

# Curriculum Vitae



**Mehdi Rezaei-Kahkhaei**  
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## *Personal Information:*

- Date of Birth: 24.06.1980
- Marital Status: Married with one child
- Nationality: Iranian

## *Education*

- Ph.D. in Petrology- Graduated 2011, University of Tehran, Iran
- M. Sc. in Petrology- Graduated 2006, University of Tehran, Iran
- B. Sc. in Geology- Graduated 2002, Sistan and Baluchestan University, Iran

## *Languages*

**Persian:** native

**English:** reading, writing, speaking

## **Honors and Awards**

Title	Institution	Date
Top Dissertation of Tehran University	University of Tehran, Iran	2011
Top Geologist Student of Iran	Iranian Geological Society, Iran	2011
Exemplary Teacher	Shahrood University of Technology	2020

## ***Teaching Experience***

2017-Now	<b>Geochemical Modelling of Igneous Processes</b> for PhD students, Shahrood University of Technology, Shahrood, Iran.
2017-Now	<b>Advanced Methods in Analytical Techniques</b> for PhD students, Shahrood University of Technology, Shahrood, Iran.
2017-Now	<b>Volcanology</b> for B.Sc. students, Shahrood University of Technology, Shahrood, Iran.
2015-2019	<b>Quaternary Geology</b> for M.Sc. students, Shahrood University of Technology, Shahrood, Iran.
2015-Now	<b>Isotope Geology</b> for M.Sc. students, Shahrood University of Technology, Shahrood, Iran.
2014-2019	<b>Microtectonic</b> for M.Sc. students, Shahrood University of Technology, Shahrood, Iran.
2012-2018	<b>Experimental Petrology</b> for M.Sc. students, Shahrood University of Technology, Shahrood, Iran.
2012-2018	<b>Gemology</b> for M.Sc. students, Shahrood University of Technology, Shahrood, Iran.
2012-2018	<b>Magmatism and Tectonics</b> for M.Sc. students, Shahrood University of Technology, Shahrood, Iran.
2012-2013	<b>Geomorphology</b> for B.Sc. students, Shahrood University of Technology, Shahrood, Iran.
2011-2016	<b>Mineralogy</b> for B.Sc. students, Shahrood University of Technology, Shahrood, Iran.
2010-Now	<b>Optical Mineralogy</b> for B.Sc. students, Shahrood University of Technology, Shahrood, Iran.
2009- 2010	<b>Optical Mineralogy</b> for B.Sc. students, University of Tehran, Tehran, Iran.
2008	<b>Petrology</b> for M.Sc. students as a professor assistant, University of Tehran, Tehran, Iran.
2007	<b>Mineralogy</b> for B.Sc. student, University of Tehran, Tehran, Iran.
2004- 2007	<b>Metamorphic petrology</b> for B.Sc. students as a professor assistant, University of Tehran, Tehran, Iran.
2002	<b>Metamorphic petrology</b> for B.Sc. students as a professor assistant, University of Sistan and Baluchestan, Tehran, Iran.

## ***Other Experience***

- 2010            Operator of mass spectrometer  
2009            Mapping Taftan Volcano, 1:25000 scale  
2005-2011     Design and Layout of Journal of Science, University of Tehran

## ***Publications***

### **Published Papers**

1. Kananian A., **Rezaei-Kahkhaei M.**, Esmaily D., (2007) Petrology and tectonic setting of the Lakhashak granodiorite (NW of Zahedan, Iran). *Geosciences*, 65, 126-143 (in Persian with English abstract).
2. Kananian A., **Rezaei-Kahkhaei M.**, Eliasi M., Esmaily D., (2007). Petrography of high temperature deformation in marginal parts of the Lakhashak granitoid intrusion (NW of Zahedan, Iran). *Journal of Science, University of Tehran*, 33, 39-48 (in Persian with English abstract).
3. **Rezaei-Kahkhaei M.**, Kananian A., Eliassi M., Esmaily D. (2009) Using C-axis of quartz for determining deformation condition of Lakhashak granodiorite mylonites, NW of Zahedan, Iran. *Journal of Science, University of Tehran*, 35, 33-44 (in Persian with English abstract).
4. **Rezaei-Kahkhaei, M.**, Kananian, A., Esmaily, D., Asiabanha, A., (2010) Geochemistry of the Zargoli Granite: Implications for development of the Sistan Suture Zone, southeastern Iran. *Island Arc*, 19, 259-276.
5. **Rezaei-Kahkhaei M.**, Galindo Francisco C., Pankhurst R.J., Esmaily D. (2011) Magmatic differentiation in the calc-alkaline Khalkhab–Neshveh pluton, Central Iran. *Journal of Asian Earth Sciences* 42, 499–514.
6. **Rezaei-Kahkhaei, M.**, Esmaily, D., Corfu, F., (2011) Petrogenetic modeling of rock variety in the Khalkhab–Neshveh pluton, NW of Saveh, Iran. *Island Arc*, 20, 329–345.
7. Ahadnejad, V., Valizadeh M.V., Deevsalar, R., **Rezaei-Kahkhaei, M.**, (2011) Age and geotectonic position of the Malayer granitoids: Implication for plutonism in the Sanandaj-Sirjan Zone, W Iran. *N. Jb. Geol. Paläont. Abh.* 261/1, 61–75.
8. Esmaili, D., TabbakhShabani, A.A., Najjar, H., **Rezaei-Kahkhaei, M.**, (2013) Application of Amphibole Mineral Chemistry in the Study of Magma Features and Geothermobarometry of Granitoid Rocks of NW Saveh, Central Iran. *Iranian Journal of Crystallography and Mineralogy*, 21, 417-430 (in Persian with English abstract).
9. Esmaili, D., TabbakhShabani, A.A., Najjar, H., **Rezaei-Kahkhaei, M.**, (2014) Application of Biotite

Mineral Chemistry of Granitoid Rocks of NW Saveh, Central Iran. Iranian Journal of Crystallography and Mineralogy, 22, 89-102.

