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Research Interests

- Geochronological, geochemical, and mineralization studies on the magmatic/metamorphic processes
- Magmatic/metamorphic events associated with the spreading and closure of the Tethyan oceans

Education

- Post-Doc (2019), Petrology, Geology, University of Isfahan, Isfahan, Iran
- Post-Doc (2017), Petrology, Geology, University of Isfahan, Isfahan, Iran
- Ph.D. (2014), Petrology, Geology, University of Isfahan, Isfahan, Iran
- M.Sc. (2007), Petrology, Geology, University of Isfahan, Isfahan, Iran
- B.Sc., Geology, Geology, University of Isfahan, Isfahan, Iran
- Pre-University, Experimental sciences, Nasrin-Jenab pre-university school, Isfahan, Iran
- Diploma, Experimental Sciences, Behesht-Aeen governmental leading high school, Isfahan, Iran

Published Thesis/Research Projects

1. Nargess Shirdashtzadeh: Petrological evidence for the passage of various melts in Naein and Jandaq ophiolitic complexes. 2019, Post-Doctoral Report, Department of Geology, University of Isfahan, Isfahan, Iran. Unpublished report Supervisor: Ghodrat Torabi.
2. Nargess Shirdashtzadeh: Petrology and geochemistry of S-type granitoid intrusion of the Airekan area (North of Khur, Central Iran) and its role in the formation of radioactive deposit of Cheshmeh-Shotori. 2017, Post-Doctoral Report, Department of Geology, University of Isfahan, Isfahan, Iran. Published report Supervisor: Ghodrat Torabi (with English Abstract).
3. Nargess Shirdashtzadeh: Petrology of pillow lavas and amphibolites and metamorphism in mantle peridotites of Nain and Ashin ophiolites. 06/2014, Degree: Ph.D., Supervisor: Ghodrat Torabi (with English Abstract).
4. Nargess Shirdashtzadeh: Petrology of Metamorphic rocks of Nain Ophiolitic Melange (Isfahan Province). 07/2007, Degree: MSc, Supervisor: Ghodrat Torabi, Iraj Noorbehesht (with English Abstract) .

Publications in ISI Journals

5. Rahmani, M. I., Tabatabaei Manesh, S.M., Shirdashtzadeh, N. & Meisel, T. C. (2025) Subduction-related magmatism (SRM) and its effect on magma fertility; Oligocene-Miocene plutonism evolution in the center of Urumieh-Dokhtar magmatic arc, Iran. Journal of the Geological Society, 0(ja), jgs2024-154. <https://doi.org/10.1144/jgs2024-154>
6. Heidarianmanesh, A., Tabatabaei Manesh, S.M., Shirdashtzadeh, N. et al. (2025) Geochemical Characterization, Tectonic Setting, and Metamorphic History of Metabasites from Jandaq Metamorphic Complex, Iran. Petrology 33, 139–161. <https://doi.org/10.1134/S0869591124700371>
7. Ghadirpour, M., Torabi, G., Shirdashtzadeh, N., Meisel, T. C., & Morishita, T. (2025) A post-ophiolitic plutonism record in the Central-East Iranian Microcontinent: Evidence for Pre-Eocene age of Neo-Tethys subduction. Journal of African Earth Sciences, 228, 105628. <https://doi.org/https://doi.org/10.1016/j.jafrearsci.2025.105628>
8. Shirdashtzadeh, N., Dilek, Y., Furnes, H., Dantas, E. (2024). Early Jurassic and Late Cretaceous Plagiogranites in Nain-Baft Ophiolitic Mélange Zone in Iran: Remnants of Rift–Drift and SSZ Evolution of a Neotethyan Seaway. Journal of Geological Society of London (In press).
9. Veysi, S, Tabatabaei Manesh, S.M., Santos, J.F., Shirdashtzadeh, N. (2023). Lower Paleozoic to late Permian tensional intraplate magmatism in the Paleo-Tethyan subduction zone and mantle evolution in Central Iran Zone: Geochemistry, Nd-Sr isotope data of Lamprophyre. Petrology, 31(4): 459–474.
10. Shirdashtzadeh, N., Miller, N. R., Dantas, E., Furnes, H., Stern, R.J. Torabi, G., Meisel, T. (2022). Subduction initiation of the Neo-Tethys Ocean in Central Iran based on U-Pb geochronology, geochemical, and Nd isotope data of the Ashin ophiolite, Ophiolite. 47 (2), 155-171.
11. Salim, H., Torabi, G., Shirdashtzadeh, N., Sahlabadi, M., Tomako Morishita (2022) Early Oligocene continental alkali basalt of the Central Toveireh area (Southwest of Jandaq, Isfahan Province, Iran): Evidence of post-collision magmatism. Geotectonics. 56 (2), 241-256
12. Karimpour, M. H., Shirdashtzadeh, N., Sadeghi, M. (2022) Revisiting of Tectonic Settings, Geodynamics of Jurassic Magmatism and Geochemical Constraints on the Genesis of Sn mineralization in the Sanandaj-Sirjan Zone (SSZ), Iran. Geologos. 28 (1), 19-37

