

Asst. Prof. Ali Mohammadı

Personal Information

Email: mohammadiali@itu.edu.tr

Web: <https://avesis.itu.edu.tr/mohammadiali>

International Researcher IDs

ScholarID: 9dob8BUAAAAJ

ORCID: 0000-0003-2400-8392

Publons / Web Of Science ResearcherID: ABC-9603-2020

ScopusID: 56393864700

Yoksis Researcher ID: 311188

Education Information

Post Doctorate, Tabriz University, Faculty of Natural Science, Geology, Iran 2018 - 2019

Post Doctorate, Eidgenössische Technische Hochschule, ETHZ (The Federal Institute of Technology, Zürich), Earth Science Department, Structural Geology and Tectonics, Switzerland 2015 - 2018

Doctorate, Eidgenössische Technische Hochschule, ETHZ (The Federal Institute of Technology, Zürich), Earth Science Department, Structural Geology and Tectonics, Switzerland 2011 - 2015

Postgraduate, University of Tehran, Faculty of Science, Geology, Iran 2002 - 2005

Undergraduate, Tabriz University, Faculty of Natural Science, Geology, Iran 1997 - 2001

Foreign Languages

Persian, C2 Mastery

Turkish, C2 Mastery

Dissertations

Doctorate, Provenance analysis and detrital zircons: keys to the tectonic setting of the Makran and Sistan basins in Iran (2015), DISS. ETH NO. 22962, 124 p. ETH Zurich, Switzerland, Eidgenössische Technische Hochschule, ETHZ (The Federal Institute of Technology, Zürich), Earth Science Department, Structural Geology and Tectonics, 2015

Research Areas

Natural Sciences

Academic Titles / Tasks

Assistant Professor, Istanbul Technical University, Avrasya Yer Bilimleri Enstitüsü, Kati Yer Bilimleri, 2019 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Geochemistry, Sr-Nd isotopes and zircon U-Pb dating of magmatic rocks from the Talesh range, western Alborz: New insights into Late Cretaceous evolution of the southern Eurasian margin**
Amani K., Delavari M., Amini S., Azizi H., Asahara Y., Furman T., Shabani A. A. T., Asiabanza A., Mohammadi A.
Geochemistry, vol.84, no.1, 2024 (SCI-Expanded)
- II. **Tectono-Sedimentary Evolution of Shale-Related Minibasins in the Karvandar Basin (South Sistan, SE Iran): Insights From Magnetostratigraphy, Isotopic Dating, and Sandstone Petrology**
Ruh J., Valero L., Najafi M., Etemad-Saeed N., Vouga J., Mohammadi A., Landtwing F., Guillong M., Cobianchi M., Mancin N.
Tectonics, vol.42, no.11, 2023 (SCI-Expanded)
- III. **Aeolian and fluvial processes influence on dust storms of Hormuz Strait and Makran coastal plains (SE Iran); insight from geomorphic landforms, and sediment texture and mineralogy**
Mohammadi A.
International Journal of Earth Sciences, vol.112, no.7, pp.1973-1987, 2023 (SCI-Expanded)
- IV. **Tectonics, Base-Level Fluctuations, and Climate Impact on the Eocene to Present-Day Erosional Pattern of the Arabia-Eurasia Collision Zone (NNW Iranian Plateau and West Alborz Mountains)**
Kaveh-Firouz A., Burg J., Haghipour N., Mandal S. K., Christl M., Mohammadi A.
Tectonics, vol.42, no.8, 2023 (SCI-Expanded)
- V. **Main drivers of drainage pattern development in onshore Makran Accretionary Wedge, SE Iran**
Kaveh-Firouz A., Mohammadi A., Görüm T., Sarıkaya M. A., Alizadeh H., AKBAŞ A., Mirarabi A.
INTERNATIONAL JOURNAL OF EARTH SCIENCES, vol.112, no.2, pp.539-559, 2023 (SCI-Expanded)
- VI. **Influence of dyke-type causeway on Urmia Lake (NW Iran); insights from water physico-chemical parameters seasonal (2019) changes**
Mohammadi A., Schwamborn G. J., Kaveh-Firouz A., Çiner T. A., Lak R., Milani A. S., Biltekin D.
Journal of Hydro-Environment Research, vol.47, pp.1-14, 2023 (SCI-Expanded)
- VII. **Clastic carbonates in the South Sistan Basin (SE Iran): implications for subduction vergence and timing of collision**
Mohammadi A., Burg J., Ruh J. B., Spezzaferri S.
International Geology Review, vol.65, no.22, pp.3453-3465, 2023 (SCI-Expanded)
- VIII. **Fluvial and permafrost history of the lower Lena River, north-eastern Siberia, over late Quaternary time**
Schwamborn G. J., Schirrmeister L., Mohammadi A., Meyer H., Kartozia A., Maggioni F., Strauss J.
SEDIMENTOLOGY, vol.70, pp.235-258, 2023 (SCI-Expanded)
- IX. **FROM GONDWANA RIFTING TO ALPINE OROGENY: DETRITAL ZIRCON GEOCHRONOLOGIC AND PROVENANCE SIGNALS FROM THE KOPET DAGH BASIN (NE IRAN)**
Mohammadi A., RUH J. B., Guillong M., Laurent O., Aghajari L.
American Journal of Science, vol.322, no.4, pp.561-592, 2022 (SCI-Expanded)
- X. **A history of Pistacia lentiscus and Pinus brutia trees and their ecological changes in the Güllük Bay (Muğla, SW Turkey) during the last 400 years**
Biltekin D., Schwamborn G. J., Eriş K. K., Acar D., Ekberzade B., Hashemi Z., Yakupoğlu N., Mohammadi A., Yetemen Ö.
Turkish Journal of Earth Sciences, vol.31, no.5, pp.438-451, 2022 (SCI-Expanded)
- XI. **The Siah Cheshmeh-Khoy-Misho-Tabriz fault (NW Iran) is a cryptic neotethys suture: evidence from detrital zircon geochronology, Hf isotopes, and provenance analysis**
Mohammadi A., Burg J., Guillong M.
INTERNATIONAL GEOLOGY REVIEW, vol.64, no.2, pp.182-202, 2022 (SCI-Expanded)
- XII. **Configuration and Timing of Collision Between Arabia and Eurasia in the Zagros Collision Zone, Fars, Southern Iran**
Cai F., Ding L., Wang H., Laskowski A. K., Zhang L., Zhang B., Mohammadi A., Li J., Song P., Li Z., et al.
TECTONICS, vol.40, no.8, 2021 (SCI-Expanded)
- XIII. **DEPOSITIONAL ENVIRONMENTS AND SALT-THICKNESS VARIATIONS IN URMIA LAKE (NW IRAN): INSIGHT FROM SEDIMENT-CORE STUDIES**
Mohammadi A., Lak R., Schwamborn G. J., Firouz A. K., Ciner A., Khatouni J. D.