10. **Rezaei-kahkhaei, M.**, Esmaeily, D., Galindo, C., (2014) Geochemical and isotopic (Nd and Sr) constrains on the origin of NW Saveh intrusions, Central Iran. Journal of Geopersia, 4, 103-123.
11. Hashemi, F., Mousivand, F. and **Rezaei-Kahkhaei, M.**, (2014) Geology and geochemistry of the ore-bearing horizons of the Varandan volcanogenic Ba-Pb-Cu massive sulfide deposit, southwest of Qamsar. In Sixth Conference of Iranian Society of Economic Geology, Sistan and Baluchestan University, Zahedan, Iran (in Persian with English abstract).
12. Keshavarzi, R., Esmaili, D., **Rezaei-Kahkhaei, M.**, Mokhtari, M.A.A. and Jabari, R., (2014) Petrology, Geochemistry and Tectonomagmatic Setting of Neshveh Intrusion (NW Saveh). Open Journal of Geology, 4(05), p.177.
13. Keshavarzi, R., Esmaili, D., **Rezaei-Kahkhaei, M.**, Mokhtari, M.A.A. and Kordlou, M., (2014) Mineral Chemistry and Magmatic Differentiation Evidences in the Neshveh Intrusion (NW Saveh, Central Iran). Open Journal of Geology, 4(06), p.262.
14. Ghasemi, H., **Rezaei-Kahkhaei, M.**, (2015) Petrochemistry and tectonic setting of the Davarzan-Abbasabad Eocene Volcanic (DAEV) rocks, NE Iran. Mineralogy and Petrology, 109, 235-252.
15. Yousefi, F., Sadeghian, M., Ghasemi, H., Wanhainen, C., Lambrini, P., Bark, G., **Rezaei-Kahkhaei, M.**, Koroneos, A., (2017) Mineral chemistry and P-T conditions of the adakitic rocks from Torud–Ahmad Abad magmatic belt, S-SE Shahrood, NE Iran. Journal of Geochemical Exploration 182, 110–120.
16. Saravani Firoz, M., Kananian A., **Rezaei-Kahkhaei, M.**, (2017) Amphiboles chemistry of intrusive pluton rocks of Zargoli, North West of Zahedan. New Findings in Applied Geology, 20, 9-24 (in Persian with English abstract).
17. **Rezaei-Kahkhaei, M.**, Rahbar, R., Ghasemi, H., (2017) Dating of Lakhshak intrusive assemblage through the U-Pb method on zircon and titanite, East Iran. Iranian Journal of Crystallography and Mineralogy, 25, 111-122 (in Persian with English abstract).
18. **Rezaei-Kahkhaei, M.**, Alimousa, Z., Ghasemi, H., (2017) Determining the physical crystallization condition of Lakhshak granodiorite pluton and its dykes. Iranian Journal of Crystallography and Mineralogy, 25, 311-328 (in Persian with English abstract).
19. Hashemi, F., Mousivand, F., **Rezaei-Kahkhaei, M.**, (2017) Ore horizons, ore facies, mineralogy and geochemistry of volcanogenic massive sulfide (VMS) deposits of the Varandan Ba-Pb-Cu deposit, southwest of Qamsar – Iran. Journal of Economic Geology. 9, 587-616 (in

Persian with English abstract).

