



# Curriculum Vitae



## PERSONAL INFORMATION

Reyad A. S. Al Dwairi

📍 Tafila Technical University (TTU), Department of Natural Resources (Mining and Geological Engineering).

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🗨 Reyad Al Dwairi

Sex Male | Date of birth 02 December 1969

Google Scholar citations =338 and h index =11

Scopus citations = 200 and h index = 9

## RESEARCH INTEREST

Major

- 1- Mineralogy and petrology
- 2- Mining Geology
- 3- Mineral Resources (Characterization, Exploration, Evaluation, Mining and Processing).

Minor

- 4- Natural Resources Mining and their environmental, agricultural and engineering applications.

## ADMINISTRATIVE EXPERIENCES

2022-Present Director  
Energy, mining, Water and Environment research Center (TTU).

2017 -2019 Vice Dean

Engineering Faculty, Tafila Technical University (TTU).

2011-2014 **Department Chair**

Department of Natural Resources (Mining and Geological Engineering), Engineering Faculty, Tafila Technical University.

## WORK EXPERIENCE

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2022-Present **Director**

Energy, mining, Water and Environment research Center (TTU).

2018 – Present **Full Professor**

Department of Natural Resources (Mining and Geological Engineering), Engineering Faculty, Tafila Technical University (TTU).

2017- 2019 **Vies Dean**

Engineering Faculty, Tafila Technical University (TTU).

2013-2018 **Associate Professor**

Department of Natural Resources (Mining and Geological Engineering), Engineering Faculty, Tafila Technical University (TTU).

2015-2016 **Associate Professor**

Department of Mining and Minerals - Engineering Faculty – Al Huosen Bin Tala University.

2012-2014 **Post-doctoral Fellow**

Department of Petrology, Geochemistry and Geological Prospecting, Faculty of Geology, The University of Barcelona (BU), (Spain).

2011- 2014 **Department Chair**

Department of Natural Resources (Mining and Geological Engineering), Engineering Faculty, Tafila Technical University (TTU).

2008-2013 **Assistant Professor**

Department of Natural Resources (Mining and Geological Engineering), Engineering Faculty, Tafila Technical University (TTU).

1995-1996 **Research Assistant**

Department of Earth & Environmental Sciences (Yarmouk University) and the Higher Council for Science and Technology.

1993-1995 **Teaching and research assistance**  
Department of Earth & Environmental Sciences (Yarmouk University).

## EDUCATION AND TRAINING

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2012-2014 **Post-Doctoral Position**  
Department of Petrology, Geochemistry and Geological Prospecting, Faculty of Geology, The University of Barcelona (BU), (Spain).

2003-2007 **Ph.D. in Applied Geology**  
Department of Applied Geology and Minerals, The University of Jordan, “Characterizations of Jordanian Zeolitic Tuff and its Potential Use in Wastewater Treatment in Khirbet es Samra” with an average of (3.65) (Excellent).

1992-1995 **M.Sc. in Applied Geology**  
Department of Earth and Environmental Sciences, Yarmouk University, “Evaluation of Jordanian Ordovician Glass Sand as Filter Media for Domestic and Industrial Wastewater Treatment.” with an average of (81) (Very Good).

1988-1992 **Bachelor of Science (B.Sc.) in Geology**  
Department of Earth & Environmental Sciences, Yarmouk University. Earth and Environmental Sciences with an average of (71.6) (Good).

1987-1988 **High school**  
Al-Hosen secondary school, Science branch with an average of (83.4) (Very Good).

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## PERSONAL SKILLS

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Mother tongue(s) Arabic

Other language(s)	UNDERSTANDING	SPEAKING	WRITING
English	Excellent	Excellent	Excellent
Russian	Fair	Fair	Fair

**Skills** Through my work in different educational institutions, I am being able to take responsibility, lead and mentor others in a team work.

I have worked in various types of teams from research teams to administrative teams, This give me the ability to work under pressure involves dealing with students, faculty members and the university staff.

