CURRICULUM VITAE

Name:	Muhammad Ishaq Kakar	
Designation:	Professor and Acting Director	
Institution:	Centre of Excellence in Mineralogy, University of Baluchistan, Quetta, Pakistan.	
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Academic Qualifications

◆ Ph.D.: University of Baluchistan, Quetta, Pakistan (2011).

<u>Ph.D. Thesis Topic:</u> "Petrology, Geochemistry and Tectonic Setting of the Muslim Bagh Ophiolite, Balochistan, Pakistan".

Awards

- Postdoctoral Award: Six months postdoctoral (Endeavour Research) Fellowship, University of Adelaide, South Australia, 2015. This fellowship is awarded to me by the Department of Education, Commonwealth of Australia.
- IRSIP Award: Six months fellowship titled: "International Research Support Initiative Program (IRSIP)" awarded by Higher Education Commission (HEC), Pakistan, in the University of Adelaide, Australia, 2009.
- Talent Training Award: Three months training titled: "Talent/Training program for technical staff and researchers" in the National Centre of Excellence in Geology, University of Peshawar, Pakistan, 2009.

Research Interest

I am basically Igneous Petrologist and am working on the petrogenesis of igneous rocks. My research is focusing mainly tectonic setting of ophiolites in Pakistan, magmatic evolution of Chagai-Ras Koh island arc, petrogenesis of hotspot-related intrusive and extrusive rocks exposed particularly in Baluchistan, Pakistan.

Courses Teaching

- Applied Mineralogy
- Research Methodology and Technical Writing
- Igneous and Metamorphic Petrology
- ➢ Geochemistry

Work Experience

- Professor, Centre of Excellence in Mineralogy, University of Baluchistan, Quetta, Pakistan, from January 2019 to present.
- Associate Professor, Centre of Excellence in Mineralogy, University of Baluchistan, Quetta, Pakistan, from August 2015 to December 2018.
- Assistant Professor, Centre of Excellence in Mineralogy, University of Baluchistan, Quetta, Pakistan, from July 2007 to July 2015.
- Lecturer, Department of Geology, University of Baluchistan, Quetta, Pakistan, from May 2003 to June 2007.

MS/M.Phil. Thesis Supervised

- > Petrology of the Naweoba Block, Zhob Ophiolite, Baluchistan, Pakistan (Co-supervisor).
- Gemstones and mineral specimens associated with the Muslim Bagh Ophiolite Complex, Pakistan (Co-supervisor).
- Mode of occurrence and Economic Potential of Magnesite deposits, Nisai area, Muslim Bagh ophiolite, northwestern Pakistan (Co-supervisor).
- > Chromite rich and chromite poor peridotite, Muslim Bagh Ophiolite, Pakistan, (Co-supervisor).
- > Petrology of the igneous rocks of Bagh Complex, Baluchistan, Pakistan (Co-supervisor).
- Petrology and Geochemistry of Igneous Intrusions in Triassic-Cretaceous Successions of the western Sulaiman Fold-Thrust belt, northern Balochistan, Pakistan (2016-2017) (Supervisor).
- Petrology of Gabbros from the Khanozai Ophiolite, Balochistan, Pakistan (2016-2017) (Supervisor).
- Petrology of the Granitic Rocks from the Bela Ophiolite, Southern Pakistan (2016-2017) (Supervisor).
- Gemology of the Gems and Mineral Specimens from Northern Balochistan, Pakistan (2016-2017) (Supervisor).
- Petrology of the mantle rocks from the Khanozai Ophiolite, Balochistan, Pakistan (2017-2018) (Supervisor).
- Petrology of volcanic rocks beneath the Khanozai Ophiolite, Balochistan, Pakistan (2017-2018) (Supervisor).

MSc. /MS Thesis Co-Supervised with my collaborator in UK

- Petrogenesis of Plagiogranitic Dykes and Irregular Inclusions from the Sheeted Dyke Complex of the Muslim Bagh Ophiolite, Northwestern Pakistan, by: Owain Mostyn Lavis in the School of Earth and Ocean Sciences, Cardiff University, Wales, UK, (2015).
- Geochemistry and Petrogenesis of Igneous Intrusions within the Eocene Nisai Formation of the Muslim Bagh Region, Pakistan, by: Daniel Cox in the School of Earth and Ocean Sciences, Cardiff University, Wales, UK, (2014).

