

Curriculum Vitae



Nadhir Al-Ansari

Surname : Al-Ansari
First name : Nadhir
Gender : Male
Nationality : Swedish
Present Title : Professor
Address : Department of Civil, Environmental and Natural Resources
Engineering Division Geotechnical Engineering, Lulea
University of Technology, 971 87 Lulea, Sweden

EDUCATION

Secondary:

1959-1964 Baghdad College –American School- (Secondary Baccalaureate).

University

1973-1976 Ph.D. Dundee University
1971-1973 M.Sc Baghdad University
1964-1968 B.Sc. Honours Baghdad University

MEMBERSHIP OF SOCIETIES

- Fellow and Regional Representative (in the Middle East), the Chartered Institution of Water and Environment Management (CIWEM).
- International Association of Hydrological Sciences.
- International Commission for Continental Erosion.
- Iraqi Scientific Society of Water Resources.
- Geological Society of Iraq.

Editorial Board of International Journals

- J. Advanced Science and Engineering Research.
- J. Earth Sciences and Geotechnical Engineering.
- J. Purity, Utility Reaction and Environment.
- J. Geosciences Research.
- Central European Journal of Engineering.
- 'Advisory Board Member' for J. Geosciences Research.

RECOGNITION AND MERIT AWARDS

A. Patent:

- Physical methods for the separation of iron oxides (Patent No. 2544 dated 11.10.1994).

B. Awards:

- Mesopotamia prize for water resources, 1994.
- Iraqi prize for scientific papers in Agriculture and Water Resources sector, 1994.
- Ministry of Higher Education and Scientific Research prize for best postgraduate supervisor, 1993/1994.
- Ministry of Water and Irrigation (Jordan) prize at the International Water Day for scientific contribution and local community services, 1998.
- Jordan Environmental Society prize for scientific contribution and local community services, 1998.
- Jordanian Astronomical Society for contribution for contribution to society, 2001.
- British Council 70th Anniversary, top 5 scientists in Cultural Relations Award, 5th November, 2004.

C. Recognition:

- Listed in Who's Who in the World,p.41, 2014, A Who's Who in America Publication.

EMPLOYMENT RECORD

20/12/2007 - now	Professor at Lulea Technical University, Sweden, and Professor at The Arab Open Academy in Denmark, Department of Environmental management since August, 2008- now.
03/09/1995 – 25/05/2007	Professor at Al-al Bayt University, Jordan.
01/09/2001 – 01/09/2006	Dean of the Institute of Earth and Environmental Sciences – IEES.

03/09/1995 – 24/09/2006	Director of the “Strategic Environment and water Resources Research Unit”, Al-al Bayt University, Jordan.
2001-2003	Chairman of the Council of the Institute of Astronomy and Space Sciences, Al-al Bayt University, Jordan.
01/07-01/09/2003	Acting Dean for Scientific Research and Postgraduate Studies, Al-al Bayt University, Jordan.
05/ 09/ 1995	Expert at Water and Environmental Research and Studies Center, University of Jordan, Jordan.
06 -1988 - April 1995.	Professor at the Department of Geology, Baghdad, University.
01/05/1992 - 29/12/1993.	Chairman, Department of Geology, Baghdad University.
11/1980-1988	Assistant Professor at the Department of Geology, Baghdad University.
11/ 1976-1980.	Lecturer at the Department of Geology, Baghdad University,
0111/1968 - 07/1973.	Demonstrator at the Department of Geology, Baghdad University.

UNIVERSITY TEACHING EXPERIENCE

A. Undergraduate level:

- Groundwater hydrology.
- Hydrology.
- Hydrochemistry.
- Meteorology.
- General Geology.
- Field Geology.
- Engineering Geology.
- Environmental Geology.
- Dam Engineering.

B. Postgraduate level:

- Advanced hydrogeology.
- Advanced hydrology.
- Sedimentation Engineering.
- Water quality.
- Water pollution.

- Hydrology of Rivers.
- Reservoirs.
- Advanced Hydrochemistry.
- Environmental Science.
- Environmental Laws and Policies.
- Interaction of Environmental Elements.
- Geomorphology.
- Sedimentation and soil science.
- Groundwater.
- Sedimentation Engineering.
- How to write scientific paper.

COMPUTER COMMAND

- Major part of my Ph.D. thesis is based on computer programming.
- Attended training course for one month on new computer techniques in 1997.
- Attended training course for one month on network computer techniques in 1997.
- Attended training course for one week on Internet computer techniques in 1997.
- Designed computer program on groundwater movement and solute transport using finite element technique with users manual.
- BLACKBOARD learning system ML.
- HORIZON WIMBA (live class room).

CONFERENCES AND SEMINARS ATTENDED

- Most of the conferences organized by the International Association of Hydrological Sciences (IAHS) since 1976.
- Lectured in various workshops and seminars in Jordan e.g. American AMIDEAST and German Club of Von Humboldt Fellows.
- All the Iraqi Geological conferences, presenting scientific papers (1976-1995).
- All Iraqi Hydrological conferences, presenting scientific papers (1981-1995).
- First European meeting of the International Association of Sedimentology (1980), presenting scientific paper.
- European Geophysical Union Meeting-Edinburgh -U.K.(1992), presenting a keynote paper.
- Artificial recharge of groundwater, Dortmund, Germany (1982).

- Chaired several sessions at the conferences organized by the International Association of Hydrological Sciences (IAHS).
- Organized and chaired all the Water Resources conferences in Iraq (1981-1995).
- Organized and chaired several sessions of the Iraqi Geological Conferences (1976-1995).
- Organized and chaired several sessions of the conferences organized by the Higher Scientific Societies Congress in Iraq.
- Lectured at all the seminars and training courses on hydrology and hydrogeology organized by the Geological Society of Iraq, Scientific Water Resources Society of Iraq and the University of Baghdad-College of Science (1976-1995).
- Lectured at the seminar organized by the Islamic Network on Water Resources Development and Management.
- Presenting scientific papers at two Jordanian Geological Conferences.
- Lectured at more than five seminars organized by Jordan Environmental Society (since 1995).
- Lectured at some British Universities (e.g. University of Wales-Cardiff 1996; Coventry University, 1999; Liverpool John Mores University, 2000).
- All conferences concerning Hydrology, Geology and Environmental sciences held in Jordan for the period 1995-2007.
- International Conference & Exhibition on Mass Mining, MassMin, Lulea, Sweden 9-11 June 2008.
- International Water Week, 17-23 Aug., 2009 Stockholm, Sweden.
- International conference on water and climate change in the MENA region, 28-29 April, 2011, Germany.
- International Water Week, 1-5 May, 2011, Germany.
- Specialized workshop on Landfills of Hazardous Waste and its Implications on Health and Environment, Lulea University of Technology, 15-17 November, 2011.
- 6th International Conference on Scour and Erosion, 28-31 August, 2012, Paris, France.
- 1st International Conference on Petroleum and Mineral Resources, in Koya, Kurdistan, Iraq, 3rd - 6th December 2012.
- Ost-westlicher Diwan e.V. Köln, Germany, Die Auswirkungen von Uranmunition auf Gesundheit und Umwelt im Irak, 19 October 2013
- Second Engineering conference, Mosul University, 19-21 November, 2013.
- First International Symposium on Urban Development of Koya as a case study, 16-18 December, 2013, Koya University, Iraq.

OTHER UNIVERSITY ACTIVITIES

1976 - Now	Supervision of postgraduate students (more than 50 Ph.D. and MSc).
1976 - 1995	Member of the scientific committee at the department of geology, Baghdad University.
1976 - 1995	Member of the postgraduate committee at the department of geology, Baghdad University.
1988 - 1995	Member at the committee of Staff development, Ministry of Higher Education and Scientific Research, Baghdad.
1993 - 1995	Member at the committee for the development of the geological curricula at the Iraqi universities.
1990 - 1995	Member of the scientific committee of the High Societies Congress, Iraq.
1995 - 2006	Member of the Dean's council at Al al-Bayt University, Jordan.
1996	Developing scientific cooperation program (coordinator) in Water Resources between Al al-Bayt University and Exeter University, UK.
1998	Developing scientific cooperation program (coordinator) in Water Resources between Al al-Bayt University and Coventry University, UK.
1998-2006	Member of the central postgraduate committee at Al al-Bayt University.
1998-2006	Member of the central scientific research committee at Al al-Bayt University.
1998	Developing scientific cooperation program (coordinator) in Water Resources between Al al-Bayt University and Liverpool John Mores University, UK.
2000 – 2006	Member of the delegate of Al al-Bayt University for developing new regulations and laws for Jordanian universities.
2001 - 2006	Member of Al al-Bayt University Council.
2001 - 2006	Member of staff Appointment and Promotion committee at Al al-Bayt University.

15/17-11 2011	Member, organization committee for the International workshop on Landfills of hazardous waste and its implications on health and Environment, Sweden.
05/2011	Member of the editorial board of the journal of Earth Sciences and Geotechnical Engineering.
06/2011	Member of the editorial board of the journal of Journal of Advanced Science and Engineering Research.
09/2011	Member of the editorial board of the journal Geosciences Research.
07/2011	Member of the editorial board of Central European Journal of Engineering.
01/2012	Coordinator and lecturer at the course on MODERN TEACHING AND RESEARCH TECHNIQUES, Special training course for University staff members development at Lulea University – LTU, 16 January-10 February, 2012.
02/2013	'Advisory Board Member' for J. Geosciences Research
12/2013	International advisory committee for 2nd International Conference on Petroleum and Mineral Resources, 21 – 23 October, 2014, Koya, Kurdistan, Iraq

COMMUNITY SERVICES

A. Major Scientific Consultations:

- Geological, geophysical and hydrological investigation of Mosul dam area (1984).
- Geological, geophysical and hydrological investigation of Mosul dam Reservoir (1985).
- Bathymetry of Hemrin Reservoir (1986).
- Hydrological investigation of Hemrin Reservoir (1987).
- Hydrological investigation to establish the best navigable route at River Tigris from Baghdad to Sammara and Tharthar canal (1990).
- Hydrological analysis for preventing city Baghdad from floods (1991).
- Establishing position of intake pipes for AL hakam Factory (1991).
- Hydrological investigation of Euphrates River at Bridge site (1991).
- Hydrological and geological investigation of Rawa bridge site (1992).
- De-watering of Hindiya cement factory site (1992).