**Computer skills** Advanced computer courses ( Windows, Exel, Word, Power piont) 2003.  
 - ICDL certificate ( Kampredj Diploma) 2008.  
 - Adobe photoshop  
 - SPSS

### Awards and Scholarships

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- 2018 KA1**  
 Scholarship from the European Union (Erasmus+KA1 Project 2017-1-UK01-KA107-036258). Staff mobility for training in Staffordshire University (28/10-4/11/2018).
- 2013 JOYSLEM**  
 Scholarship from the European Union (JOYSLEM) May-December. A post-doc position in Warsaw University (Blonde).
- 2012 Jordanian Engineering Association**  
 Jordanian Engineering Association awards for graduation projects, the first rank in the Geological Engineering branch.
- 2012 ERASMUS MUNDUS AVEMPAS**  
 Scholarship from the European Union (ERASMUS MUNDUS AVEMPAS) May-December. A post-doc position in Barcelona University, Department of Geochemistry, Petrology and Geological Prospecting, Faculty of Geology (Spain).
- 2011 Deutsche Forschungsgemeinschaft (DFG),**  
 Research fellow-Deutsche Forschungsgemeinschaft (DFG), Scholarship to carry out research in the chair “Biotechnology of water treatment”, Environmental Science and Engineering Faculty, Prof. M. Martiensen, Brandenburg Technical University - Cottbus, Germany. (June 2011- September 2011).
- 1987-1988 University of Jordan**  
 PhD. - Scholarship through the University of Jordan, Amman, Jordan. (October. 2003 – May. 2007).
- 1993 – 1995 Yarmouk University**  
 M.Sc. - Scholarship through Yarmouk University. Irbid, Jordan.
- 1988 – 1992 Jordanian government**  
 B.Sc. Scholarship from the Jordanian government.

## Workshops, Events and Courses Attended

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- 2021 **Jordan**  
Workshop on Dana Copper (Evaluation, Extraction and Uses)  
Jordanian Engineering Association with TTU. 1/9/2021
- 2018 **Jordan**  
Workshop on Geostatistical analysis and Ore Reserve Calculations,  
Tafila Technical University and Jordanian Engineering  
Association/Al Hesa Branch. 18/12/2018
- 2018 **Jordan**  
Workshop on Water Resources and Ecosystems, Tafila Technical  
University and GIZ, oral presentation entitled: conservation of  
Irrigation Water in Agriculture Using Natural Material. TTU  
5/4/2018
- 2016 **Jordan**  
National Brokerage Event, Transferring Innovation Science into  
Business. (SRTDII). 23 Nov. 2016 oral presentation entitled: Using  
Zeolitic Tuff as Mulch for Conserving Water. The Higher Council  
for Science and Technology HCST and European Commission.  
Amman
- 2015 **KSA**  
Workshop and academic visit on Mineral characterization using  
XRD, SEM, XRF and ATM (25/2 - 5/3/2015). King Abdulaziz City  
for Science and Technology (KACST).
2012. **Spain**  
Workshop on Geochemical Data Analysis, Barcelona, Spain, 16-18  
July
2011. **Jordan**  
Workshop on Geopolymers from Jordanian Raw Materials, The  
University of Jordan in corporation with Vrije University,
- 2011 **Jordan**  
Workshop on Tempus, FP7 funding, European Union and Higher  
Council for Science and Technology (The University of Jordan)  
2011.
- 2010 **Jordan**  
Workshop in the Small production Projects, 2010

## Training Courses

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- 2021 Control over precious metals, local community, TTU
- 2017 Ore Reserve Calculation and Economic potential of the Ore. (2017), Jordan, Jordanian Engineering Association.
- 2015 Rocks Characterization (Petrology, Geochemistry and Mineralogy) (2015), KSA, King Abdulaziz City for Science and Technology (KACST). 21h.

## Conferences Attended

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### International Conferences

- 2023 **Algeria**  
*Reyad Al Dwairi* and Ashref Alsafasfeh Mineralogy and Geochemistry of Volcanic Tuff from Tall Juhira , South of Jordan, The 4 th International Seminar on Mineral Industry and Environment 4SIMINE'23, Annaba, Algeria, November, 7 – 9.
- 2021 **Turkey**  
*Reyad A. Al Dwairi*, Conservation of Soil Moisture Using Local Zeolitic Tuff Ores from South Jordan, The 18th International Conference on Water Resources and Environment, Euro-Arab Organization for Environment, Water and Desert Researches.28/10-1/11/2021, Antalya, Turkey
- 2017 **USA**  
*Reyad A. Al Dwairi*, Petrology, Mineralogy and Geochemistry of Central Jordan Volcanic Tuff, World Congress on Geochemistry, November 16-17, 2017 Atlanta, Georgia, USA
- 2016 **China**  
*Reyad A. Al Dwairi*, Program Committee Member in the 5th International Conference on Civil Engineering and Urban Planning (CEUP2016) Civil Engineering and Urban Planning. Xi'an, China, 23 – 26 August 2016.
- 2012 **UAE**  
*Reyad A. Al Dwairi*, The POTENTIAL USE OF SELECTED ZEOLITIC TUFF IN WASTEWTERE TRATMENT PLANTS, Desalination and Treatment of Water in Arab Region Conference, 12-14 March 2012 (Oral presentation). Al Sharija, UAE.
- 2011 **Germany**  
*Reyad A. Al Dwairi and Y. Taamneh*, Prediction of adsorption breakthrough curves of nickel on Jordanian zeolites, 8th European

