

ملخص السيرة الذاتية

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	<p>الاسم: عمر عبد الكريم أحمد الريماوي</p> <p>المهنة: أستاذ في الجامعة الأردنية</p> <p>التخصص: هيدروجيولوجيا ونظائر مائية – كيميائية ونوعية المياه</p> <p>مكان وتاريخ الولادة: طولكرم 1956/10/2</p> <p>الجنسية: الأردنية</p> <p>اللغات: الإنجليزية والألمانية (إجادة في القراءة والمحادثة والكتابة)</p>
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العنوان الحالي:

الجامعة الأردنية – كلية العلوم
قسم الجيولوجيا التطبيقية والبيئية
عمان – الأردن
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المواقع الإدارية:

- مستشار جامعة العلوم الإسلامية العالمية منذ 2010/9/21 – 20/9/2011
- رئيس جامعة البلقاء التطبيقية 2004/12/4 وحتى 2010/9/20
- مستشار صاحب السمو الملكي الأمير غازي بن محمد حفظه الله ورعاه لشؤون جامعة العلوم الإسلامية العالمية مؤسدة 2008/8/2 وحتى 2009/12/31
- الرئيس المؤسس لجامعة العلوم الإسلامية العالمية 2008/4/16 وحتى 2008/8/2
- عميد كلية العلوم في الجامعة الأردنية 2002/12/26 وحتى 2004/12/4
- رئيس قسم الجيولوجيا التطبيقية والبيئية أيلول 1999 وحتى 2002/12/25
- مساعد مدير مركز البحوث والدراسات المائية-الجامعة الأردنية 1987 وحتى 1992

الدراسة:

- 1-الدكتوراه (1985): دكتوراه في العلوم الطبيعية (*Dr. rer. nat.*) تخصص هيدروجيولوجيا وهيدوكيمياء (1985-1982) من جامعة ميونخ التكنولوجية – ميونخ – ألمانيا.
- 2-الماجستير (1980): ماجستير في العلوم – جيولوجيا ومعادن وبتخصص النظائر المائية من الجامعة الأردنية. عمان – الأردن. (1980-1978).
- 3-البكالوريوس (1978): بكالوريوس في الجيولوجيا والمعادن من الجامعة الأردنية (1974-1978).

الخبرات:

1-الخبرة العملية:

- ☒ أستاذ في قسم الجيولوجيا 1998/11/4 – الآن
 - ☒ أستاذ مشارك – قسم الجيولوجيا. 1992/11/2 – 1998/11/3
 - ☒ أستاذ مساعد – قسم الجيولوجيا والمعادن – كلية العلوم – 1986/11/2 – 1992/11/1 وفي نفس الفترة مساعد مدير مركز البحوث والدراسات المائية – الجامعة الأردنية.
 - ☒ باحث في مركز البحوث والدراسات المائية (1985-1986) الجامعة الأردنية – عمان – الأردن.
 - ☒ باحث مساعد في معهد الهيدروجيولوجيا والهيدروكيمياء / الأستاذ الدكتور بيتر أود لوفت، (1982 – 1985) جامعة ميونخ التكنولوجية.
 - ☒ هيد وجيولوجي نظائر (1980 – 1981) في سلطة المصادر الطبيعية – مديرية الدراسات المائية – عمان – الأردن.
- 2-وفي أثناء العمل في الجامعة الأردنية فقد مثلت الجامعة في العديد من اللجان الفنية في موضوعات المياه كما ونوعاً، البيئة، الجيولوجيا الهندسية والتطبيقية ومن أهم هذه اللجان:
- 1-عضو اللجنة الوطنية للسدود – وزارة المياه والري.
 - 2-عضو ورئيس اللجنة الوطنية العليا لنوعية المياه – وزارة المياه والري.
 - 3-عضو لجان المواصفات والمقاييس الخاصة (مؤسسة المواصفات والمقاييس).
 - مياه الشرب.
 - مياه المعدنية.
 - مياه العادمة.
 - بالمياه المعالجة للشرب.
 - 4-عضو اللجنة الوطنية لاستراتيجية البيئة الخاصة بقطاع المياه السطحية والجوفية (وزارة الشؤون البلدية والقروية والبيئية).
 - 5-اللجنة الوطنية لتقييم سد الكرامة (وزارة التخطيط).
 - 6-اللجنة الوطنية للانزلاقات الأرضية (وزارة الأشغال العامة والإسكان).
- 3-أثناء عملي رئيساً لجامعة البلقاء التطبيقية فقد كنت رئيساً لمجلس عمداء الجامعة واللجنة التعيين والترقية ولجنة البعثات وكافة المجالس واللجان في الجامعة. وقد مثلت الجامعة في مجلس التعليم العالي واللجنة الأكاديمية واللجنة الإدارية وما نجم عنها من لجان في مجلس التعليم العالي. كما أنني مثلت الجامعة في مجلس أمناء الجامعة طيلة ست سنوات. هذا بالإضافة إلى عضوية لجنة صندوق التشغيل والتدريب المهني والتقني في وزارة العمل.
- 4-رئيس لجنة دراسة المواد المشعة في مياه حوض الديسي ومراجعة المواصفة الأردنية لمياه الشرب والمشكلة من رئاسة الوزراء وبتوصية من وزارة المياه والري 2008
 - 5-رئيس اللجنة الوطنية لنوعية مياه الشرب في وزارة المياه والري والمشكلة بقرار من رئاسة الوزراء 2005 وحتى 2009.
 - 6-مستشار علمي وباحث للمشاريع البحثية العلمية المدعومة من المؤسسات الألمانية والإتحاد الأوروبي وتيمبوس والمساعدات الأمريكية وغيرها.
 - 7-مستشار لوزارة المياه والري/ سلطة وادي الأردن-مديرية السدود لمشروع نمذجة المياه الجوفية لمنطقة وادي عربة 2018



