

*Republic of Iraq*  
*Ministry of high Education & Scientific Research*  
*University of Basrah*  
*College of Science*  
*Dept. of Geology*



## Curriculum Vitae

### • **Personal**

Title & name      Assist.Prof. Dr. Sattar J. Al-Khafaji  
Date of birth      July 1<sup>st</sup> 1961  
Nationality        Iraqi  
Address            Geology Dept., College of Science  
                         University of Basrah – Iraq.  
E-mail: [khafaji52000@gmail.com](mailto:khafaji52000@gmail.com)

Languages        Arabic, English.

### • **Field of specialization**

Geochemistry, Mineralogy, Industrial Rocks and Minerals., Clay Mineralogy,

### • **Area of research**

Geochemistry , Mineralogy, Industrial Rocks and Minerals, Clay mineralogy, Ceramics, Refractories and Mineral Assessment.      Ceramics , Refractories and Mineral Assessment.

### • **Qualification**

B.Sc. (1984) Geology, Baghdad University, Iraq.

M.Sc. (1989) Geochemistry, Baghdad University, Iraq.

Ph.D. (2001) Geochemistry and Industrial Rocks.

Baghdad University, Baghdad - Iraq.

M.Sc.Thesis title: Rare-earth elements geochemistry of the industrial clay deposits in Iraq, Baghdad university, 136p.

Ph.D.Thesis title: Mineralogy and Geochemistry of Iraqi flint clays from the western desert and their suitability for the Refractories industry, Baghdad University, 153p.

### • **Experience**

1. Field geologist (1/7/ 1990 to 1/ 7/1993) at the geological survey & mining company in Baghdad participate in:
  - a. Field geological survey.
  - b. Mineral prospecting for kaolinite & bauxite deposits at the western desert of Iraq.
  - c. Mineral prospecting for lead and zinc deposits in north Iraq.

- d. Report writing and geological mapping.
2. Lecturing in the College of Science, University of Basrah, Geology Dept., covering the following :
- a. Undergraduate Studies:-  
General Geology, Clay Mineralogy, Mineralogy, Crystallography, Geochemistry, Economic Geology, Industrial Rocks, Minerals and field geology.
- b. Postgraduate Studies:-  
Advanced Geochemistry, Exploration Geochemistry, Advanced & Applied Clay Mineralogy,  
Advanced Economic Geology, Ore geology. Advanced Industrial Rocks & Minerals, Ceramic and building materials, Quaternary deposits., Min
- c. A lecturer at the Dept. of Engineering Materials of Basrah University, College of Engineering in the subject ; methods of extracting engineering materials (2001- 2003), lecturer at the Dept. of petroleum engineering in the subject of General Geology, mineralogy, petroleum geology, Structural geology, Well logging.
- d. A lecturer at Department of Geology, Bagdad University in the subject of Geochemistry and Industrial rocks (2012-2014)
- e. Continuous at now as an assistant professor in Geochemistry and Industrial Rocks at Geology Dept., College of Science, Basrah University.

• **Achievement:**

1. One of the founders of the Geology department in the college of science, university of Basrah (1993).
2. A member of the Iraqi Geologists union since 1989.
3. The head of dept. of Geology at Basrah University (1/7/2002 to 5/7/2003).
4. A member of the Iraqi society for Nanotechnology .
5. A member in more than 50 Examination committees of M.sc. and Ph.D students in Basrah University and other universities in Iraq.

• **Participations**

- a) The project of Geological Survey and Mineral Prospecting for Kaolinite & Bauxite deposits in western Iraq.
- b) The project of mineral exploration for lead & zinc ores in northern Iraq.
- c) Combined studies in reservoir and Geochemical field with South Oil Company, southern Iraq.
- d) Participate in a Basic course of SEM at the center for Microscopy and Microanalysis at the university of Queensland, Australia, May, 2010.
- e) Training course in Drilling Techniques and Well activities courses in Istanbul by Total Oil Company, April, 8th to 22th, 2011 and 2015 .
- f) Academic visitor to Angara University at 2012.