HEC National Research Program for Universities (NRPU) Funded Project.

Geology, Petro-chemistry and Tectonic Setting of Zhob Valley Ophiolites, northwestern Pakistan of <u>Rs. 3,287,562/-</u> for the years 2016-2018.

Ph.D. and MS/M.Phil. Theses currently under my supervision

<u>PhD</u>

- Genesis of Economic Minerals from the Zhob Valley Ophiolites, Balochistan, Pakistan (2017-19).
- Petrology, Geochemistry and Tectonic Setting of Zhob Ophiolites, Northwestern Pakistan (2018-20

MS/M.Phil

- Geology and Petrology of the Rocks of Omzha Block, Zhob Ophiolites, northern Balochistan, Pakistan (2018-20).
- Seology of Ali Khanzai Massif of Zhob Ophiolites, Balochistan, Pakistan (2018-20).
- Petrology of Gabbros from Sorap Massif, Ras-Koh Ophiolites, South-west of Dalbandin, District Chagai, Balochistan, Pakistan (2018-20).
- Petrology of Chromitites from the Khanozai Ophiolite, Northern Balochistan, Pakistan (2018-20)
- Petrology of the Crustal Plutonic Rocks, Naweoba Block Zhob Ophiolite, Balochistan, Pakistan (2019-21).
- > Geology of Gowal Melange, District Pishin, Balochistan, Pakistan (2019-21).

Number of MS/M.Phil. & Ph.D. Theses Evaluated

- 1. **MS/M.Phil. Thesis** = 6
- 2. **PhD. Thesis** = 1

Publications in the ISI-indexed journals having Impact Factor

- Muhammad, D., Durrani, R. A. M., Kassi, A. M., <u>Kakar, M. I.</u>, 2019. Petrology and Geochemistry of Dolerite and Lamprophyre Sills in Mesozoic Successions of Khanozai– Muslim Bagh Area, Northwestern Pakistan. Arabian Journal of Geosciences (accepted). (2017 impact Factor = 0.86).
- 2.Cox, D., Kerr, A. C., Hastie, A. R., <u>Kakar, M.I.</u>, 2018. Petrogenesis of plagiogranites in the Muslim Bagh Ophiolite, Pakistan: Implications for the generation of Archaean continental crust. Geological Magazine. **Doi: 10.1017/S0016756818000250**, (2017 impact Factor = 2.34).
- 3.Siddiqui, R. H., Jan, M. Q., Khan, M. A., <u>Kakar M.I.</u>, Foden, J.D., 2017. Petrogenesis of the Late Cretaceous tholeiitic volcanism and oceanic arc affinity of the Chagai Arc, Western Pakistan. Acta Geologica Sinica (English Edition), 91 (4), 1248–1263. (2017 impact Factor = 2.5).
- 4. Siddiqui, R. H., Jan, M.Q., <u>Kakar, M.I.</u>, Kakar, E., M., Haider, N., 2016. Petrology and geochemistry of the Juzzak Sill, western Chagai arc (Pakistan): implications for petrogenesis and emplacement. Arabian Journal of Geosciences 9(13), 626. (2017 impact Factor = 0.86).