- Stability of River Euphrates at Anbar power plant (1992).
- Geotechnical, hydrological and geophysical investigation for Baiji thermal power station sites (1992).
- Geotechnical, hydrological and geophysical investigation for Baiji thermal power station sites (1992).
- Geological, geophysical and hydrological investigation of pumping storage scheme for generation of electricity at Makhul Mountain (1992).
- Geotechnical, hydrological and geophysical investigation for Baiji thermal power station sites (1992).
- Geological, geophysical and hydrological investigation of pumping storage scheme for generation of electricity at Makhul Mountain (1992).
- Hydrological investigation of River Tigris to find the best navigable route from Baghdad to Umarah(1992).
- Evaluation of the geometry of River Tigris at Baghdad for navigation purposes (1992).
- Possibilities of groundwater utilization from Um Radhuma aquifer (western desert) (1993).
- Utilization of Groundwater on high way No.1 (Hit-Haditha to Km 251) (1993).
- Utilization of groundwater on Highway No.1 sectors 2 and 3 (Km 251 to Iraqi-Jordanian border) (1993).
- Hydrological investigation of Shammal Thermal Power Plant site (1994).
- Geological and Hydrological of the secondary Shammal Power plant site (1994).
- Various short-term consultancy activities for Electrical projects company.
- Physical separation of iron deposits (1994).
- Installation of piezometers at Hemrin dam site (1994).
- Slope stability analysis of Wadi Al-sir Wastewater treatment plant, Jordan (1995).
- Hydrogeology of Hama spring, Jordan (1996).
- Sediment transport in selected valleys in Mafraq area (sponsored by AL-al Bayt University).
- Sediment transport in Badia desert using Cs isotope 137 (joint research project with Exeter University, U.K.).(Sponsored by British Council- 1997).
- Utilization of Water resources in low rain areas east Mafraq. (Sponsored by Ministry of Water and Irrigation, Jordan- 1996).
- Erosion and Sedimentation problems in different environmental conditions, their causes and control measures. (Sponsored by UNESCO –1997).
- Optimization of meteorological stations in Badia area. (Sponsored by Higher Council for Science and Technology – Jordan 1998).

- Sediment transport in Badia desert - Jordan (sponsored by Higher Council for Science and Technology – Jordan -1998).
- Water quality monitoring in Mafraq City and Al al-Bayt University. (Sponsored by AL-al Bayt University).
- Dust monitoring at Mafraq Area. (Sponsored by AL al-Bayt University).
- Existing Water Harvesting Schemes at the Badia desert. (Sponsored by Higher Council for Science and Technology – Jordan –1998).
- Natural Recharge of Ground water. (Sponsored by Higher Council for Science and Technology – Jordan –1998).
- Water quality in the Badia region using remote sensing techniques.(joint project with Coventry University) (sponsored by British Council – 1999).
- Waste water treatment and re-use. .(joint project with Liverpool John Mores University) (sponsored by British Council-1999).
- Multidisciplinary study for the development of water resources in the Badia region. (Sponsored by World Bank –1998).
- Sustainable development of water resources and the environment in the Badia region. (Sponsored by World Bank –1999).
- Water resources management in Sarhan Basin, Jordan. (Sponsored by G-77 UNDP –2000).
- Water resources management in the Badia region as an example of arid and semi-arid regions. (Sponsored by G-77 UNDP –2001).
- Ancient Water Harvesting Schemes at Badia Region. (Sponsored by UNESCO –2000).
- Waste water treatment, management and re-use in Mediterranean countries. (Sponsored by EU –2002).
- Upgrading postgraduate labs in Earth and Environmental Sciences (Sponsored by Ministry of Planning, Jordan- 2002).
- Producing Efficient and High Quality Graduates for the Water Industry through Better Understanding and Implementation of Information Technology. (Sponsored by World Bank –2000).
- Development of Multidisciplinary Postgraduate Research Program In Water Industry Oriented for Arid and Semi-Arid Regions (Sponsored by UNESCO – 2006).
- Drainage rainfall network for the new football area and surroundings (Sponsored by Boden Kommun, Sweden), 2007.
- Central Labs for Scientific, Engineering, Medical Industry, Medicine and Agriculture, Submitted to Iraqi Ministry of Higher Education, Feb. 2012.
- Suggested Landfill Sites for Hazardous Waste in Iraq, Submitted to Iraqi Ministry of Environment, Dec. 2012.

B. Training courses, lectures, seminars and articles of general interest:

- Five lectures at different seminars organized by Jordanian Environment Society (since 1996).
- Lectured at all the seminars organized by Al al-Bayt University on water resources, hydrology and hydrogeology of desertic areas (1995-2006).
- Lectured on Water Resources in the Arab World at the University of Wales-Cardiff (U.K.), (April 1996).
- Invited to give lectures on Hydrology and Hydrogeology of the Arab Countries in January 1999 at the University of Coventry (U.K.).
- Organized and lectured at all the seminars and training courses of hydrology and hydrogeology at the Geological Society of Iraq, Iraqi Scientific Society for Water Resources and the University of Baghdad - College of Science (1976-1995).
- Lectured at the seminar organized by the Islamic Network on Water Resources Development and Management (1996).
- Lectured in most of the seminars organized by the Badia Development program (since 1996).
- Lectured at several Jordanian Universities (e.g. Science and Technology - Irbid - Mutaa University) since 1998.
- Training course on Groundwater Modelling in Shaidiah Area (one month), Phosphate Mining Company, 1999.
- Waste water treatment and re-use, 16 training courses (4 regional and 12 national) supported by EU (2004-2006).
- Training course for Iraqi Universities' staff at Lulea University of Technology, 23rd August- 22nd September, 2011, on university staff development in research and teaching sponsored by UNESCO and Iraqi Ministry of Higher Education and Scientific Research.
- Training course for Iraqi Universities' staff at Lulea University of Technology, 16 January-10 February, 2012, on university staff development in research and teaching sponsored by UNESCO and Iraqi Ministry of Higher Education and Scientific Research.
- Identification of most appropriate activities to be conducted on water and sanitation by Agence Francaise de Development "AFD", December 2013.
- Training course on scientific writing for Koya University staff at Koya, Iraq, 1 - 7 February, 2014, sponsored by UNESCO and Koya University.

POSITION OF RESPONSIBILITY AND ACTIVITIES

1968-1973	Member of the Publication Committee and Scientific Committee of the Iraqi Geological Society.
1974-1976	Rapporteur of the Department of Geology, Baghdad University.
1976-1980	Chairman of Scientific Congress Committee of the Arab Geological Association.
1977-1995	Member of Various committees in the Department of Geology Chairman of Various Sessions at International Conferences. Member of the Higher Scientific Society's Congress in Iraq. Supervising number of Ph.D. and M.Sc. Students. Undertaking several consulting strategic projects.
1977	Member of the organizing committee of the second Iraqi congress for of Geological Education.
28-31/12/1978	Secretary General of the 5th Iraqi Geological Congress.
28-31/12/1980	Secretary General of the 6th Iraqi Geological Congress.
1980-1982	Secretary General of the Geological Society of Iraqi.
1981	Chairman of 1st Iraq Hydrological Conference, Baghdad.
1981-1988	President of Geological Society of Iraq.
1981-1988	Member of the Editorial Board of the Journal of Geological Society of Iraq, since 1980 and them its Chief Editor.
1981-1992	Secretary of Editorial Board of the Journal of Water Resources.
1983-1988	Member of Iraqi National Committee for the International Geological Program.
1983 – 1995	Member of Iraqi National Committee for the International Hydrological Program.
1984	Chairman of 2nd Iraqi Hydrological Conference, Baghdad.
1984 – 1995	Member of Iraqi National Committee for Geodesy and Geophysics.
1984 – 1995	Member of Iraqi National Committee for Biosphere Program.
1985	Vice Chairman of the 7th Iraqi Geological Congress.
1985 – 1995	Member of Iraqi National Committee for Man and the Biosphere Program.

1986	Chairman of the International Symposium Erosion and Sedimentation in Arab Countries, Baghdad.
1987-1988	Consultant for Rafidian Company for Dam Construction.
1987-1991	Vice President of the International Commission for Continental Erosion ICCE.
1987 - 1995	National Correspondent of International Commission for Continental Erosion in Iraq.
1989	Chairman of 3rd Iraqi Hydrological Conference, Baghdad.
1992 - 1993	Chairman, Department of Geology, Baghdad University.
1991- 1995	President of the Iraqi Scientific Society for Water Resources.
3/9/1995 – 24/9/2006	Director of the "Strategic Environment and water Resources Research Unit", Al-al Bayt University, Jordan.
04/1996	Lectured on Water as a strategic resource in Arab region in the University of Wales, Cardiff, U.K..
1997-2007	Member of the National Jordanian Committee for the International Hydrological program.
1997-2007	Member, editorial board of Al-Manarah scientific journal of Al al-Bayt University.
2000-2007	Member of the Jordanian High Committee for the Development of Higher Education Development Project.
1/9/2001 – 1/9/2006	Dean of the Institute of Earth and Environmental Sciences - IEES.
12/2006 – now	Professor, Lulea University of Technology, Sweden.

PUBLICATIONS

1. *Al-Rawi, Yehya and Al-Ansari, N. A., 1971*, Effect of irrigation canals on the water table "A case study", J. Geol. Soc. Iraq, V4, pp73-80.
2. *Al-Ansari, N. A., and McManus, J., 1975*, Calculation of sediment discharge in River Earn, Scotland, 9th inter. Cong. Sedimentology, Nice-France.,pp113-120.
3. *Al-Ansari, N. A., Al-Jabbari, M.H. and McManus, J., 1977*, The effect of farming upon solids transport in the River Almond, Scotland, in Erosion and solid matter transport (Symposium), IAHS-AISH Publ. No. 122, Paris, France, pp 118-125.
4. *Al-Ansari, N. A., Al-Jabbari, M. H. and McManus, J., 1978*, Sediment discharge in the River Almond, Scotland, Iraqi J. Sc., V. 19, No. 2, pp 145-165.
5. *Hassan, H.A., and Al-Ansari, N. A., 1978*, Surface runoff and ground water evaluation for the Khazir River catchment (Iraq), 1st Arab Water Resources Cong., Syria.

