

Curriculum Vitae (CV)

Name: Behnaz Kalanat

Date of Birth: 1986.09.20

Place of Birth: Isfahan, Iran

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Education background

B.Sc.: Kharazmi (Teacher Training) University of Tehran (Geology) (2004-2008).

M.Sc.: University of Isfahan (Stratigraphy and paleontology) (2008-2010).

M.Sc. thesis: Biostratigraphy, microfacies and palaeoecology of Asmari Formation in south-west of Firuzabad.

Ph.D.: Ferdowsi University of Mashhad (Stratigraphy and paleontology) (2011-2017).

Ph.D. thesis: Biostratigraphy and paleoecology of Cenomanian/Turonian boundary interval in the east of Kopet-Dagh basin.

Postdoc: University of Isfahan (Stratigraphy and paleontology) (2018-2019)

Present position

Assistant professor in the Research Institute of Forests and Rangelands (2019– Recent)

Research experience

Visiting PhD student at Shinshu, Kyushu, and Meiji universities of Japan (2015-1-1 - 2015-6-18).

Purpose: Geochemical analysis training (TOC, TN, carbon-oxygen and nitrogen Isotopes, XRD) of carbonate rocks.

Teaching activities

- Micropalaeontology lab (Ferdowsi University of Mashhad) (2015)

- Invertebrate palaeontology and Micropaleontology (Gonabad University) (2015-2016)

Associations

- Member of Paleontological Association of Iran

- Member of Sedimentological Association of Iran

Reward

Dr. Kazemi Ashtiani reward from National Elite Foundation of Iran (2021)

Projects

- 1- Investigation of geochemical anomalies of Aitamir-Abdraz formations transition in order to determine palaeoenvironmental perturbation in the Hamam-Galeh section, east of Kopet-Dagh basin (University of Mashhad, 2017)
- 2- The effect of oceanic anoxic event 2 (OAE2) on the hydrocarbon generation potential and geochemical-biological turnovers of Cenomanian/Turonian boundary deposits in the southwest of Zagros basin (University of Isfahan, 2018–2019).
- 3- Palynology and palaeoenvironmental reconstruction of the Jurassic deposits (Dalichai Formation) based on biological and sedimentological index in the east Alborz (Institute of Forests and Rangelands, 2020–2025).
- 4- Palynology and palaeoenvironmental reconstruction of the Middle-Upper Jurassic deposits (Dalichai Formation) in the eastern part of the Binaloud Mountains (NE Iran) (Institute of Forests and Rangelands, 2022–2027).
- 5- Palynology of Baghamshah Formation in the northeast of Tabas (Institute of Forests and Rangelands, 2022–2023).
- 6- Palynology of Dalichai Formation in the central Alborz (Institute of Forests and Rangelands, 2022–2027).
- 7- Plant microfossils of the Qadir Member (Nayband Formation) in Well 954, Parvadeh 4 exploration area, southeastern Tabas (Institute of Forests and Rangelands, 2022–2026).
- 8- Plant macro and microfossils of the Hojedk Formation in the core no. 244, southern Kuchak-Ali mine, Tabas (Institute of Forests and Rangelands, 2022–2027).

Journal Papers

ISI

- 1- Vaziri-Moghaddam, H., **Kalanat, B.**, Taheri, A., 2011, Sequence stratigraphy and depositional environment of the Oligocene deposits at Firozabad section, southwest of Iran based on microfacies analysis, *Geopersia*. 1, 71-82.
- 2- **Kalanat, B.**, Vahidinia, M., Vaziri-Moghaddam, H., Mahmudy-Gharaie, M.H., 2015, A Cenomanian-Turonian drowning unconformity in the east of Kopet-Dagh basin, Iran, *Arabian Journal of Geoscience*. 8, 8373-8384.
- 3- **Kalanat, B.**, Vahidinia, M., Vaziri-Moghaddam, H., Mahmudy-Gharaie, M.H., 2016, Planktonic foraminiferal turnover across the Cenomanian-Turonian boundary (OAE2) in northeast of Tethys realm, Kopet-Dagh basin, *Geologica Carpathica*. 67, 451-462.
- 4- **Kalanat, B.**, Mahmudy-Gharaie, M.H., Vahidinia, M., Vaziri-Moghaddam, H., Kano, A., 2017, Nitrogen isotope variations and environmental perturbations during Cenomanian-Turonian transition in the NE Tethyan realm, Kopet-Dagh basin, *Geopersia*. 7(1), 1-9.
- 5- **Kalanat, B.**, Vahidinia, M., Vaziri-Moghaddam, H., Mahmudy-Gharaie, M.H., Kumon, F., 2017, Benthic foraminiferal response to productivity and oxygen changes across Cenomanian-Turonian boundary (OAE2) in the northeastern Tethys, Kopet-Dagh sedimentary basin, *African Journal of Earth*

Science. 134, 33-47.