- JOURNAL OF SEDIMENTARY RESEARCH, vol.91, no.3, pp.296-316, 2021 (SCI-Expanded)
- XIV. **Geomorphology and wind regime of barchans in the Lut Desert (Iran)**
 Milani A. S., Barkhordari N., Shabani S., Mohammadi A.
 ZEITSCHRIFT FUR GEOMORPHOLOGIE, vol.62, no.4, pp.265-290, 2021 (SCI-Expanded)
- XV. **Zircon U-Pb geochronology and geochemistry of Late Devonian?Carboniferous granitoids in NW Iran: implications for the opening of Paleo-Tethys**
 Mohammadi A., Moazzen M., Lechmann A., Laurent O.
 INTERNATIONAL GEOLOGY REVIEW, vol.62, no.15, pp.1931-1948, 2020 (SCI-Expanded)
- XVI. **Short-time (<10 ka) denudation rates as a marker of active folding in the Zagros Fold Belt (Iran)**
 Collignon M., Haghipour N., Lupker M., Mohammadi A., Christl M., Burg J.
 TERRA NOVA, vol.31, no.2, pp.111-119, 2019 (SCI-Expanded)
- XVII. **From Jurassic rifting to Cretaceous subduction in NW Iranian Azerbaijan: geochronological and geochemical signals from granitoids**
 Lechmann A., Burg J., Ulmer P., Mohammadi A., Guillong M., Faridi M.
 CONTRIBUTIONS TO MINERALOGY AND PETROLOGY, vol.173, no.12, 2018 (SCI-Expanded)
- XVIII. **ARC MAGMATISM WITNESSED BY DETRITAL ZIRCON U-Pb GEOCHRONOLOGY, Hf ISOTOPES AND PROVENANCE ANALYSIS OF LATE CRETACEOUS-MIOCENE SANDSTONES OF ONSHORE WESTERN MAKRAN (SE IRAN)**
 Mohammadi A., Burg J., Guillong M., von Quadt A.
 AMERICAN JOURNAL OF SCIENCE, vol.317, no.8, pp.941-964, 2017 (SCI-Expanded)
- XIX. **Detrital zircon and provenance analysis of Eocene-Oligocene strata in the South Sistan suture zone, southeast Iran: Implications for the tectonic setting**
 Mohammadi A., Burg J., Winkler W.
 LITHOSPHERE, vol.8, no.6, pp.615-632, 2016 (SCI-Expanded)
- XX. **Detrital zircon and provenance analysis of Late Cretaceous-Miocene onshore Iranian Makran strata: Implications for the tectonic setting**
 Mohammadi A., Burg J., Winkler W., Ruh J., von Quadt A.
 GEOLOGICAL SOCIETY OF AMERICA BULLETIN, vol.128, pp.1481-1499, 2016 (SCI-Expanded)
- XXI. **U-Pb geochronology and geochemistry of Zahedan and Shah Kuh plutons, southeast Iran: Implication for closure of the South Sistan suture zone**
 Mohammadi A., Burg J., Bouilhol P., Ruh J.
 LITHOS, vol.248, pp.293-308, 2016 (SCI-Expanded)
- XXII. **THE PERMIAN VOLCANICS OF CENTRAL ALBORZ: IMPLICATIONS FOR PASSIVE CONTINENTAL MARGIN ALONG THE SOUTHERN BORDER OF PALEOTETHYS**
 Delavari M., Dolati A., Mohammadi A., Rostami F.
 OFIOLITI, vol.41, no.2, pp.59-74, 2016 (SCI-Expanded)
- XXIII. **Forward propagation of the Zagros Simply Folded Belt constrained from magnetostratigraphy of growth strata**
 Ruh J. B., Hirt A. M., Burg J., Mohammadi A.
 TECTONICS, vol.33, no.8, pp.1534-1551, 2014 (SCI-Expanded)