• **Published Literatures**

- 1- Major, Trace, and Rare – earth elements geochemistry of Ga'ara deposits in Iraq, The 11<sup>th</sup> Iraqi Geological conference, Baghdad, October 15-17, 1994.
- 2- Geochemical aspects of Yamama formation in west Qurna oil field, southern Iraq. An internal study combined with south oil company, 1994.
- 3- Mineralogy, Geochemistry and origin of tuff in Al-Mukdadia formation (Pliocene) Injana area Iraq. J. Basrah Researches, Vol. 4, No. 28, pp155-167.2002
- 4- Mineralogy, Geochemistry of Karstic Iraqi flint clay, western desert Iraq, Arab World Geological Conference, Cairo, Feb, 2002.
- 5- Assessment of Iraqi flint clay for Refractories Industry, Arab World Geological Conference, Cairo, Feb, 2002.
- 6- Assessment of Dibdibba sand (southern Iraq) for the manufacturing of semi silica brick. Raffedain Journal of science, Mosul University, Iraq, Vol.16, No.3, 2005.
- 7- Assessment of Dwekhla kaolinite, Umm Urthma sand and waste glass for the manufacturing chemical porcelain, Iraqi Journal of earth sciences, Mosul university, 2005.
- 8- Sedimentological and mineralogical aspects of khor Abdullah supratidal sediments,north west Arabian gulf.Marin Mesopotamica,vol. 21,no.1,2006
- 9- Mineralogical,Geochemical and Technological aspects of iron oxides of Hussainiyat kaoline,western desert,Iraq, Basrah Journal of science, 2008.
- 10- Identification and upgrading of feldspar in some Sand deposits Iraq,Basrah Journal Researchs,vol.5,15,2010.
- 11- Mineralogy and geochemistry of Dibdibba sandstone formation bearing feldspar in Zubair and safwan area's southern Iraq .Iraqi Journal of Sceince ,vol.52,No.1,2011.
- 12- Improvement of clay deposits for Building-Bricks purposes in Missan governorate, souther Iraq . Iraqi Bulletin of geology and mining vol.8,No.1,2012.
- 13- Chemical and mineralogical assesment of raw materials for Cement industries at Kufa Cement plants ,Basra Journal of Scince,vol.26,no.1,(24-35),2008.
- 14- Some evidence on the occurance of feldspar minerals in sand deposits of Dibddiba formation in Thiqar, southern Iraq .,Iraqi Journal for desert studies ,vol.2,No.2,2010.
- 15- Facies analysis and sedimentological modeling of Jeribe formation outgroups ,north western Iraq .National Journal of earth sciences,Mousl,Iraq. 2012
- 16- Pollution assesment of soil among highways from Basrah-Nassiriya and Samawa cities by Polycyclic aromatic hydrocarbons,International journal for sciences and technology,vol.13,No.1,2018
- 17- Geochemical and biological study of Holocene deposits in Al-Muthana province,southern Iraq,Iraqi journal of science,vol.60,No7,pp1521-1529,2019

- 18- Spatial characteristics and Heavy Metals Pollution in Urban Soil of Basrah, Iraq, Indian Journal of Ecology, Vol.47, No.4, pp969-978., 2020
- 19- Mineralogy and petrography of Gulneri Formation in Sulaimaniya area, North East of Iraq, International Journal of Mining Science, Vol.5, Issue2, pp1-13, 2019
- 20- Mineralogical and Geochemical aspects of sand dunes in Missan Governorate, southeastern Iraq, Iraqi Journal of Science, Vol.63, No.9, 2022
- 21- The reality of mineral resources in Iraq, Zurbatiya area as a case study, The first international conferences for Natural resources in Iraq, 25-28 October 2021, Tikrit University, Iraq.
- 22- Mineralogy, Geochemistry and provenance of Injana Formation in Zurbatiya and Badra areas, Eastern Iraq., The first Geological conference (GeoBasrah-1), 15-17 March, 2022.
- 23- Mineralogy and petrography of fatha gypsum rocks in Zurbatiya area, eastern Iraq, Basrah Journal of Science, Vol.38, No.2, pp328-346, 2020
- 24- Additives effects on producing gypsum plaster in zurbatiya area, eastern Iraq, Samarra Journal of Pure and Applied Science, Vol.2, No2, PP-79-88.

