



# Mahtab Aflaki

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## Publications

### Journals

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- Vajedian, Sanaz and Aflaki, Mahtab and Mousavi, Zahra and Ghods, Abdolreza and Walker, Richard and Maurer, Jeremy, "Seismotectonic modeling of the 2017 Hojedk (Kerman) earthquake sequence from joint inversion of InSAR and offset tracking techniques", *Remote Sensing of Environment*, Vol. 288, 2023
- Zhao, Pengxiang and Masoumi, Zohreh and Kalantari, Maryam and Aflaki, Mahtab and Mansourian, Ali, "A GIS-based landslide susceptibility mapping and variable importance analysis using artificial intelligent training-based methods", *Remote Sensing*, Vol. 14, NO. 1, 2022
- Daghineh, Kasra and Davoodi, Zeinab and Sadeghi, Shahryar and Aflaki, Mahtab, "Structural evolution of Neogene sedimentary units in the eastern part of Tarom Basin", *Journal of Tectonics*, Vol. 5, NO. 19, 2021
- Sahami, Sabah and Aflaki, Mahtab and Shabanian, Esmail, "Study of kinematic properties along Garmirud fault zone", *Tectonophysics*, Vol. 817, NO. 116, 2021
- Aflaki, Mahtab and Mousavi, Zahra, "Interaction between the far-field stress and crustal boundary faults in the kinematics of active deformation around the Lut Block, Eastern Iran", *Tectonophysics*, Vol. 817, NO. 116, 2021



- Aflaki, Mahtab and Shabanian, Esmaeil and Sahami, Sabah and Arshadi, Masoud, "Evolution of the stress field at the junction of Talesh--Alborz--Central Iran during the past 5 Ma: Implications for the tectonics of NW Iran", *Tectonophysics*, Vol. 821, 2021
- Honarmand, Maryam and Nabatian, Ghasem and Aflaki, Mahtab and Ebrahimi, Mohammad, "Zircon U-Pb dating and geochemistry of the Moghanlou mylonite gneiss and granite intrusions, west of Zanjan", *Journal of Geoscience*, Vol. 29, NO. 116, 2020
- Amiri, M and Mousavi, Z and Atzori, Simone and Khorrami, F and Aflaki, M and Tolomei, Cristiano and Motaghi, K and Salvi, Stefano, "Studying postseismic deformation of the 2010--2011 Rigan earthquake sequence in SE Iran using geodetic data", *Tectonophysics*, Vol. 795, NO. 12, 2020
- Babaee, Sasan and Mousavi, Zahra and Masoumi, Zohreh and Malekshah, Ahmad Hojati and Roostaei, Mahasa and Aflaki, Mahtab, "Land subsidence from interferometric SAR and groundwater patterns in the Qazvin plain, Iran", *International Journal of Remote Sensing*, Vol. 41, NO. 12, 2020
- Aflaki, M and Mousavi, Z and Ghods, A and Shabanian, E and Vajedian, S and Akbarzadeh, M, "The 2017 M w 6 Sefid Sang earthquake and its implication for the geodynamics of NE Iran", *Geophysical Journal International*, Vol. 218, NO. 2, 2019
- AFLAKI, MAHTAB and SHABANIAN, ESMAEIL and DAVOODI, ZEINAB, "SIGNATURES OF DEFORMATION RELATED TO THE PLIO-QUATERNARY STATE OF STRESS IN THE MAHNESHAN--MIANEH BASIN (NW IRAN)", *Tectonophysics*, Vol. 821, 2018
- Aflaki, Mahtab and Shabanian, Esmaeil and Davoodi, Zeinab and Mohajjel, Mohammad, "Reactivation versus reworking of the active continental margin during the Zagros collision: Mahallat--Muteh--Laybid complexes, Sanandaj--Sirjan zone, Iran", *Journal of Geodynamics*, Vol. 107, NO. 116, 2017



- Aflaki, M and Shabanian, E and Davoodi, Z, "Quaternary state of stress in the Mahneshan--Mianeh sedimentary basin, NW Iran", Scientific Quarterly Journal of Geosciences, Vol. 26, NO. 102, 2017
- Ansarifar, Mojtaba and Rahnamarad, Jafar and Aflaki, Mahtab, "Engineering Geology Characteristics of Zarani Dam Site (South East of Iran) Emphasis Seepage from Foundation and Abutments", Geotechnical Geology, Vol. 12, NO. 2, 2016
- Aflaki, M and Ajorlou, N and Ghods, A and Mousavi, Z and Hollingsworth, J, "Detecting the 1990 Rudbar earthquake-induced landslides, using remote-sensing techniques", 34th Geosciences congress, Geological Society of Iran, Tehran (in Persian), Vol. 26, NO. 102, 2016
- Aflaki, M and Mohajjel, M, "Folding History in Laibid Metamorphic Rocks, Sanandaj-Sirjan Zone", Journal of Geoscience, Vol. 20, NO. 78, 2011
- Aflaki, M and Mohajjel, M, "Structural evolution of the Laibid pop-up structure, Sanandaj-Sirjan Zone, West Iran", Trabajos de Geología, Vol. 26, NO. 29, 2009
- Aflaki, M and Ajorlou, N and Ghods, A and Mousavi, Z and Hollingsworth, J, "Detecting the 1990 Rudbar earthquake-induced landslides, using remote-sensing techniques", ,
- Sahami, Sabah and Aflaki, Mahtab and Shabanian, Esmail, "Study of kinematic properties along Garmirud fault zone", ,

## Conferences

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- Nasiri, Ali and Aflaki, Mahtab, "Studying the active tectonic in the northern flank of the Bozqush Mountains, NW Iran", EGU General Assembly Conference Abstracts, 2022



- Aflaki, M and Ghods, A and Mousavi, Z and Shabaniyan, E and Vajedian, S and Akbarzadeh, M, "Seismotectonic characteristics of the 2017 Sefid Sang (Mw 6) earthquake", 18th Iranian Geophysical Conference, 2018
- Aflaki, Mahtab and Shabaniyan, Esmail and Dvoodi, Z, "Quaternary stress state in Mahneshan-Mianeh Cenozoic sedimentary basin (NW Iran), deduced from fault kinematics data", 34th Geosciences congress, Geological Society of Iran, Tehran (in Persian), 2016
- Aflaki, Mahtab and Mohajjel, Mohammad, "Ductile deformation history in Laibid metamorphic rocks, Sanandaj-Sirjan Zone, Iran", EGU General Assembly Conference Abstracts, 2010