20. Rostami-hussory, M., Ghasemi, H., Kwan-Nang, P., **Rezaei-Kahkhaei, M.**, Mobasheri, M., (2017) Mineral chemistry and thermobarometry of Jurassic diabase dikes swarm from West Reza-Abad (South West of Biarjomand). *Iranian Journal of Crystallography and Mineralogy*, 25, 761-774 (in Persian with English abstract).
21. Barzgar, L., Ghasemi, H., **Rezaei-Kahkhaei, M.**, (2018) Crystal Size Distribution Analysis Of Plagioclase And Pyroxene In Basaltic And Andesitic Rocks Of Abbasabad Area, East Of Shahrood. *Iranian Journal of Crystallography and Mineralogy*, 26, 63-78 (in Persian with English abstract).
22. **Rezaei-Kahkhaei, M.**, Ghasabi-Feyze, A., Ghasemi, H., (2018) Mineral chemistry of clinopyroxene in the Eocene basaltic rocks of the Gardaneh Ahovan area, NE Semnan. *Iranian Journal of Crystallography and Mineralogy*, 26, 339-354 (in Persian with English abstract).
23. Hashemi, F., Mousivand, F., **Rezaei-Kahkhaei, M.**, (2018) Geochemistry of ore facies and alteration zoning pattern of the Varandan Ba-Pb-Cu volcanogenic massive sulfide deposit, southwest of Qamsar (in Persian with English abstract). *Iranian Journal of geology*, 11 (45), 19-37 (in Persian with English abstract).
24. **Rezaei-Kahkhaei, M.**, Esmaily, D., Sahrai, H., (2018) Evaluation of impact processes in the formation of Neshveh volcanic rocks, NW Saveh. *Geosciences*, 28(109) 285-294 (in Persian with English abstract).
25. Saravani Firoz, M., Kananian A., **Rezaei-Kahkhaei, M.**, (2018) Study of mineral chemistry of biotite in Zargoli granitoid, Northwest of Zahedan. *New Findings in Applied Geology*, 11 (22), 96-108 (in Persian with English abstract).
26. **Rezaei-Kahkhaei, M.**, Taheri, A.A., Ghasemi, H., (2018) Geochemistry and Isotope Geology of Adakitic Domes from Chakane Area in South of Quchan, Northeast Iran. *Journal of petrology*, 9(36), 25-48 (in Persian with English abstract).
27. Sheykhi, M., **Rezaei-Kahkhaei, M.**, Ghasemi, H., (2019) Mineral chemistry of biotite and feldspar: application for the genesis of Gapdan granitoid pluton (NW Zahedan). *Journal of Crystallography and Mineralogy*, 27(3), 635-648 (in Persian with English abstract).
28. **Rezaei-Kahkhaei, M.**, Ansarifard, O., Ghasemi, H., (2019) Geochemistry and oxygen isotopes of Reza Abad agates, SE Shahrood, Central Iran: An approach to temperature and formation process. *Journal of Economic Geology*, 9, 587-616 (in Persian with English abstract).
29. **Rezaei-Kahkhaei, M.**, Taheri, A., Ghasemi, H. and Gardideh, S., (2019) Geochemistry and Isotope Geology of Adakitic Domes from Chakane Area in South of Quchan (Northeast of Iran).

Iranian Journal of Petrology, 9(4), pp.25-48 (in Persian with English abstract).

30. Kamran, S., Ahmadi Khalaji, A., **Rezaei-Kahkhaei, M.** and Tahmasbi, Z., (2019) Mineral chemistry, thermobarometry, petrogenesis and tectonic setting of the Nokeh intrusion in the northern Semnan (Central Iran). *Iranian Journal of Crystallography and Mineralogy*, 27(3), pp. 649-666 (in Persian with English abstract).
31. Rostami-Hossouri, M., Ghasemi, H., Pang, K.N., Shellnutt, J.G., **Rezaei-Kahkhaei, M.**, Miao, L., Mobasheri, M., Iizuka, Y., Lee, H.Y. and Lin, T.H., (2020) Geochemistry of continental alkali basalts in the Sabzevar region, northern Iran: implications for the role of pyroxenite in magma genesis. *Contributions to Mineralogy and Petrology*, 175(5), pp.1-22.
32. Asadi-Avargane, M., **Rezaei-Kahkhaei, M.** and Ghasemi, H., (2020) Petrology and geochemistry of adakitic dacites of the Qarah Chay Neogene caldera, SE Quchan. *Journal of Geoscience*, 29(114), pp.241-250 (in Persian with English abstract).
33. **Rezaei-Kahkhaei, M.**, Aghaeighojeh, H. and Fardoost, F., (2020) Geochemistry and Raman spectroscopic studies of Seh Qaleh agates, NW Birjand (Central Iran). *Journal Of Economic Geology*, 12(3), pp.327-339 (in Persian with English abstract).
34. Mousivand, F., Hashemi, F., **Rezaei-Kahkhaei, M.** and Pakizeh, A., (2020) Geology, geochemistry and genesis of the Darreh Amrood Pb (Ag) deposit in the Urumieh-Dokhtar magmatic arc, south of Ghohrood. *Journal of Geoscience*, 29(114), pp.259-268 (in Persian with English abstract).
35. Pezeshki Gharache, F., Mousivand, F., **Rezaei-Kahkhaei, M.** and Fardoost, F., (2021) Ore facies, mineralogy, alteration, geochemistry and genesis of the Vanakan (Sokan) barite-zinc-lead-copper deposit, north east of Semnan. *Journal Of Economic Geology*, 13(1), pp.29-55 (in Persian with English abstract).
36. Shahabi, Sh., Ghasemi, H., **Rezaei-Kahkhaei, M.** and Minggou, Zh., (2021) Thermo-barometry of Permo-Triassic mafic igneous intrusion, Talu, Eastern Alborz Zone. *Journal of Geoscience*, 31(2), pp.173-188 (in Persian with English abstract).
37. Meskini Siahmard, Sh., Fardoost, F. and **Rezaei-Kahkhaei, M.**, (2021) Geology, Alteration and Geochemistry of Qesari Copper Deposit, West of Torud, Semnan Province. *Research in Earth Sciences*, (in Persian with English abstract).
38. Shahabi, Sh., Ghasemi, H. and **Rezaei-Kahkhaei, M.**, (2021) Petrography, whole-rock geochemistry and mineral chemistry of clinopyroxene and amphibole in basic alkaline igneous rocks of Shemshak Formation, S Azadshahr, Eastern Alborz. *Iranian Journal of Crystallography and Mineralogy*, 29(1), pp.11-128 (in Persian with English abstract).

