



# Zahra Mousavi

**Associate Professor**

**IASBS, Department of Earth Sciences**

## Publications

### Journals

---

- Ajorlou, Najmeh and Hollingsworth, James and Mousavi, Zahra and Ghods, Abdolreza and Masoumi, Zohreh, "Characterizing Near-Field Surface Deformation in the 1990 Rudbar Earthquake (Iran) Using Optical Image Correlation", *Geochemistry, Geophysics, Geosystems*, Vol. 22, NO. 6, 2021
- Walker, Richard Thomas and Bezmenov, Y and Begenjev, G and Carolin, S and Dodds, N and Gruetzner, C and Jackson, JA and Mirzin, R and Mousavi, Z and Rhodes, EJ, "Slip-Rate on the Main Kopetdag (Kopeh Dagh) Strike-Slip Fault, Turkmenistan, and the Active Tectonics of the South Caspian", *Tectonics*, Vol. 40, NO. 8, 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. 8, 2021
- Mohammadnia, Mohammadhossein and Najafi, Mahdi and Mousavi, Zahra, "InSAR constraints on the active deformation of salt diapirs in the Kalut basin, Central Iran", *Tectonophysics*, Vol. 810, 2021
- Mousavi, Zahra and Fattahi, Morteza and Khatib, Mohammad and Talebian, Morteza and Pathier, Erwan and Walpersdorf, Andrea and Sloan, R Alastair and Thomas, Alexander L and



Rhodes, Ed and Clive, Fynn and others, "Constant Slip Rate on the Doruneh Strike-Slip Fault, Iran, Averaged Over Late Pleistocene, Holocene, and Decadal Timescales", *Tectonics*, Vol. 40, NO. 6, 2021

- Masoumi, Zohreh and Mousavi, Zahra and Hajeb, Zahra, "Long-term investigation of subsidence rate and its environmental effects using the InSAR technique and geospatial analyses", *Geocarto International*, Vol. 40, NO. 6, 2021
- Rezaei, Abolfazl and Mousavi, Zahra and Khorrami, Fatemeh and Nankali, Hamidreza, "Inelastic and elastic storage properties and daily hydraulic head estimates from continuous global positioning system (GPS) measurements in northern Iran", *Hydrogeology Journal*, Vol. 28, NO. 2, 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
- 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

## Conferences

---

- Vajedian, Sanaz and Mousavi, Zahra and Motagh, Mahdi and Hojati, Ahmad, "Combining SAR Interferometry and offset tracking methods to measure near field coseismic deformation; application to the 12 December 2017 Mw 6.2 Hojedk earthquake in Iran", *EGU General Assembly Conference Abstracts*, 2018

