

Curriculum vitae

HOUHA Belgacem

Grade : Professor

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Abbes LAGHROUR University Khenchela. Algeria

- Laboratory of Biotechnology, Water, Environment and Health (BEES)
- Unit : Water, environment and renewable energies
- Ecology and Environment Department
- Faculty of Natural and Life Sciences
- Expertise : Hydrology and hydrogeology, geochemistry and hydrogeochemistry, environmental isotopes, water pollution and treatment.

Magister's and theses doctoral dissertations

- 08 Magister's theses defended under my supervision (2009-2016)
- 13 doctoral theses defended under my supervision (2012-2022)
- Chairman of the doctoral training committee. 2020

Title of doctoral thesis	Thesis supervisor	Institution of registration	Date of defence
Chemical and isotopic tracing of spring water to understand the aquifers of the Aurès massif (Khenchela, Algeria)	Houha Belgacem	Abbes LAGHROUR University Khenchela	Abbes Laghrour University Khenchela 2016
Contribution of hydrochemistry and isotopes of the water molecule in the study of the impact of dam water on groundwater quality in endoreic basins. Case of the Chemora basin. Algeria Oriental	Houha Belgacem	Abbes LAGHROUR University Khenchela	Abbes Laghrour University Khenchela 2017
Contribution to the hydrogeochemical and isotopic study of the water table of	Houha Belgacem	Abbes LAGHROUR University Khenchela	Abbes Laghrour University Khenchela 2018

the terminal complex - southern zone Khenchela - Algeria			
GEOCHEMICAL AND ISOTOPIC CHARACTERISATION OF GROUNDWATER IN THE MELLAGOU BOUHMAMA VALLEY. KHENCHELA - ALGERIA	Houha Belgacem	Abbes LAGHROUR University Khenchela	Abbes Laghrour University Khenchela 2018
Vulnerability and risk of pollution of groundwater in the F'Kirina plain North-East Algeria	Houha Belgacem	Abbes LAGHROUR University Khenchela	Abbes Laghrour University Khenchela 2018
Physico-chemical and microbiological characterisation of water in the El-Ouldja Valley (S.E. Khenchela) and its impact on the environment	Houha Belgacem	Abbes LAGHROUR University Khenchela	Abbes Laghrour University Khenchela 2019
Chemical and isotopic tracing of the water of some hydrothermal deposits in eastern Algeria and their renewable energy potential	Houha Belgacem	Abbes LAGHROUR University Khenchela	Abbes Laghrour University Khenchela 2020
Physico-chemical characterisation of the waters of the Chélia-Aurès massif. Khenchela	Houha Belgacem	Abbes LAGHROUR University Khenchela	Abbes Laghrour University Khenchela 2020
Delimitation of the saline wedge in the Garâat and Tarf catchment area	Houha Belgacem	Abbes LAGHROUR University Khenchela	Abbes Laghrour University Khenchela 2021
Physico-chemical, geothermal and microbiological characterisation of thermal springs on	Houha Belgacem	Abbes LAGHROUR University Khenchela	Abbes Laghrour University Khenchela 2021

the high plateaux of eastern Algeria			
CHARACTERISATION AND GEOCHEMICAL FUNCTIONING OF THE WATERS OF SEBKHA EL MAHMEL. KHENCHELA-ALGERIA	Houha Belgacem	Abbes LAGHROUR University Khenchela	Abbes Laghrour University Khenchela 2022
Effects of Climate Change on Groundwater Quality in the F'Kirina Plain of the Wilaya of Oum-El-Bouaghi	Houha Belgacem	Abbes LAGHROUR University Khenchela	Abbes Laghrour University Khenchela 2020
Assessment of pollution in the Collo plain, groundwater-river interaction.	Houha Belgacem	Abbes LAGHROUR University Khenchela	Baji Mokhtar University Annaba 2017

Doctoral thesis in progress.

