

CURRICULUM VITAE**DR. KHALIL M. K. KHADER (Khalil Ibrahim)****B.Sc., M.Sc., Ph.D.****Associate Professor of Industrial Rocks & Mineral**

Name:	Khalil M. K. Khader
Another name	Khalil M. Ibrahim
Date and Place of Birth:	1959, Amman-Jordan
Nationality:	Jordanian
Marital Status:	Married
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ibrahim_kh@yahoo.comibrahim@hu.edu.jo**Web Page**<http://staff.hu.edu.jo/ibrahim>[Khalil M. Ibrahim](#)[Khalil M. Ibrahim](#)[Khalil M. Ibrahim](#)[Khalil Ibrahim \(Khader\)](#)**QUALIFICATION**

B.Sc	Geology and Mineralogy, 1981, University of Jordan, Amman, Jordan
M.Sc.	Geochemistry & Petrology, 1987, University of Jordan, Amman, Jordan
Ph.D.	Mineralogy and Geochemistry, 1996, Royal Holloway University of London, London, UK.

MAJOR EXPERIENCE

2009 - Now	Associate Professor of Industrial Rocks & Minerals, Department of Earth and Environmental Sciences, Hashemite University, Jordan.
1998 - 2009	Assistant Professor of Industrial Rocks & Minerals, Department of Earth and Environmental Sciences, Hashemite University, Jordan.
1985– 1998	Senior Field Geologist, Geological Mapping, Natural Resources Authority (NRA), Jordan (Detailed mapping and delineation of lithological contacts, faults, landslides and mass wasting sites in Jordan mainly in Wadi Araba and Aqaba area)
1984– 1985	Mining and Exploration Geologist, Mahis Mine, Public Mining Company, Jordan.

ADMINISTRATIVE EXPERIENCES

2001- 2003	Head of Department of Earth and Environmental Sciences, Hashemite University, Jordan.
1996– 1998	Acting Head of Geological Mapping Division, NRA, Amman, Jordan
1984– 1985	Head of Mahis Mine, Public Mining Company, Jordan.

SELECTED CONSULTATIONS

2017 - present	Technical Consultant, Saudi Arabian Company for Oil Shale
2010 – 2012	Member of the Board of Directors, Geological and Mining Investment Co. Jordan Geologists Associations, Amman Jordan: Advisor and consultation in industrial rocks & minerals.
2009 – 2010	Scientific Consultant and Researcher: Arab Consultants Bureau (Jordan) and Tractebel Engineering –GDF SVEZ (Belgium): Site selection and characterization of Aqaba Nuclear Power Plant (Jordan)
2008 – 2009	Consultant and Advisor: Mazen Rial Expert Decision-Making Office, Amman Jordan (Exploration, evaluation and ore reserve calculation of oil shale deposits)
2004 – 2008	Research and Development: Veterinary & Agricultural Products Manufacturing Company (VAPCO) Jordan: Wastewater treatment plant, Khaldia, Jordan
2001 – 2001	Research and Development: White Cement Factory: solving cement problems

TAUGHT COURSES

B.Sc, Earth & Environmental Sciences	1. Environmental Geochemistry	5. General Geology 1
	2. Mineral Resources & Environment	6. General Geology 2
	3. Industrial Rocks & Minerals	7. Applied Field Geology
	4. Environmental Geology	8. Plate Tectonics
B.Sc, Geology & Environment	1. Economic Geology	7. Geology of Jordan
	2. Igneous & Metamorphic Petrology	8. Environmental Geology
	3. Igneous & Metamorphic Petrology Lab	9. General Geology 1
	4. Environmental Geochemistry	10. General Geology 2
	5. Mineral Resources & Environment	11. Applied Field Geology
	6. Exploration and Mining Geology	12. Field Techniques in Geology
M.Sc, Applied Geology	1. Exploration Geology	2. Research Methodology