6. Hassan, H.A., Al-Ansari, N. A., and Ali, S. H., 1979, Application of Modified Thornthwaites formula to Iraqi conditions, J. Geol. Soc. Iraq, V. 12, No. 1, pp 21-26.
7. Al-Ansari, N. A., Ali, S. H., and Taqa, A., 1979, Sediment discharge in the River Tigris at Baghdad (Iraq), International Congress in Hydrological Science, Canberra, Australia, IAHS Pub.No.128, pp 399-407.
8. Al-Ansari, N. A., and McManus, J., 1979, fluvial sediments entering Tay Estuary: sediment discharge from the river Earn, Scotland, Scott, J. Geol., V. 15, No.3.
9. Al-Ansari, N. A., Hassan, H. A., and Ali, S., 1979, Water balance of the lower part of Diyala catchment between Derbendikhan and Hemrin Dams (Iraq) Iraqi J. Sci., V. 20, No. 2.
10. Al-Ansari, N. A., Al-Jabbari, M. H., McManus, J., McDonald, D. and S., H., Ali, 1980, The motion of particles in open channels, J. Soc. Iraq, V.13, No.1, pp45-52.
11. Al-Ansari, N.A., and McManus, J., 1980, Re-investigation of the bathymetry of Loch Earn, Scotland, Scott. Geo. Mag., 97, pp105-113.
12. Al-Ansari, N.A., McManus, J., Al-Jabbari, M. and McDonald, D., 1980, Analysis of shear stresses in a gravelly river, J. Geol. Soc. Iraq, V.13, No.1, pp25-44.
13. Al-Ansari, N. A., Al-Jabbari, M. H. McManus, J. and McDonald, D., 1980, Fortran IV Program for sediment motion in open channels, 26 Inter.Geological Congress, France, No. 14, pp9-20.
14. Al-Ansari, N. A., Al-Shami, F., Hassan, H. A., and Ali, S., 1980, Water surplus and hydrographic analysis of Adhaim River catchment (Iraq), J.Geol. Soc. Iraq. V. 13, No. 1, pp53-59.
15. Al-Jabbari, M. H., Al-Ansari, N. A., and McManus, J., 1980, The effect of farming and housing upon sediment transport in a gravelly river. Influence of man of the hydrological regime (Intern. Symposium), Helsinki IHS Pub. No. 130, pp257-263.
16. Al-Jabbari, M. H., Al-Ansari, N. A., and McManus, J., 1980, The contribution of chemicals in rainfall to the dissolved load of the Tay drainage basin, Scotland, Influence of man on the hydrological regime (Intern. Symposium), Helsinki, IAHS Pub. N. 130, pp157-162.
17. Al-Jabbari, M. H., Al-Ansari, N. A., and McManus, J., 1980, Sediment and solute discharge into the Tay Estuary from the river system, Proc. Roy. Soc. Edinburgh, V, 78b, pp S15 - S32.
18. Al-Jabbari, M. H., Al-Ansari, N. A., and McManus, J., 1980, Relationship between dissolved and solids transport in rivers, 1st European meeting of the Intern. Assoc. of Sedimentology, W. Germany, pp 66-76.
19. Al-Jabbari, M. H., Al-Ansari, N. A., and McManus, J., 1981, Bank sediment effect on the nature of sediment motion in the River Lyon, Scotland, J. Geol. Soc. Iraq, V. 14, No. 1, pp 84-87.
20. Al-Jabbari, M. H., Al-Ansari, N. A., and McManus, J., 1981, Textural and compositional variations in the fluvial sediments of the Tay Basin, J. Water Res., V.1, No.1, pp 81-110.
21. Al-Jabbari, M. H., and Al-Ansari, N. A., 1981, The effect of channel geometry on the estimation of sediments load in the River Tigris within Baghdad, 2nd Arab Water Resources Cong., Morocco, pp 1-12.
22. Al-Ansari, N. A., and Al-Jabbari, M. H., 1981, Sediment transport in open channels: a comparison of field and experimental data, 2nd Arab Water Resources Conf., Morocco, pp 171-181.
23. Al-Ansari, N.A., Al-Jabbari, M. H., McDonald, and McManus, J., 1981, A FORTRAN IV program for textural properties (Roundness, Sphericity and Shape) evaluation of pebble sized clastic sediments, Computer and Geosciences, V.67, No. 3, pp 311-316.
24. Al-Ansari, N. A., Assaid, H. I. and Salim, V. N., 1981, Water resources in Iraq, J. Geol. Soc., V15, pp35-42.
25. Al-Ansari, N. A., Al-Jabbari, M. H., McManus, J., McDonald, D., 1981, A Fortran IV program for the evaluation of Hydraulic geometry parameters of river channels, Iraqi J. Sci., V. 22, No.4, pp 613-622.

26. Al-Jabbari, M. H., Al-Ansari, N. A., and McManus, J., 1982, Chemical quality and ionic balance of the River Tay, Scotland, J. Water Res., V.1, No.2, pp 63-91.
27. Al- Ansari, N.A., Al-Jabbari, Al-Sinawi, G., 1982, Modification of simple sedimentary statistics for recognition of fluvial environment, J. Water Res., V.1, No.2, pp43-55.
28. Malaz, M., Ali, S.H., McManus, J., and Al-Ansari, N.A., 1982. , The recognition and behavior of grain sub-populations in the sediments from the Adhaim basin, Iraq, J. Geol., Soc. Iraq, V. 15, No. 1, pp40-46.
29. Al- Ansari, N.A., Al-Jabbari, M.H., and Al-Sinawi, G., 1983, Calculation of sediment discharges for the period 1975-1981 in River Adhaim (Iraq), 2nd Inter. Conf. on River sedimentation, China, pp1105-1111.
30. Al- Ansari, N.A., Al-Jabbari, M.H., and Madhat, A. . 1983. Sediment discharge in Hemrin Dam Reservoir, 2nd Int. Cong. on river sedimentation, China, pp1098-1104.
31. Al-Jabbari, M. H., Al-Ansari, N. A., And McManus, J., 1983, The bathymetry of sedimentology of Loch Tay. Scotland, J. Water Res., V.2, No. 22, pp70-89.
32. Al-Ansari, N. A., Al-Jabbari, M. H., and McManus, J., 1983, Sediment discharge in River Adhaim (Iraq), J. Water Res., V. 2, No. 2, pp 112-121.
33. Al-Jabbari, M. H., Al-Ansari, N. A., and McManus, J., 1983, Variation and solute concentration within the River Almond and its effect on the estimated dissolved load, Dissolved load of rivers and surface water quality/quantity relationship, Symp. Hamburg, IAHS Pub., No. 141, pp 21-29.
34. Barazanji, A. and Al-Ansari, N.A., 1984, Geological investigation and geophysical analysis of Fatha area, J. Water Res., V. 3, No. 2, pp 141-181.
35. Al-Ansari, N.A., and Toma, A., 1984, Bed characteristics of the River Tigris within Baghdad, J., Water Res., V. 3, No. 1, pp 1-23.
36. Al-Ansari, N. A., Al-Jabbari, M. H., Salem, B., 1985 , Annual .Sediment budget in River Euphrates at Hit, J. Geol. Soc. Iraq, V. 18, No.1, pp 277-286.
37. Al-Ansari, N. A., and Toma, A., 1985, Suspended Sediment waves in the River Tigris at Sari station for the year 1982, Inter. Symp. on Erosion, Debris flow and Disaster Prevention Keynote, Japan, pp 157-162.
38. Al-Ansari, N. A., and Ali, J. L., 1986, Suspended load and solute discharge in River Tigris within Baghdad, J. Water Res., V. 5, pp 35-50.
39. Al-Jabbari, M. H., and Al-Ansari, N. A., 1986, Dissolved load and ionic balance in the upper reaches of the Euphrates River, J. Water Res., V. 5, pp 98-116.
40. Salman, M.A., Al-Ansari, N.A., and Al-Falluji, M.M., 1986, Bacterial density and related hydrological parameters of Tigris water within Baghdad J. Water Res., V. 5, pp 622-640.
41. Salman, M.A., Al-Ansari, N.A., and Al-Falluji, M.M., 1986, Comparative study of bacterial density and suspended concentration of Tigris - Diyala water, J. Water Res., V. 5, pp 641-653.
42. Al-Ansari, N.A., and Gayara, A.D., 1986, Geology of Jabal Butmah and Tairah: an outlook on the Oligocene-Miocene succession, Northern Iraq, J. Water Res., V.5, No.2, pp 102-115.
43. Al-Ansari, N.A., and Al-Sinawi, G., 1986, Hydrology of Arabian Gulf, 1st Conf. on Arabian Gulf, Baghdad, pp 97-109.
44. Al-Ansari, N.A., Al-Jabbari, M.H., and Al-Sinawi, G., 1986., Suspended sediment in the upper parts of River Euphrates, J. Water Res., V. 5, No. 1, pp 67-83.
45. Al-Ansari, N. A., Sayfy, A., Ovanessian, A.A., and Al-Sinawi, G.T., 1986, Water Quality of the River Tigris north of Baghdad using multivariate analysis, J. Water Res., V. 5, No. 2, pp 148-172.
46. Al-Ansari, N. A., Sayfy, A., Al-Sinawi, G.T., and Ovanessian, A. A., 1986. Evaluation of the water quality for the lower reaches of River Tigris using multivariate analysis, J. Water Res., V. 5, No. 2, pp 173-187.
47. Al-Ansari, N. A., Toma, A., and Al-Sinawi, G.T., 1986, Continuous monitoring of suspended sediment and solute loads of the River Tigris at Baghdad J. Geol. Soc. Iraq, V. 19, No. 1, pp 1-23.