13. Shirdashtzadeh, N., Torabi, G., & Morishita, T. (2020). Evolution of lithospheric mantle in the north of Nain-Baft oceanic crust (Neo-Tethyan ophiolite of Ashin, Central Iran). *Island Arc*, 29, 1–12. <https://doi.org/10.1111/iar.12342>
14. Shirdashtzadeh, N., Torabi, G., Meisel, T., Harris, C., Morishita, T., & Tamura, A. (2020). Origin of Lower Paleozoic S-type magmatism in a northern terrane of Gondwana (Central Iran): Geochemical and isotopic approach. *Periodico Di Mineralogia*, 89(2), 189–213. <https://doi.org/10.13133/2239-1002/16608>
15. Shirdashtzadeh, N., & Torabi, G. (2020). Serpentinization and chloritization of metamorphosed lherzolites in Darreh-Deh (east of Nain Ophiolite, Central Iran): Calcium source for rodingitization and tremolitization. *Neues Jahrbuch Für Mineralogie-Abhandlungen (Journal of Mineralogy and Geochemistry)*, 196(3), 179–191. <https://doi.org/10.1127/njma/2019/0163>
16. Shirdashtzadeh, N., Torabi, G., & Schaefer, B. (2018). A magmatic record of Neoproterozoic to Paleozoic convergence between Gondwana and Laurasia in the northwest margin of the Central-East Iranian Microcontinent. *Journal of Asian Earth Sciences*, 166, 35–47. <https://doi.org/10.1016/j.jseaes.2018.07.008>
17. Shirdashtzadeh, N., Kachovich, S., Aitchison, J. C., & Samadi, R. (2015). Mid-Cretaceous radiolarian faunas from the Ashin Ophiolite (western Central-East Iranian Microcontinent). *Cretaceous Research*, 56, 110–118. <https://doi.org/10.1016/j.cretres.2015.04.003>
18. Samadi, R., Miller, N., Mirnejad, H., Harris, C., Kawabata, H., & Shirdashtzadeh, N. (2014). Origin of garnet in aplite and pegmatite from Khajeh Morad in northeastern Iran: A major, trace element, and oxygen isotope approach. *Lithos*, 208, 378–392. <https://doi.org/10.1016/j.lithos.2014.08.023>
19. Shirdashtzadeh, N., Torabi, G., Meisel, T., Arai, S., Bokhari, S. N. H., Samadi, R., & Gazel, E. (2014). Origin and evolution of metamorphosed mantle peridotites of Darreh Deh (Nain Ophiolite, Central Iran): Implications for the Eastern Neo-Tethys evolution. *Neues Jahrbuch Fur Geologie Und Palaontologie - Abhandlungen*, 273(1), 89–120. <https://doi.org/10.1127/0077-7749/2014/0418>
20. Shirdashtzadeh, N., Torabi, G., & Arai, S. (2011). Two Mesozoic oceanic phases were recorded in the basic and metabasic rocks of the Nain and Ashin-Zavar ophiolitic mélanges (Isfahan province, Central Iran). *Ophioliti*, 36(2), 191–205. <https://doi.org/10.4454/ofioliti.v36i2.400>
21. Torabi, G., Shirdashtzadeh, N., Arai, S., & Koepke, J. (2011). Paleozoic and Mesozoic ophiolites of Central Iran: Amphibolites from Jandaq, Posht-e-Badam, Nain, and Ashin ophiolites. *Neues Jahrbuch Fur Geologie Und Palaontologie - Abhandlungen*, 262(2), 227–240. <https://doi.org/10.1127/0077-7749/2011/0194>
22. Shirdashtzadeh, N., Torabi, G., & Arai, S. (2010). Metamorphism and metasomatism in the Jurassic Nain ophiolitic mélange, Central Iran. *Neues Jahrbuch Fur Geologie Und Palaontologie - Abhandlungen*, 255(3), 255–275. <https://doi.org/10.1127/0077-7749/2009/0017>

Publications in ISC Journals

About 27 Persian research papers are published in national scientific research journals (with DOI/Link and English abstracts):