TRANSLATED BOOK TO ARABIC LANGUAGE

2010 -2011	Translation: Environmental Geology 9 th Edition by Edward A Keller. Obeikan Education, P.O. Box 2219 Amman 11910 Jordan
2009 – 2010	Translation: Lenoco secondary school text books and supporting materials in Earth Sciences. Obeikan Education, Amman Jordan

AUTHOR & EDITOR Text Books

2006- 2007	“Earth & Environmental Sciences”, student edition, 2 nd Secondary class, Ministry of Education, Amman, Jordan
2005 – 2006	“Earth & Environmental Sciences”, student edition, 1 st Secondary class, Ministry of Education, Amman, Jordan.
2005 – 2006	“Earth & Environmental Sciences”, student edition, 10 th fundamental class, Ministry of Education, Jordan
1996– 1999	Editor and co-author “Earth & Environmental Sciences”, teacher edition, 2 nd secondary class, Science branch, Ministry of Education

PROFESSIONAL TRAINING

Blackboard E-learning System	2006	
Teaching Technologies	2005	Hashemite University – Zarqa -Jordan
E-Learning Technologies & Systems	2003	

SUPERVISION & CO-SUPERVISION (PhD and MSc)

No	Year	University	Title
1	In prog.	HU	Geo-technical characterization of oil shale from Attarat Um Ghudran area, Jordan
2	In prog.	HU	Investigation of the radon gas level in groundwater of Azraq and Amman-Zarqa Basin :A Comparative study
3	In prog.	HU	Characterization and Industrial Evaluation of Triassic Clay Minerals from Suwayma Area, Jordan
4	2018	HU	Uranium and heavy metals geochemistry associated with selected Jordanian oil shale
5	2017	HU	Flue gas desulfurization gypsum from selected industries in Hashimiya Town
6	2016	HU	The characterization of Jordanian porcelanite rock in water treatment
7	2016	HU	Extraction of selected heavy metals from local spent shale and ash
8	2015	U. of Jo.	Desulfurization of El Lajjun Shale Oil, Central Jordan, Using Two Different Techniques: A Comparative Study
9	2014	HU	Ghour Al Kator as an example of pressure ridge, Jordan Valley
10	2013	HU	Petrography, mineralogy, and geochemistry of oil shale in Attarat Um Ghudran area
11	2010	HU	Petrography, mineralogy, and geochemistry of oil shale in Sultani area.
12	2010	HU	Removal of selected organic pollutants from wastewater using modified zeolites
13	2010	HU	The impact of arsenic contamination of soil and groundwater on public health in Zarqa Basin
14	2009	HU	Evaluation of selenium environmental level in Hummar Formation (A4 aquifer) in Amman Zarqa Basin, Jordan
15	2009	HU	Heavy metals uptake by olive mill solid residues
16	2007	U. of Sci. & Techno.	Adsorption and thermodynamic studies of α -Picoline, β -Picoline, and γ -Picoline on the zeolites: faujasite and phillipsite
17	2007	U. of Jo.	Characterization of the Jordanian zeolitic tuff and its potential use in Khirbat El Samra Wastewater Treatment Plant
18	2006	HU	Sedimentology, geochemistry and petrographic study of travertine deposits along the eastern side of the Jordan Valley and Dead Sea Areas
19	2006	HU	Removal of pesticides residue from pretreated wastewater using activated zeolites from Jordan.
20	2005	HU	Photocatalytic degradation of pesticides residues in wastewater using sunlight and UV-radiation and both H_2O_2 and TiO_2 catalysts
21	2005	HU	Ore reserve calculation of clay minerals and diatomite in Qa' Al-Azraq
22	2004	HU	Exploration geochemistry and mineralization of the Quraynifat volcanic suite rocks and the environs in Qa' Umm Salib, south Jordan
23	2004	HU	Removal of pesticide residues from wastewater using Jordanian clay minerals and jift charcoal.
24	2003	U. of London	Geochemistry of Cenozoic volcanism and Arabian lithospheric mantle in Jordan.