39. Jafarzadeh, M., Bónová, K., Mikuš, T., Bóna, J., **Rezaei-Kahkhaei, M.** and Taheri, A., (2021) Tourmaline and rutile geochemistry in the Early–Middle Devonian sandstones of the Padeha Formation, Alborz Range, Northern Iran. *Geological Journal*, 56(9), pp.4645-4666.
40. **Rezaei-Kahkhaei, M.**, Corfu, F., Sheykhi, M., Ghasemi, H. and Shi, Y., (2021) Mineral chemistry and ages of the Eocene Gapdan granitoid pluton and related dykes (Sistan suture zone, eastern Iran): multi-stage emplacement of a zoned pluton during progressive deformation and exhumation. *Journal of Asian Earth Sciences*, 216, p.104813.
41. **Rezaei-Kahkhaei, M.**, Corfu, F., Galindo, C., Rahbar, R. and Ghasemi, H., (2022) Adakite genesis and plate convergent process: Constraints from whole rock and mineral chemistry, Sr, Nd, Pb isotopic compositions and U-Pb ages of the Lakhshak magmatic suite, East Iran. *Lithos*, 426, p.106806.

### **Conference Papers**

1. **Rezaei- Kahkhaei, M.**, Kananian, A., (2004) Introduction for granitic mylonatic zones in Lakhshak granitoidic pluton, North-West of Zahedan. The 23<sup>th</sup> symposium on Geosciences of Iran. P.361-362.
2. Kananian, A., **Rezaei- Kahkhaei, M.**, (2005) Behavior of feldspar minerals during marginal deformation of the Lakhshak granitoid intrusion, NW of Zahedan, Iran. The 9<sup>th</sup> Conference of Iranian Geological Society. Tarbiat Moallem University, Tehran, Iran. P.794.
3. **Rezaei-Kahkhaei, M.**, Kananian, A., (2005) Myrmekitization of the K-feldspar margins in the Lakhshak mylonitic granite, NW of Zahedan. The 9<sup>th</sup> Conference of Iranian Geological Society, Tarbiat Moallem University, Tehran, Iran. P. 796.
4. Kananian, A., **Rezaei- Kahkhaei, M.**, (2005) Dynamic metamorphism at presence of some melts in the margin of a deformed granitoid pluton: The Lakhshak granodiorite, North-West of Zahedan, Iran. International Earth Sciences Colloquium on the Aegean region IESCA, Izmir, Turkey. 58.
5. **Rezaei-Kahkhaei, M.**, Kananian, A., (2005) Development of myrmekite within K-feldspar during deformation and recrystallization of Lakhshak mylonitic granitoid, NW Zahedan, Iran. International Earth Sciences Colloquium on the Aegean region IESCA, Izmir, Turkey. 100-101.
6. Kananian, A., **Rezaei- Kahkhaei, M.**, (2006) Geochemistry of Lakhshak plutonic rocks and their

related dykes, NW of Zahedan. The 10<sup>th</sup> Conference of Iranian Geological Society, Tarbiat Modares University, Tehran, Iran. P. 96.

7. **Rezaei-Kahkhaei, M.**, Kananian, A., Eliasi M., (2006) Shear zones effect in emplacement Lakhshak area dykes, NW of Zahedan. The 10<sup>th</sup> Conference of Iranian Geological Society, Tarbiat Modares University, Tehran, Iran. P. 117.
8. **Rezaei-Kahkhaei M.**, Kananian A. (2009) Implications for the tectonic development of the Sistan Suture Zone, South East of Iran by using REE and HFS elements. Geophysical Research Abstracts, Vol. 11, EGU2009-6901-4.
9. **Rezaei-Kahkhaei M.**, Kananian A. (2009) Using quartz for determine deformation condition of Lakhshak granodiorite mylonites, NW of Zahedan, Iran. Geophysical Research Abstracts, Vol. 11, EGU2009-11353-2, 2009.
10. **Rezaei-Kahkhaei M.**, Esmaily D. (2009) The relationship between quartz diorite and granite: An example from the Uromieh-dokhtar magmatic belt. Goldschmidt Conference Abstracts. Geochimica et Cosmochimica Acta, A1094.
11. **Rezaei-Kahkhaei M.**, Esmaily D. Rakhshanei M., Khashavarzi R. (2010) Evolution of magma in the Khalkhab-Neshveh pluton. The 27<sup>th</sup> symposium on Geosciences of Iran and the 13<sup>th</sup> Conference of Iranian Geological Society, Tehran, Iran. P. 165.
12. Keshavarzi R., Esmaily D., **Rezaei-Kahkhaei M.**, (2010) The study of rehology, character and source of Neshveh granitoid pluton, NW of Saveh. 14<sup>th</sup> Conference of Iranian Geological Society.
13. **Rezaei-Kahkhaei M.**, Esmaily D., Keshavarzi R., (2010) The Role of back-mixing in the Evolution of the Selijerd rocks. 14<sup>th</sup> Conference of Iranian Geological Society.
14. Najjar, H., Esmaili, D., TabbakhShabani, A.A., **Rezaei-Kahkhaei, M.**, (2011) Application of Amphibole Mineral Chemistry in Geothermobarometry Determination of Granitoid Rocks of NW Saveh, Central Iran. 5<sup>th</sup> geology conference, Abhar Pymnoor university.
15. Sahrai, H., Esmaily, D., **Rezaei-Kahkhaei, M.**, (2012) investigation of magmatic differentiation during evaluation of Eshveh volcanic rocks (NW Saveh). The 31<sup>th</sup> symposium on Geosciences of Iran and the 13<sup>th</sup> Conference of Iranian Geological Society, Tehran, Iran.
16. Sahrai, H., Esmaily, D., **Rezaei-Kahkhaei, M.**, (2012) Petrology and tectonic settings of volcanic rocks from NW Saveh, Central Iran. 1<sup>6th</sup> Conference of Iranian Geological Society.
17. **Rezaei-Kahkhaei, M.**, (2014) New high-precision U–Pb ages for South Zahedan Granitoids. Application of Zircon chemistry. 25<sup>th</sup> Symposium of Crystallography and Mineralogy of Iran, Shahrood, Iran.