23. Safdari, E. and Shirdashtzadeh, N. (2025) Mantle heterogeneity beneath the oceanic crust of forearc basin of Nain ophiolite based on the composition of pyroxenes in the harzburgites. *Petrological Journal*, 16(2), in Press.
24. Naderi, F., Torabi, G., Shirdashtzadeh, N. (2024) Seawater-originated fluids interactions with oceanic lithospheric mantle peridotites and formation of hornblende dykes, as well as spadaite and dolomite veins in the Naein ophiolite (Isfahan Province, Iran). *Journal of Economic Geology*, 16(4), 75–99. <https://doi.org/10.22067/econg.2024.1128>
25. Allahyari Abhari, M., Shirdashtzadeh, N., Harris, C., & Ghorbani, M. (2024) Paleo-Tethys subduction to closure and the continental collision in the north of the eastern subcontinent of central Iran, Evidence from petrography and stable oxygen isotope in Chah Zard meta-granite in the east of Jandaq. *Petrological Journal*, 15(3), 69–88. <https://doi.org/10.22108/ijp.2024.142870.1343>
26. Shirdashtzadeh, N. (2023) Paleozoic high-temperature metamorphism and deformation related to Proto-Tethys closure and Paleo-Tethys opening in the north of Central-East Iranian Microcontinent, based on the mineralogy of Airakan metagranite. *Petrological Journal*, 14(3), 163–188. <https://doi.org/10.22108/ijp.2024.140318.1317>
27. Amani, S., Rajabi, S., Torabi, G., Shirdashtzadeh, N. (2023) Lower Oligocene Geological Evolution of Chah Ali Khan Region (Northeast of Isfahan Province); Based on the study of alkali basalt dykes. *Journal of Economic Geology*, 15(4), 137–158. <https://doi.org/10.22067/econg.2023.84766.1090>
28. Ghadirpour, M., Torabi, G., Shirdashtzadeh, N. (2023) Magmatic evolution of the middle crust of Eocene andesitic volcanic rocks of Kulot Kandahari (northwest of Anark and Zovar, Isfahan province). *Iranian Journal of Crystallography and Mineralogy (IJCM)*, 31(3), 508–497. <http://dx.doi.org/10.61186/ijcm.31.3.497>
29. Salim, H., Torabi, G., Shirdashtzadeh, N. (2023) Mineralogy of Oligocene alkali basalts and sillimanite xenoliths found in them (Southwest of Jandaq, Isfahan Province, Central Iran). *Iranian Journal of Crystallography and Mineralogy (IJCM)*, 31 (2), 305–318. http://ijcm.ir/browse.php?a_id=1777&sid=1&slc_lang=en
30. Heidarian Menesh, A., Tabatabai Menesh, S.M., Shirdashtzadeh, N. (2022) Petrography and application of mineral chemistry and thermobarometry of amphibolites in Jandaq metamorphic complex: Evidence of paleo-tectonic events in Central Iran. *Scientific-Research Quarterly of Earth Sciences*, No. 32, Volume IV, <https://doi.org/10.22071/gsj.2022.329201.1981>
31. Karimpour, H., Shirdashtzadeh, N., Sadeghi, M. (2021) Granitoids of Sanandaj-Sirjan Zone that are concurrent with Cimmerian Orogeny (178–160 Ma) belong to ilmenite series (S-type): investigation of the reason for lacking the porphyry tin mineralization. *Journal of Economic Geology*, 13(1): 1–28. <https://doi.org/10.22067/econg.v13i1.1011>
32. Rahmani Moghadam, A., Tabatabai Menesh, S.M., Shirdashtzadeh, N., Amani, A. (2021) Mineralogy, geochemistry, tectonic environment and origin of granodiorite in the east of Bideshk (Urumieh-Dokhtar magmatic zone). *Journal of Economic Geology*, Volume 13, Number 4, Serial Number 31, Pages 719–740. <https://doi.org/10.22067/econg.2021.52036.87968>
33. Tabatabayimensh, S.M., Shirdashtzadeh, N., Ranjbar, S. (2018) Petrography, geothermobarometry and tectonomagmatic setting of intrusive rocks in Khuni (Northeast of Anarak, Central Iran). *Geoscience Journal of Khawarزمi University*, 6 (2): 375–396. <http://gnf.khu.ac.ir/article-1-2762-En.html>
34. Shirdashtzadeh, N., and Torabi, Q. (2019). Petrography and geothermobarometry of lherzolites in Chah-Loqeh (Ashin Ophiolite). *Scientific-Research Quarterly of Earth Sciences*, 116, 81–92. <https://doi.org/10.22071/gsj.2019.170375.1619>
35. Shirdashtzadeh, N., Torabi, G. and Samadi, R. (2018). Application of petrologic findings and geochemical data in environmental geology studies of ophiolitic areas: Case studies in the north of Nain and Ashin (Isfahan Province). *Recent findings in applied geology*, 13(26), 67–78. <https://doi.org/10.22084/nfag.2019.17856.1346>