Surname and first name	Thesis supervisor	Institution of registration	Date of defence
Mizane nour-Elhouda Abbes Laghrour University Khenchela	Houha Belgacem	Article published in the journal : Water Supply, ws2025015	Probable date of award: June 2025
Bouziane Nora Abbes Laghrour University Khenchela	Houha Belgacem	Article publier dans le journal : Water Supply 25 (1), 154-163	Probable date of defense : June 2025
Si-Tayeb El-Khaldia Abbes Laghrour University Khenchela	Houha Belgacem	Article publié dans le journal : Environmental Earth Sciences 83 (22), 1-17	Probable date of defense : April 2025
Tilil Belgacem Abbes Laghrour University Khenchela	Houha Belgacem	Article publié dans :International Journal of Environmental Analytical Chemistry, 1-17	Probable date of defense : ; June 2025

National and international publication	journal	year
NEH Mizane, B Houha , A Khelifi, N Bettache, S Ahmed Unveiling the impact of the COVID-19 pandemic on water quality: a case study on Ain-Silan and Ain-Karma sources	Water Supply, ws2025015	2025
N Bouziane, B Houha , N Belkoun, O Rahal, Z Zeghdani Geochemical study of groundwater in the Oued El Hatiba Basin, pre-Saharan Atlas, eastern Algeria	Water Supply 25 (1), 154-163	2025
K Si Tayeb, B Houha , M Ouane, V Vincent, A Elhoussaoui, M Barbieri, Identification of the hydrogeochemical processes and assessment of groundwater quality using Water Quality Index (WQI) in semi-arid area F'kirina plain eastern Algeria.	Environmental Earth Sciences 83 (22), 1-17	2024
B Tellil, A Sedrati, B Houha , M Ouane, N Bouchema, N Kacha Assessment of groundwater quality in the Sabkhat Elmahmel basin, Khenchela (Northeast Algeria) using the Groundwater Pollution Index (GPI) and the Nitrate Pollution Index (NPI)	International Journal of Environmental Analytical Chemistry, 1-17	2024
M Hiba, D Naouel, B Houha, B Cherifa, H Younes, M Rim, N Kaouther Assessment of groundwater vulnerability in a semi-arid basin: a comparative study of DRASTIC and SI methods (case study of Boulefreis Wadi watershed—northeast Algeria)	Euro-Mediterranean Journal for Environmental Integration, 1-	2024
C Berkani, B Houha , M Boulabeiz, N dali, A Sadrati Hydrogeochemical modeling of groundwater of the quaternary aquifer in Mellagou valley-Bouhmama-(northeastern Algeria)	Carpathian Journal of Earth and Environmental Sciences	2023
S Djoudi, S Pistre, B Houha Groundwater Quality and its Suitability for Drinking and Agricultural Use in F'kirina Plain, Northern Algeria.	Jordan Journal of Earth & Environmental Sciences 14 (3)	2023
A Sedrati, H Chenaker, B Houha ASSESSING GROUNDWATER VULNERABILITY TO AGRICULTURE CONTAMINATION IN A SEMI-ARID ENVIRONMENT USING SI AND GOD MODELS, CASE OF BABAR BASIN, ALGERIA	CARPATHIAN JOURNAL OF EARTH AND ENVIRONMENTAL SCIENCES 17 (2), 365-372	2022