Congress of Chemical Engineering, 25 – 29 Sep. 2011, (Poster), ICC Berlin, Germany.

2010 Egypt

*Reyad A. Al Dwairi*; Occurrence, Properties, and Utilization of Jordanian Natural Zeolites, The Second Conference of Mining Economics, 23-25 Feb. 2010, (Oral presentation).Cairo, Egypt.

2009 China

*Reyad A. Al Dwairi*; The Phillipsite Zeolites from Jabal Al Ataita, Southern Jordan: A Potential Use in Wastewater Treatment, The First World Young Earth Scientists Congress, 24-28 Oct. 2009, (Oral presentation).Beijing, China

### Local Conferences

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2022 Jordan

*Reyad Ali Al Dwairi*; Petrology, Mineralogy and Geochemistry of Central Jordan Volcanic Tuff, The 9th Jordanian International Mining Conference ,Dead See, Jordan Feb. 2022

2018 Jordan

*Reyad Ali Al Dwairi*; Characterization of Jordanian Zeolitic Tuff and its Potential Use as Water Conservation Material, The Eighth Scientific Agricultural Conference ESAC-2018, Karak, Jordan October 15 -17, 2018.

2017 Jordan

*Reyad Ali Al Dwairi and Osam Taweq*, The Capability of Jordanian Natural Zeolite for the Removal of Radioactive Elements, The first international conference on Mechanical Engineering Sciences an Applications, 8-10 October 2017, Tafila, Jordan. (Oral presentation).

2013 Jordan

*Khoury H., Ibrahim K. and Al Dwairi R.*: Mineralogy of New Occurrences of Zeolites in the Neogene - Quaternary Volcanic Tuffs in Jordan, Mineralogy and Petrology. 6th Conference on Scientific Research in Jordan 23 November, 2013. (Oral presentation).

2009 Jordan

*Reyad A. Al Dwairi, Hani N. Khoury, and Khalil M. Ibrahim*: Potential use of Faujasite and Phillipsite Tuff in Wastewater Treatment Plants, THE 5th JORDANIAN CONFERENCE ON ENVIRONMENT, may 13-14, 2009. (Oral presentation).

2009 Jordan

*Reyad A. Al Dwairi, Sura Al Harahesheh*: Using of Agricultural Crushed By-Products in Removing Pollutants from Wastewater, 5th JORDANIAN CONFERENCE ON ENVIRONMENT, may 13-14, 2009. , Amman-Jordan. (Oral presentation).

- 2009 **Jordan**  
THE FIRST CONVERENC ON ENVIRONMENT. *April -13-*
- 2009 **Jordan**  
*Reyad A. Al Dwairi, Hani N. Khoury, and Khalil M. Ibrahim: The mineralogy and Authigenesis of Zeolitic Tuff from Tall-Juhira and Tall Amir, South Jordan. THE INTERNATIONAL CONFERENCE ON MATERIALS IN JORDAN, March 4-6, (Oral presentation).*
- 2008 **Jordan**  
10TH ARAB CONFERENCE FOR MINERAL RESOURCES, *November 23-26,*
- 2007 **Jordan**  
*Reyad A. Al Dwairi, Hani N. Khoury, and Khalil M. Ibrahim: Characterization of the Jordanian zeolitic tuff and its potential use in Khirbet Es Samra Wastewater Treatment Plant, FOURTH JORDANIAN CONFERENCE ON ENVIRONMENT, November 26-27,. (Oral presentation).*
- 2007 **Jordan**  
*Reyad A. Al Dwairi, Hani N. Khoury, and Khalil M. Ibrahim: Characterization of the Jordanian zeolitic tuff and its potential use in Khirbet Es Samra Wastewater Treatment Plant, THE FIFTH JORDANIAN INTERNATIONAL MINING CONFERENCE, September 3-6,. (Oral presentation).*
- 2007 **Jordan**  
THE NINTH INTERNATIONAL CONFERENCE OF JORDANIAN GEOLOGISTS ASSOCIATION, *April 2-5,.*