48. **Al-Jabbari, M. H., Al-Ansari, N. A., 1986**, Quality and ionic balance at the lower reaches of Rivers Tigris and Euphrates, (Unpublished confidential).
49. **Al-Jabbari, M. H., Al-Ansari, N. A., and Hussien, B. M.N., 1986**, Hydro chemical characteristics of River AL-Khair, Iraq, J. Geol. Soc. Iraq, V. 19, No. 1, pp 13-25.
50. **Al-Ansari, N. A., Al-Sinawi, G.T., and Jamil, A. K., 1986**, Suspended and solute loads on the lower Diyala River, Drainage Basin Sediment Delivery, IAHS Pub., No. 159, pp 225-235.
51. **Al-Ansari, N. A., Salman, H. H., and Al-Sinawi, G.T., 1987**, Periodicity of selected water quality parameters for the Tigris water at Baghdad, J. Water Res., V. 6, No. 2, pp 11-17.
52. **Al-Ansari, N. A., and Al-Sinawi, G., 1987**, Water quality of the Tigris water at Baghdad, using multivariate analysis, J. Water Res., V. 6, No.1, pp 54-81.
53. **Al-Ansari, N. A., Assad, N. and Rahma, A., 1987**, New mathematical approach for recognition of sedimentary environments, J. Geol. Soc. Iraq, V. 20, No. 1, pp 136-156.
54. **Al-Ansari, N. A., (Ed.) 1987**, Hemrin Reservoir: Geological and Hydrological Investigation, J. Water Res., Special Pub., No. 2.
55. **AL-Ansari, N. A., AL-Jabbari, M.H and AL-Shakiri, A., 1987**, Geology of Diyala basin, (In Hemrin Reservoir: Geological and Hydrological Investigation). J. Water Resources special pub. No.2, 67p.
56. **AL-Ansari, N. A., Asaad, N. M., AL-Jabbari, M.H., and Millard, G., 1987**, Bathymetric survey of Hemrin dam reservoir, (In Hemrin Reservoir: Geological and Hydrological Investigation). J. water Resources special pub. No.2, 25 p.
57. **AL-Ansari, N. A., AL-Jabbari, M.H and AL-Sinawi, G., 1987**, Surface water chemistry of Hemrin reservoir, (In Hemrin Reservoir: Geological and Hydrological Investigation). J. Water Resources special pub No.2, 28 p.
58. **AL-Ansari, N. A., AL-Sinawi, G., and AL-Jabbari, M.H, 1987**, Hemrin reservoir Sediments, (In Hemrin Reservoir: Geological and Hydrological Investigation). J. Water Resources special pub No.2, 25 p.
59. **Al-Ansari, N. A., Assad, N., Walling, D. E., and Hussan. S. A., 1988**.The suspended sediment discharges of River Euphrates at Haditha, Iraq, Geografisca Annaler, 70 A, 3, pp 203-213.
60. **Al-Ansari, N. A., and Al-Sinawi, G.T., 1988**. Periodicity of suspended sediments concentrations in the River Tigris at Baghdad identified using short interval sampling, Inter. Symp. On sediment Budgets, IAHS Pub. No. 174, Brazil, pp 353-357.
61. **Hussain S.S., AL-Ansari, N.A and Zakko, S.,1988**,Intrinsically non-linear regression model for prediction of return period of flood and draught, J. Water Res., V. 7,pp 56-69.
62. **Al-Ansari, N. A., Al-Hamdani, A. and Sayfy, A. 1988**, Probability of the return period of draught in Greater Zab River, J. Water Res. V. 7, pp 81-97.
63. **Al-Jabbari, M.H., Al-Ansari, N. A., and Faiq, S. Y., 1989**, Chemical composition of rainwater in Baghdad area, Iraq Jour. Science, V.30, No 1, pp 67-56.
64. **Al-Ansari, N. A., and Al-Sinawi, G.T., 1989**, Suspended sediments waves in lower Diyala River for the period June 1984, July 1987, 4th ISRS, Beijing, China.
65. **Hassan, H. A., Al-Ansari, N. A., Zaki, N.A., and Salih, A. Y., 1989**. Hydro meteorological approach and hydrographic analysis for water surplus determination Erbil Basin, N., Iraq, Scientific Research Council, 3rd Conference, Baghdad, paper No. 1, pp 1-46.
66. **Al-Ansari, N. A., Al-Shamari, S.H., and Sayfy, A., 1990**, Probability of return period of flood for River Euphrates at Hit, J. Water Res., V. 9, pp 86-102.
67. **Al-Ansari, N. A., Al-Hamdani, A., and Sayfy, A., 1990**,Probability of flood frequency for Greater Zab River, Proc. of 2nd Conference SDRG, Mosul, Iraq, pp 1-28.
68. **Al-Ansari, N. A., Taka, A. S., and Ovanessian, A. A., 1990**, Water quality of the springs between Diyala and Greater Zab Rivers, 2nd National Geol. Conference, Tunis, Tunsie.

69. **Al-Ansari, N. A., Jassim, M.D., Thijeel, A., Abbas, H., Jawad, S.B., and Ahmad, A., 1990**, Possibility of using Western Desert for agricultural purposes, Ministry of Agricultural and Irrigation, internal report, 14 p.
70. **Al-Ansari, N. A., Hussein, S.S., and Hassan, I. O., 1990**, Probability of return period of flood and draught in River Tigris at Mosul Station, J. Water Res., V. 9, pp 16-32.
71. **Al-Ansari, N. A., Al-Suhail, Q., 1991**, Return period of flood in River Khabour J., Water Res., V. 10. ,pp 33-42.
72. **Al-Ansari, N. A., Al-Suhail, Q., 1991**, Probability of the return period of draught at River Khabuor in Zakho (IRAQ), J. Water Res., V10, pp 43-58.
73. **Al-Ansari, N. A., and Ibrahim, K., 1992**, Sediments in Hemrin reservoir deposits in a recently impounded reservoir, keynote paper at European Geophysical Union 1992 meeting, Edinburgh, U.K.
74. **Al-Ansari, N. A., Amro, Y. A., and Bilal, A.A., 1992**, Hydrographic analysis of Tigris River at Mosul Gauging Station, J. Water Res., V. 11, pp 1-12.
75. **Al-Ansari, N. A., Al-Taiee, T.M., and Bilal, A.A., 1993**, Stability of bed of the Tigris River downstream Saddam Dam, Iraqi J. Sc., V. 12, pp92-102.
76. **Bilal, A.A., Al-Taiee, T.M., Al-Ansari, N. A., 1992**, Bed characteristics and morphology of artificial reservoir on Tigris River, N. Mosul City, J. Water Res., V. 11, pp 21-32.
77. **Al-Ansari, N. A., Muhammed, K.I., and Al-Kubaisi, Q., 1993**, Ground water fluctuations in Badush Dam site, J. Water Res., V. 12, pp 57-68.
78. **Jamil, A. K., Al-Sinawi, G. T. and Al-Ansari, N. A., 1993**, Hydrochemistry of lower Diyala River, Iraq, J. Water Res., V. 12, No.1, pp 24-40.
79. **Al-Ansari, N. A., Muhammed, K.I., and Al-Kubaisi, Q., 1993**, Hydraulic characteristics of Jribe aquifer in Badush Dam site, J. Water Res., V.12, pp 69-77.
80. **Al-Ansari, N. A., Muhammed, K.I., and Zaki, S.S., 1993**, Hydrochemistry of groundwater in Badush Dam site, J. Water Res., V.12, pp 101-112.
81. **Al-Ansari, N. A., Dhari, M., Assad, N., Al-Shama, A., and Al-Jubori, S., 1993**, Agricultural use of deserts using ground water, J. Water Res., V. 12, pp 113-124.
82. **Hassan, H.A., and Al-Ansari, N. A., 1993**, Groundwater salinity moving boundaries/Arab Marsh, S. Iraq, Iraqi Geological Journal, V., 26, No. 3, pp 67-78.
83. **Al-Ansari, N. A., and Al-Hadithi, K., 1994**, Sedimentology and geochemistry of Qudisiya Reservoir (IRAQ), J. Water Res., V.13, pp 20-45.
84. **Al-Ansari, N. A., Abdul Rasool, A., AL-Hadithi, K., 1994**, Effect of wave action on the coasts of Quadisiya Reservoir, J. Water Resources, V.13, pp 46-51.
85. **Al-Ansari, N. A., Farman, Y., AL- Jubbori, T., 1995**, Calculation of dissolved load in River Tigris at Baghdad and Factors influencing the load, Iraqi Sciences J., V. 36, pp 155-164.
86. **Al-Ansari, N. A., Ibrahim, K. Iskandar, N., 1995**, Hydraulic parameters of Dammam formation in Western desert (IRAQ), Iraqi Science J., V.36, pp 314-325.
87. **Al-Ansari, N. A., Rushdi, B., AL-Shamma, A., 1995**, Utilization of ground water for agricultural activities, South Nakhaib area, Western desert (IRAQ), Int. Conf. On Water Resources Management *in Arid* Regions, Sultanate of Oman, pp 450-456.
88. **Al-Ansari, N. A., Salmah, E., 1995**, Water and Civilization, AL-Zahra, V.2, N.10.
89. **Al-Ansari, N. A., and Al-Shama, A., and 1995**, Long term utilization of ground water in Liefiya-Lusuf area, Western Desert, Iraqi Sc. J., V.36, pp 282-313.
90. **Al-Ansari, N. A., 1996**, Islamic Water Laws, AL- Zahra, V.3, N.12
91. **Al-Ansari, N. A., 1996**, Water as Strategic Resource in the Arab Countries, AL-Nadwa, V.7.

