. in Economic Geology, Urmia University of Urmia, Iran. (09/2008 - 09/2011)
Thesis title: Economic Geology of Mafic-Ultramafic of Bahleh Complex NW of Urmia NW of Iran. Under Supervision of: Dr. Samad Alipour & Dr. Ali Emamalipour.
GPA: 94/100
- B.Sc. in Geology. University of Urmia, Iran. (09/2004-06/2008). **GPA: 15.88/20**

Research Interest:

- Earth and Interdisciplinary Sciences.

Publication:

1. Mohammad, Y., Latif, D., Pirouei, M., & Omer, D. (2024). Mineralogical and geochemical features of the Sirna Mn-Fe deposit in the Kurdistan region, northeastern Iraq: Unveiling the formation of a Mn-Fe silica gel plume via serpentinization hydrothermal mechanisms. *Resource Geology*, 74(1), e12336.
2. Rajabi, A., Mahmoodi, P., Canet, C., Pirouei, M., Alfonso, P., Mahdavi, A., ... & Momenipour, S. (2023). Framboidal and spherulitic pyrite in sediment-hosted ore deposits of Iran. *Geopersia*.
3. Sadeq, Z. H., Kolo, K., & Pirouei, M. (2023). Geochemical and Economic Assessment of Iron-Rich Bodies in Choman-Rayat Area, Kurdistan Region, Iraq. *Tikrit Journal of Pure Science*, 28(5), 74-106.
4. Azo, B. K., Kolo, K., & Pirouei, M. (2023). Differentiation of Multi-lithotypes Olistostromal Occurrences Associated with Iron Enrichment and Mineralization Within the Ophiolites of Choman Area, NE Iraq. *Tikrit Journal of Pure Science*, 28(2), 32–56.
5. Fazlnia, A., Pang, K.-N., Ji, W.-Q., & Pirouei, M. (2023). Geochemical constraints on Eocene ignimbrite flare-up in the Urumieh-Dokhtar magmatic arc, northwestern Iran. *Lithos*, 450, 107189.
6. Nematollahi MJ, Rastegari Mehr M, Shakeri A, et al (2022) Polycyclic aromatic hydrocarbons (PAHs) in soils around oil refineries; Case study: Erbil and Kirkuk refineries, Iraq- A modelling approach. *J Environ Heal Sci Eng* 20:699–716. <https://doi.org/10.1007/s40201-022-00809-y>
7. Abdula RA, Khailany RNS, Samin NW, Pirouei M (2022) Reconnaissance Study of Gypsum from the Fatha Formation as Raw Material for Production of Gypsum Powder in Shaqlawa Area, Erbil, Kurdistan Region, Iraq. *Iraqi Geol J* 55:32–38. <https://doi.org/10.46717/igj.55.1C.3Ms->