36. Shirdashtzadeh, N., Torabi, G. and Samadi, R. (2016). Petrography And Mineral Chemistry Of Metamorphosed Mantle Peridotites Of Nain Ophiolite (Central Iran). *Journal of Economic Geology*, 9(1), 57–72. <https://doi.org/10.22067/econg.v9i1.40728>.
37. Shirdashtzadeh, N., Torabi, G. and Samadi, R. (2015). Petrography and mineral chemistry of amphibolitic fragments in the south of Nain Ophiolite skarns, Central Iran. *Scientific-Research Quarterly of Earth Sciences*, 26(102), 153-164. <https://doi.org/10.22071/gsj.2017.44135>.
38. Abbasi, G., Ebrahimi, M., Sharifi, M., Shirdashtzadeh, N., and Ahmadian, J. (2015). Determining tectonomagmatic environment of the volcanic rocks in Northeast of the Gavkhuni playa lake using geochemical data. *Scientific-Research Quarterly of Earth Sciences*, 25(99), 85-94. <https://doi.org/10.22071/gsj.2016.40793>.
39. Shirdashtzadeh, N., Torabi, G. Samadi, R., Maisel, T., and Hossein-Bukhari, S. N. (2014). Petrography, thermobarometry and geochemistry of Darreh Deh picrites (East of Nain ophiolitic mélange). *Scientific-Research Quarterly of Earth Sciences*, 25(98), 43-54. <https://doi.org/10.22071/gsj.2016.41159>.
40. Samadi, R., Shirdashtzadeh, N., and Kawabata, H. (2014). Petrography and Petrogenesis of Aplite- Pegmatite Dykes and Granitoids of Khajeh Morad (SE Mashhad, Iran). *Scientific-Research Quarterly of Earth Sciences*, 25(97), 49-60. <https://doi.org/10.22071/gsj.2015.41351>.
41. Shirdashtzadeh, N., Torabi, G. and Samadi, R. (2013). Geochemistry of pillow lavas and their clinopyroxene: ophiolitic mélanges of Nain and Ashin, northeastern Isfahan province. *Journal of Economic Geology*, 6(1), 49–70. <https://doi.org/10.22067/econg.v6i1.19911>.
42. Samadi, R., Mirenjad, H., Shirdashtzadeh, N., and Kawabata, H. (2011). Application of garnet chemistry in thermodynamic studies of Dehnow Tonalite (Northwest of Mashhad). *Iranian Journal of Crystallography and Mineralogy*, 20(2), 253-264. <http://ijcm.ir/article-1-378-En.html>.
43. Torabi, G. and Shirdashtzadeh, N. (2010). Petrology of Eocene volcanic rocks in NE of Ordib (NE of Isfahan Province). *Iranian Journal of Crystallography and Mineralogy*, 17(4), 519-534. <http://ijcm.ir/article-1-549-En.html>.
44. Jabari, A., Ghorbani, M., Koepke, Y., Torabi, G. and Shirdashtzadeh, N. (2010). Petrography and mineral chemistry of basaltic dykes in the west of Borooni (SW of Ardestan, Iran): evidence of magma mixing. *Petrological Journal*, 1(2), 17–30. <http://ijp.ui.ac.ir/article-16038.html>.
45. Torabi, G., Abdulahi, A., and Shirdashtzadeh, N. (2008). Application of mineral and whole rock analysis in identification of petrogenesis of the pillow lavas in the Nain ophiolite. *Iranian Journal of Crystallography and Mineralogy*, 16(2), 295-312. <http://ijcm.ir/article-1-640-En.html>.
46. Torabi, G., Noorbehesht, A., Shirdashtzadeh, N., and Pirmia, T. (2007). Geothermometry of skarns in the Nain ophiolitic melange (Isfahan Province). *Iranian Journal of Crystallography and Mineralogy*, 15(2), 357–382. <http://ijcm.ir/article-1-818-fa.html>.
47. Torabi, Q. A., Shirdashtzadeh, N., Noorbehesht, A., and Pirmia, T. (2007). Study Of Amphibolitic Rocks In The Ophiolitic Melanges Of Nain And Ashin-Zavar. *Research Journal of Basic Sciences of Isfahan University (Special issue of Geology)*, 29(3), 109-128. <https://www.sid.ir/paper/55910/en>.
48. Torabi, G., Arai, S., Shirdashtzadeh, N., Shirasaka, M., Jabari, A., and Torabi, H. (2006). Study Of Skarns In North Of Nain Ophiolitic Melange (Isfahan Province, Iran). *Research Journal of Basic Sciences of Isfahan University (Special issue of Geology)*, 23(1), 223-230. <https://www.sid.ir/paper/404751/En>.

Published books

Two professional Persian books in Petrology were published on the subjects of ‘garnet mineral’ and ‘thermobarometry methods’:

49. Shirdashtzadeh, N., and Samadi, R. (1389). An Introduction to methods of geothermometry and geobarometry. Published by Author (04-4854-04-964-978:ISBN).
50. Samadi, R., and Shirdashtzadeh, N. (1389). Garnet (Implications in Mineralogy, Origin and thermobarometry). Published by Author (04-5349-04-964:ISBN).

Scientific Presentations

51. **[English Presentation]:** Shirdashtzadeh, N., & Torabi, G. (2017). Evolution of Eastern Neotethys based on the petrology of igneous and metamorphic rocks from Nain and Ashin Ophiolites (Central Iran). *Bilateral Symposium on "Orogens and Sedimentary Basins along the Alpine-Himalayan Chain and Their Foreland"*, (Monday, 6 March 2017), University of Isfahan, Isfahan, Iran DOI: 10.13140/RG.2.2.24958.72009
52. **[In Persian]:** Shirdashtzadeh, N., and Torabi, G. (2018). Petrology and geochemistry of the S-type granitoid body of Airkan region (North Khor, Central Iran). The first specialized meeting on the topic of Neoproterozoic basement of Iran (series of specialized meetings on geological challenges of Iran), Shahrood University.
53. **[In Persian]:** Shirdashtzadeh, N., and Torabi, G. (2007). Application of clinopyroxene as geothermometer and petrogenic indicator of amphibolites. The 11th Geology Association Conference, Ferdowsi University.
54. Shirdashtzadeh, N., Torabi, G., & Samadi, R. (2012). Spinel composition in pillow lavas from Mesozoic ophiolites of Nain and Ashin (Central East Iranian microplate). The 6th International Siberian Early Career GeoScientists Conference (11th to 14th June 2012), (ISBN: 1564), Institute of Geology and Mineralogy SB RAS, Russia. <http://www.minsoc.ru/confs.php?cid=882>
55. Shirdashtzadeh, N., Torabi, G., & Samadi, R. (2013). Composition of serpentine after olivine and orthopyroxene: Serpentinized peridotites of Nain ophiolite (Isfahan Province, Iran). *Goldschmidt Conference (25–30 August 2013)*, Florence, Italy, *Mineralogical Magazine*, 77(5) 2205. <https://doi.org/10.1180/minmag.2013.077.5.19>