6- **Kalanat, B.**, Mahmudy-Gharaie, M.H., Vahidinia, M., Vaziri-Moghaddam, H., Kano, A., Kumon, F., 2018, Paleoenvironmental perturbation across the Cenomanian/Turonian boundary of the Kopet-Dagh Basin (NE Iran), inferred from geochemical anomalies and benthic foraminiferal assemblages, *Cretaceous Research*. 86, 261-275.

7- **Kalanat, B.**, Mahmudy-Gharaie, M.H., Vahidinia, M., Matsumoto, R., 2018, Short-term eustatic sea-level changes during the Cenomanian–Turonian Supergreenhouse interval in the Kopet-Dagh Basin, NE Tethyan realm, *Journal of Iberian Geology*. 44(2), 177-191.

8- Mahmudy-Gharaie, M.H., **Kalanat, B.**, 2018, Enhanced chemical weathering and organic carbon burial as recovery factors for the OAE2 environmental conditions: a case study from Koppeh-Dagh Basin, NE Iran, *Geopersia*. 8(2), 15-25.

9- **Kalanat, B.**, Vaziri-Moghaddam, H., 2019, The Cenomanian/Turonian boundary interval deep-sea deposits in the Zagros Basin (SW Iran): Bioevents, carbon isotope record and palaeoceanographic model, *Palaeogeography, Palaeoclimatology, Palaeoecology*. 533, 109238.

10- **Kalanat, B.**, Vaziri-Moghaddam, H., 2019, Ecological changes and depositional sequences during Cenomanian/Turonian platform evolution in the Zagros Basin, SW Iran; an interplay between tectonics and aquifer-eustasy, *Sedimentary Geology*. 390, 31-44.

11- Vaziri-Moghaddam, **Kalanat, B.**, 2020, Oxygen level, primary productivity, and water turbulence during the OAE2 interval of Zagros Basin (SW Iran): Benthic foraminiferal variations in the carbonate microfacies, *Gondwana research*. 83, 1-15.

12- **Kalanat, B.**, Vaziri-Moghaddam, H., Bijani, S., 2021, Depositional history of the uppermost Albian–Turonian Sarvak Formation in the Izeh Zone (SW Iran), *International journal of earth science*. 110, 305-330.

13- Norouzi, M., Vaziri-Moghaddam, H., **Kalanat, B.**, 2021, Cretaceous–Paleogene transition interval in the north flank of the Alborz Mountains (N Iran); Planktic foraminiferal biostratigraphy and stable isotopes evidence, *Journal of African Earth Sciences*. 183, 104329.

14- **Kalanat, B.**, Davtalab, E., Vahidinia, M., 2022, The oxic Coniacian-Santonian interval in the Kopet-Dagh Basin (NE Iran): Carbon isotope and benthic-planktic foraminiferal assemblages at the time of the last Cretaceous OAE, *Palaeogeography Palaeoclimatology Palaeoecology*. 588, 110817.

15- Davtalab, E., **Kalanat, B.**, Vahidinia, M., 2023, Palynostratigraphy and paleoenvironments of the upper Turonian-lower Campanian Abderaz Formation in the east of Kopet Dagh Basin (NE Iran), *Cretaceous research*. 143, 105394.

ISC

1- **Kalanat, B.**, Vaziri-Moghaddam, H., Taheri, A., 2010, Biostratigraphy and palaeoecology of the Asmari formation in the south west of Firozabaad section, *Sedimentary facies*. 3, 71-84 (in Farsi).

2- **Kalanat, B.**, Vaziri-Moghaddam, H., Vahidinia, M., 2014, Comparison of sequence stratigraphy and depositional environment of Asmari Formation in the Fars, Khuzestan and Lurestan areas of Zagros basin, *Sedimentary facies*. 7, 107-124 (in Farsi).

