

Curriculum Vitae

Dr. Brahim Askri

Associate professor
Department of Civil Engineering, National Engineering School of Gabès,
University of Gabès,
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1. PERSONAL DETAILS

Full name	Dr. Brahim Askri
Present position	Associate professor
Address	Rue Omar Ibn El Khattab, Zrig, 6029 Gabès, Tunisia
Date of birth	11/04/1969
Date of appointment	2002
Degrees awarded (years)	<p>University Habilitation in Water Engineering, National Engineering School of Tunis, University of Tunis El Manar, Tunisia (2019)</p> <p>PhD in Hydraulic Engineering, National Engineering School of Tunis, University of Tunis El Manar, Tunisia (1997-2002)</p> <p>MSc. in Modeling of Hydraulics and Environment, National Engineering School of Tunis, University of Tunis El Manar, Tunisia (1992-1994)</p> <p>B. Eng. in Civil Engineering, National Engineering School of Tunis, University of Tunis El Manar, Tunisia (1988-1992)</p>
Work experience (Positions and date)	<ul style="list-style-type: none"> • Associate Professor in hydraulic engineering, department of civil engineering, National Engineering School of Gabès (ENIG), University of Gabès, Tunisia (2020 present) • Assistant Professor in civil engineering, department of civil engineering, ENIG, University of Gabès, Tunisia (2018-2020) • Assistant Professor in civil engineering, Department of Built and Natural Environment, Caledonian College of Engineering, Sultanate of Oman (affiliated to Glasgow University in UK) (2011-2017) • Assistant Professor in civil engineering, ENIG, University of Gabès, Tunisia (2002-2011)
Professional/Industrial Positions Held	<ul style="list-style-type: none"> • Civil Engineer, National Agency for the Protection and Management of the Coastal Zone in Tunisia, Ministry of Environment and Durable Development, Tunisia (2000-2002) • Researcher assistant in vadoze zone hydrology, National Institute for Research in Rural Engineering, Water and Forest, Tunisia • Ministry of Agriculture, Water Resources and Fisheries, Tunisia
Research interest and Professional expertise	<ul style="list-style-type: none"> • Groundwater hydrology, Mathematical modelling in hydrology and hydrogeology, Vadose zone hydrology, irrigation and drainage, water resource management
Websites ORCID G. Scholar ResearchGate Scopus	<p>orcid.org/0000-0002-3570-2884</p> <p>https://scholar.google.com/citations?user=2CyV4Q8AAAAJ&hl=en</p> <p>https://www.researchgate.net/profile/Brahim_Askri</p> <p>https://www.scopus.com/results/results.uri?sort=plf-f&src=s&st1=Askri&st2=Brahim&nlo=1&nlr=20&nls=count-f&sid=6d76b63e84d92248b3e1ca65c3b68666&sot=anl&sdt=aut&</p>

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2. Teaching

Teaching courses

Undergraduate courses	Postgraduate courses
"Fluid mechanics", "Urban hydraulics", "Hydrology", "Coastal Engineering", "Water engineering", "Water management", "physics of buildings", "Construction Material", "Soil mechanics"	"Environmental Modeling", "Hydrological modeling", "Hydrogeological modeling"

Facilitator training

1. Workshop on the application of Hydrus-1D software to simulate water flow and solute transport in variably saturated porous media, Higher Institute of Sciences and Techniques of Waters of Gabès, Tunisia, March, 25-27, 2021.
2. Short-course on “Stream flow measurement technics and modeling” under the ERASMUS+ program at Universidade-os-Mentes e Alto Douro, Portugal, November, 07-11, 2019.

3. Scholarly activities

Supervision

1. PhD theses: 04 theses are under supervision.
2. Research masters (water science): 8-research papers were supervised between 2006 and 2022
3. Engineers Cycle (Civil engineering): 35 technical projects were supervised since 2003 until now

PhD theses reviewing

1. Zemni Nesrine, 2022. Field experiment and Numerical modelling of water flow, solute fate under micro irrigation system in oasis arid climate south part of Tunisia. National Engineering School of Tunis, Tunisia. 161 p.
2. Al-Hmani Ahmed, 2023. Hydrogeochemical investigation of multiple aquifer system of Sana'a basin, Yemen: Water quality and WASH programs.142 p.

Membership of National Scientific Advisory Boards

- PhD theses-Committee board in geology, member, since December 2020 until now. Higher Institute of Water Sciences and Technics of Gabès -Tunisia.
- Master theses-committee board in water science, member, since May 2023 until now. Higher Institute of Water Sciences and Technics of Gabès -Tunisia.

Membership in Academic comity

- Membership in the Scientific board at National Engineering School of Gabès, Tunisia
- Chair of faculty hiring committee in civil engineering at the University of Gabès, Tunisia, since September 2021.
- ABET accreditation at Caledonian College of Engineering

Membership of Conference Scientific Committees

- International Conference “Water Resources in Arid areas: The Way Forward”, Sultan Qaboob University, Sultanate of Oman, March 13-16, 2016.
- The 3rd International Symposium of Water Resources and Environmental Impact Assessment in Northern Africa, Sousse, Tunisia, March 25-27th, 2021.