18. Shebi, M., Majidi, P., **Rezaei-Kahkhaei, M.**, (2013) Effect of hydrothermal alteration on magnetic susceptibility of Challu Pluton, SE Damghan- Iran. Goldschmidt Conference Abstracts. Page 2191.
19. **Rezaei-Kahkhaei, M.**, Corfu, F., (2013) Igniting flare-up events in Sistan Suture Zone, Iran. Goldschmidt Conference Abstracts. Page 2054.
20. Hajiloo, R., Ghasemi, H., **Rezaei-Kahkhaei, M.**, (2014) Evidences magmatic Oligocene back-arc basin in Northeast Central Iran. 32nd National & the 1st International Geosciences Congress. Ministry of Industry page 215, Mine & Trade Geological Survey of Iran. 16-19 February.
21. Hashemi, F., Mousivand, F., **Rezaei-Kahkhaei, M.**, (2014) Varandan Deposit: Kuroko-type Ba-Pb-Cu volcanogenic massive sulfide mineralization in the Urumieh-Dokhtar magmatic arc. 32nd National & the 1st International Geosciences Congress. Ministry of Industry, Mine & Trade Geological Survey of Iran. 16-19 February.
22. Ebtehaj, M., Ghasemi, H., **Rezaei-Kahkhaei, M.**, (2014) Geochemistry and petrology of the gabbroic dikes at west of the bande hezar chah area. 32nd National & the 1st International Geosciences Congress, pp. 197. Ministry of Industry, Mine & Trade Geological Survey of Iran. 16-19 February.
23. Hashemi, F., Mousivand, F., **Rezaei-Kahkhaei, M.**, (2014) Geology and geochemistry of the ore-bearing horizons of the Varandan volcanogenic Ba-Pb-Cu massive sulfide deposit, southwest of Qamsar. 6<sup>th</sup> symposium of Iranian Society of Economic Geology, University of Sistan and Baluchestan. 12-14 September.
24. Barzgari, L., Ghasemi, H., **Rezaei-Kahkhaei, M.**, (2014) Crystal size distribution (CSD) of oxroxene in Eocene rocks of Mindasht. The 18<sup>th</sup> Conference of Iranian Geological Society, Tarbiat Moallem University, Tehran, Iran. P. 539-545.
25. Alimousa, Z., **Rezaei-Kahkhaei, M.**, (2015) The mineral chemistry of biotite from Lakhshak pluton. The 18<sup>th</sup> Conference of Iranian Geological Society, Tarbiat Modares University, Tehran, Iran.
26. Fardoost, F., Nahidifar, **Rezaei-Kahkhaei, M.**, Dehghanipour Z., (2014) Investigation of country rocks of Dian copper. 1<sup>st</sup> Conference on Iranian Applied Geochemistry.
27. **Rezaei-Kahkhaei M.**, (2013) Thermobarometry and chemistry of Iron veins in NW of Saveh, Central Iran, 1<sup>st</sup> Conference on Iranian Applied Geochemistry.
28. **Rezaei-Kahkhaei, M.**, (2015) Timing production of Iranian continental crust via Nd isotope evidences. Goldschmidt Conference Abstracts. Page 2625.
29. Alimousa, Z., **Rezaei-Kahkhaei, M.**, (2016) Mineral chemistry and determining the temperature

and oxygen fugacity of Lakhshak granitoid pluton and its dykes, NW Zahedan, Sistan suture zone. The 34<sup>th</sup> National and the 2<sup>nd</sup> International Geosciences Congress. February 22-24, Tehran, Iran.