• **Postgraduate Supervision:**

**M.Sc. Thesis including the following titles:-**

- 1- Geotechnical Assessment of soil in Ammara city, southern Iraq, April (2002). (unpublished), **student name:** Al-khafaji, W. R.
- 2- Geological & reservoir evaluation of Zubair formation in selected wells, southern Iraq, (unpublished) Nov. (2003), **Student name:** Al-canaani, A..A.
- 3- Assessment the suitability of some Iraqi raw materials and waste glass for the manufacturing of chemical porcelain (unpublished), Sep. (2003), **Student name:** Saeed, A..M.
- 4- Assessment study of cement produced at Kufa cement plants and the raw materials used in its manufacture, (unpublished), Nov. (2004), **Student name:** Al-Ali, S. H.
- 5- Microfacies and modeling of Jeribe formation (Early middle Miocene), northern Iraq, (unpublished), Dec. (2005), **Student name:** Al-Ayobe, N. S.
- 6- Geophysical application (Magnetic & Electric) in archeological prospecting of Tel-Al-Khanaizerat site, in Al-Dora area, southern Baghdad city, Iraq, (unpublished), Dec. (2005), **Student name:** Hannina, S. E.
- 7- Assessment and improvement the properties of some recent sediments selected from areas northern Basrah for manufacturing building bricks. (unpublished), June, 2006, **student name:** Al-Saad, H. A.
- 8- Sedimentological, Mineralogical and Geochemical study of selected khor-Abdullah coastal sediments N & NW Arabian Gulf, (unpublished), June 2006, **student name:** Al-Jabbiry, M. H.
- 9- Petrographical, Geochemical study of dibddiba sand deposits Bearing feldspar in selected areas, southern Iraq. (unpublished), June 2007, **student name:** Al- Najar, N. A.

- 10**-Hydrogeochemistry and evaluation of ground water in some selected wells,Northern east of Missan ,North-eastern Iraq. (unpublished), **student name:** Jabbar. F. K.
- 11**- Effect of some additives on the engineering properties of Amara soil in some selected areas, (unpublished), **Student name:** Al-Meyahee, M. M.
- 12**-Effect of the waste of Um-Qasar Cement factory on the properties of surrounding soil southern Iraq (unpublished),June 2011,**student name** :khalaf ,Y.I.
- 13**-Mineralogy and geochemistry of Sandstone of Al-Mukdadiya formation in selected areas ,north-eastern Missan ,Iraq.(unpublished),Dec,2011.**student name** :Alsamaan ,J.J.
- 14**-Assessment of some recent deposits in Al-Teeb area eastern Missan for ordinary and light weight Building Bricks industry ,(unpublished),April 2012,**student name:**Sameen,N.W.
- 15**-Assessment of stuitability of some selected Quaternary soils in Thiqr governorate for fabrication of Building bricks.,(unpublished) May,2012 **student name:**Hassan ,N.J.
- 16**-Study of physical and chemical properties of Gypcerte deposits and improvement their properties for plaster Industry, (unpublished),2012 .**student name** :Yaseen ,A.S.
- 17**-Mineralogy and geochemistry of clay units of Injana formation ,northern Iraq .(under accomplished).2013,**student name:**Abdulla,A.S.
- 18**-Environmental pollution assessment of soil and plants along high way between Basrah –Nassiriya and Samawa city by polycyclic aromatic hydrocarbons and heavy metals,(unpublished), July,2018, **Student name:**Al-Saleh,I.J.
- 19**-Mineralogy,Petrography and Geochemistry of Gulneri Formation in Sulaimania area,NE-Iraq.(unpublished),2019,Student name: Al-Saad,A.I.S.
- 20**-Assessment of limestone and Marl of Ibrahim Formation in Zurbatiya area ,Eastern Iraq for Ordinary Portland Cement.(unpublished).2020,Student name:Al-Ali,N.A.,
- 21**-Urban Environmental Geochemistry of Basrah city,Southern Iraq.(unpublished),2020,Student name:Jalal.G.K.
- 22**-Mineralogy,Geochemistry and Industrial assessment of sand dunes,Missan Governorate,Southeast of Iraq.(unpublished).2022,student name:Al-Halfi,F.M.

#### **Ph.D Thesis including the following titles:-**

- 1**-Effect of Root zone (Rhizosphere) of data palm,phoenix dactylifera and Ziziphus,on some mineralogy ,chemical,physical and biological properties of some cal careous soils ,southern Iraq (unpublished) sept,2010,**student name:**Yassen .M.M.
- 2**-Petrographical,geochemical and petrogenesis study of chromite bearing ultramafic and associated rocks inMawat and Penjween Ophiolite complexes-Northeastern Iraq.(unpublished), 2014 **Student name** :Sultan .B.M.