92. **Al-Ansari, N .A., Rimawi,O. and Ali, A.Z.,1996**,Mathematical model for Groundwater movement and Solute Transport using Finite Element Techniques -computer model, Private Model with users manual.
93. **Rimawi, O and AL- Ansari, N.A.,1997**, Ground water degradation in the north-eastern part of Mafrq area, Jordan, International Assoc. Hydrological Sciences 5th Scientific Assembly, S4 Fresh Water Contamination, IAHS 243, pp 235-243.
94. **Al-Ansari,N.A.and Rimawi,O.,1997**,Bed Sediments and Morphology of the River Tigris as effected by the Mosul Dam, International Assoc. Hydrological Sciences 5th Scientific Assembly,S6 Human Impact on Erosion and Sedimentation, IAHS 245, pp 291-300.
95. **Al-Ansari, N.A., 1998**, Water resources in the Arab countries: Problems and possible solutions, UNESCO International conf. (Water: a looming crisis), Paris, pp 367-376.
96. **Al-Ansari, N.A. and Salameh, E., 1999**, Water Resources problems and its adverse environmental implications on the Badia desert as an example of arid region, Intern. Conf. "The Dialogue of Cultures", Berlin, April 22-23.
97. **Al-Ansari, N.A.; Salameh, E. and Al-Omari, I., 1999**, Analysis of Rainfall in the Badia Region, Jordan, Al al-Bayt University Research paper No.1, 66p.
98. **Al-Ansari, N.A., 1999**, Water Resources in Mafrq and Al al-Bayt University Contribution, Workshop on Water Resources and Environment in the Badia Region organized by Al al-Bayt Univ. and Coventry Univ.(U.K.), Mafrq 12-17 July.
99. **Al-Ansari,N.A. and Salameh, E.,1999**, *Water Resources in Mafrq Governorate, Proceeding of the conference on New Horizons for Economic and Social Development in Jordanian Badia and Countryside, Al al Bayt University, pp 56-78.*
100. **Salameh, E. and Al-Ansari, N.A, 2000**, Water pollution issues in Zarqa area , Al al-Bayt University Research paper No. 2,41 p.
101. **Baban,S. and Al-Ansari, N.A., 2001**, Physical Setting, **in: Baban, S. and Al-Ansari, N.A., (Eds.)**, 2001, Living With Water Scarcity, Water resources in the Jordan Badia Region, The Way Forward, Chapter 2, Al al-Bayt University Publication, Jordan.
102. **Al-Ansari, N.A. and Baban, S., 2001**,The Climate and Water Resources, **in: Baban, S. and Al-Ansari, N.A, (Eds.)**, Living With Water Scarcity, Water resources in the Jordan Badia Region, The Way Forward, Chapter 3, Al al-Bayt University Publication, Jordan.
103. **Baban,S. and Al-Ansari, N.A., 2001**, A Research Agenda to Minimize Water Resources Degradation Using Remote Sensing and GIS, , **in: Baban, S. and Al-Ansari, N.A, (Eds.)**, Living With Water Scarcity, Water resources in the Jordan Badia Region, The Way Forward, Chapter 9, Al al-Bayt University Publication, Jordan.
104. **Walling, D.E.; He, Q.P. and Al-Ansari, N.A., 2001**,The Redistribution of Fallout Cesium 137 in the Catchments of the Jordanian Badia, **in: Baban, S. and Al-Ansari, N.A, (Eds.)**, Living With Water Scarcity, Water resources in the Jordan Badia Region, The Way Forward, Chapter 10, Al al-Bayt University Publication, Jordan.
105. **Al-Ansari, N.A., 2001**, Strategic Environment and Water Resources Research Unit, Al al-Bayt University, **in: Baban, S. and Al-Ansari, N.A, (Eds.)**, Living With Water Scarcity, Water resources in the Jordan Badia Region, The Way Forward, Chapter 12, Al al-Bayt University Publication, Jordan.
106. **Al-Ansari,N.A. and Al-Alalami, H., 2003**, Reduction of Water Storage Capacity of the Wadi Arab Dam (Jordan) due to Reservoir Sedimentation, Al Manara Journal for scientific studies and research.V.9., No2, pp 155-168.
107. **Rimawi, O.; Al-Ansari, N.A.; Salameh, E. and El-Naqa, A.,2003**, Hydrochemistry of ground water resources in the north-eastern part of Mafrq area, Jordan, Al-Manara Scientific Journal ,Al al-Bayt Univ., V.9,No2, pp 9-50.
108. **AlKaddar, R, Papadopoulos, G. and Al-Ansari, 2003**, Water Harvesting Schemes in Jordan, Proc. Of the International Conference on Efficient Use and Management of Urban Water Supply, Paper10087, Efficient 2003, Tenerife, Spain, April 2003.

109. **AlKaddar,R.;Sheely, W. and Al-Ansari, N.A., 2005,** Jordan's Water Resources, Supply and future demands, Journal of International Water, V 30, No 3, pp 294-302.
110. **Al-Ansari,N.A. and Baban, S.,2005,**Rainfall Trends in the Badia Region of Jordan, Surveying and Land Information Science, V. 65, No 4, pp 233-243.
111. **Al-Ansari, N.A. and Shatnawi, A., 2006,** Actual storage capacity of Shar Habeel Ben Hasna Reservoir, Al Manara Journal for scientific studies and research 12, pp 11-26.
112. **Al-Ansari,N.A. Al-Shamali,B. and Shatnawi, A., 2006,** Statistical analysis at three major meteorological stations in Jordan, Al Manara Journal for scientific studies and research 12, pp 93-120.
113. **Al-Ansari, N.A. and Salameh, E., 2006,**Country Study Jordan, in **Al-Ansari,N.A.;et.al.(Eds.)**,Efficient Management of Wastewater, Its Treatment and Reuse in Four Mediterranean Countries, Published by EMWater Project, Funded by European Union.
114. **Al-Ansari, N.A. and Knutsson,S., 2011,** Possibilities of restoring the Iraqi Marshes known as the Garden of Eden, Water and Climate Change in the MENA-Region, International Conference, Germany, 28-29 April, 2011.
115. **Al-Ansari, N.A. and Knutsson, S., 2011,** Toward Prudent management of Water Resources in Iraq, J. Advanced Science and Engineering Research, V. 1,53-67.
116. **Al-Ansari, N.A.,Push, R.,Knutsson, S. and Al-Muqdad, K., 2011,** Saving Iraqi Civilians from Catastrophic Implications of Depleted Uranium used in Gulf Wars I and II, Report, Published by Lulea University of Technology,25p.
117. **Qi,J.;Knutsson, S.;Al-Ansari,N.A. and Huang,Y., 2011,** Particle Characterization and Determination of Erodible Fraction of Surface Soil nearby the open pit in Malmberget Mine, Sweden, International Multidisciplinary Scientific GeoConference SGEM2011, Bulgaria.
118. **Qi,J.,Al-Ansari,N.A. and Knutsson, S., 2011,** Dust Generation Within the Vicinity of Malmberget Mine, Sweden, J. Applied Mechanics and Materials, V 90-93, 752-759.
119. **Jia, Q., Al-Ansari, N.A. and Knutsson, S., 2011,** Evaluation of Dust Fallout at Malmberget mine, Sweden for the period August 2009 to August 2010, J. Advanced Science and Eng. Research, V 2, No. 1, 246-260.
120. **Al Ansari, N.A.; Al-Hanbali, A. and Knutsson, S., 2012,** Locating Solid Waste Landfills in Mafraq city, Jordan, J. Advance Science and Engineering Research, V. 2 No.1, 40-51.
121. **Al-Taie,E., Al-Ansari, N.A. and Knutsson, S., 2012,**Progress of Building Materials and Foundation Engineering in Ancient Iraq, J. Advanced Materials Research, V. 446-449,220-241.
122. **Al-Ansari, N.A. and Knutsson, S., 2012,**Reduction of Storage Capacity of two Small Reservoirs in Jordan, J. Earth Science and Geotechnical Engineering, V. 2 , No. 1,17-37
123. **Mohammad, M.E.; Al-Ansari, N.A. and Knutsson, S., 2012,** Sediment Delivery from Right Bank Valleys to Mosul Reservoir, Iraq, J. Ecology and Environmental Sciences, V.3, No. 1,50-53.
124. **Zakaria, S., Al-Ansari, N.A. and Knutsson, S., 2012,** Rain Water Harvesting and Supplemental Irrigation at Northern Sinjar Mountain, Iraq, Journal of Purity, Utility Reaction and Environment Vol.1 No.3, 121-141.
125. **Ezz-Aldeen, M. Al-Ansari, N.A. and Knutsson, S., 2012,** Application of SWAT Model to Estimate the Runoff and Sediment Load from the Right Bank Valleys of Mosul Dam Reservoir, 6th International Conference on Scour and Erosion, 28-31 August, 2012, Paris, France.
126. **Issa, I., Al-Ansari, N.A.,Knutsson, S. and HKhaleel, M., 2012,** The effect of operation of Mosul dam on sediment transport in its reservoir, 6th International Conference on Scour and Erosion, 28-31 August, 2012, Paris, France.
127. **Al-Taie, Al-Ansari,N.A., Pusch, R. and Knutsson, S., 2012,** Proposed Site Selection Criteria for Hazardous Waste Disposal Facilities in Iraq, International Conf. Waste Management, 4-6 July, 2012, Wessex Institute of Technology, UK.