30. Khanedar-Kalivar, M., **Rezaei-Kahkhaei, M.**, (2016) Lithological mapping and hydrothermal alteration using ETM<sup>+</sup> and ASTER data: a case study from Ahovan area, Iran. Goldschmidt Conference Abstracts, 1485.
31. **Rezaei-Kahkhaei, M.**, Rahbar, R., Sargolzaei, M., (2016) Petrochemistry and high-precision UPb zircon-titanite Geochronology of the Calc-alkaline Lakhshak granitoid rocks from Eastern Iran. Goldschmidt Conference Abstracts, 2620.
32. Ansarifar, O., **Rezaei-Kahkhaei, M.**, (2016) The petrographic characteristics of Reza Abad agates, SE Shahrood (Central Iran). Workshops, the 34<sup>th</sup> National & 2<sup>nd</sup> International Geosciences Congress. February 22-24, Tehran, Iran.
33. Khanedar-Kalivar, M., **Rezaei-Kahkhaei, M.**, Ghasemi, H. (2016) Application of ETM<sup>+</sup> data for separating igneous rocks of Gardaneh Ahovan, NE Semnan. The 20<sup>th</sup> Conference of Iranian Geological Society. University of Tehran, 616-622.
34. Khanedar-Kalivar, M., **Rezaei-Kahkhaei, M.**, Ghasemi, H. (2016) Application of ETM<sup>+</sup> data for identification of hydrothermal alteration in Gardaneh Ahovan, NE Semnan. 8<sup>th</sup> symposium of Iranian Society of Economic Geology, University of Zanjan.
35. Khanedar-Kalivar, M., **Rezaei-Kahkhaei, M.**, (2017) Mineral chemistry of intrusive rocks of the Gardaneh Ahovan rocks, NE Semnan. Goldschmidt Conference Abstracts. August 13-18, Paris, France.
36. Rostami-hussory, M., Ghasemi, H., Kwan-Nang, P., **Rezaei-Kahkhaei, M.**, Mobasheri, M., (2017) Minerals chemistry and thermobarometry of Oligo-Miocene basalts from Northern edge of Central Iran (Sabzevar - Shahrood). 24<sup>th</sup> Symposium of Crystallography and Mineralogy of Iran, Shahrood, Iran, 263-270.
37. Sheykhi, M., **Rezaei-Kahkhaei, M.**, Ghasemi, H. (2017) Mineralogical investigation of enclaves present in Gapdan granitoid pluton, NW of Zahedan. 24<sup>th</sup> Symposium of Crystallography and Mineralogy of Iran, Shahrood, Iran, 879-886.
38. Khanedar-Kalivar, M., **Rezaei-Kahkhaei, M.**, Ghasemi, H. (2017) Chemical composition of biotite from granodiorites the Nokeh, NE Semnan. 24<sup>th</sup> Symposium of Crystallography and Mineralogy of Iran, Shahrood, Iran, 768-775.
39. Khanedar-Kalivar, M., **Rezaei-Kahkhaei, M.**, Ghasemi, H. (2017) Application clinopyroxene to determine Petrogenesis in Gardaneh Ahovan, NE Semnan. 24<sup>th</sup> Symposium of

Crystallography and Mineralogy of Iran, Shahrood, Iran, 242-249.

40. Ansarifar, O., **Rezaei-Kahkhaei, M.**, Ghasemi, H. (2017) The effect of trace elements and major oxides in color variety of Reza Abad agates, SE Shahrood. 24<sup>th</sup> Symposium of Crystallography and Mineralogy of Iran, Shahrood, Iran, 169-174.
41. Ghasabi-Feyze, A., **Rezaei-Kahkhaei, M.**, Ghasemi, H. (2017) The application of pyroxene chemistry in evaluation the temperature and pressure of basaltic rocks in Gardaneh Ahovan, NE Semnan. 24<sup>th</sup> Symposium of Crystallography and Mineralogy of Iran, Shahrood, Iran, 321-327.
42. **Rezaei-Kahkhaei, M.**, (2017) Application of zircon U-Pb isotopes for dating of Zargoli granitoid rocks, NW of Zahedan. 24<sup>th</sup> Symposium of Crystallography and Mineralogy of Iran, Shahrood, Iran, 64-69.
43. Ansarifar, O., **Rezaei-Kahkhaei, M.**, Ghasemi, H. (2017) Geochemistry and petrogenesis of basaltic rocks containing agate in Reza Abad area, SE Shahrood, (Central Iran). 35<sup>th</sup> National Geosciences Conference. February 19-21, Tehran, Iran.
44. Taheri, A., **Rezaei-Kahkhaei, M.**, Ghasemi, H., (2017) Petrography and geochemistry of Chekneh adakitic domes. 35<sup>th</sup> National Geosciences Conference. February 19-21, Tehran, Iran.
45. Ansarifar, O., **Rezaei-Kahkhaei, M.**, Ghasemi, H. (2017) The formation temperature and the source of Reza Abad agates by  $^{18}\text{O}/^{16}\text{O}$ , SE Shahrood (Central Iran). Fourth National Conference on gemology, Crystallography and Mineralogy of Iran. Hamadan, Iran
46. Sheykhi, M., **Rezaei-Kahkhaei, M.**, Ghasemi, H. (2018) Determining the physico-chemical conditions of the parent magma of dykes from Gapdan pluton, NW Zahedan. 25<sup>th</sup> Symposium of Crystallography and Mineralogy of Iran, Shahrood, Iran, 445-452.
47. Sarnakhshi, Y., Fardoost, F., **Rezaei-Kahkhaei, M.**, (2018) Mineralogy, structure and texture and alteration of Kalut copper deposit, South Damghan. 36<sup>th</sup> National Geosciences Conference. Tehran, Iran.
48. Sarnakhshi, Y., Fardoust, F., **Rezaei-Kahkhaei, M.**, (2018) The mineralogy relationship with the fault structures of the region. 10<sup>th</sup> symposium of Iranian Society of Economic Geology, University of Isfahan, Iran.
49. Meskini Siahmard, S., Fardoust, F., **Rezaei-Kahkhaei, M.**, (2018) Geology, petrology and genesis of the Qeysary copper deposit, South Damghan. 10<sup>th</sup> symposium of Iranian Society of Economic Geology, University of Isfahan, Iran.
50. Aghaei, H., **Rezaei-Kahkhaei, M.**, Fardoust, F., (2018) Investigation of the structure and texture of the southern Ferdows agates and host rocks. 10<sup>th</sup> symposium of Iranian Society of Economic

Geology, University of Isfahan, Iran.