PROFESSIONAL MEMBERSHIPS

- Mineralogical Society of Great Britain.
 - Jordanian Geologists Association
 - International Mineralogical Association
 - International Zeolite Association (IZA)
 - International Natural Zeolite Association (INZA)
 - International Zeolite Researcher's List
 - Jordan Society of Scientific Research
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LIST OF PUBLICATIONS

(a) Scientific Journal

2018

1. K Ibrahim, M Moumani, S Mohammad (2018) Extraction of γ -Alumina from low-Cost Kaolin, *Resources* 2018, 7(4), 63; <https://doi.org/10.3390/resources7040063>
 2. AR El-Naqa, KM Ibrahim, MA Alrous (2018) Hydrogeochemical investigation of the origin of Molybdenum (Mo) in groundwater resources in Wadi Al Arab area, Northern Jordan. *Acque Sotteranee-Italian Journal of Groundwater* 7 (3), 19-30
 3. KM Ibrahim, AR El-Naqa (2018) Inverse geochemical modeling of groundwater salinization in Azraq Basin, *Jordan Arabian Journal of Geosciences* 11 (10), 237
 4. Abu-Hawwas J. K, Ibrahim K. M, Musleh S. M. Characterization of Jordanian Porcelanite Rock with Reference to the Adsorption Behavior of Lead Ions from Aqueous Solution. *Orient J Chem* 2018;34(2). Available from: <http://www.orientjchem.org/?p=44086>
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2017

5. G. H. Jarrar, R. J. Stern, T. Theye, N. Yaseen, V. Pease, N. Miller, K. M. Ibrahim, C. W. Passchier, M. Whitehouse (2017) Neoproterozoic Rosetta Gabbro from northernmost Arabian–Nubian Shield, south Jordan: Geochemistry and petrogenesis. *Lithos*, Volumes 284–285: 545–559
 6. K. M. Ibrahim, I. M. Makhlof, A. R. El Naqah, S. M. Al-Thawabteh (2017) Geochemistry and Stable Isotopes of Travertine from Jordan Valley and Dead Sea Areas *Minerals* , 7(5), 82; doi:10.3390/min7050082
 7. B. S. Al-Saqarat, K. M. Ibrahim, F. M. Musleh, Y. S. Al-Degs (2017) Characterization and utilization of solid residues generated upon oil and heat production from carbonate-rich oil shale. *Environ Earth Sci* 76: 264. doi:10.1007/s12665-017-6578-9
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2016

8. M. Ren, R. J. Stern, K. A. Ali, , G. H. Jarrar, R. L. Romer, M. I. Leybourne, M. J. Whitehouse, K. M. Ibrahim (2016) Potassium-Rich Fluid Induced Partial Melting in the Lower Continental Crust Beneath Northern Arabia. Conference Paper · January 2016 , DOI:

- 10.1130/abs/2016AM-286972 , Conference: GSA Annual Meeting in Denver, Colorado, USA - 2016.
9. K. M. Ibrahim, H.N. Khoury, R. Tuffaha (2016) Mo and Ni Removal from Drinking Water Using Zeolitic Tuff from Jordan. *Minerals*, 6, 116; DOI: 10.3390/min6040116
 10. K. M. Ibrahim, K. Alzughoul, M. Muhtaseb (2016) New occurrence of potential phosphate resource in northeast Jordan. *Arab J Geosci* (2016) 9:497. DOI: 10.1007/s12517-016-2508-5
 11. R. J. Stern, K. A. Ali, M. Ren, G. H. Jarrar, R. L. Romer, M. I. Leybourne, M. J. Whitehouse, K. M. Ibrahim (2016) Cadomian (~560 Ma) Crust Buried beneath the Northern Arabian Peninsula: Mineral, Chemical, Geochronological, and Isotopic constraints from NE Jordan xenoliths. *Earth and Planetary Science Letters*. 436, 31–42