4. Refereed Journal publications

1. **Brahim Askri**, Abdelkader T. Ahmed, Rachida Bouhlila. 2022. Origins and processes of groundwater salinisation in Barka coastal aquifer, Sultanate of Oman. *Physics and Chemistry of the Earth* 126, 103116. DOI: 10.1016/j.pce.2022.103116.
2. **Brahim Askri**, Sonia Khodmi, Rachida Bouhlila. 2022. Impact of subsurface drainage system on waterlogged and saline soils in a Saharan palm grove. *CATENA* 212, 106070, 17 p. DOI: 10.1016/j.catena.2022.106070.
3. Lamia Guellouz, **Brahim Askri**, Jérôme Jaffré, Rachida Bouhlila, 2020. Estimation of the soil hydraulic properties from field data by solving an inverse problem. *Scientific Report* 10, 9359. DOI: 10.1038/s41598-020-66282-5.
4. Abdelkader T. Ahmed, Mahmoud Elsayed, **Brahim Askri**, 2020. Environmental impacts of phosphate rocks on the water quality of rivers. *The Journal of Engineering, Science and Computing* 3(1), 74-85. <https://jesc.iu.edu.sa/Main/DownloadIssue?IssueId=49&DocFileId=2595>
5. Abdelkader T. Ahmed, **Brahim Askri**, 2016. Seawater Intrusion Impacts on the Water Quality of the Groundwater on the Northwest Coast of Oman. *Water Environment Research* 88 (8), 732-740. DOI: 10.2175/106143016X14609975747045.
6. **Brahim Askri**, Abdelkader T. Ahmed, Razan Ali Al-Shanfaria, Rachida Bouhlila, Khater Ben Khamis Al-Farisida, 2016. Isotopic and geochemical identifications of groundwater salinisation processes in Salalah coastal plain, Sultanate of Oman. *Chemie der Erde-Geochemistry* 76(2), 243-255. DOI: 10.1016/j.chemer.2015.12.002.
7. **Brahim Askri**, Shafiquzzaman, Md., Ravikumar, B.N., Asima Kaleem, Khater Ben Khamis Al Farisi, 2016. Assessment of Groundwater Quality and its Suitability for Drinking and Agricultural Use in Batinah Coastal Plain, Sultanate of Oman. *International J. Water Resources and Arid Environments* 5(1), 43-53. <https://webmail.psipw.org/attachments/article/382/7e.pdf>
8. **Brahim Askri**, 2015. Hydrochemical processes regulating groundwater quality in the coastal plain of Al Musanaah, Sultanate of Oman. *Journal of African Earth Sciences* 106, 87-98. DOI: 10.1016/j.jafrearsci.2015.03.009.
9. Abdelkader T. Ahmed, **Brahim Askri**, Shafiquzzaman, Md., 2015. Multi-regime leaching assessment model for the migration of the pollutants released from granular waste materials. *International J. Environment and Waste Management* 16(1), 81-94. <https://www.inderscience.com/info/inarticle.php?artid=70479>
10. **Brahim Askri**, Abdelkader T. Ahmed, Tarek Abichou, Rachida Bouhlila, 2014. Effects of shallow water table, salinity and frequency of irrigation water on the date palm water use. *Journal of Hydrology* 513, 81-90. DOI: 10.1016/j.jhydrol.2014.03.030.
11. Shafiquzzaman, Md., Abdelkader T. Ahmed, Shafiul Azam, Md., **Brahim Askri**, Haydar Faez Hassan, Okuda, H. 2014. Identification and Characterization of Dissolved Organic Matter Sources in Kushiro River Impacted by a Wetland. *Ecological Engineering* 70, 459-464. DOI: 10.1016/j.ecoleng.2014.06.023.
12. **Brahim Askri**, Rachida Bouhlila, Jean-Olivier Job, 2010. Development and application of a conceptual hydrologic model to predict soil salinity within modern Tunisian oases. *Journal of Hydrology* 380, 45-61. DOI: 10.1016/j.jhydrol.2009.10.022.
13. **Brahim Askri**, Rachida Bouhlila, 2010. Evolution de la salinité dans une oasis modern de la Tunisie. *Etude et gestion des sols*, 16 p. https://www.afes.fr/wp-content/uploads/2017/10/EGS_17_3_EGS_17_3_4_web_Askri.pdf
14. **Brahim Askri**, Rachida Bouhlila, Jean-Olivier Job, 2001. The water and salt budget in an irrigated plot of an oasis (South Tunisia). *IAHS Publ.* 272, 431-438.