Publications in international conferences' proceedings

56. Shirdashtzadeh, N., Torabi, G., Miller, N. R., & Dantas, E. (2019). Basalts and ortho-amphibolites from Neo-Tethyan Ophiolite of Ashin (Central Iran): An approach to LA-ICP-MS of clinopyroxenes and U–Pb dating of zircons. *Goldschmidt Abstract*, 2019, 3090 (18-23 August 2019), Barcelona, Spain. <https://goldschmidt.info/2019/abstracts/abstractView?id=2019002841>

57. Shirdashtzadeh, N., & Torabi, G. (2017). Evolution of Eastern Neotethys based on the petrology of igneous and metamorphic rocks from Nain and Ashin Ophiolites (Central Iran). Bilateral Symposium on "Orogens and Sedimentary Basins along the Alpine-Himalayan Chain and Their Foreland", (Monday, 6 March 2017), University of Isfahan, Isfahan, Iran.
58. Shirdashtzadeh, N., Torabi, G., & Samadi, R. (2013). Composition of serpentinite after olivine and orthopyroxene: Serpentinized peridotites of Nain ophiolite (Isfahan Province, Iran). Goldschmidt Conference (25–30 August 2013), Florence, Italy, Mineralogical Magazine, 77(5) 2205. <https://doi.org/10.1180/minmag.2013.077.5.19>
59. Samadi, R., Zakariaee, S. J. S., & Shirdashtzadeh, N. (2013). Magmatic Epidote In Calcalkaline Tonalite, Dehnow (Nw Mashhad, NE Iran). Goldschmidt Conference (25–30 August 2013), Florence, Italy, Mineralogical Magazine, 77(5) 2120. <https://www.goldschmidtabstracts.info/abstracts/abstractView?id=2013002096>
60. Shirdashtzadeh, N., Torabi, G., & Samadi, R. (2012). Spinel composition in pillow lavas from Mesozoic ophiolites of Nain and Ashin (Central East Iranian microplate). The 6th International Siberian Early Career GeoScientists Conference (11th to 14th June 2012), (ISBN: 1564), Institute of Geology and Mineralogy SB RAS, Russia. <http://www.minsoc.ru/confs.php?cid=882>
61. Samadi, R., & Shirdashtzadeh, N. (2012). Occurrence of I-type granitoid in the Paleo-Tethys ophiolite and associated metaflysch (Mashhad, NE Iran). The 6th International Siberian Early Career GeoScientists Conference (11th to 14th June 2012), (ISBN: 1564), Institute of Geology and Mineralogy SB RAS, Russia. <http://www.minsoc.ru/confs.php?cid=882>
62. Shirdashtzadeh, N., Samadi, R., & Torabi, G. (2011). Introduction of three granitoid types with different origins from Ophiolitic Mélange of Nain (Central Iran). Goldschmidt Conference (14–19 August 2011), Prague, Czech Republic, Mineralogical Magazine, 75(3) 1863. <https://www.goldschmidtabstracts.info/abstracts/abstractView?id=2013002096>
63. Samadi, R., & Shirdashtzadeh, N. (2011). A New Debate on the Origin of Granitoid Rocks from Dehnow Area (NE Iran), Based on Isotopic Data. Goldschmidt Conference (14–19 August 2011), Prague, Czech Republic, Mineralogical Magazine, 75(3) 1785. <https://goldschmidtabstracts.info/abstracts/abstractView?id=2011004183>
64. Shirdashtzadeh, N., Torabi, G., & Samadi, R. (2010). Metamorphic rocks in ophiolitic mélange of Nain (Isfahan, Iran). The First International Applied Geological Congress (2010-04-26 to 28), Islamic Azad University of Mashhad, Mashhad, Iran. <https://en.symposia.ir/IAGC01>
65. Jamali, M., Shirdashtzadeh, N., & Samadi, R. (2010). Petrogenesis of Pseudo-colored mélange of middle Zefreh fault. The First International Applied Geological Congress (2010-04-26 to 28), Islamic Azad University of Mashhad, Mashhad, Iran.
66. Samadi, R., Shirdashtzadeh, N., & Kawabata, H. (2010). Petrology of tonalitic rocks of Dehnow (Northwest of Mashhad, Iran). The First International Applied Geological Congress (2010-04-26 to 28), Islamic Azad University of Mashhad, Mashhad, Iran.

Publications in national conferences' proceedings

About 35 Persian papers are published in national scientific conferences:

67. Mobalegi, M.R., Shahriari, E., Shirdashtzadeh, N., Lawaii, R.*, and Sohbat Golberg, M.R. (2025) Remote sensing and petrography of ultramafic rock units in the northwestern Nain ophiolite (east of Isfahan Province). 6th National Symposium of the Iranian Remote Sensing Association in Geology, University of Shiraz.
68. Kodkhodaei, A.R., and Shirdashtzadeh, N. (2024) Evaluation of depth and temperature of the Neotethys Ocean water and viscosity and cooling rate of the melt forming pillow lavas in the southeastern Delijan area based on petrographic studies. 43rd Annual Geosciences Conference, Geological Survey of Iran, Tehran.
69. Shahriari, E., Shirdashtzadeh, N., and Mobalegi, M.R. (2024) Onset of Neotethys subduction in the northern Nain ophiolite area based on spinel chemistry in harzburgites. 43rd Annual Geosciences Conference, Geological Survey of Iran, Tehran.
70. Safdari, A., and Shirdashtzadeh, N. (2023) [Title appears to be duplicated with #71–72; intended title:] Evidence of subduction to continental collision related to the closure of Paleotethys in the north of the Yazd Block based on petrography of the Chah Zard metagranite in the east of Jandaq. 42nd Annual Geosciences Conference, Geological Survey of Iran, Tehran.
71. Allahyari Abhari, M., Shirdashtzadeh, N., and Ghorbani, M.R. (2023) Evidence of subduction to continental collision related to the closure of Paleotethys in the north of the Yazd Block based on petrography of the Chah Zard metagranite in the east of Jandaq. 42nd Annual Geosciences Conference, Geological Survey of Iran, Tehran.
72. Safdari, A., Shirdashtzadeh, N., Allahyari Abhari, M., and Ghorbani, M.R. (2023) Evidence of subduction to continental collision related to the closure of Paleotethys in the north of the Yazd Block based on petrography of the Chah Zard metagranite in the east of Jandaq. 42nd Annual Geosciences Conference, Geological Survey of Iran, Tehran.
73. Mohammadi, H., Shirdashtzadeh, N., and Ghorbani, M.R. (2023) Mineral chemistry and petrogenesis of felsic volcanic rocks of the Urumieh–Dokhtar magmatic arc: a comparison of the alkaline trend of Shahrab and calc-alkaline trend of Aran–Kajan. 42nd Annual Geosciences Conference, Geological Survey of Iran, Tehran.
74. Shirdashtzadeh, N., and Torabi, G. (2018) Petrology and geochemistry of the S-type granitoid body of the Airakan area (north of Khur, Central Iran). 1st Specialized Meeting on Neoproterozoic Basement Complexes of Iran (Series of Specialized Meetings on Geological Challenges of Iran), Shahrood University.
75. Sahlabadi, M., Torabi, G., and Shirdashtzadeh, N. (2018) Petrography and mineral chemistry of Lower Oligocene alkaline basalts of Tureh-ye Markazi (southwest of Jandaq, northeast of Isfahan Province). 21st Symposium of the Geological Society of Iran and 11th National Specialized Symposium of Geology of Payame Noor University, Payame Noor University of Qom.
76. Abbasi, Gh., Ebrahimi, M., Sharifi, M., and Shirdashtzadeh, N. (2012) Mineralogy and petrography of volcanic rocks northwest of Gavkhouni Marsh (southeast of Isfahan). 20th Symposium on Crystallography and Mineralogy, Shahid Beheshti University, Ahvaz (Chamran).
77. Samadi, R., and Shirdashtzadeh, N. (2010) Geobarometry of garnet schists of the Dehnow area using the GBMAQ method. 4th National Symposium of Geology, Payame Noor University, Mashhad.
78. Shirdashtzadeh, N., Torabi, G., and Samadi, R. (2010) Application of garnet–muscovite thermometry for high-K granitoids in the Nain ophiolitic mélange. 4th National Symposium of Geology, Payame Noor University, Mashhad.
79. Samadi, R., Shirdashtzadeh, N., and Shieyan, K. (2009) Investigation of thermal conditions governing the formation of schists in the Dehnow area (northwest of Mashhad): application of the garnet–muscovite geothermometry method. 1st National Symposium of Mining and Related Sciences, Islamic Azad University, Tabas Branch.
80. Samadi, R., Shirdashtzadeh, N., Valizadeh, M.V., and Mirnejad, H. (2009) Application of biotite composition in studying the origin and thermodynamic conditions of tonalites in the Dehnow area (northwest of Mashhad). 27th Annual Geosciences Conference and 13th Symposium of the Geological Society, Geological Survey of Iran, Tehran.