3-Mineralogy,Geochemistry and assessment of Injana and Mukdadiya claystone in t Missan and Wasit gover norate and their assessment for normal and light weight brick industry (under accomplished) ,2014,**Student name:**Al-Saad.,H.A.

4-Mineralogy,Geochemistry and provenance of Injana Formation in selected areaS,North-East and East of Iraq,(unpuplied),2020, **Student name:** Al-Najjari,N.K.

5-Mineralogy,Geochemistry and Industrial evaluation of Fatha gypsum rocks in Zurbatiya area-Eastern Iraq.(unpuplied).2020,**Student name:**Al-Hadadi,A.S.Y.

• **Conferences & Seminars**

- 1) 11<sup>th</sup> Iraqi Geological conference, Baghdad, May 2-4, 1994.
- 2) 14<sup>th</sup> Iraqi Geological conference, Baghdad, Oct. 15-17, 2000.
- 3) 5<sup>th</sup> Conference on Geochemistry, Al exandria – Egypt, Sep. 12-13, 2001.
- 4) 6<sup>th</sup> International Conferences on Geology of the Arab World, Cairo, Feb. 2002.
- 5) 1<sup>st</sup> Seminar on Engineering materials research, College of Engineering, Mosul University, Iraq, 11<sup>th</sup>, Dec. 2002.
- 6) 6<sup>th</sup> international conference on Geochemistry 15-16 Sept.Alexandaria.Egypt, 2004.
- 7) The international conference on Aquatic Resources of the Arab region,7-9<sup>th</sup>May,2005,Alexandaria,Egypt.
- 8) 2<sup>nd</sup> international conferences on the geology of the Tethys on march ,19-22,2007,Cairo university ,Egypt.
- 9) 6<sup>th</sup> international conference of Jordanian Geologists Association ,Amman,April,2-5,2007.
- 10) 3<sup>rd</sup> national conference on Environmental and natural Resources Basrah university ,College of science ,7-8 Nov.,2007.
- 11) 1<sup>st</sup> international meeting economics in the middle east Cairo ,1-3,Jan,2008.
- 12) 3<sup>rd</sup> international conference on the geology of the Tethys ,Aswan ,8-11 Jan,2008.
- 13) Scientific conference for Marine Science Basra university ,Marine Science center ,Basra ,23-25Dec,2008.
- 14) 9<sup>th</sup> international geological conference of the Arab world ,Cairo,24-29,Mar ,2008.
- 15) 1<sup>st</sup> international symposium on the petroleum and other geological resources in the Tethys Realm ,17-25 March ,2009,Cairo university.
- 16) 4<sup>th</sup> Scientific conference university of Babylon –College of science ,27-28,May 2009.
- 17) 1<sup>st</sup> scientific conference for center of desert studies university of Unbar ,Iraq .22-24,Dec ,2009.
- 18) 3<sup>rd</sup> international Syrian Chemical conference ,27-29 October ,2010,Aleppo-Syria.
- 19) 5<sup>th</sup> international conference on environment and national Resources Jan ,2012,basra,Iraq.

- 20) 1<sup>st</sup> international conference Roles universities and local councils in planning and development ,22-23,feb ,2012,Thiqr,Iraq.
- 21) 17<sup>th</sup> Iraqi Geological conference,24-25 April,2019,Baghdad.,Iraq.
- 22) 1<sup>st</sup> International conference,25-28 October,2021, in Natural Resources (GeoIraq .1),Tikrit university,Tikrit,Iraq.
- 23) 1<sup>st</sup> Geological conference(Geobasrah-1),15-17 March,2022,Basrah,Iraq.

- **Referees**

1. Dr. M. A. Al- Dabbas, Dept. of Geology, College of science, Baghdad University. Iraq. *E-mail:* [profaldabbas@yahoo.com](mailto:profaldabbas@yahoo.com)
2. Dr. T. A. Thanoon, Dept. of Geology, College of science, Mosul University, Iraq. *E-mail:* [tathanoon@yahoo.com](mailto:tathanoon@yahoo.com)
3. Dr. N. S. Al-Maliky, Dept. of physics, College of science, Basrah University, Iraq. *E-mail:* [njarrih@yahoo.com](mailto:njarrih@yahoo.com)