Articles Published in Other Journals

- I. **Migration of the Palaeozoic magmatic front from Zagros to Alborz mountains with progressive closure of the Palaeo-Tethys Ocean; Insights from Zagros detrital zircon Using single bondPb age and Hf isotopic composition**
 Mohammadi A., Kaveh-Firouz A., Cai F., Dolati A., Lom N., Şengör A. C.
 Tectonophysics, vol.849, no.229729, pp.229729-229746, 2023 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. Late Quaternary paleoclimate and paleoenvironment changes in Lake Urmia, NW Iran
Ertunç G., MOHAMMADI A., ÇİNER T. A., Lak R., BİLTEKİN D., YETEMEN Ö.
EGU General Assembly, Viyana, Austria, 23 May 2022
- II. Late Quaternary paleoclimate and paleoenvironment changes in Lake Urmia, NW Iran; a multi-proxy approach derived from a 25 m sediment core
Ertunç G., ÇİNER T. A., ERİŞ K. K., MOHAMMADI A., Lak R., BİLTEKİN D., YETEMEN Ö.
MeDGU 21, Turkey, 25 November 2021
- III. Urmiye Gölü'nün (KB İran) Geç Kuvaterner paleoiklim ve paleoortam değişimleri
Ertunç G., ERİŞ K. K., MOHAMMADI A., ÇİNER T. A., Lak R., BİLTEKİN D., YETEMEN Ö.
Sedimentoloji Çalışma Grubu 2020 Çalıştayı, Balıkesir, Turkey, 02 September 2021

Metrics

Publication: 30
Citation (WoS): 253
Citation (Scopus): 288
H-Index (WoS): 9
H-Index (Scopus): 11

Invited Talks

Detrital zircon U-Pb ages, Hf isotopes and provenance analysis of Jurassic-Paleocene East Kopet Dagh strata: implications on the tectonic setting, Seminar, National Iranian Oil Company (NIOC), Iran, October 2018

The Tabriz Fault (NW Iran) is a cryptic Neotethys suture: evidence from detrital zircon geochronology, Hf isotopes, and provenance analysis, Seminar, Structural Geology and Tectonics group, Geological Institute, ETH Zurich, Switzerland, November 2017

Detrital zircon U-Pb ages, Hf isotopes and provenance analysis of Late Cretaceous-Miocene onshore Iranian Makran strata: implications on the tectonic setting, Seminar, Faculty of Earth Sciences Institute for Advanced Studies in Basic Sciences, Iran, October 2017

Detrital zircon and provenance analysis of Late Cretaceous-Miocene onshore Iranian Makran strata: implications on the tectonic setting, Seminar, Institute of Earth Sciences Jaume Almera (ICTJA-CSIC), Spain, January 2017

Detrital zircon and provenance analysis of Late Cretaceous-Miocene onshore Iranian Makran strata: implications on the tectonic setting, Seminar, National Iranian Oil Company (NIOC), Iran, October 2016

Detrital zircon and provenance analysis of Late Cretaceous-Miocene onshore Iranian Makran strata: implications on the tectonic setting, Seminar, Istanbul Technical University, Turkey, October 2016

Detrital zircon and provenance analysis of Eocene-Oligocene strata in the South Sistan Suture Zone, SE Iran: implications on the tectonic setting, Seminar, Faculty of Earth Sciences, Kharazmi University, Iran, January 2015