128. Ali, A., Al-Ansari, N.A. and Knutsson, S., 2012, Impact of Growing Islands on the Flood Capacity of Tigris River in Baghdad City, 6th International Conference on Scour and Erosion, 28-31 August, 2012, Paris, France.
129. Huang, Y., Al-Ansari, N.A., Knutsson, S. and Jia, Q., 2012, The One Dimensional Model for Coarse Particle, Around Mining Area in Northern Sweden, J. Advanced Materials Research, V.2, No. 2, 126-137.
130. Al-Ansari, N.A., Knutsson, S. and Ali, A., 2012, Restoring the Garden of Eden, Iraq, J. Earth Science and Geotechnical Engineering, V. 2 , No. 1,53-88.
131. Zakaria, S. Al-Ansari, N., Ezz-Aldeen, M. and Knutsson, S., 2012, Rain Water Harvesting at Eastern Sinjar Mountain, Iraq, J. Geosciences Research, V. 3,N. 2, 100-108.
132. Al-Ansari, N.A., Alroubai, A. and Knutsson, S., 2012, Sedimentation Rates in two Water Harvesting Schemes at the Jordanian Badia, J. Ecology and Environmental Sciences, V.3, No.3, 82-86.
133. Mohammed, M.H., Pusch, R., Al-Ansari, N.A. and Knutsson, S., 2012, Optimization of Concrete by Minimizing Void Volume in Aggregate Mixture System, J. Advanced Science and Engineering Research, V.2, No.3, 208-222.
134. Huang, Y., Al-Ansari, N.A., Knutsson, S. and Jia, Q., 2012, The Simulation of the Dust Grain Movement by Sediment Transport Model around Mining Area in Northern Sweden, J. Earth Science and Geotechnical Engineering, V. 2 , No. 2,1-11.
135. Al-Ansari, N.A., Alroubai, A. and Knutsson, 2012, Bathymetry and Sediment survey for two old water harvesting schemes, Jordan, J. Earth Science and Geotechnical Engineering, V. 2 , No. 2,13-23.
136. Al-Taie, E., Al-Ansari, N.A. and Knutsson, S., 2012, The Progress of Buildings Style and Materials from the Ottoman and British Occupations of Iraq, J. Earth Science and Geotechnical Engineering, V. 2 , No. 2,41-51.
137. Al-Taie, E., Al-Ansari, N.A. and Knutsson, S., 2012, Materials and the Style of Buildings used in Iraq during the Islamic period, J. Earth Science and Geotechnical Engineering, V. 2 , No. 2,69-97.
138. Ali, A., Al-Ansari, N.A. and Knutsson, S., 2012, Morphology of Tigris River within Baghdad City, J. Hydro. Earth Syst. Sci., V. 16, 1-8.
139. Ezz-Aldeen, M. Al-Ansari, N.A. and Knutsson, S., 2012, Runoff and Sediment Load from the Right Bank Valleys of Mosul Dam Reservoir, J. Civil Engineering and Architecture, V. 6 , No. 10, 1414-1419.
140. Mohammed M. H., Al-Ghuri M., Al-Ansari N., Jonasson J.E, Pusch R. and S. Knutsson S., 2012, Design of Concrete Mixes by Systematic Steps and ANN, J. Advance Science and Engineering Research, V. 2, No. 4, 232-251.
141. Zakaria S., Al-Ansari N., Knutsson S., Al-Badrany T., 2012, ARIMA Models For Weekly Rainfall In The Semi-Arid, Sinjar District At Iraq, J. Earth Science and Geotechnical Engineering, V. 2, No. 3, 25-55.
142. Issa, I.S., Al-Ansari, N.A., Knutsson, S. and Khalelli, M., 2012, Sediment delivered in the Upper Part of Mosul Reservoir Using Physical Model, J. Civil Engineering and Architecture, V. 6 , No. 11.
143. Mohammed, M.H., Pusch, R., Al-Ansari, N., Knutsson, S., Emborg, M., Nilsson, M. and Pourbakhtiar, A., 2013, Talc-based Concrete for Sealing Borehole Optimized by using Particle Packing Theory, J. Civil Eng. and Architecture, V.7, 2,440-455.
144. Al-Taie, E., Al-Ansari, N.A., Knutsson, S., and Saaed, T.E., 2013, Foundation Assessment in Different Parts of Iraq using STAAD Pro v8i, , J. Civil Eng. and Architecture, V.7,3, 273-281.
145. Al-Ansari, N.A., Pusch R., Knutsson, S., and Almuqdad K., 2013, Isolation of Radioactive Military Wastes in Iraq, J. Earth Sciences and Geotechnical Engineering, V.3, 3,1-10.

146. Al-Taie, L., Al-Ansari, N.A., Knutsson, S. and Pusch, R., 2013, Hazardous Wastes Problems in Iraq: Suggestions for an Environmental Solution. J. Earth Sciences and Geotechnical Eng., V.3, 3, 81-91.
147. Al-Taie, L., Pusch, R., Al-Ansari, N.A. and Knutsson, S., 2013, Hydraulic properties of smectite clay from Iraq with Special Respect to Landfills of DU-contaminated Waste , J. Earth Sciences and Geotechnical Eng., V.3, 3,109-125.
148. Qi Jia, , Yi Huang, Al-Ansari, N.A. and Knutsson, S.,2013, Dust emission from landfills due to mining operations: A case study, J. Earth Sciences and Geotechnical Eng., V.3, 3,25-34.
149. Almuqdad, K. and Al-Ansari, N.A.: 2013, Nature, Size and Contaminated Areas of the Waste of War in Iraq,J. Earth Sciences and Geotechnical Enng., V.3,3, 93-107.
150. Al-Muqdad, K. and Al-Ansari, N.A., 2013, Risks of the Military uses of Depleted Uranium on Humans and the Environment, J. Earth Sciences and Geotechnical Eng., V.3,3,263-203.
151. Ansari,N.A. 2013, Landfills in Arid Environment, J. Earth Sciences and Geotechnical Eng.,V.3,3, 11-24.
152. Qi, J., Al-Ansari, N. and Knutsson, S., 2013, Dust emission from unpaved roads in Luleå, Sweden, J. Earth Science and Geotechnical Engineering, V 3,1, 1-13.
153. Al-Ansari, N., Al-Oun,S.,Hadad, W. M., and Knutsson, S., 2013,Water loss in Mafraq Governorate, Jordan, , J. Natural Science, V. 5, No. 3, 333-340.
154. Lundberg, A., Feiccabrino,J.,Westerlund, C. and Al-Ansari, N.A., 2013, Urban snow deposits versus snow cooling plants in Northern Sweden: A quantitative analysis of snow melt pollutant releases, Accepted for publication in ASCE J. Water Quality Research of Canada.
155. Ezz-Aldeen, M., Al-Ansari, N.A. and Knutsson, S., 2013, Application of SWAT model to estimate the sediment load from the left bank of Mosul dam, J. Advance Science and Engineering Research, V. 3, No. 1, 47-61.
156. Al-Rawabdeh, A.,Al-Ansari, N.A., Al-Taani, A. and Knutsson, S., 2013, A GIS-based DRASTIC model for assessing aquifer vulnerability in Amman-Zerqa groundwater basin, Jordan, J. Engineering, V.5,490-504.
157. Al-Ansari, N.A., Pusch R., and Knutsson, S.,2013, Suggested Landfill Sites for Hazardous Waste in Iraq, J. Natural Science, V. 5, 4,463-477.
158. Al-Ansari, N.A., Aldardor, W., Siergieiev, D. and Knutsson, S., 2013, Effect of Treated Wastewater Irrigation on Vegetables, J. Environmental Hydrology, V.21,paper 5, 1-12.
159. Qi, J., Al-Ansari, N.A. and Knutsson, S., 2013, Estimation of road dust using BSNEs, Accepted, J. Natural Science.
160. Issa, E.I., Al-Ansari, N.A. and Knutsson, S., 2013, Changes in Bed Morphology of Mosul Dam Reservoir, J. Advanced Science and Engineering Research, V.3,2, 86-95.
161. Al-Ansari, N.A., Al-Hanbaly, M. and Knutsson, S., 2013, Hydrology of the most ancient water harvesting schemes, J. Earth Science and Geotechnical Engineering, V 3,1, 15-25.
162. Zakaria S., Al-Ansari N., and Knutsson S., 2013, Rainwater Harvesting Using Recorded and Hypothetical Rainfall Data Scenarios, J. Earth Science and Geotechnical Engineering,V.3, 2, 21-42.
163. Al-Ansari, N.A., Issa,E.I., Sherwani, G. and Knutsson, S., 2013, Sedimentation in the Mosul Reservoir of Northern Iraq, J. Environmental Hydrology. 21, paper 7, 1-10.
164. Zakaria S., Al-Ansari N.A., Y. Mustafa, Mohammed D.A., Knutsson S., Ahmed P. and Ghafour B., 2013, Rainwater Harvesting at Koysinjq (Koya), Kurdistan Region, Iraq, J. Earth Sciences and Geotechnical Eng., V. 3, 4,25-46.

165. Zakaria, S., Al-Ansari, N.A. and Knutsson, S., 2013, Historical and Future Climatic change Scenarios for Temperature and Rainfall for Iraq, J. Civil Eng. And Arch.,V.7, 12, 1574-1594.
166. Mohammed, M.H., Pusch, R., Al-Ansari, N.A.,Knutsson, S., Johansson, J., Emborg, M. and Pourbakhtiar, A., 2013, Proportioning of cement-based grout for sealing fractured rock-use of packing models, J. Engineering, V.5,10,765-774.
167. Al-Ansari, N.A., 2013, Management of Water Resources in Iraq: Perspectives and Prognoses, J. Engineering, V.5, 8, 667-684.
168. Lofill, E., Alkhaddar, R., Phillips, D., Andoh, R. and Al-Ansari, N.A., 2013, Aerated CoUFS-A pilot scale study into the impacts of changing variables on nitrification performance, J. Environmental Hydrology, V.21, paper 11.
169. Sissakian, V., Al-Ansari, N.A. and Knutsson, V., 2013, Sand and dust storm events in Iraq, Accepted, J. Natural Science, V 5, 10, 1084-1094.
170. Zakaria S., Al-Ansari N., and Knutsson S., 2013, Wheat Yield Scenarios for Rainwater Harvesting at Northern Sinjar Mountain, Iraq, J. Natural Science, V.5, 10,1057-1068.
171. Issa, E.I., Al-Ansari, N.A. and Knutsson, S., 2013, Sedimentation and new operational curves for Mosul Dam, Iraq, Hydrological Sciences Journal, V.58,7, 1-11.
172. Mohammed, M.H., Al-Ansari, N.A., Pusch, R., Knutsson, S., Johansson, J., 2013, Rheological Properties of Low pH Cement-Palygorskite Injection Grout, J. Advanced Science and Engineering Research, V.3,3, 176-192.
173. Issa, E.I., Al-Ansari, N.A., Sherwany, G. and Knutsson, S., 2013, Sedimentation Processes and Useful Life of Mosul Dam Reservoir, Iraq, J. Engineering, V.5,10, 779-784.
174. Al-Ansari, N.A., Issa, E.I., and Knutsson, S., 2013, Nature of the Distributed of the Bed Sediment within Mosul Dam Reservoir, Iraq, 2nd Engineering Scientific Conference, Mosul University, 19-20 November, 2013, Mosul, Iraq.
175. Issa, E.I., Al-Ansari, N.A., and Knutsson, S., 2013, Assessment of Sedimentation Characteristics and Capacity Curve for Mosul Dam Reservoir, Iraq, 2nd Engineering Scientific Conference, Mosul University, 19-20 November, 2013, Mosul, Iraq.
176. Al-Ansari, N.A., Zakaria, S., Mustafa, Y.T., Ahmad, P., Ghafour, B. and Knutsson, S., 2013, Development of Water Resources in Koya City, Iraq, 1st International Symposium on Urban Development of Koya, December 16-17, 2013, Koya University.
177. Zakaria S., Al-Ansari N., Y. Mustafa, M. Alshibli and Knutsson S., 2013, Macro Rain Water Harvesting Network to Estimate Annual Runoff at Koysinjak (Koya) district, Kurdistan region of Iraq, J. Engineering, V. 5, 12, 956-966.
178. Zakaria S., Y. Mustafa, Mohammed D.A., Ali S.S., Al-Ansari N.A., and Knutsson S., 2013, Estimation annual harvested runoff at Sulaymaniyah Governorate, Kurdistan region of Iraq, J. Natural Science, V.5,.12,1272-1283.
179. Qi, J., Al-Ansari, N.A. and Knutsson, S., 2013, Measurement of dust emission from a road construction using exposure-profiling method, J. Natural Science, V. 5, 12,1255-1263.
180. Al-Ansari, N.A., Ezz-Aldeen, M., Knutsson, S. and Zakaria, S., 2013, Water harvesting and reservoir optimization in selected areas of south Sinjar Mountain, Iraq, ASCE J. Hydrologic Engineering, V. 18, 12, 1607-1616.
181. Alansari, N.A., Ibrahiem, N., Alsaman, M. and Knutsson, S., 2013, Water Demand Management in Jordan, J. Engineering, V.6, No.1, 19-26.