CURICULUM VITAE
PROF. DR. OMAR ABDEL-KARIM RIMAWI

NAME: OMAR ABDEL-KARIM AHMAD RIMAWI
PROFESSION: PROF OF HYDROGEOLOGY & HYDROCHEMISTRY
DATE AND PLACE OF BIRTH: 20.10.1956; TULKARM
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ADDRESS: THE UNIVERSITY OF JORDAN,
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Key Qualifications:

Professor Rimawi has a wide range of Academic and Administration Experience In Higher Education and Scientific Research in Jordan. He worked for 4-years as a Chairman of Applied and Environmental Geology Department .In addition, for 2-years as a Dean for Faculty of Science at the University of Jordan. In addition, He worked for 6-years as a President of Al-Balqa' Applied University and during this period He was appointed as the first President of the newly formed The World Islamic Sciences and Education University (WISE) for 6-months and He continued as a Consultant for The Royal Aal al-Bayt Institute for Islamic Thought. During 2010-2011, Professor Rimawi is on a Sabbatical Leave from the University of Jordan and working as a Consultant for The World Islamic Sciences and Education University (WISE). In addition, during the year 2011-2012, He is on a Sabbatical Leave (Private Sector).

After that Professor Rimawi re-joined the University of Jordan as an Academic Staff and during this period he taught Graduate Program Students (Ph.D. and M.Sc. students many courses dealing with Hydrogeochemistry, Hydrogeology, Environmental Geology, Sub-Surface Geology, Hydrological Modelling and Environmental Impact Assessment). In addition, he supervised more than 15 Ph.D. and Master Students in different disciplines

at Department of Applied and Environmental Geology and 4 students in Sustainability Management at Prince Hussein School at the University of Jordan. For the time being Professor Rimawi is supervising 6 Ph.D. and Master Students.

Dr. Omar Rimawi is an experienced Hydrologist/ Hydrogeologist and Hydrochemist. Mr. Rimawi has been worked out on internationally sponsored Projects as a researcher and/or consultant (during the last 4years). These Projects are:

- Integrated water resources management in the lower Jordan Valley (SMART), Joint project (2006-2009). Multilateral (German-Israel-Jordan-Palestine). Funded from BMBF, Germany.
- New geophysical approach for prediction of sinkhole hazards related to the drop of the Dead Sea level and human activity (Sinkhole Hazards)/ 2004-2007. Multilateral (Jordan-Israel-France). Funded from NATO.
- Integrated Water Resources Management of Mediterranean Phosphate Mining and Local Agricultural Systems. FP6 INCO-MPC European Commission
- The salinity curse of the Middle East fossil groundwater: The Radioactivity factor. Project Number: M25-060 and Award Number: TA-MOU-05-M25-060
- Dr Rimawi has a history of working with private consulting firms. The followings are representative projects he participated in their execution:
- Groundwater Modelling of the Groundwater Resources of Ghor Es-Safi, Mazra' and Haditha. Project Sponsored by the Arab Potash Company, Jordan, 2001/2002
- The hydrology and hydrogeology of the proposed dam on Wadi Ibn Hammad (Consolidation Consultants - Amman)
- Water quality and hydrochemistry of Wadi Araba water resources as a part of Wadi Araba Water Resources Project (Consolidation Consultants - Amman)
- Geological investigation of the proposed dams in Wadi Araba (Rahma Dam, Abu Burqa Dam and Wadi Musa Dam) (Consolidation Consultants - Amman)
- Reviewer of the Industrial Pollution in the Jordan Valley Report as committed by the Ministry of Planning
- Zarqa River Conveyance project (Harza, USAID)
- Middle East Regional Water Resources-Supply and Demand Study

(GTZ and Jordanian Consulting Engineers)

- Solute Transport Modeling of the Azraq Groundwater Resources (Jordanian Consulting Engineers)
- UN-Claim: Monitoring, Assessing and quantifying damages to Water Resources Contamination of Groundwater Caused by Accelerated Seepage from As-Samra Wastewater Treatment Plant. Consolidated Consultant. Ministry of Water and Irrigation, 2002-2003
- Groundwater modeling of water resources downstream of Wadi Wala Dam Reservoir... Project Sponsored by the Jordan Valley Authority- Ministry of Water and Irrigation, 2004
- Water resources evaluation of El-Himma thermal water, Jordan. Project submitted to the Arab Research Center, 2004
- Disi-Mudawarra to Amman Water Conveyance System, Environmental and Social Assessment. Consolidated Consultant. World Bank Project and Ministry of Water and Irrigation, 2002-2004
- Storage Systems Project. Geological and hydrogeologic study of the project area along the Jordan River and its side wadis between Yarmouk River and Wadi Rajib in the south.
- Storage Dams in Al-Karak Governorate. Geological and hydrogeological studies, selection of potential dam sites, detailed geology for two dam sites (Karak and Meddein).
- Worked as a consultant of the Ministry of Water and Irrigation - Jordan Valley Authority in conducting the 3-dimentional groundwater modelling in Wadi Araba.
- And many other Projects

Dr Rimawi is also the Author and co-author of 70 Articles and scientific reports published in local and international journals.

Education

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| 1982-1985 | Ph.D. in Hydrogeology, Hydrochemistry and Isotope Hydrology/ Technical University of Munich, Lehrstuhl fuer Hydrogeologie und Hydrochemie, Muenchen- Germany. |
| 1978-1980 | M.Sc. in Geology and Mineralogy at the University of Jordan with special emphasis on hydrogeological, hydrochemical and isotope hydrological studies, Amman- Jordan. |
| 1974-1978 | B.Sc. in Geology and Mineralogy at the University of Jordan with special emphasis on hydrogeological and geophysical investigation, Amman- Jordan. |

Employment Record

1- Working Experience

- Oct. 2010 to present
Consultant of the World Islamic Sciences and Education (WISE) which is one of arms of The Royal Aal al-Bayt Institute for Islamic Thought
President of Al Balqa' Applied University, Salt, Jordan
- Dec. 2004 - Oct. 2010
Consultant for The Royal Aal al-Bayt Institute for Islamic Thought
- 2008 - 2010
Dean of Faculty of Science, University of Jordan, Amman - Jordan
- 2001 - 2004
Chairman of Environmental and Applied Geology; Faculty of Science
- 1998 - 2001
-
University of Jordan, Amman - Jordan
- 1998 - Present
Professor of Hydrogeology and Hydrochemistry, University of Jordan
- Skilled experience in using the different analytical instruments for the analyses of water and earth material (rocks and soils).
 - Good experience in using computer in the evaluation of hydrochemical and hydrogeological information (Hydrogeochemical and Hydrogeological Modeling).
- 1992 - 1998
Assoc. Prof. at the Dept. of Geology in Hydrochemistry and Hydrogeology, University of Jordan.
- Experience in different related fields of water quality and water resources planning and implementation projects. Member of many governmental committees representing the University. Some of these committees are listed below:
- Drinking Water Standards (Ministry of Industry and Trade)
 - Committee Member & Chairman of the National Water Quality (Ministry of Water and Irrigation (2000-2009))
 - Mineral Water Standards (Ministry of Industry and Trade)
 - Treated Wastewater Standards (Ministry Industry and Trade)
 - National Environment Strategy of the Surface Ground Water Sector (Ministry of Municipalities, Rural Affairs and Environment)
 - Committee Chairman of the Physical and Chemical Methods in Analyzing Water Quality Parameters, and Sample Collection and Preservations (Ministry of Health)
 - National Committee of Karamah Dam Evaluation (Ministry of Planning)
 - National Committee of Landslides (Ministry of Public Works and Housing)
 - Azraq Oasis conservation (UNDP-Project)
 - Wadi Rajil Dam Environmental Impact Assessment
- 1993 - 1995
Tech. Director of the Artificial Groundwater Recharge in Jordan/ University of Jordan; Water and Environment Research and Study Center (3-yr) Project Sponsored by the UNDP)