2015

12. H. N. Khoury, K. M. Ibrahim, R. A. Al Dwairi, (2015) Wide Spread Zeolitization of the Neogene - Quaternary Volcanic Tuff in Jordan. *Journal of African Earth Sciences*. Vol. 101:420-429
13. I. M. Makhlouf & K. Tarawneh & K. Moumani & K. M. Ibrahim (2015) Recognition of quartz geodes in the Upper Cretaceous Wadi Umm Ghudran Formation, Ras En Naqab, South Jordan. *Arab J Geosci*. Vol. 8: 1535-1547
14. Alnawafleh, H., Tarawneh, K., Ibrahim, K., Zghoul, K., Titi, A., Rawashdeh, R., Moumani, K. and Masri, A. (2015) Characterization and Origin of the Miocene Mudawwara-Quwayra Basaltic Dike, Southern Jordan. *International Journal of Geosciences*, 6, 869-881.

2014

15. K. M. Ibrahim (2014) Geology and Mineralogy of Zeolitic Tuff in Tulul Unuqar Rustum Ash Shmaliyya, NE JORDAN. *Jordan Journal of Earth and Environmental Sciences*. 6, (3), 29-34
16. R. A. Al Dwairi, K. M. Ibrahim, H. N. Khoury, (2014) Potential use of faujasite-phillipsite and phillipsite-chabazite tuff in purification of treated effluent from domestic wastewater treatment plants, *Environmental Earth Sciences*. 71:5071-5078
17. K. M. Ibrahim, B K Moh'd, A I Masri; M M Al-Taj, S M Musleh, K A Alzughoul (2014) Volcanotectonic evolution of central Jordan: evidence from the Shihan volcano. *Journal of African Earth Sciences* 100 (2014) 541–553
18. Ibrahim K. M., Musleh S. M Nabeh I. and Al-Akasheh T. (2014) Heterogeneous Photocatalysis of Methomyl and Metalaxyl using TiO₂ supported over Activated Carbon. *Res. J. Chem. Environ*. Vol. 18(5) 33-43
19. S. M. Musleh, B. Abu Zaitoon, R. I. Yousef and K. M. Ibrahim (2014) Removal of Phenols from Aqueous Solutions Using Bi-Modified Jordanian Diatomaceous Clay. *Asian Journal of Science and Technology* Vol. 5, Issue 3, pp. 214-220,

20. M. M. Hussein, K. M. Khader and S.M. Musleh (2014) Characterization of Raw Zeolite and Surfactant-Modified Zeolite and Their Use in Removal of Selected Organic Pollutants from Water. *Int. J. Chem. Sci.*: 12(3), 815-844
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2013

21. Jaber S, Ibrahim K, Muhtaseb M, (2013) Comparative evaluation of the most common kriging techniques for measuring mineral resources using Geographic Information Systems. *GIScience & Remote Sensing*, 50 (1): pages 93-111.
22. Feinstein, S., M. Eyal, B. P. Kohn, M. S. Steckler, K. M. Ibrahim, B. K. Moh'd, and Y. Tian (2013), Uplift and denudation history of the eastern Dead Sea rift flank, SW Jordan: Evidence from apatite fission track thermochronometry, *Tectonics*, 32, doi:10.1002/tect.20082.
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2011

23. Jaber, J. O, Amri A., Ibrahim K. M., (2011) Experimental investigation of effects of oil shale composition on its calorific value and oil yield. *Int. J. Oil, Gas and Coal Technology*, 4 (4): 307-321
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2010

24. Rawajfih Z., Al Mohammada H., Nsour N., Ibrahim K. (2010) Study of equilibrium and thermodynamic adsorption of α -picoline, β -picoline, and γ -picoline by Jordanian zeolites: Phillipsite and faujasite *Microporous and Mesoporous Materials* 132 (3) 401-408
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2009