81. Samadi, R., Shirdashtzadeh, N., and Kawabata, H. (2009) Titanium-in-biotite geothermometry: garnet schists of the Dehnow area (northwest of Mashhad). National Conference on New Achievements in Earth Sciences, Islamic Azad University, Behbahan.
82. Samadi, R., and Shirdashtzadeh, N. (2009) Study of petrogenesis of the Dehnow tonalite body (northwest of Mashhad). 3rd Specialized Symposium of Geology, Payame Noor University, Isfahan.
83. Shirdashtzadeh, N., M., J., Samadi, R., and Torabi, G. (2008) Application of garnet–hornblende geothermometry for amphibolites in the Nain ophiolitic mélange. 12th Symposium of the Geological Society, National Iranian Oil Company – South Oil-rich Areas, Ahvaz.
84. Shirdashtzadeh, N., Samadi, R., and Torabi, G. (2008) Application of garnet in investigating the origin and thermodynamic conditions of granite. 12th Symposium of the Geological Society, National Iranian Oil Company – South Oil-rich Areas, Ahvaz.
85. Samadi, R., Shirdashtzadeh, N., Valizadeh, M.V., and Mirnejad, H. (2008) Investigation of mineralization potential in the skarn body based on garnet composition (Dehnow, northwest of Mashhad). National Symposium on Environment and Geology, Islamic Azad University, Islamshahr.
86. Torabi, G., Hemmati, A., and Shirdashtzadeh, N. (2007) Petrography and mineral chemistry of basic volcanic rocks west of Bayazeh (south of Khur, Isfahan Province). 15th Symposium on Crystallography and Mineralogy, Ferdowsi University.
87. Torabi, G., Karimi, S., and Shirdashtzadeh, N. (2007) Petrography and mineral chemistry of pillow lavas and diabases north of Hajjiabad (southwest of Khur, Isfahan Province). 15th Symposium on Crystallography and Mineralogy, Ferdowsi University.
88. Torabi, G., Bayat, F., and Shirdashtzadeh, N. (2007) Study of Paleozoic metabasites of Mount Mearaji, east of Anarak area (Isfahan Province). 15th Symposium on Crystallography and Mineralogy, Ferdowsi University.
89. Tabatabaei-Manesh, S.M., Torabi, G., Mahmoudabadi, L., and Shirdashtzadeh, N. (2007) Petrography and mineral chemistry of Eocene volcanics southwest of Jandaq (northeast of Isfahan). 15th Symposium on Crystallography and Mineralogy, Ferdowsi University.
90. Torabi, G., F., B., and Shirdashtzadeh, N. (2007) Petrography and mineral chemistry of basic rocks in Kuh-e Chah-e Palang (south of Chupanan – northeast of Isfahan). 15th Symposium on Crystallography and Mineralogy, Ferdowsi University.
91. Shirdashtzadeh, N., and Torabi, G. (2007) Application of clinopyroxene as a geothermometer and petrogenetic indicator for amphibolites. 11th Symposium of the Geological Society, Ferdowsi University.
92. Pirnia, T., Torabi, G., and Shirdashtzadeh, N. (2007) Determination of temperature, pressure, depth, and the type of process affecting the formation of mantle peridotites in the Nain ophiolite. 1st Congress of Applied Geology, Islamic Azad University, Mashhad.
93. Shirdashtzadeh, N., Torabi, G., and Nourbehesht, A. (2007) Study of various rock fragments in the skarns of the northern Nain ophiolitic mélange. 1st Congress of Applied Geology, Islamic Azad University, Mashhad.
94. Pirnia, T., Torabi, G., and Shirdashtzadeh, N. (2006) Comparison of lherzolites in the Nain and Ashin-e Zavar ophiolitic mélanges. Research Week 2006, University of Isfahan.
95. Torabi, G., Nourbehesht, A., Shirdashtzadeh, N., and Pirnia, T. (2006) Investigation of enclaves in the skarns of the Nain ophiolitic mélange (Isfahan Province). 14th Symposium on Crystallography and Mineralogy, University of Birjand.
96. Shirdashtzadeh, N., Torabi, G., Pirnia, T., and A., A. (2006) Investigation of metamorphic types and metamorphic rocks in the northern Nain ophiolitic mélange. Research Week 2006, University of Isfahan.
97. Torabi, G., Nourbehesht, A., and Shirdashtzadeh, N. (2006) Geothermometry of skarns and granites in the Nain ophiolitic mélange (Isfahan Province). 10th Symposium of the Geological Society, Tarbiat Modares University.
98. Torabi, G., Pirnia, T., and Shirdashtzadeh, N. (2006) Study of clinopyroxene chemistry in harzburgites and lherzolites from the mantle section of the Nain ophiolitic mélange (Isfahan Province). 10th Symposium of the Geological Society, Tarbiat Modares University.
99. Torabi, G., Nourbehesht, A., and Shirdashtzadeh, N. (2005) Study of amphibolites and skarns in the northern Nain ophiolitic mélange (Isfahan Province). 24th Annual Geosciences Conference, Geological Survey of Iran, Tehran.
100. Torabi, G., Nourbehesht, A., and Shirdashtzadeh, N. (2005) Mineralogy of skarns in the northern Nain ophiolitic mélange (Isfahan Province). Research Week 2005, University of Isfahan.

Honors, Grants & Awards

- ✓ Brilliant talent at M.Sc. and Ph.D. levels
- ✓ Selected by the National Elite Foundation
- ✓ Selected National student of 2015 (appreciated by the Vice President and Minister of MSRT)
- ✓ Selected Student at the University of Isfahan in 2016, 2016, 2015, 2015, 2015
- ✓ Winner of "Shahid Tehrani Award" in 2016
- ✓ Winner of the "Dr. Kazemi Ashtiani Award " in 2016
- ✓ Winner of the "Dr. Shahid Chamran Postdoctoral Award" in 2016

Teaching Experience

2022-2026	Tarbiat Modares University (PhD level)	Ophiolites
		Petrological Processes of Subduction Zones
	Tarbiat Modares University (MSc level)	Physical Properties of Silicate Melts
		Petrogenesis of Metamorphic Rocks of Iran
2022-2023	University of Isfahan (PhD level)	Application of Isotopes in Petrology
		Petrogenesis of Igneous Rocks
	University of Isfahan (MSc level)	Petrogenesis of Metamorphic Rocks
		Micro-structures in Igneous and Metamorphic Rocks
2016-2017	University of Isfahan (PhD level)	Igneous and Metamorphic Geochemistry
		Magmatism and Metamorphism of Iran
2022-2023	University of Isfahan (PhD level)	Granites
		Petrology of Igneous Rocks II
2022-2023	University of Isfahan (MSc level)	Advanced Geochemistry
		Ophiolites

	University of Isfahan (MSc level)	<i>Petrofabrics</i> <i>Petrology of Igneous Rocks I</i> <i>Petrofabrics</i> <i>Petrology of Igneous Rocks I</i> <i>Petrofabrics</i>
2007-2009	University of Shahin-Shahr (BSc level)	<i>Geometric and Optical Crystallography</i> <i>Photogeology</i> <i>Igneous and Metamorphic Petrology</i> <i>Silicates and non-silicates Mineralogy</i> <i>English for Geologists</i>