- 1986 - 1992 Assistant Prof. in the Dept. of Geology and Mineralogy/Faculty of Science at the same time Researcher and Assist, to the Director of the Water & Environment Research and Study Center- University of Jordan.
- 1985 - 1986 Researcher in the Water & Environment Research and Study Center of the University of Jordan (1985-1986).
- 1982 - 1985 Researcher by Prof. Dr. Peter Udluft at the Institute for Water Chemistry; Dept. of Hydrogeology and Hydrochemistry-Technical University of Munich (1982-1985), Germany.
- 1980 - 1981 Isotope Hydrologist and Hydrogeologist (1980-1981) in the Water Quality and Environmental Isotopes Laboratories of the Natural Resources Authority - Water Resources Directorate, Jordan.

2- Consultancy Work

- Groundwater Modelling of the Groundwater Resources of Ghor Es-Safi, Mazra' and Haditha. Project Sponsored by the Arab Potash Company, Jordan, 2001/2002
- The hydrology and hydrogeology of the proposed dam on Wadi Ibn Hammad (Consolidation Consultants - Amman)
- Water quality and hydrochemistry of Wadi Araba water resources as a part of Wadi Araba Water Resources Project (Consolidation Consultants - Amman)
- Geological investigation of the proposed dams in Wadi Araba (Rahma Dam, Abu Burqa Dam and Wadi Musa Dam) (Consolidation Consultants - Amman)
- Reviewer of the Industrial Pollution in the Jordan Valley Report as committed by the Ministry of Planning
- Zarqa River Conveyance project (Harza, USAID)
- Middle East Regional Water Resources-Supply and Demand Study (GTZ and Jordanian Consulting Engineer)
- Solute Transport Modeling of the Azraq Groundwater Resources (Jordanian Consulting Engineer)
- And many other consultations

3- Teaching

Taught many Graduate and Undergraduate courses in Geology, Hydrogeology, Hydrochemistry, Isotope Hydrology, Hydrogeochemistry, Hydrogeology, Environmental Geology, Sub-Surface Geology, Hydrological Modelling and Environmental Impact Assessment, Environmental Geology, Integrated Water Resources Management and Groundwater Modeling for Ph.D., M.Sc. and B.Sc. Students.

4- Training Courses

Participated in organizing the following local and international training courses:

- Water Harvesting with cooperation of ECARDA and Uni. of Jordan 1992.
- Environmental Impacts and Solid Waste Management in cooperation with Training Center of the Ministry of Water and Irrigation (1991).
- Hydrogeological and Geophysical Exploration for Ground water Resources in

cooperation with CSC-Uni. of Jordan (Special for Hydrogeologists and Geologists from Yemen)

- Water Resources Management in cooperation with CSC-Uni. of Jordan (Special for Hydrogeologists from Yemen)
- Wastewater Treatment and Reuse in Agriculture (WRSC and Bio-Arab. 1990)
- Wastewater Treatment and Reuse in Agriculture (WRSC- Uni. of Jordan), 1989