51. Aghaei, H., **Rezaei-Kahkhaei, M.**, Fardoust, F., (2018) Investigation of microstructures, geochemistry and color variation in South Ferdows agates (Southern Khorasan). The 21<sup>th</sup> Conference of Iranian Geological Society. University of Payam noor (Qom branch).
52. Asadi, M., **Rezaei-Kahkhaei, M.**, Ghasemi, H. (2018) Microstructures of plagioclase from Gareh Chay volcano: evidences of active magmatic system. The 21<sup>th</sup> Conference of Iranian Geological Society. University of Payam noor (Qom branch).
53. **Rezaei-Kahkhaei, M.** (2018) The Relation of Proterozoic Sialic Basement of Central Iran and Cenozoic Granitoids. International Symposium on the Granulite Facies Metamorphism and the Early Plate Tectonics.
54. Sadeghian, M., Shekari, M., Ghasemi, H., Zhai, M. G., Zhang, Y.B., Li, Q.L., **Rezaei-Kahkhaei, M.** (2018) Metabasites of Shotor Kuh Complex: Typical Example of the Neoproterozoic Intra-continental Tectonic Setting in the Iranian Gondwana Terrains: Thermobarometry, U-Pb Geochronology, Whole Rock and Sr-Nd Isotopic Geochemistry. International Symposium on the Granulite Facies Metamorphism and the Early Plate Tectonics.
55. Sadeghian, M., Balouchi, S., Ghasemi, H., Zhai, M. G., Zhang, Y.B., **Rezaei-Kahkhaei, M.** (2018) Late Neoproterozoic Jandagh Complex: a Typical Terran of the Cadomian Orogeny from Iran with Special Reference to U-Pb Geochronology, Geochemical Signatures and Sr-Nd Isotopic Characteristics. International Symposium on the Granulite Facies Metamorphism and the Early Plate Tectonics.
56. Sadeghian, M., Fazilat, S., Balouchi, S., Zhai, M. G., **Rezaei-Kahkhaei, M.**, Li, Q.L (2018) Using of AMS Method in the Interpretation of Magnetic Fabrics of Mylonitized Late Neoproterozoic Chah Zard Granitic Pluton (NE Jandagh, Iran). International Symposium on the Granulite Facies Metamorphism and the Early Plate Tectonics.
57. Sadeghian, M., Hoseini, S. H., Ghasemi, H., Zhai, M. G., Zhang, Y.B., **Rezaei-Kahkhaei, M.** (2018) Syn-Tectonic Granitoid Pluton in the E-SE Shahrood(NE Iran): Implication for Cadomian Orogeny in the Iranian Late Neoproterozoic Gondwana Terrains. International Symposium on the Granulite Facies Metamorphism and the Early Plate Tectonics.
58. Norouzi, N., , Fardoost., F., **Rezaei-Kahkhaei, M** (2019) Mineralogy and ore microscopy of the Satveh copper deposit, South Damghan. 27<sup>th</sup> National Symposium of Crystallography and Mineralogy of Iran (SCM 27), University of Birjand.
59. Nasiri Jouneghani, R., Fardoost., F., **Rezaei-Kahkhaei, M** (2020) Geology, Petrology and genesis of the chah Shirin copper deposit, south of Damghan. 12<sup>th</sup> Symposium of Iranian Society of Economic Geology. Bu-Ali Sina University Hamedan, Iran.

60. Mirbagheri, A., Fardoost., F., **Rezaei-Kahkhaei, M** (2021) An overview of volcanic belt fragmentation - Trudeau infiltration - sweet well. 13<sup>th</sup> National and 1th international Symposium of Iranian Society of Economic Geology. Lorestan University Khorramabad, Iran.
61. Vahdani-Hesari., **Rezaei-Kahkhaei, M.**, Ghasemi, H (2021) Mineral chemistry and tectonic setting of chromium-spinel of peridotites from Masih-Aabad (NE Mayamey), 13<sup>th</sup> National and 1th international Symposium of Iranian Society of Economic Geology. Lorestan University Khorramabad, Iran.