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8. Pirouei, M., Kolo, K., Kalaitzidis, S.P. et al. Mapping of geochemical anomalies in the Zagros ophiolites stream sediments by fractal and classical analyses: implication for mineral exploration in Iraqi Kurdistan. *Arab J Geosci* 15, 533 (2022). <https://doi.org/10.1007/s12517-022-09778-w>
9. Abdullah, S.M., Kolo, K., Konhauser, K.O., Pirouei, M. (2022). Microbial Domains and Their Role in the Formation of Minerals. In: Berenjjan, A., Seifan, M. (eds) *Mineral Formation by Microorganisms. Microbiology Monographs*, vol 36. Springer, Cham. https://doi.org/10.1007/978-3-030-80807-5_1
10. Othman, A.A.; Obaid, A.K.; Al-Manmi, D.A.M.; Pirouei, M.; Salar, S.G.; Liesenberg, V.; Al-Maamar, A.F.; Shihab, A.T.; Al-Saady, Y.I.; Al-Attar, Z.T. Insights for Landfill Site Selection Using GIS: A Case Study in the Tanjero River Basin, Kurdistan Region, Iraq. *Sustainability* 2021, 13, 12602. <https://doi.org/10.3390/su132212602>
11. Pirouei M, Kolo K, Kalaitzidis SP, Mustafa Abdullah S (2021) Newly discovered gossanite-like and sulfide ore bodies associated with microbial activity in the Zagros ophiolites from the Rayat area of NE Iraq. *Ore Geol Rev* 135:104–191. <https://doi.org/10.1016/j.oregeorev.2021.104191>
12. Pirouei, M., Kolo, K. and Kalaitzidis, S.P., 2020a. Chromium-rich muscovite mineralization in Zagros ophiolites in Iraqi Kurdistan : a study on fuchsite paragenetic association with listvenite types.
13. Pirouei, M., Kolo, K. and Kalaitzidis, S.P., 2020b. Hydrothermal listvenitization and associated mineralizations in Zagros Ophiolites: Implications for mineral exploration in Iraqi Kurdistan. *Journal of Geochemical Exploration*, 208.
14. Jahanjooy, S., Pirouei, M. and Kolo, K., 2020. High accuracy gravity terrain correction by Optimally Selecting Sectors algorithm based on Hammer charts method. *Studia Geophysica et Geodaetica*, 64(2), pp.172–185.
15. Edilbi, A.N.F., Mohammed, K.F., Sadeq, Z.H., Aldalawy, A.A., Zebari, B.G.A., Pirouei, M., Suramairy, R. and Ali, J.A., 2019. Source rock potential and reservoir characterization of the Lower Cretaceous Sarmord Formation in selected sections in Kurdistan Region-Iraq. *Arabian Journal of Geosciences*, 12(21).
16. Mohammad Sajadi, S., Kolo, K., Hamad, S.M., Mahmud, S.A., Pirouei, M., Amjadian, K. and Khalid, K.M., 2019. Biosynthesis of reusable and recyclable CuO@Magnetite@Hen Bone NCs and its antioxidant and antibacterial activities: A highly stable magnetically nanocatalyst for excellent reduction of organic dyes and adsorption of polycyclic aromatic hydrocarbons. *IET Nanobiotechnology*, 13(2).
17. Amjadian, K., Pirouei, M., Rastegari Mehr, M., Shakeri, A., Khurshid Rasool, S. and Ibrahim Haji, D., 2018. Contamination, health risk, mineralogical and morphological status of street dusts- case study: Erbil metropolis, Kurdistan Region-Iraq. *Environmental Pollution*, [online] 243, pp.1568–1578. Available at: <<https://doi.org/10.1016/j.envpol.2018.09.116>>.
18. Sajadi, S.M.M., Kolo, K., Pirouei, M., Mahmud, S.A.S.A., Ali, J.A.J.A. and Hamad, S.M., 2018. Natural iron ore as a novel substrate for the biosynthesis of bioactive-stable ZnO@CuO@iron ore NCs: a magnetically recyclable and reusable superior nanocatalyst for the degradation of organic dyes, reduction of Cr(vi) and adsorption of crude oil aromatic. *RSC Advances*, 8(62), pp.35557–35570.
19. Sajadi, S. M., Kolo, K., Hamad, S. M., Mahmud, S. A., Pirouei, M., Amjadian, K., & Khalid, K. M. (2018). Biosynthesis of reusable and recyclable CuO@Magnetite@Hen Bone NCs and its antioxidant and antibacterial activities: a highly stable magnetically nanocatalyst for excellent reduction of organic dyes and adsorption of polycyclic aromatic hydrocarbons. *IET*

Nanobiotechnology. <https://doi.org/10.1049/iet-nbt.2018.5014>.

20. Abdula, A. A., Balaky, S. M., Nourmohammadi, M. S., and Piroui, M, 2015, Microfacies Analysis and Depositional Environment of the Sargelu Formation (Middle Jurassic) from Kurdistan Region, Northern Iraq: *Donnish Journal of Geology and Mining Research* Vol 1 (1) PP. 001- 026.

Work experience

- 1- Lecturer at Department of Petroleum Geosciences, Faculty of Sciences, Soran University since 2012- present.
- 2- Coordinator of Department of petroleum geosciences, faculty of science, Soran University, 2013 – 2015.
- 3- Head of Department of petroleum geosciences, faculty of science, Soran University, 2018 – 2022.

Training and Professional Experience:

1. Ground Water study of Mahabad Plain, West Azarbayjan, NW of Iran (2010).
2. Member of the Executive Committee Meeting of Geological Society of Iran, 17-25 September 2010, University of Urmia.
3. Mine technical manager of Barazhok chromite mine, Khoy City, NW of Iran

Software and Hardware Skills:

- **Operating Systems:** Windows Xp, Windows 7.
- **Software**

Good in: Adobe Photoshop, Adobe Illustrator, Correl, Surfer

Skillful in: Microsoft Office Package, Log Plot, ArcGIS, and Envi.

Academic Experiences:

- Teaching Mineralogy and Petrography at the Department of Petroleum Geosciences, Soran University from 2012 to 2014.
- Teaching Introduction to Geochemistry at the Department of Petroleum Geosciences, Soran University from 2012- present.
- Teaching Igneous and Metamorphic Petrology at the Department of Petroleum Geosciences, Soran University from 2012 to 2015.
- Teaching Economic Geology at the Department of Petroleum Geosciences, Soran University from 2021- 2023.
- Thin Section Lab Technician, Urmia University.
- XRD, Rock Eval6, and SEM operator at Soran University 2014 - present.

Personal Interests and Activities:

- **Sports:** Football; Mountain Climbing; walking.
- **Hobbies:** Reading Books; Listening Music; Travelling; Watching Movies

Language Proficiency:

- **English** (professional working proficiency)
- **Kurdish** (native)
- **Persian** (native)

Referees:

- **Dr. Kamal Yousef Odisho** *Professor in petroleum geosciences and Biogeosciences.*

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- **Dr. Samad Alipour** *Professor in Geochemistry.*

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