5- Research

- Wastewater reuse in irrigation at the Queen Alia International Airport and King Hussein Medical Center (3-years project) Hydrochemistry and Hydrogeology.
 - The effects of wastewater effluents on the surface water quality (Khirbet es-Samra-Wadi Dhuleil-Zarqa River) (2- years project).
 - The effects of wastewater effluents on the groundwater quality along Zarqa-River (Hydrochemistry and Hydrogeology)
 - Wastewater quality changes during infiltration to groundwater Khirbet es-Samra and Queen Alia Airport.
 - Groundwater investigation, Hydrogeological and Hydrochemical Azraq Basin.
 - Supervision of a project about precipitation water quality and its time and space distribution in Jordan. Ministry of planning (3-years project).
 - Member of the research team on the water quality of the dam waters in Jordan- Ministry of Planning (3-year project).
 - Member of the research team on the artificial groundwater recharge in Jordan- Ministry of Planning (3-year project)
 - Member of the research team on water harvesting in Jordan (3-years project, University of Jordan)
 - Tech. Director of the research project on artificial recharge in Jordan (3-years project, University of Jordan). Only during the period 1993-1994, 1997
 - Coordinator and researcher of a project dealing with the climatological and hydrological data of Badia region/ Jordan (1997 - 1999; Badia Development Program/ Higher Council for Science and Technology)
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6- Publications

1. Rimawi, O. and Salameh, E. (1984): Isotope analyses and hydrochemistry of the thermal spring along the eastern side of the Dead Sea- Wadi Araba Rift Valley. *J. Hydrology* 73: 129-145.
2. Rimawi, O. and Udluft, P. (1985): Natural water groups and their origin of the Shallow Aquifer Complex in Azraq Depression. *Geol. Jb. Reihe C* 38: 17-38.
3. Rimawi, O. and Udluft, P. (1986): The effects of the flow patterns on the chemistry of groundwater in Central Jordan. *The International Congress in Semi-arid and Arid Regions*. Amman - Jordan.
4. Rimawi, O. and Salameh, E. (1988): Experience gathered by wastewater reuse; water quality changes during infiltration: In Biswas, A. and Arar, FAO the Regional Workshop on the August 1986, Amman. Butterworths, London.
5. Rimawi, O. and Proesl, K.H. (1986): Nitrate in groundwater. *WRSC Bulletins* 6th. Issue. University of Jordan, Amman, Jordan.
6. Rimawi, O. et al., (1986): Curative water in Afra area /Tafilah Jordan. University of Jordan. Report submitted to the Ministry of planning of Jordan, p. 64. (In Arabic).
7. Rimawi, O. and Salameh, E. (1987): Hydrochemistry of precipitation of Northern Jordan. *WRSC Bulletin* 8th Issue. University of Jordan. Amman-Jordan.
8. Rimawi, O. and Salameh, E. (1987): Natural radioactivity and hydrochemistry of some Jordanian Groundwater resources. *WRSC Bulletin* 9th Issue, University of Jordan, Amman-Jordan.
9. Rimawi, O. et al, (1987); Effect of Khirbit es-Samra effluent on the surface water quality along Dhuleil- Zerka River. *WRSC Bulletin* 10th Issue, University of Jordan, Amman-Jordan.
10. Rimawi, O. and Salameh, E. (1988): Hydrochemistry and groundwater system of Zerka Main-Zara thermal field. *J. Hydrology*, 89: 147-163, Amsterdam.
11. Rimawi, O. and Salameh, E. (1988): Hydrochemistry of precipitation of Northern Jordan. *Intern. J. Environmental Studies*, Vol. 32, pp. 203-216.
12. Rimawi, O. and Salameh, E. (1988): The special features of the groundwater flow system in Central Jordan. *Dirasat*, Volume XV Number 9, University of Jordan, Amman.
13. Rimawi, O.; et. al. (1988): Wastewater Reuse in Irrigation at King Hussein Medical Center and Queen Alia International Airport. Results of a three years research project issued by the University of Jordan. This research project sponsored by the Ministry of Planning of Jordan and the University of Jordan, Amman.
14. Rimawi, O.; et. al. (1989): Treated wastewater reuse in agriculture Part 1: Hussein Medical Center. *WRSC Bulletin* 12th Issue, University of Jordan, Amman - Jordan.
15. Rimawi, O.; et. al. (1989): Treated wastewater reuse in agriculture. Part II: Queen Alia International Airport, *WRSC Bulletin* 13th Issue, University of Jordan, Amman-Jordan.
16. Rimawi, O.; et. al. (1989): Curative waters in Jordan. Report submitted to the Ministry of Planning of Jordan, pp. 120. Amman Jordan (in Arabic).
17. Rimawi, O. and Salameh, E. (1990): Water resources in Palestine; West Bank and Gaza Strip. In: *Proceedings of the Symposium on Water Resources of the Arab World and its Strategic Importance*; 2-4 April 1989, PP. 197-206. University of Jordan, Amman. (In Arabic).
18. Rimawi, O. and Salameh, E. (1991): Precipitation water quality in Jordan. Results of