Congress/Meetings

- 1- Biostratigraphy of Asmari Formation in the Firozabad section and its comparison with Abolhayat section in the Fars and Lali section in the Khuzestan area. 27th Symposium of geological survey of Iran, February 8-10, 2010. Tehran, Iran.(poster)
- 2- Definition of Rupelian-Chatian boundary and Palaeoecology of Asmari Formation in the south west of Firozabad section. 4th symposium of paleontology society. November 23-26, 2011. Shiraz, Iran. (presentation)
- 3- Planktonic foraminiferal response to environmental changes across Cenomanian-Turonian boundary, East of Kopet-Dagh basin. 10th symposium of paleontology society. May 25-27, 2016. Neyshabur, Iran. (poster)
- 4- Oxygen isotope fluctuation and its relationship with climate, productivity and benthic foraminiferal assemblages changes in the Cenomanian-Turonian boundary, east of Kopet-Dagh basin. 2th national conference on applications of oxygen Isotopes. May 11-12, 2016. Mashhad, Iran. (presentation)
- 5- Palaeoclimate changes during the Cenomanian-Turonian transition (OAE2), inferred from chemostratigraphic analysis in the Kopet-Dagh basin. 3th symposium of sedimentary society, May 9-10, 2017. Tehran, Iran. (presentation)
- 6- Paleoenvironmental perturbation across the Cenomanian/Turonian boundary (OAE2) in the Kopet-Dagh basin inferred from benthic foraminiferal assemblages and geochemical anomalies. 10th International Symposium on the Cretaceous. August 21–26, 2017. Vienna, Austria. (poster)
- 7- A multi-proxy chemostratigraphy of the Cenomanian/Turonian transition in Kopet -Dagh basin (NE Iran); implication for oceanic temperature and $p\text{CO}_2$ variations. 10th International Symposium on the Cretaceous, August 21–26, 2017. Vienna, Austria. (presentation)
- 8- Geochemical evidence of black shale formation in Cenomanian/Turonian boundary of Kopet-Dagh Basin; implication for origins of organic matter and $\delta^{13}\text{C}$, $\delta^{15}\text{N}$ changes. 4th symposium of sedimentary society, October 24-25, 2018. Zanjan, Iran. (poster)
- 9- Biological and geochemical evaluation of the marine deposits related to the late Cenomanian cooling event (Pelagic Cold Event) in the Kopet-Dagh and Zagros basins. 5th symposium of sedimentary society, August 17–18, 2020. Bahonar University of Kerman, Iran. (presentation)
- 10- The effect of global sea-level changes and regional tectonic on the depositional history of upper Abian-lower Turonian interval (Sarvak Formation) in the Zagros Basin, Izeh zone. 5th symposium of sedimentary society, August 17–18, 2020. Bahonar University of Kerman, Iran. (poster)
- 11- Planktonic foraminiferal chamber elongation in the OAE2-related deposits (upper Cenomanian) in the Izeh Zone, Zagros Basin. 13th symposium of paleontology society, February 16, 2021. University of Isfahan, Iran. (presentation)
- 12- The effect of OAE3 on the Coniacian-Santonian boundary deposits (Abderaz Formation) in the Kopet-Dagh Basin. 13th symposium of paleontology society, February 16, 2021. University of Isfahan, Iran. (poster)
- 13- Anthropogenic extinction, the sixth mass extinction in the Earth's history? 13th symposium of

paleontology society, February 16, 2021. University of Isfahan, Iran. (poster)

14- Benthic foraminiferal diversity and abundance, the tools for reconstruction of productivity and oxygenation in the sedimentary basin; a case study from the Coniacian/Santonian boundary of the Kopet-Dagh Basin. 15th symposium of paleontology society and 2th symposium of paleodiversity, May 22-24, 2022. Maraghe Azad University, Iran. (presentation)

15- Types and origin of the late Albian-Turonian intra-shelf basins in the Zagros Basin, May 22-24, 2022. Maraghe Azad University, Iran. (poster)

16- Sedimentary facies of the Middle Jurassic syn-rift deposits in the eastern part of the Alborz Mountains. 5th symposium of sedimentary society, December 14-16, 2022. University of Isfahan, Iran.(presentation)

17- *Botryococcus* in the Middle Jurassic deposits of the eastern part of Alborz (Dalichai Formation): morphology and paleoenvironmental significance. December 14-16, 2022. University of Isfahan, Iran. (poster)