Referred Conference papers/Proceeding/ Chapters in Books

1. **Brahim Askri** and Razan Ali Al-Shanfari, 2017. Assessment of Hydro-chemical Processes Inducing the Groundwater Salinisation in Coastal Regions: Case Study of the Salalah Plain, Sultanate of Oman. Water Resources in Arid Areas: The Way Forward, Springer, 18 p. DOI: 10.1007/978-3-319-51856-5_20
2. **Brahim Askri**, Rachida Bouhlila, Jean-Olivier Job, 2005. Simulations on saline water use for sustaining modern oases in Southwestern Tunisia. Bulletin of the Francophone group of transfers in porous media 51, 78-84.
3. **Brahim Askri**, Rachida Bouhlila, Jean-Olivier Job, 2001. Simulations on water flow and salt transport in an irrigated plot in the Segdoud oasis (South Tunisia), Experimental and Numerical Investigations. TWNSO, Sharing innovative experiences, 11 p.

Oral presentations in international conferences

1. **Brahim Askri**, 2023. Geochemical investigation of soil amendment with livestock manure and beach-gravel on soil quality in a coastal Tunisian oasis. 4th AGIC: Geoscience Innovations for Resources Management Socio-economic Challenges in an Environmentally Constrained World: March 18-20, 2023 in Hammamet, Tunisia.
2. **Brahim Askri**, Razan Al-Shanfari, 2016. "Assessment Of Groundwater Quality In Seawater Intrusion Area In Salalah Plain, Sultanate Of Oman". International Water Conference 2016. Water Resources in Arid areas: The Way Forward. March 13-16, Muscat, Oman.
3. Abdelkader T. Ahmed, **Brahim Askri**, 2014. Environmental characteristics of the ground water aquifer in a coastal area of Oman. The 7th International Conference for Development and the Environment in the Arab world, March, 23-25, 2014, Assiut, Egypt.
4. **Brahim Askri**, Abdelkader T. Ahmed, 2013. Effects of waterlogging and soil salinity on date palm yield in Fatnassa oasis. International Conference on Agricultural Engineering. Sultane Qaboos University, Muscat, Sultanate of Oman, 24-26, February 2013.
5. **Brahim Askri**, Rachida Bouhlila, Jean-Olivier Job, 2010. A conceptual hydrologic model for studies of salinisation in Tunisian oases. 4th International Conference on Water Resources and Arid Environments (ICWRAE), King Saud University, 5-8 December 2010, Riyadh, Saudi Arabia.
6. **Brahim Askri**, Rachida Bouhlila, Jean-Olivier Job, 2005. Numerical simulations of a lixiviation experiment in the Segdoud oasis. International Symposium on porous media and water quality. Francophone group on Transfers in Porous media. National Engineering School of Tunis, Tunisia, 20-25 November 2005.
7. **Brahim Askri**, Rachida Bouhlila, Jean-Olivier Job, 2002. Analyses of water flow and salt transport in saline soil of the Segdoud oasis. Seminar of the International Comity of the Irrigation and Drainage (ICID). Montréal Canada, 20-27 July 2002.
8. **Brahim Askri**, Rachida Bouhlila, Jean-Olivier Job, 2000. A water and salt budget in an irrigated plot of an oasis (South Tunisia). International Symposium on Integrated Water Resources Management. University of California, Davis, USA, 9-12 April 2000.
9. **Brahim Askri**, Rachida Bouhlila, Jean-Olivier Job, 2000. Modeling of water transfer and salt transport in irrigated systems in arid areas. The Third International Conference on Applied Mathematics and the Engineering Sciences, CIMASI 2000. Civil Engineering School of el Hassania, Casablanca, Maroc, 23- 25 October 2000.

5. Research project

Co-PI in research project funded by Cooperation partner, German Academic Exchange Service (DAAD) entitled "EVASAL: Environmental applications of evaporative salt precipitation in porous media: numerical modeling and experimental investigations". <https://www.iws.uni-stuttgart.de/lh2/forschung/Abgeschlossene-Projekte/Evasal/>

6. Editorial board member of Journals

- Anthropogenic Pollution
- American Journal of Water Science and Engineering

7. Scientific comity member of:

- International Conference “Water Resources in Arid areas: The Way Forward”, Sultan Qaboob University, Sultanate of Oman, March 13-16, 2016.
- The 3rd International Symposium of Water Resources and Environmental Impact Assessment in Northern Africa, Sousse, Tunisia, March 25-27th, 2021.

8. Computer skills

- Familiar with FORTRAN programming language
- Hydraulic infrastructure software: EPANET 2, HEC-RAS
- Hydrological software: HEC-HMS
- Hydrogeological softwares: MODFLOW, FEFLOW
- Software for vadose zone hydrology: HYDRUS 1D and 2D
- Statistical software: SYSTAT
- Cartography software: ArcGis, Surfer 9.0
- Microsoft Word, excel, power point, internet

9. Languages

- Arabic : mother tongue
- French: Read, Written and Spoken
- English: Read, Written and Spoken