#### Conferences Committees

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- 2017 **USA**  
Member of the organizing committee of World Congress on Geochemistry, November 16-17, Atlanta, Georgia, USA
- 2016 **China**  
Member of the Program Committee of the 3rd International Conference on Civil Engineering and Urban Planning (CEUP 2014), to be held in Wuhan, China, **June 20-22, 2014.**
- 2013 **Jordan**  
Member of the organizing committee of THE 11<sup>TH</sup> INTERNATIONAL CONFERENCE OF JORDANIAN GEOLOGISTS ASSOCIATION, **November, 2013**



- 2013 **Jordan**  
Head of the scientific committee of The First Conference of Tafila Geology and Environment *April, 2013*.
- 2011 **Jordan**  
Member of the organizing committee of THE 10<sup>TH</sup> INTERNATIONAL CONFERENCE OF JORDANIAN GEOLOGISTS ASSOCIATION, *3-5 April, 2011*.
- 2011 **Jordan**  
Member of the scientific committee of THE 10<sup>TH</sup> INTERNATIONAL CONFERENCE OF JORDANIAN GEOLOGISTS ASSOCIATION, *3-5 April, 2011*
- 2010 **Jordan**  
Member of the organizing committee of the 4th CONFERENCE OF THE JORDAN SOCIETY FOR EXPANDING AND DEVELOPING THE NATURAL RESOURCES, *August 13-15*
- 2010 **Jordan**  
Member of the scientific committee of the 4th CONFERENCE OF THE JORDAN SOCIETY FOR EXPANDING AND DEVELOPING THE NATURAL RESOURCES, *August 13-15*
- 2009 **Jordan**  
Member of the organizing committee of the 5th JORDANIAN CONFERENCE ON ENVIRONMENT, *13-14/5/2009*.
- 2009 **Jordan**  
Member of the scientific committee of the 5th JORDANIAN CONFERENCE ON ENVIRONMENT, *13-14/5/2009*.

#### Academic Activities

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##### Academic and Administrative Committees

- Head of the Engineering Faculty Student problems 2017, 2018.2019.
- Member of accreditation committee belong Ministry of higher education and scientific Research (2017)
- Member of the Engineering Faculty Student problems 2016 Committee 2013-2014, TTU
- Head of the Geological Engineering plan Committee, NRCE department, TTU, 2010-2011, 2011-2012, and 2012-2013.

- Member of the Geological Engineering plan Committee, NRCE department, TTU, 2008-2009.
- Member of the Industrial Connection Committee, Engineering Faculty, Tafila Technical University, 2008-2009.
- Member of the Computer Committee, Engineering Faculty, Tafila Technical University, 2008-2009.
- Representative of NRCE department at Engineering Faculty, TTU, 2008-2009.
- Representative of Jordan Society for Expanding and Developing the Natural resources in TTU, 2008-2009.

#### Thesis Examination Committee

Sultan Aldwan, 2020. Jordan (MSc. Thesis). The Hashemite University, Zarqa, Jordan.

Ayah Suliman, 2019. Characterization and Industrial Evaluation of Triassic Clay Minerals from Suwyma Area, Jordan (MSc. Thesis). The Hashemite University, Zarqa, Jordan.

Maisa, 2014. Evaluation and characterization of Al Azraq Gypsum for Industrial Application (MSc. Thesis). The Hashemite University, Zarqa, Jordan.

#### Gradation Projects

Supervising more than 20 Geological and Mining Engineering graduation project groups. One group won the first prize in the annual engineering project award for the Jordan Universities held by the Jordan Engineer Association (In the year 2103).

#### Funded Projects

“Characterization of Pozzolana from Tafila Area and its Potential use as Agricultural Material for Plant Growth.”, funded by Industrial Development Bank, Faculty-For-Factory (FFF) Program, Amman. Jordan, 2013.

#### Taught Courses

##### **Geological Engineering plan: (Bachelors)**

- Mineral Resources Assessment: Exploration & Evaluation
- Industrial Minerals
- Mineralogy and Petrology
- Mineralogy & Petrology Lab.

- Clay Minerals Technology
- General Geology.
- General Geology Lab.
- Geostatistics
- Economic Geology
- Geological Engineering Graduation Project.