### ***Supervisor and Advisor of M.Sc. & Ph.D. Projects***

1. Keshavarzi R., (2009) Petrology of Neshveh granitoid, NW of Saveh (Central Iran). M.Sc. thesis, University of Tehran, Iran. 135 pp.
2. Sahrai, H., (2012) Petrogenesis of the Neshveh volcanic rocks, NW of Saveh. M.Sc. thesis, University of Tehran, Iran. 103 pp.
3. Saravani-Firouz, M., (2013) Mineral chemistry of Zargoli intrusive pluton (North West of Zahedan). M.Sc. thesis, University of Tehran, Iran. 130 pp.
4. Majidi, P., (2014) Emplacement Mechanism of the Challu Granitoidic Pluton Using Magnetic Fabric Method, Southern Damghan. M.Sc. thesis, University of Tehran, 150 pp.
5. Hemati, A., (2014) Stratigrafical setting, petrology and geochemistry of the SW Mayamey granitoidic plutons. M.Sc. thesis, Shahrood University of Technology, Iran. 130 pp.
6. Hajiloo, R., (2014) Geology, petrology and geochemistry of Moghiseh basaltic rocks (SW Sabzevar). M.Sc. thesis, Shahrood University of Technology, Iran. 140 pp.
7. Nahedifar, E., (2014) Mineralogy, geochemistry and genesis of Dian copper ore deposit (South of Damghan). M.Sc. thesis, Shahrood University of Technology, Iran. 147 pp.
8. Hashemi, F., (2015) Mineralogy, geochemistry and genesis of the Varandan Ba- Pb- Cu deposit in the Urumieh-Dokhtar Zone, South of Kashan. M.Sc. thesis, Shahrood University of Technology, Iran. 228 pp.
9. Barzgari, L., (2015) Crystal size distribution analysis of plagioclase and pyroxene in basaltic and andesitic rocks of Abbasabad area, East Shahrood. M.Sc. thesis, Shahrood University of Technology, Iran. 229 pp.
10. Alimousa, Z., (2016) Mineral chemistry and isotope geochemistry of Lakhshak granitoid plutons and its dikes. M.Sc. thesis, Shahrood University of Technology, 115 pp.
11. Rahbar, R., (2016) U-Pb dating of NW Zahedan intrusions, East Iran. M.Sc. thesis, Shahrood University of Technology, Iran. 115 pp.
12. Khanehdar-Kolver, M., (2017) Mineral chemistry of intrusive rocks and application of remote sensing for identification of Gardaneh Ahovan rocks, NE Semnan. M.Sc. thesis, Shahrood University of Technology, Iran. 169 pp.
13. Ansarifar, O., (2017) The enhancement of Reza Abad agates and determining their origin based on the stable isotopes, SE Shahrood (Central Iran). M.Sc. thesis, Shahrood University of Technology, Iran. 102 pp.
14. Ghasabi-Feyze, A., (2017) Mineral chemistry of volcanic rocks of North-Northeast Semnan, Iran. M.Sc. thesis, Shahrood University of Technology, Iran. 91 pp.
15. Rostami Hosuri, M., (2018) Petrology & isotope geochemistry of Oligomicene basalts in the E-SE of Shahrood (Central Iran). Ph.D. dissertation, Shahrood University of Technology, Iran.
16. Kamran, S., (2019) Petrology & isotope geochemistry of igneous rocks in the North-NE of Semnan (Central Iran). Ph.D. dissertation, Lorestan University, Iran.

17. Sheykhi, M., (2018) Mineral chemistry of Gapdan granitoid rocks, NW Zahedan. M.Sc. thesis, Shahrood University of Technology, Iran.
18. Asadi, M., (2019) Mineral chemistry of Qarah Chay Volcanic crater, NE of Sabzevar. M.Sc. thesis, Shahrood University of Technology, Iran.
19. Aghaei, H., (2019) Geology, mineralogy and Industrial Properties of Ferdos Agates, Central Iran. M.Sc. thesis, Shahrood University of Technology, Iran.
20. Sarnakhshi, E., (2019) Mineralogy, geochemistry and formation of Cha-Abad copper deposit, South Damghan. M.Sc. thesis, Shahrood University of Technology, Iran.
21. Meskini-Siamard, S., (2019) Mineralogy, geochemistry and formation of Kalot copper deposit, South Damghan. M.Sc. thesis, Shahrood University of Technology, Iran.
22. Pezeshki-Gharehche, F., (2019) Mineralogy, geochemistry and formation of Vankan barite-lead-copper deposit, North West of Semnan. M.Sc. thesis, Shahrood University of Technology, Iran.
23. Naderi-Dastgerdi, S., (2019) Zeolite geochemistry from Abbas-Abad volcanic rocks, NE of Shahrood: An approach for formation and their application. M.Sc. thesis, Shahrood University of Technology, Iran.
24. Norouzi, N., (2021) Mineralogy, geochemistry and genesis of the Satveh copper deposit, South of Damghan M.Sc. thesis, Shahrood University of Technology, Iran.
25. Shahabi, S., (2021) Mineral chemistry, whole rock and isotopic geochemistry and petrogenesis of igneous rocks of Shemshak Formation in Eastern and Central Alborz zone. Ph.D. dissertation, Shahrood University of Technology, Iran.
26. Mirbagheri, A. (2021) Mineralogy, geochemistry and genesis of Rabieinia copper deposit, Torud-Chaehshirin volcano-sedimentary belt. M.Sc. thesis, Shahrood University of Technology, Iran.
27. Sarhadi, N., (in progress) Isotope geochemistry, petrogenesis and emplacement mechanism of Garghe granitoid pluton (SE Iran). Ph.D. dissertation, Shahrood University of Technology, Iran.
28. Hoshmand, S., (in progress) Whole rock and isotopic geochemistry, mineral chemistry and petrogenesis of Lavarab Basaltic Rocks (North of Zahedan). Ph.D. dissertation, Shahrood University of Technology, Iran.

### ***Research Projects and Funds Received***

<b>Project</b>	<b>Supporting organization</b>	<b>Amount (Rial)</b>	<b>Date</b>
Considering the facility status of mosques and holy places in Bushehr Province and their locating on the map	The Organization of Endowments and Charity of Bushehr province	300/000/000	2013
Equipment of thin section lab.	Shahrood University of Technology	185/000/000	2016
Equipment of optic lab.	Shahrood University of Technology	3/600/000/00	continues

### ***Skills, Qualifications***

- Petrology Software Ability: Arc GIS, ENVI, Isoplot, FC-AFC-FCA-Mixing Modeler, FC Modeler, GCDkit, Igpct, Minpet, Newpet, StereoNet, Rockwork, Map Source, Triplot...
- Graphical Software Corel DRAW, Photoshop, Illustrator
- General Ability: Microsoft Office (word, Excel and Power point), ABBYY fine Reader, Paint Shop Pro...