- 5. Siddiqui, R. H., Jan, M. Q., <u>Kakar, M. I.</u>, Kerr, A. C., Khan, A. S., Kakar, E., 2016. Petrogenesis of Middle Triassic Volcaniclastic rocks from Baluchistan, Pakistan: Implications for the break-up of Gondwanaland, Journal of Earth Science. DOI: 10.1007/s12583-016-0911-x. (2017 impact Factor = 1.5).
- 6.Kerr, A. C., Lavis, O, <u>Kakar, M.I.</u>, McDonald, I. 2016. Petrogenesis and tectonomagmatic significance of Eocene mafic intrusions from the Neo-Tethyan suture zone in the Muslim Bagh-Khanozai region, Pakistan. Journal of the Geological Society, 173, 518–530. (2017 impact Factor = 2.68).
- 7.Kasi, A.K., Kassi, A.M., Friis, Henrik, Umar, M., Mohibullah, M., <u>Kakar, M. I.</u>, 2016. Detrital Mode and Whole-Rock Geochemistry of the Neogene Fluvial Succession, Pishin Belt, Pakistan: Implications on Provenance and Source Area Weathering in peripheral foreland basins. Arabian Journal of Geosciences 9 (401) (2017 impact Factor = 0.86).
- 8.Siddiqui, R. H., Jan, M. Q., <u>Kakar M.I.</u>, Kakar, E., Chaudhary, A.H., Baig, S.A., 2016. Late Cretaceous Mantle Plume Activity in Ceno-Tethys: Evidences from the Hamrani volcanic rocks, Evidenced by the Hamrani volcanic rocks from north-western Pakistan. Arabian Journal of Geosciences, 1(9), 1-11. (2017 impact Factor = 0.86).
- 9.Siddiqui, R. H., Khan, M. A., Jan, M. Q., <u>Kakar, M. I.</u>, Kerr, A. C., 2015. Geochemistry and Petrogenesis of Oligocene Volcaniclastic Rocks from the Chagai Arc: Implications for the Emplacement of Porphyry Copper Deposits, Arabian Journal of Geosciences 8, (10), 8655-8667 (2017 impact Factor = 0.86).
- 10. <u>Kakar, M.I.</u>, Mahmood, K., Arif, M., Khan, M., Kerr, A.C., Mohibullah, M., Kasi, A. K., 2015. Petrology and geochemistry of mafic dykes from the Muslim Bagh Ophiolite (Pakistan): implications for petrogenesis and emplacement, Turkish Journal of Earth Sciences, 24: 165-178, (2017 impact Factor = 1.13).
- 11. <u>Kakar, M.I.</u>, Mahmood, K., and Khan, Plavsa, D, 2015. Petrology and Geochemistry of Amphibolites and Greenschists associated with the Muslim Bagh Ophiolite (NW Pakistan): Implications for protolith and Ophiolite emplacement, Arabian Journal of Geosciences, 8 (8), 6105-6120, (2017 impact Factor = 0.86).
- 12. <u>Kakar, M. I.,</u> Kerr, A. C., Collins, A. S., Mahmood, K., Khan, M., McDonald, I., 2014. Suprasubduction zone tectonic setting of the Muslim Bagh Ophiolite, northwestern Pakistan: insights from geochemistry and petrology. Lithos, 202-203: 190–206, (2017 impact Factor = 3.857).
- <u>Kakar, M.I.</u>, Collins, A.S., Mahmood, K., Foden, J.D. and Khan, M. 2012. U-Pb Zircon Crystallization Age of the Muslim Bagh Ophiolite: Enigmatic Remains of an Extensive Pre-Himalayan Arc, Geology, 40 (12), 1099-1102, (2017 impact Factor = 5).

Publications in the HEC-recognized journals

- Khan, M., Khan, M. J., Mahmood, K., <u>Kakar, M.I.</u>, 2018. Geology and Petrology of Crustal Section of Bela Ophiolite, Balochistan, Pakistan, Bahria University Research Journal of Earth Sciences,3 (1): 1-5. (HEC recognized Z-category journal).
- Ahmed, J., <u>Kakar, M. I.</u>, Khan, M. A., Ghaffar, A., & Naeem, A. 2017. The Classification and Distribution of Gemstones from Northern Balochistan, Pakistan. Lasbela University Journal of Science and Technology, 6,290-298. (HEC recognized Z-category journal).
- 3. <u>Kakar, M.I.</u>, Khan, M., Mahmood, K., Kerr, A, C., 2014. Facies and distribution of metamorphic rocks beneath the Muslim Bagh Ophiolite, (NW Pakistan): tectonic implications. Journal of Himalayan Earth Sciences, 47 (2): 115-124, (HEC recognized X-category journal).
- 4. Kasi, A. K., Kassi, A. M, Friis, H., <u>Kakar, M. I.</u>, Manan, R. A., 2014. Clay minerals assemblage in the Neogene Fluvial succession of the Pishin belt, Pakistan: implications for provenance, Journal of Himalayan Earth Sciences, 47 (2): 63-73, (<u>HEC recognized X-category journal</u>).
- Kakar, M.I., Mahmood, K., Kerr, A, C., and Khan, M., 2013. Petrology of the Mantle Rocks from the Muslim Bagh Ophiolite, Baluchistan, Pakistan, Journal of Himalayan Earth Sciences, 46(2), 101-112, (HEC recognized X-category journal).
- 6. Kakar, M.I., Mahmood, K., Khan, M., Kasi, A. K. and Manan, R. A., 2013. Petrology and geochemistry of gabbros from the Muslim Bagh ophiolite: implications for their Petrogenesis and