**Mining Engineering Plan:( Bachelors)**

- Metal Extraction
- Mining Geology
- Mineralogy and Petrology
- Mineral Resources Assessment
- General Geology.
- General Geology Lab.

**Mining and Chemical Industries Plan: (Master)**

- Industrial Minerals and Rocks Technology
- Economic Evaluation of Mineral Processing Plants

## Publications

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- 2023 *Omar Al-Hattamleh, Abdulla Sharo, Laith Abu Shanab, Hussein Aldeeky, and **Reyad Al Dwairi**: Effect of the quasi rate of loading in Particle Crushing and Engineering Properties of Black Tough Sand, Acta Montanistica Slovaca, Volume 28, Pages 2*
- 2021 *Eman A Al-Abbad, **Reyad A Al Dwairi**: Removal of nickel (II) ions from water by Jordan natural zeolite as sorbent material, Journal of Saudi Chemical Society, Volume 25, Issue 5, May 2021, 101233.*
- 2020 ***Reyad Al Dwairi**, Suhail Sharadqah, Mazen Amaireh, Hani Nawafleh, Omar Khashman, Aiman E. Al-Rawajfeh, Soraya M. Perez: Geotechnical Evaluation of South Jordan Basaltic Rocks for Engineering Uses, Jordan Journal for Earth and Environmental sciences, JJEES (2020) 11 (4): 253-259*
- 2019 ***Reyad Al Dwairi**: Mineralogical and Geochemical Characterization of Jordanian Olivine and its Ability to Capture CO<sub>2</sub> by Mineralization Process, Indonesian Journal on Geoscience, Volume 6, Issue 2, pp 75-183.*

- 2019 **Reyad A. Al Dwairi**, Waid Omar, Ziad Abu-Hamatteh, and Nader Jabarin : Investigation of natural Jordanian zeolite tuff (JZT) as adsorbent for TOC removal from industrial wastewater in a continuous fixed bed column: study of the influence of particle size, *Desalination and Water Treatment* , 152 (2019) 26–32 June
- 2018 Saleh A. Ababneh , Hossam Etawia, Aiman Eid Al-Rawajfeha, Alaa Al-Ma'abrehb, Mazen N. Al-Amaireha, Soha Al-Hawamdeh, **Reyad A. Al Dwairi** : Efficiency and Mechanism of Water Defluoridation by Mixtures of Jordanian Zeolite, Pozzolana, Feldspar, and Tripoli, *Desalination and Water Treatment*, **ISI (IF 0.4)**.
- 2018 **Reyad Al Dwairi**, Betty Saqarat, Fathi Shaqour and Mohamed Sariereh: Characterization of Jordanian Volcanic Tuff and its Potential Use as Lightweight Aggregate, *Jordan Journal for Earth and Environmental Sciences*, Volume 9, Issue 2, 2018
- 2017 Saleh A. Ababneh Aiman Eid Al-Rawajfeh, Alaa Al-Ma'abreh , Rana N. Alfwaer , Soha Al-Hawamdeh, **Reyad A. Al Dwairi**, Hossam Etawi: Water Defluoridation by Mixtures of Jordanian Zeolite, Pozzolana, Feldspar, and Tripoli: Efficiency and Mechanism, *Interciencia*, Volume 42, Issue 7, (2017) Pp. 2-2.(IF 0.4)
- 2017 **Reyad Al Dwairi**: Modeling of chromium (VI) adsorption from aqueous solutions using Jordanian Zeolitic Tuff, *Water Science and Technology*, issue 75-9,(May 2017). (IF 1.04). **ISI (IF 0.0)**.
- 2016 Jamal Abuqubu, **Reyad A Al Dwairi**, Nafeth A Hadi, B Merkel, V Dunger, Hamza A Laila: Geological and Engineering Properties of Granite Rocks from Aqaba Area, South Jordan, *Journal of Geomaterials*, Vo. 6 No. 1, (2016) Pp. 18.
- 2015 Hani M. Alnawafleh, Khalid E. Tarawneh, Hani N. Khoury, Nafeth A. Abdelhadi, Osama Y. Shakkoury, **Reyad A. Dwairi** and Mazen N. Amaireh: Dolomitization in Campanian Oil Shale Rocks from South-Western Jordan. *Open Journal of Geology* Vol.5 No.10, October (2015) PP. 689-700.
- 2015 **Al Dwairi R.**, Omar W., and Al\_Harahsheh S.: Kinetic modelling for heavy metal adsorption using Jordanian low cost natural zeolite (fixed