182. **Al-Ansari, N.A., Knutsson, S., and Pusch, R., 2014.** Environmental implications of Depleted Uranium in IRAQ and principles of isolating it, Accepted in Waste Management 2014 conference, 12-14 May, 2014, Ancona, Italy.
183. **Al-Rawabdah, A., Al-Ansari, N.A., Attya, H. and Knutsson, S., 2014.** GIS Applications for Building 3D Campus, Utilities and Implementation Mapping Aspects for University Planning Purposes, J. Civil Eng. And Architecture, V. 8, No.1, 19-28.
184. **Al-Ansari, N.A., Abdellatif, M., Ali, S. and Knutsson, S., 2014.** Long Term Effect of Climate Change on Rainfall in Northwest Iraq, accepted Central European Journal of Engineering.
185. **Zakaria, S., Al-Ansari, N.A., Dawood, A.H. and Knutsson, S., 2014.** Future Prospects for Macro Rainwater Harvesting Technique at Northwest Iraq, J. Earth Sciences and Geotechnical Eng., V.4, No. 1, 1-16.
186. **Karim, K., Sissakian, V., Al-Ansari, N.A. and Knutsson, S., 2014.** Effect of the Sun Radiation on the Asymmetry of Valleys in Iraqi Zagros Mountain Belt (Kurdistan Region), Accepted J. Earth Sciences and Geotechnical Engineering.
187. **Bhanbhro, R., Al-Ansari, N.A. and Knutsson, S., 2014.** Frequent Breaches in Irrigation Canals in Sindh Pakistan, Accepted J. Water Resources and Protection.
188. **Sissakian, V., Al-Ansari, N.A. and Knutsson, 2014** Karstification Effect on the Stability of Mosul Dam and its Assessment, North Iraq, Accepted J. Engineering.
189. **Alansari, N.A., Ibrahiem, N., Alsaman, M. and Knutsson, S., 2014.** Water Supply Network Losses in Jordan, Journal of Water Resource and Protection, V. 6, No. 2, 83-96.
190. **Alanbari, M.A., Alansari, N.A., Altaee, S.A. and Knutsson, S., 2014.** Application of Simapro7 on Karbala Wastewater Treatment Plant, Iraq, accepted J. Earth Sciences and Geotechnical Eng.
191. **Alanbari, M.A., Alansari, N.A. and Jasim, H.K., 2014.** GIS and Multicriteria Decision Analysis for Landfill Site Selection in AL-Hashimiyah Qadaa, accepted J. Natural Science.
192. **Al-Ansari, N.A., Abdellatif, M., Ezeelden, M., Ali, S. and Knutsson, S., 2014.** Climate Change and Future Long Term Trends of Rainfall at North-eastern Part of Iraq, accepted J. Civil Engineering and Architecture.
193. **Ali, A., Al-Suhail, Q., Al-Ansari, N.A. and Knutsson, S., 2014** Evaluation of Dredging Operations for Tigris River within Baghdad, Iraq, Accepted J. Water Resources and Protection.

BOOKS

1. **Al-Ansari, N. A., and Al-Sinawi, S.A., 1973.** Glossary of earth science terms (English-Arabic), Geol. Soc. Iraq, Special Pub. No. 1 (1st ed.).
2. **Al-Sinawi, S. A., and Al-Ansari, N. A., 1973.** Glossary of earth science terms (English-Arabic), Geol. Soc. Iraq, Special Pub. No. 1 (2ed.).
3. **Al-Sinawi, S. A., Al-Rawi, Yehya, Al-Najdi, A., Swadi, M., and Al-Ansari, N. A., 1979.** Principles of Geology (Physical and Historical), College of Science Press, Baghdad, Iraq.
4. **Al-Ansari, N. A., 1979.** Principles of Hydrogeology, Coll. of Science Press, Baghdad, Iraq. (in Arabic).
5. **Al-Sayyab, A., Al-Ansari, N. A., Al-Rawi, D., Al-Jassim, J., Al-Omari, F., and Al-Shaikh, Z., 1982.** Geology of Iraq, Mosul Univ. Press, Iraq. (in Arabic), p. 280.
6. **Al-Ansari, N.A. and Al-Jayqousi, O., 1996.** Water Resources Management, Special course prepared for Islamic Network on Water Resources Development and Management for University level.

7. **Salameh, E., Al-Ansari, N.A. and El-Naga, A., 1997.** Scientific guide Book To The Mafraq Governorate, Al al-Bayt University Publ., 138p.
8. **Al-Ansari, N. A., Al-Jabbari, M.H., and Muhammed, K.I., 2001.** Water Science, Pub. Of Baghdad University, (in Arabic).
9. **Baban, S. and Al-Ansari, N.A., (eds.), 2001,** Living With Water Scarcity. Water resources in the Jordan Badia Region, The Way Forward, Al al-Bayt University publications, Jordan.
10. **AL-Ansari, N.A., 2005,** Applied surface Hydrology, Al al-Bayt University publication, (in Arabic).
11. **Al-Ansari, N.A.; et.al. (eds.), 2006,** Efficient Management of Wastewater, Its Treatment and Reuse in Four Mediterranean Countries, Published by EMWater Project, Funded by European Union.

SUPERVISED M. SC. AND Ph. D. THESES

1. **Assad, N. M., 1978.** Sediments and sediment discharge in the River Diyala, M. Sc. Thesis, University of Baghdad (in Arabic).
2. **Ali, S. H., 1980.** Sediments and sediment transport in the River Adhaim and its tributaries, M. Sc. Thesis, Dundee University, U. K., (joint supervision).
3. **Toma, A. Y., 1983.** Hydrological and morphological investigation of River Tigris at AL-Adhamiya, Baghdad, M. Sc. Thesis, University of Baghdad (in Arabic).
4. **Al-Sinawi, G. T., 1985,** Hydrochemistry and Hydrology of lower Diyala River, M. Sc. Thesis, University of Baghdad (in Arabic).
5. **Al-Khafaji, J. L., 1985,** Study of dissolved load in Tigris within Baghdad City, M. Sc. Thesis, University of Baghdad (in Arabic).
6. **Salman, H. H., 1987,** Geochemistry and Hydrology of Euphrates River, Iraq. Ph. D., Thesis, University of Baghdad (in Arabic).
7. **Hassan, I. O., 1988,** Hydrology of Tigris River at Mosul, M. Sc. Thesis, University of Baghdad (in Arabic).
8. **Al-Hamdani, A. B., 1988,** Hydrology of Greater Zab River, M. Sc. Thesis, University of Baghdad (in Arabic).
9. **Hussain, Y. A., 1989,** Water springs of Kubaisa-Samwa and their utilization, Ph. D., Thesis, University of Baghdad (in Arabic).
10. **Enad, S. H., 1989,** Probability of return of flood at the Euphrates River at Hit, M. Sc., Thesis, University of Baghdad (in Arabic).
11. **Al-Suhail, Q., 1990,** Probability of return period of flood and draught in River Khabour at Zakho (Iraq), M. Sc., Thesis, University of Baghdad (in Arabic).
12. **Habeeb, T., 1991,** Hydrology and geomorphology of River Diyala, Ph. D., Thesis, University of Baghdad (in Arabic).
13. **Al-Muslih, S. Z., 1992,** Hydrological study of Badush Dam site, M. Sc. Thesis, University of Baghdad (in Arabic).
14. **Al-Kubaisi, Q. Y., 1992,** Hydraulic analysis of groundwater aquifer in Badush Dam site, M. Sc. Thesis, University of Baghdad (in Arabic).
15. **Faarman, Y.N., 1993,** Hydrochemistry of Tigris River within Baghdad, M.Sc. Thesis University of Baghdad (in Arabic).
16. **Al-Shama, A. M., 1993,** Hydro geological and tectonics investigation of Kasrah Habbaryah area-western desert (Iraq), Ph.D. Thesis, University of Baghdad (in Arabic).
17. **Al-Hadithi, K.M., 1994,** Hydrological and Hydro geochemical analysis of Qadisiyah reservoir, Ph.D., Thesis, University of Baghdad (in Arabic).
18. **Iskandar, N. W., 1994,** Hydrological properties of Damman Formation Western Desert (Iraq), M.Sc., Thesis, University of Baghdad (in Arabic).
19. **Al-Shamari, H. M., 1994,** Hydro chemical investigations of Tharthar lake and its possible effect on the hydrochemistry of Euphrates River, M. Sc. Thesis, University of Baghdad (in Arabic).