Thesis' Supervisor/Advisor

Tarbiat Modares University (2021-Present)

Proposal Preparation	Supervisor, PhD student (Masomeh Aghazadeh Abdulabad)
Proposal Preparation	Supervisor, PhD student (Atefeh Azimi)
Microstructure and chemistry of replacive minerals in the harzburgites from the south of Kuh Zard, Nain Ophiolite	Supervisor, MSc student (Ehsan Shahriyari)
Geochemistry and origin of pillow lavas in the southeastern Delijan	Supervisor, MSc student (Alireza Kadkhodaei)
Petrogenesis and origin of subduction-related magmatism in the north of Moalleman, north of Central Iran	Supervisor, PhD student (Mahdokht Pour Alizadeh Moghadam)
Textural, geochemical, and mineralogical properties of peridotites (Finished)	Supervisor, MSc student (Elahe Safdari)
Application of isotope data in studying a subduction-related granite (Finished)	Supervisor, MSc student (Mahdi Alahyari Abhari)
Mineral chemistry and petrogenesis of felsic volcanic rocks of Urmia Dokhtar magmatic arc; Comparison of Shahrab's alkaline process and Aran Kajan's calc-alkaline	Advisor, MSc student (Hamid Mohammadi)
Precambrian and Paleozoic magmatism and metamorphism of Kalat-Resham, South Damghan, Central Iran	Advisor, Ph.D. student (Roghaya Nemati)

University of Isfahan (2012-Present)

Petrology and geochemistry of igneous rocks in the Do-Chahi area (northwest of Qaleh-Zari, central part of the Lut Block) with emphasis on Cu–Au mineralization	Advisor, PhD student (Hussain Sani Ghalhar)
Petrology and geochemistry of Cenozoic intrusive and volcanic rocks in Kalat Kandahari mountain (West Anark coast, Isfahan province, Iran) (Finished)	Advisor, PhD student (Marzieh Ghadirpour)
Petrology and petrofabric of metamorphic rocks in the east of Jandaq-north-northeast of Isfahan province (central Iran zone)	Advisor, Ph.D. student (Arefa Heidarian Manesh)
Petrology of intrusive rocks of Shuja Abad - Koh Sefid, southwest to the northwest of Natanz, the central part of Urmia-Dokhtar magmatic zone	Advisor, Ph.D. student (Elham Amani)
Mineralogy, geochemistry, tectonic environment, and origin of granodiorite in the east of Bidshak (Urumieh-Dokhtar magmatic zone) (Finished)	Advisor, Ph.D. student (Iman Rahmani Moghadam)
Mineralogy of Xenoliths in Alkaline Oligocene Basalts from Southwest Jandaq to Northwest Ashin (Isfahan Province, Iran) (Finished)	Advisor, PhD student (Hanan Salim)
Petrology of the lower Oligocene basic dykes of the Kaferkoh area (northwest of Anark, Isfahan province) (Finished)	Advisor, MSc student (Safora Zamani)
Petrology of Eocene Volcanic Rocks of Baba Khaled Mountain (Northwest of Anark, Isfahan Province) (Finished)	Advisor, MSc student (Zahra Naghdi)
Petrology of the Lower Oligocene alkali- basalts in the Central Toveireh (Southwest of the Jandaq, Northeast Isfahan Province) (Finished)	Advisor, MSc student (Moloud Sahlabadi)
Ca-metasomatism of Picritic dykes in the northeast of Separu (Naein ophiolite, NE of Isfahan) (Finished)	Advisor, MSc student (Mitra Nezafat)

University of Zanjan (2012-3)

Petrology and geochemistry of volcanic rocks northeast of Gavkhoni Lagoon (Finished)	Advisor, MSc student (Ghazaleh Abbasi)
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Analytical Experience

- Laboratory expert in Kimia Pazhouh Alborz Minerals Analysis Company (analysis of rocks, environment, and occupational health samples with ICP-OES) (2018)
- Consultant of the ICP-OES analysis department in the Central Laboratory of Isfahan University (2018)

Other Achievements

- Subject Editor in the Journal of Geological Society of London
- Editor of Thematic Collection in the Journal of Geological Society of London (Subject: *Ore Deposits and Ore Forming Processes in the Western Asian Domain of the Tethyan Realm*)
- Associate-Editor in the Scientific Journal of "Petrological Journal"
- Persian-Editor in the Scientific Journal of "Petrological Journal"
- Scientific journals' reviewer (Petrological Journal, Journal of Economic Journal, Geosciences, Natural Hazards, and Earth System Sciences, Arabian Journal of Geoscience, Earth Sciences Research Journal, Geochemistry, Mineral, Applied Sciences, Journal of Geosciences of London, Ofioliti, ...)
- Owner, administrator, designer, and supporter of professional scientific channels (in Persian messengers) and websites: @petrology, www.petrology.ir, www.mineralogy.ir
- Cooperation in the preparation of educational booklets for master's and doctorate exam courses (Zemin Azmon Group (www.zaminazmoon.ir))
- Technical officer and mining intern (2003-2022)
- Membership in the Geological Society of Iran, Mineralogy and Crystallography Association of Iran, Economic Geology Association of Iran, Isfahan Mining Engineering Organization, and Member of the Literary Editorial Board of Scientific Journals of Isfahan University

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