S Lakhdari, S Kachi, V Valles, L Barbiero, B Houha , S Yameogo, Hydrochemical characterisation of groundwater using multifactorial approach in Fourn el Gueiss basin, Northeastern Algeria	Journal of Water and Land Development, 60-65	2022
H Chenaker, B Houha , MR Mohmadi Hydro-geochemical Signature in the Thermal Waters in Algeria	Sustainable Energy-Water-Environment Nexus in Deserts, Proceeding of the First International Conference on Sustainable Energy-Water-Environment Nexus in Desert Climates (pp.263-266	2022
N Belkhoum. B Houha isotopic geochemistry utilization in the determination of the origin recharge of the water springs of the algerian upper plains	j. mater. environ. sci., 2020, volume 11, issue 6, page 868-876 journal of materials and environmental science issn : 2028-2508 coden : jmescn	2020
M Oualdjaoui. B Houha hydrogeochemistry of groundwater in es-sbikhat el-mahmel basin, khenchela (Algeria)	journal of fundamental and applied sciences issn 1112-9867 j fundam appl sci. 2020, 12(2), 800-813	2020
S Sekkiou . B Houha groundwaters hydro-geochemical characterization of the tagharist basin (northern region of khenchela, south-eastern Algeria)	<u>desalination and water treatment</u> 140:356-364 · january 2019 doi: 10.5004/dwt.2019.23462	2019
H Ould Ammar. B Houha Bhydrochemical characterization of gareat-el-tarf plain groundwaters, northeastern,Algeria	journal of new technology and materials (jntm) j. new technol. mater. vol. 09, n°01 (2019)47-51	2019
A Benmoussa. B Houha chemical and isotopic characterization of the thermal waters of hammam skhouna. Algeria.	<u>journal of new technology and materials</u> volume 8, numéro 2, pages 94-99 <u>vol.8 issue2 (dec. 2018)</u> .	2018
H Chenakkar et B Houha hydrogeochemistry and geothermometry of thermal water from north-eastern Algeria	geothermics volume 75, september 2018, pages 137-145	2018
M Boulabayez et B Houha gis-based galdit method for vulnerability assessment to seawater intrusion of the quaternary coastal collo aquifer (ne-algeria)	arabian journal of geosciences volume 11, article number: 71 (2018)	2018
A Sadrati et B Houha hydro-geochemical and statistical characterization of groundwater in the south-of-khenchela, el meita area (northeastern algeria)	carpathian journal of earth and environmental sciences volume 13 numero 2 pages 333-342 éditeur north univ baia mare	2018
M Ouanes et B Houha self organizing map of artificial neural network for groundwater quality	journal of new technology and materials vol. 07, n°02 (2017)38-46	2017

classification in the f'kirina plain (oum el bouaghi province-ne of algeria)		
H Chenakkar et B Houha isotope studies and chemical investigations of hot springs from north-eastern algeria	journal of materials and environmental sciences issn: 2028-2508j. volume 8, issue 12, page 4253-4263	2017
Sadrati and Houha determination of the contamination level in groundwater in the sebkha of elmahmel area, north eastern of algeria	aerul si apa. componente ale mediulu pages 367-375 édeur babes bolyai university faculty of geography	2017
N Belkoun et B Houha hydrochemistry and isotopic geochemistry contribution to the characterization of the aquifers of the upper plains of algeria, case of the basin of chemora, oriental Algeria	journal of materials and environmental sciences issn : 2028-2508 jmes, 2017 volume 8, issue 9, page 3262-3268	2017
S Djoudi et B Houha the hydrochemical characterization of the upper plains aquifers: case of the plain of f'kirina ain-beïda, northeastern algeria	<u>desalination and water treatment</u> 92:90-97 · january 2017 <i>with</i> 12 reads doi: 10.5004/dwt.2017.21507	2017
A Sadrati et B Houha impact of agriculture upon the chemical quality of groundwaters within the saharian atlas steppe el-meita (khenchela-algeria)	revista de chimie volume 68 numero2 pages 420-423 éditeur chiminform data sa	2017
S Hassad et B Houha hydrogeochemical characterization of groundwater in the plateau of mellagou (western area of khenchela, east of Algeria).	research journal of pharmaceutical, biological and chemical sciences issn: 0975-8585rjpbcs 8(3) page no. 351	2017
C Berkani et B Houha physico-chemical and therapeutic characteristics of the thermo-mineral waters of khenchela region (northeastern algeria)	journal of materials and environmental sciences issn : 2028-2508 jmes, 2017 volume 8, issue 5, page 1546-1553	2017
C Berkani et B Houha hydro-geochemical characterisation of water springs of the Aurès region 'north-eastern. Algeria	journal of .materials and environemental science.7 (6) (2016) 1856-1865.	2016
H AZZAZ, M CHARECHALI, M MEDDI, B HOUHA , JM PUIG, A ACHACHI The use of environmental isotopic and hydrochemical tracers to characterize the functioning of karst systems in the Tlemcen Mountains, northwest Algeria	Hydrogeology Journal, volume 16, issue 3, pages 531-546 (2008).	2014