- a three years research project issued by the Water Research and Study Center; University of Jordan. The Ministry of Planning and the University of Jordan, Amman sponsored this research. (191 P.)
19. Rimawi, O.; Salameh, E. and Bannayan, H. (1991): Groundwater artificial recharge in Jordan. Results of a three years research project issued by the Water Research and Study Center; University of Jordan. The Ministry of Planning of Jordan and the University of Jordan, Amman sponsored this research (197 P.).
 20. Rimawi, O.; El-Naqah, A. and Salameh E. (1991): Hydrochemical characteristics of groundwater resources in the Northeastern part of Jordan Valley/ Jordan. Dirasat, Volume 19B No. 1; pp. 87-117. University of Jordan, Amman.
 21. Rimawi, O. (1992): Salinization and water quality of the groundwater resources in Dhuleil-Hallabat area- Jordan. Dirasat, Volume 19B Number 3. pp. 131-176, University of Jordan, Amman - Jordan.
 22. Rimawi, O. (1992): Quality changes of treated wastewater during infiltration and its effects on groundwater resources in Khirbet Es-Samra area/ Jordan. Arab Gulf J. Scient. Res., 10(2), pp 121-142. Published by Arab Bureau of Education for the Gulf States. Riyadh, Saudi Arabia. (In Arabic)
 23. Rimawi, O. and Abu Sharar, T. (1993): Water chemistry of the Dhuleil Aquifer (Jordan) as influenced by long-term pumpage. J. Hydrology, 149: 49-66
 24. Rimawi, O.; Shatanawi, M. and Awwad, M. (1994): Appropriate geological and hydrogeological conditions in selecting methods of artificial recharge; Azraq-Basin as a potential area. In the Proceedings of the Regional Seminar on the Potential of Groundwater Artificial Recharge, Dec. 13-15, 1993, Amman-Jordan.
 25. Rimawi, O.; Shatanawi, M. and Awwad, M. (1994): Ground-water quality changes of the Shallow Aquifer due to unintended artificial recharge in the vicinity of Khirbet Es-Sammra Stabilization Ponds. Proceedings of the Regional Seminar on the Potential of Groundwater Artificial Recharge, Dec. 13-15, 1993, Amman-Jordan.
 26. Shatanawi, M.; Rimawi, O. and Awwad, M. (1994): Harvested water as a source of artificial recharge. Proceedings of the Regional Seminar on the Potential of Groundwater Artificial Recharge, Dec. 13-15, 1993, Amman-Jordan.
 27. Rimawi, O.; Awad, M. and Ayed, R. (1994): Water quality of karst springs in Wadi Shueib Catchment area. Abhath Al-Yarmouk "Pure Science and Engineering Series" Vol. 3, No. 2, PP. 79-110. Yarmouk University, Jordan
 28. Rimawi, O. and El-Naqah, A. (1995): Estimation of Transmissivity from Specific Capacity data in Fractured Basalt Aquifer System in Northeast Jordan. Arab Gulf of Scient. Res. 13(3), PP. 463-479.
 29. Rimawi, O.; Abu Taha, I.; El-Naqa, A. and Al-Ansari, N. (1995): Geological and geotechnical analysis of instability problems at Wadi Es Sir Treatment Plant. Technical Report Submitted to the Water Authority/ Ministry of Water and Irrigation, Jordan.
 30. Rimawi, O.; El-Isa, Z.; Atallah, M. and others (1995): Geological, geotechnical, hydrogeological and geophysical investigation of the sinkholes in Ghor El-Haditha area/ Jordan. Technical Report Submitted to the Jordan Valley Authority/ Ministry of Water and Irrigation.
 31. Rimawi, O.; El-Isa, Z. and Saad, A. (1995): Geological, hydrogeological and geophysical investigations of the groundwater resources of Wadi Isal area. Technical Report submitted to the Arab Potash Company.