tectonic setting, Journal of Himalayan Earth Sciences 46(1), 19-30, (HEC recognized X-category journal).

- 7.Kasi, A. K., Kassi, A. M, Umar, M. Manan, R. A., and <u>Kakar, M. I.</u>, 2012. Revised Lithostratigraphy and Tectonic Zones of the Pishin Belt, northwestern Pakistan. Journal of Himalayan Earth Sciences, 45 (1), 53-65, (HEC recognized X-category journal).
- Kakar, M. I., Mahmood, K., Kerr, A, C., Collins, A. S. Khan, M. and Kasi, A. K., 2012. Geochemistry and Petrogenesis of volcanic rocks from the Bagh complex, northern Baluchistan, Pakistan, Journal of Himalayan Earth Sciences 45, (1), 17-29, <u>(HEC recognized X-category</u> journal).

Publications in online journals

- 1. Qazi, Q.A., <u>Kakar, M.I.</u>, Khan, M., Siddiqui, R.H., 2018. Petrology and major element geochemistry of granitic rocks from Bela Ophiolite; economic implications. International Research Journal of Earth Sciences, 6(5), 1-8.
- 2. Khan, M., Khan M.J., <u>Kakar, M.I.</u>, Mahmood, K., 2018. Geology and Tectonic Setting of Nal Ophiolite, District Khuzdar, Balochistan, Pakistan. American Journal of Earth and Environmental Sciences, 1(2): 115-123.

Conference abstracts

- <u>Kakar, M. I.,</u> Khan, M. A., and Siddiqui, R. H., 2017. Geology and Petro-Chemistry of the Muslim Bagh Ophiolite Complex, NW Pakistan: Implications for the Exploration of Mineral Deposits Found Associated with Complex. International Journal of Economic and Environmental Geology (HEC recognized Y-category journal), abstract vol.
- Kakar, M. I., Kerr, A. C., Lavais, O., McDonald, I., 2016. Geochemistry and petrogenesis of igneous intrusions within the Eocene Nisai Formation of the Muslim Bagh-Khanozai Region, NW Pakistan. Presented in the International Conference on: Earth Sciences Pakistan 15-17 July, 2016 and published in the Journal of Himalayan Earth Sciences (HEC recognized X-category journal), abstract vol., p. 69.
- <u>Kakar, M.I.</u>, Mahmood, K., Khan, M., Arif, M., and Plavsa, D., 2014. Petrology and geochemistry of the dykes from the Muslim Bagh Ophiolite, Baluchistan, Pakistan. Presented in the International Conference on: Earth Sciences Pakistan 29-31 August, 2014, and published in the Journal of Himalayan Earth Sciences (<u>HEC recognized X-category journal</u>), abstract p. 40.
- Ayoub, M., Mahmood, K., <u>Kakar, M.I.</u>, Petrology of the Naweoba Block of Zhob Ophiolite, Northern Baluchistan, Pakistan, Journal of Himalayan Earth Sciences (<u>HEC recognized X-category journal</u>), abstract vol., p. 49.
- Naeem, A., Mahmood, K., <u>Kakar, M.I.,</u> Sohail, K., A study of the Gemstones from the Muslim Bagh Ophiolite Complex, Baluchistan, Pakistan, Journal of Himalayan Earth Sciences (<u>HEC</u> recognized X-category journal), abstract vol., p. 63.
- Kakar, M.I., Mahmood, K., and Khan, M., 2012. Petrology of the Mantle Rocks from the Muslim Bagh Ophiolite, Baluchistan, Pakistan, Journal of Himalayan Earth Sciences (<u>HEC</u> recognized X-category journal), abstract vol. 45 (2), 69.