Title of the communication	Title of the event and place	Year
- KHENCHELA THERMALISM IN THE LIGHT OF GLOBAL CHANGE.	The First National Symposium Water, Health and Environment. 25 September 2023. Abbes Laghrour University Khenchela.	2023
Physico-chemical and isotopic water tracing for understanding the Aurès aquifer system (Khenchela, Algeria)".	- IVème colloque international " Eau et Climat : Regards croisés Nord-Sud ". University of Constantine, November 24-25, 2015.	2015
the contribution of geochemistry to characterizing the geothermal potential of hydrothermal deposits in the Aurès region	1st International Symposium on Hydrogeology and Geothermal Energy. University of Guelma. November 2014	2014
The contribution of hydrochemistry and isotope geochemistry to the understanding of Aures aquifers (Khenchela).	-3rd International Symposium: Geosciences for Sustainable Development. University of Tébessa. November 2013	2013
Salinization processes and geochemical characterization of waters in a high plains steppe basin. Rémila basin	1st International Symposium of Water CIE 2010. University of Annaba	octobre 2010
Geochemical Functioning of Aquifer Systems in the Remila-Khenchela Basin	National Seminar on Biotechnology, Laghrour University Khenchela.2013	2013
Hydrochemical and geothermal study of thermal waters in eastern Algeria (Khenchela-Guelma-Biskra case study)	1st national seminar, Water, Environment and Biodiversity.. Abbes Laghrour University Khenchela.2011	2011.

Research project leader or member			
Type of project (CNEPRU/PRFU,..)	Quality (responsible or member)	Project title	Year
D00L02UN400120190002 Abbes Laghrour University Khenchela.2011	Project leader Houha Belgacem	The impact of climate change on the water resources of the Algerian high plains, the case of Garaat- Tarf, north-eastern Aurès	2019- 2022 ;
CNEPRU-MESRS, code projet : F03520130018 Abbes Laghrour University Khenchela.2011	Project leader Houha Belgacem	“Integrated management and ecological assessment of wetlands in the Khenchela-Oum El Bouaghi region”.	2014
CNEPRU-MESRS, code projet : F03520080007 Abbes Laghrour University Khenchela.2011	Project leader Houha Belgacem	“Integrated development of wetlands in the high plains of southern Constantinois.	2009
CNEPRU-MESRS, code projet : F03520080006 Abbes Laghrour University Khenchela.2011	Project leader Houha Belgacem	“Characterization, operation and development of wetlands in the high plains of southern Constantinois. Oum El Bouaghi-Khenchela”.	2009- 2012
CNEPRU-MESRS, code projet : G03520060001 Abbes Laghrour University Khenchela.2011	Project leader Houha Belgacem	“Saline water contamination and environmental impacts for sustainable management of water resources in semi-arid zones. Garâat-Tarf basin. Khenchela”.	2007- 2010

Research unit team leader

Research unit title	Team leader	Research laboratory	Date of creation and N° of decree	Establishment
Water, Environment and Renewable Energy	Houha Belgacem Ouanes Miyada Sadrati Abdenour Daifalla Tarak	Research laboratory; Biotechnology, Water, Environment and Health laboratory. “LBEES	Created on 01/10/2018. Order no.: 872	SNV Faculty Abbes Laghrour University Khenchela