20. **Ali, S.M., 1994**, Future prospects of groundwater utilization in Dibdiba Aquifer in Jezera - Kirbala - Najaf area, M. Sc. Thesis, University of Baghdad (in Arabic).
21. **Hussain, T.A., 1994**, Hydrological conditions in Wadi Ghadaf Western Desert, M.Sc., Thesis, University of Baghdad (in Arabic).
22. **Burhan aldin, O., 1995**. Stability of River Tigris between Sammarah and Baghdad using Remote sensing techniques, Ph.D. Thesis, University of Baghdad (in Arabic).
23. **AL-Suhail , Q. A. , 1996**, Evaluation of Groundwater exploitation for agricultural development of Bahar Al-Najaf area, Western desert, Ph.D. Thesis, University of Baghdad (in Arabic).
24. **Basho, D.Y., 1996**, Groundwater evaluation for the area between Ramadi and Km 160, M.Sc. Thesis, University of Baghdad (in Arabic).
25. **Taany, R.A., 1996**, Hydrological and hydro geological study of the Azraq basin, Jordan, Ph.D. Thesis, University of Baghdad.
26. **Malkawi, O.,1997**, Analysis of desertification in the Azraq basin using remote sensing techniques, M.Sc. Thesis, Al al-Bayt University (in Arabic).
27. **Al-Omari, H. 1998**, Analysis of long term rainfall records at Badia desert, Jordan, M.Sc. Thesis, Al al-Bayt University (in Arabic).
28. **Abid Safi, A.,1998**, Water resources of Sarhan basin using remote sensing techniques, M.Sc. Thesis, Al al-Bayt University (in Arabic).
29. **Shaghati,Imad, 1999**, Comparative study of Environmental Information using Remote sensing and Geographic Information System, M.Sc Thesis, Al al-Bayt University (in Arabic).
30. **Aldiab,S.I.,2000**,The Gap between Planning and Execution of Environmental Policies in Jordan: A case study of Jordan Valley, _M.Sc Thesis, Al al-Bayt University (in Arabic).
31. **Ibrahim, N.,2000**, Water Demand Management in Jordan: Rationalization of Consumption and Minimization of losses 1984-1998, M.Sc Thesis, Al al-Bayt University (in Arabic).
32. **Al Kudha,A., 2001**, Desertification Studies of Hamad Basin Region Using Remote Sensing and GIS Science and Technology, M.Sc Thesis, Al al-Bayt University (in Arabic).
33. **El-Radaideh,N.,2001**, Environmental, Hydrological and Geochemical Study of the Sediment in the Khalidya Dam and Wadi A-Zatari, Ph.D. thesis, joint supervision with University of Jordan.
34. **Al Rubai,A.,2002**, Hydrological study for some Water Harvesting Schemes in the Northern Badia with special emphasis on sediment, M.Sc Thesis, Al al-Bayt University (in Arabic).
35. **Beni Khalaf,R.,2002**, Hydrological and Hydro chemical study of Karama Dam, M.Sc Thesis, Al al-Bayt University (in Arabic).
36. **Al Hanbali, A.,2002**, Selection of Best Possible Solid Waste Disposal Sites Within Mafraq City Using Remote Sensing And GIS, M.Sc Thesis, Al al-Bayt University (in Arabic).
37. **Shatnawi, A.,2002**, Hydrological and Hydro chemical Investigation of Zeglab Dam, M.Sc Thesis, Al al-Bayt University (in Arabic).
38. **Harahsha,F.2002**, Wastewater Treatment using Industrial and Agricultural By-Products, M.Sc Thesis, Al al-Bayt University (in Arabic).
39. **Al-Hanbali,M.,2002**, Ancient and Modern Water Harvesting Schemes: A Comparative Approach Using Remote Sensing Techniques, M.Sc. Thesis, Al al-Bayt University (in Arabic).
40. **Al-Adhamat, R.N.,2002**,The use of Geographical Information Systems (GIS) and Remote Sensing to investigate groundwater quality in Azraq Basin/ Jordan, PhD Thesis, joint supervision with Coventry University, UK.
41. **Al-Dughamat,S.H., 2004**, The Environmental Management problems in Jordan and their solutions, M.Sc. Thesis, Al al-Bayt University, joint supervision with the Faculty of Economics and Administrative Sciences (in Arabic).

42. **Al-Meshan, O.M., 2005**, Location Criteria for Domestic and Hazardous Waste Disposal to Landfill in the Jordanian Badia using GIS, PhD Thesis, joint supervision with Coventry University, UK.
43. **Al-Khazalah, H.S., 2006**, Drinking water quality of some drinking water wells at N-E Jordanian Badia. M.Sc. Thesis, Al al-Bayt University, joint supervision with the faculty of Science. (in Arabic).
44. **Hadad, W.M. 2006**, Improving performance of Water Authority in Mafrag using Information Technology, M.Sc. Thesis, Al al-Bayt University, joint supervision with the faculty of Economics and Business Administration (in Arabic).
45. **Hamad, S.I., 2006**, Assessment of the Administrative Procedures for Optimizing Training Development Efficiency using Information Technology, M.Sc. Thesis, Al al-Bayt University, joint supervision with the faculty of Economics and Business Administration (in Arabic).
46. **Aldardor, W., 2007**, Effect of industrial liquid waste from Sael Alzarka on Sukhnah aquifer and its agricultural products. M.Sc. Thesis, Al al-Bayt University (in Arabic).
47. **Rawabdah, A, 2007**, GIS based approach to investigate the vulnerability of Amman – Zarqa groundwater basin to rare metals and nitrate contamination, M.Sc. Thesis, Al al-Bayt University (in Arabic).
48. **Alshawabka, M., 2007**, Evaluation of the hydrological conditions of Qinayah spring, Zarka, M.Sc. Thesis, Al al-Bayt University (in Arabic).
49. **Alatal, L., 2007**, Investigation of selected water harvesting schemes in northern Badia, M.Sc. Thesis, Al al-Bayt University (in Arabic).
50. **Alomosh, H., 2007**, Environmental Policies and regulations and its applications in Jordan, M.Sc. Thesis, Al al-Bayt University (in Arabic).
51. **Suwaity, M., 2007**, Groundwater artificial recharge of the basaltic plateau in north east Jordan using natural caves, M.Sc. Thesis, Al al-Bayt University (in Arabic).
52. **Saed, M., 2009**, The importance of environmental education in building environmental awareness of the individual and the protection of the environment, M.Sc. Thesis, Arab Academy-Denmark (in Arabic).
53. **Jia, Q., 2011**, Dust From Mining Area and Proposal of Dust Emission Factors, Licentiate thesis, Department of Civil, Environmental and Natural Resources Engineering, Lulea University of Technology, Sweden.
54. **Zakaria, S., 2011**, Rain Water Harvesting & Supplemental Irrigation at Sinjar District in Northwest Iraq, Licentiate thesis, Department of Civil, Environmental and Natural Resources Engineering, Lulea University of Technology, Sweden.
55. **Huang, Y., 2012**, Computational and Simulation Model for the Dust Transport around Malmberget Mining Area, Licentiate thesis, Department of Civil, Environmental and Natural Resources Engineering, Lulea University of Technology, Sweden.

ON GOING PhD STUDENTS RESEARCH PROJECTS

1. **Mohammed, E.M.**, Application of the Geographic Information System to estimate sediment load in Mosul dam reservoir, Iraq.
2. **Ali, Ammar**, Prediction of islands formation in Tigris River at Baghdad City during drought seasons.
3. **Jia, Qi**, Dust generation and spreading around mining area and proposal for dust emission factors, Sweden.
4. **Huang Yi**, Modelling of dust around mining area, Sweden.

5. **Essa, Elias Essa**, Siltation and sedimentation problem in Mosul reservoir dam, Iraq.
6. **Al-Tae. Entidhar**, Development of foundation methods for building in Iraq.
7. **Zakaria, S.**, Rainwater harvesting (RWH) in Mosul, Iraq.
8. **Al-Taie, Laith**, Diffusion characteristics through lime treated/untreated clay liner in expansive soil containing soluble salts.
9. **Chabuk, Ali**, Landfill site selection criteria at Babylon city.

REFERENCES

- **Professor John McManus**, Department of Geology, Prudie Building, University of St. Andrews, St. Andrews, Fife, Scotland, UK, KY16 9ST.(Tel 0044 1334 76161 ex 8302, Fax 0044 1334 74487),e-mail: jm@st-andrews.ac.uk or 8Marianfield Place, Cupar, Fife, KY15 5JN, Scotland (Res. Phone: 00441334 463948, 00447722119437).
- **Professor Des Walling**, Department of Geography, University of Exeter, Exeter, EX4 4RJ, UK. (Tel 0044 1392 236236, Fax 0044 1392 263342), e-mail: d.e.walling@exeter.ac.uk
- **Professor Ian Foster**, School of Science and Technology, Newton Building, The University of Northampton, Northampton NN2 JD5FB,UK,(Tel: Tel: +44 (0)1604893348),e-mail: ian.Foster@northampton.ac.uk
- **Professor Rafid Alkhaddar**, Director of Studies for Civil and Environmental Engineering, School of the Built Environment, The Peter Jost Centre, Byrom Street, Liverpool JM University, Liverpool, L3 3AF, UK, (Tel +44 (0)151-231 2809 Fax +44 (0)151-231 2815, mobile: 07968 422 368), e-mail: R.M.Alkhaddar@ljmu.ac.uk
- **Professor Elias Salameh**, College of Science, University of Jordan, Amman 11942 Jordan, (mobile 00962 795397766),e-mail: salameli@ju.edu.jo
- **Professor Serwan M.J.Baban**, Minister-Water Resources and Agriculture, Kurdistan Region, Erbil, Iraq, Tel. 00964(0)662238665, e-mail: sbaban2012@gmail.com