- bed column study), *Journal of Water Reuse and Desalination*.5 (2), (2015) pp 231-238. **ISI (IF 0.28)**.
- 2015 *Khoury H., Ibrahim K., Al Dwairi R. And D. Torrente: Wide Spread Zeolitization of the Neogene - Quaternary Volcanic Tuff in Jordan, Journal of African Earth Sciences, Vo. 101, (2015) pp 420–429. ISI (IF 00)*.
- 2014 *Al Dwairi R., and Sharadqah S.: Mineralogy, Geochemistry and Volcanology of Volcanic Tuff Rocks from Jabal Hulait Al\_Gran, South of Jordan (New Occurrence), Jordan Journal of Civil Engineering, Volume 8, No.2, (2014) pp187-198*
- 2014 *Al Dwairi R., Khoury H., and Ibrahim K.: Potential use of faujasite–phillipsite and phillipsite–chabazite tuff in purification of treated effluent from domestic wastewater treatment plants, Environmental Earth Sciences, Volume 71, Issue 12, (2014) pp5071-5078. ISI (IF 0.0)*.
- 2013 *Taamneh Y., Al Dwairi R.: The Efficiency of Jordanian Natural Zeolite for Heavy Metals Removal, Applied Water Science, Volume 3, Number 1, (2013).1-8. ISI (IF 0.0)*.
- 2012 *Al Dwairi, R., and Al-Rawajfeh, A. E.: Recent Patents of Natural Zeolites Applications in Environment, Agriculture and Pharmaceutical Industry, Recent Patents on Chemical Engineering, 5 (2012) 20-27. ISI (IF 0.0)*.
- 2012 *Al Dwairi, R., Al-Rawajfeh, A. E.: Removal of Cobalt and Nickel from Wastewater by Using Jordan Low-cost Zeolite and Bentonite, Journal of the University of Chemical Technology & Metallurgy, 47 (2012) 69-76*
- 2011 *Al-Rawajfeh, A. E., Al-Whoosh, K.; Al Dwairi, R., Al-Maaberah, A., Tarawneh, A.: Pre-treatment of Desalination Feed Seawater by Jordanian Tripoli, Pozzolana, and Feldspar: Batch Experiments, Chemical Industry & Chemical Engineering Quarterly, 17 (2011) 163-171.*
- 2011 *Al-Rousan T., Al Hattamleh O., and Al Dwairi R.: Effect of Inherent Anisotropy on Shear Strength Following Crushing of Natural Aqaba Subgrade Sand, Jordan Journal of Civil Engineering, Volume 5, No.3 (2011). Pp. 431-445*
- 2010 *Sharadqah S., Al Dwairi R.: Control of Odorants Emissions from Poultry Manure Using Jordanian Natural Zeolites, Jordan Journal of Civil Engineering, volum4- number 4 (2010). Pp. 378-388.*

- 2010 **Al Dwairi R., Gougazeh M.:**  $Mn^{+2}$  and  $Cd^{+2}$  removal from industrial wastewater using phillipsitic tuff from Jabal Uniza, southern Jordan, *Jordan Journal of Civil Engineering*, volum4- number 1, 2010. Pp. 22-30.
- 2009 **Al Dwairi R., Hattamleh O., Al-Shalab F., Al-Rousan T.:** Effect of Grain Crushing and Bedding Plane Inclination on Ras en-Naqab Natural Sand Behavior, *Electronic Journal of Geotechnical Engineering*, volume (14) (2009), L Ppr0996.
- 2009 **Al Dwairi R., Houry H., and Ibrahim K.:** Mineralogy and Authigenesis of Zeolitic Tuff from Tall-Juhira and Tall Amir, South Jordan, *Jordan Journal of Earth and Environmental Sciences*, Volume 2, Number 2, December. 2009. Pp. 81- 88
- 2009 **Al Dwairi R.:** The use of Expendable Local Zeolite Deposits for  $NH_4$  Removal in Municipal Wastewater, *Jordan Journal of Civil Engineering*, volum3- number 3, 2009 , Pp.256- 264.

#### Published Books

- 2010 **Reyad Al Dwairi, Hani Houry and Khalil Ibrahim** (2010): Occurrences and Properties of Jordanian Zeolites and Zeolitic Tuff, VDM, Germany, pp 164.