32. Rimawi, O. and El-Naser, H. (1997): Hydrogeochemical calculations of the carbonate system of the Deep Thermal Groundwaters along the Jordan Rift Valley/ Jordan. *Abhath Al-Yarmouk, Pure Science and Engineering Series, Vol. 6, No. 2*, pp. 111-133, Yarmouk University.
33. Rimawi, O. and Salameh, E. (1997): Curative water in Jordan. Ministry of Tourism. (In Arabic and English), 150 P, Amman.
34. Rimawi, O. and Al-Ansari, N. (1997): Water quality degradation in Northeastern part of Mafraq area/ Jordan. *Proceedings of Rabat Symposium S4, Fresh Water Contamination, International Association of Hydrological Sciences (IAHS)*. IAHS Publication No. 243.
35. Rimawi, O.; Al-Ansari, N. and Zayd, A. (1997): GwHydro- Finite Element Computer Package. Al al-Bayt University, Jordan.
36. Al-Ansari, N. and Rimawi, O. (1997): Sediment load transport model of Al-Mousel Dam/ Iraq. *Proceedings of Rabat Symposium S6, Human Impact on Erosion and Sedimentation, International Association of Hydrological Sciences (IAHS)*. IAHS Publication No. 245.
37. Rimawi, O. and Ta'any, R. (1997): Availability of surface water of Wadi Rajil as a source of groundwater artificial recharge for Azraq Basin. (Accepted for publication in *Journal of Babylon University, Iraq*).
38. Rimawi, O. and El-Naqa, A. (1998): WEDGE- a computer program for rock wedge stability analysis. *Dirasat, Natural and Engineering Sciences, volume 25, no. 1*, University of Jordan.
39. Rimawi, O. (1998): Analysis of a karstic spring hydrogeological system: A case study on Ras El-Ain Spring Amman/ Jordan. (Accepted for publication in *Hydrogeologie und Umwelt, Uni. Wuerzburg, Germany*)
40. Rimawi, O.; El-Naser, H. and Al-Zabet, T. (1998): Using Finite Element Model for optimizing rates of an overpumped aquifer in Dhuleil-Hallabat area/ Jordan. ("Mu'atah Journal")
41. Rimawi, O.; Al-Ansari, N.; Salameh, E. and El-Naqa, A. (1999): Hydrochemistry of the groundwater resources in the Northeastern Part of Mafraq, Jordan. *AL-MANARAH, Vol. 4, No. 2*
42. Rimawi, O.; El-Naqa, A. and Salameh, E. (1999): Chemical changes during infiltration of the effluents of a Yeast Industry wastewater treatment plant in Ruseifa area, Jordan. *Hydrological Sciences-Journal-des Sciences Hydrologiques, 44(5) October 1999*
43. Rimawi, O.; Shatanawi, M. and Fayyad, M. (1999): The effect of Ruseifa solid waste disposal site on the groundwater resources of Amman Zarqa Basin. *Abhath Al-Yarmouk « Basic Sci. & Eng. « Vol. 8 No.1, pp. 73-92.*
44. Rimawi, O. and Katbeh, H. (2001): Chemical and Isotopic Composition of the Groundwater Resources of Deir Alla Area in Jordan Valley. In press in the IAEA- Technical Documents, Vienna. IAEA-Project No. RAW-8-002 in Jordan Ministry of Water and Irrigation, Water Authority of Jordan, Amman.
45. Rimawi, O. and Katbeh, H. (2001): Origin of Nitrates and Salinization of Wadi Dhuleil Groundwater Resources. - Using chemical and Isotopic Techniques in Jordan. IAEA- Technical Documents, Vienna. IAEA-Project No. RAW- in Jordan Ministry of Water and Irrigation, Water Authority of Jordan, Amman.
46. Al-Zubi, H.; Taqa, A. and Rimawi, O. (2001): Determination of Groundwater