25. Ibrahim, K. M and Jbara H. A. (2009) Removal of paraquat from synthetic wastewater using phillipsite-faujasite tuff from Jordan. *Journal of Hazardous Materials* 163(1):82-6.
26. Dwairi R. A, Khoury H. N., Ibrahim K. M. (2009) Mineralogy and Authigenesis of Zeolitic Tuff from Tall-Juhira and Tall Amir, South Jordan. *Jordan Journal of Earth and Environmental Sciences* 2, (1), 72- 83
27. Salman A., Ibrahim K. M., Saffarini G. and Al-Qinna M. (2009) Geostatistical calculation for clay reserve in Azraq Basin in Jordan. *Journal of Geography and Regional Planning* 2(5): 144-153.
28. El-Naqa A., Hammouri N., Ibrahim K. and El-Taj M. (2009) Integrated Approach for Groundwater Exploration in Wadi Araba Using Remote Sensing and GIS *Jordan Journal of Civil Engineering* 3 (3): 229 – 243
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2007

29. Shaw, J.E., Baker, J. A., Kent A.J.R., Ibrahim, K.M., Menzies, M. A., (2007) The geochemistry of the Arabian lithospheric mantle- a source for intraplate volcanism. *Journal of Petrology* 48: 1495-1512.
30. Ibrahim, K. M and Jaber, J. O (2007) Geochemistry and environmental impacts of spent oil shale from Jordan. *Environmental Geology*. 52, 5: 979-984
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2006

31. Ibrahim, K. M. and Al-Malbeah, A. (2006) Geochemistry and volcanic features of Harrat El Fahda, a young volcanic field in northwest Arabia, Jordan. *Journal of Asian Earth Sciences* 27/2: 147-154
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2004

32. Ibrahim, K. M. (2004) Mineralogy and chemistry of natrolite from Jordan. *Clay Minerals* 39, 47-55.
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2003

33. Shaw, J., Baker J., Menzies M. A., Thirlwall M. F. & Ibrahim, K. M. (2003) Petrogenesis of the largest intraplate volcanic field on the Arabian plate (Jordan): a mixed asthenosphere-lithosphere source activated by lithospheric extension, *Journal of Petrology*, 44, 1657-1976.
34. Ibrahim, K. M., Tarawneh, K., Rabba', I. (2003) Phases of activity and geochemistry of basaltic dike systems in northeast Jordan parallel to the Red Sea. *Journal of Asian Earth Sciences*, Vo. 121, No. 5, 467-472.
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2002

35. Ibrahim, K. M., Nasser Ed-Deen, T., Khoury H (2002) Use of natural chabazite-phillipsite tuff in wastewater treatment from electroplating factories in Jordan. *Environmental Geology*, Vol. 41, No. 5, 547-551.
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2001

36. Ibrahim, K. M. (2001) Evaluation of Jordanian faujasite tuff by comparison with other natural and synthetic zeolites. *Environmental Geology*, Vol. 40, No. 4-5, 440-445.
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1996

37. Ibrahim, K. and Hall, A. (1996) The authigenic zeolites of the Aritayn Volcaniclastic Formation, north-east Jordan. *Mineralium Deposita*, Vol. 31, No. 6, 514-522.
38. Ibrahim, K. and Inglethorpe (1996) Mineral processing characteristics of natural zeolites from the Aritayn Formation of north-east Jordan. *Mineralium Deposita*, Vol. 31, No. 6, 589-596.
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1995

39. Ibrahim, K. and Hall, A. (1995) New occurrences of diagenetic faujasite in the Quaternary tuffs of north-east Jordan. *Eur. J. Mineral.* Vol. 7, 1129-1135.
40. Ibrahim, K., and McCourt, W. (1995) Neoproterozoic granitic magmatism and tectonic evolution of the northern Arabian Shield: evidence from Southwest Jordan. *Journal of African Earth Science*, Vol. 20, No. 2, 103-118.
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(b) Published Books

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1. Al Dwairi R, Khoury H, Ibrahim K (2010) Occurrences and properties of Jordanian zeolites and zeolitic tuff. VDM Verlag Dr. Müller, ISBN-10: 3639301633
 2. Khoury H., Ibrahim, K. M., Ghirir, A. and Ed-Deen T (2003) Zeolites and zeolitic tuff in Jordan. Publication of Deanship of Academic Research, University of Jordan, 2003/4, 136p.
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