- Resources Using Environmental Isotopes in N-E Mafraq, Jordan. Proceeding of the Fourth Syrian-Egyptian Conference of Chemical and Petroleum Engineering, 9-11 October 2001, Homs-Syria, PP. 789-803
47. Khatieb, M.; Abdulla, F. and Rimawi, O. (2002): Three Dimensional Numerical Groundwater Flow Model for the Two Aquifers (Upper and Middle) of the Azraq Basin-Jordan. Freiburger Forschungshefte, Geowissenschaften C494; pp. 137-148, Freiberg 2001. Selected Contributions to Applied Geology in the Jordan Rift Valley.
 48. Qannam, Z.; Merkel, B. and Rimawi, O. (2002): Water Quality and Environmental Aspects of Beit Lehem - Hebron Water Resources Freiburger Forschungshefte, Geowissenschaften C494; pp. 95-109, Freiberg 2001. Selected Contributions to Applied Geology in the Jordan Rift Valley
 49. El-Memah, M.; Rimawi, O. and El-Naser, H. (2002): Hydraulic Characteristics of the Rum and Alluvial Aquifers in Wadi Yutum Catchment/ Jordan. (Freiburger Forschungshefte, Geowissenschaften C494; pp. 83-93, Freiberg 2001. Selected Contributions to Applied Geology in the Jordan Rift Valley
 50. Rimawi, O. (2003): (Arabization) Operation and maintenance of rural water supply and sanitation systems: A training package for managers and planners (WHO/SDE/WSH/OO.2) WHO Publications
 51. الريماوي، عمر (ترجمة وتعريب) وسائل تقييم حالة التشغيل والصيانة لتزويد المياه والصرف الصحي في الدول النامية. منظمة الصحة العالمية 2003.
 52. Rimawi, O. (2003): (Arabization) Tools for assessing O&M status of water supply and sanitation in developing countries (WHO/SDE/WSH/OO.3) WHO Publications
 53. الريماوي، عمر (ترجمة وتعريب) تشغيل وصيانة أنظمة تزويد المياه والصرف الصحي في الريف. منظمة الصحة العالمية 2003.
 54. Rimawi, O. (2004): Groundwater Modeling of the Water Resources Downstream of Wadi Wala Dam Reservoir. Report submitted to the Ministry of Water and Irrigation
 55. Jiries, A. and Rimawi, O.; Lintelmann, J. and Batarseh, M. (2005): Polycyclic aromatic hydrocarbon (PAH) in top soil leachate and groundwater from Ruseifa solid waste landfill, Jordan. International Journal of Environment and Pollution, Vol. 23, No. 2. PP. 179-188.
 56. Al-Momani, M.; Kilani, S.; Amro, H.; El-Naqa, A.; Rimawi, O.; Katbeh, H. and Tuffaha, R. (2006): Isotope Response to Hydrological Systems for Long Term Exploitation: Case of Azraq Basin, Jordan. Proceedings of a Final Research Coordination Meeting, held in Vienna, 12-16 May 2003. In: Isotopic Assessment of Long Term Exploitation- IAEA-TECDOC-1507: PP. 177-211.
 57. Bousselmi L, Chik A., Dercas N, Gaboriau H, Hemdani B.A., Rimawi O., Smedt De F., Tarhouni J., 2007. Gestion intégrée de l'eau et du système agricole local dans une région minière méditerranéenne: Le projet El'Maa Poster (PDF file - 470 KB) - Summary (PDF file - 92 KB. Meda Water International Conference on Sustainable Water Management (Tunis, 21 to 24 March 2007).
 58. Vengosh, A.; Herschfeld, D.; Vinson, D.; Dwyer, G.; Raanan, H.; Rimawi, O.; Al-Zoubi, A.; Akkawi, E.; Marei, A.; Haquin, G.; Zaarur, Sh. and Ganor, J., 2009. High Naturally Occurring Radioactivity in Fossil Groundwater from the Middle East. Environ. Sci. Technol., 43 (6), PP. 1769-1775.
 59. Ta'any, A, Ta'any, R., Rimawi, O. and El-Naqa, A. (2009): Evaluation of net

- recharge in al Salt urban area/ Jordan using SCS curve number method. Biosciences, Biotechnology Research Asia, Volume 06, Issue (1), PP. 37-44
60. Rimawi, O., Jiries, A., Zubi, Y. and El-Naqa, A., 2009. Reuse of Mining Wastewater in Agricultural Activities in Jordan. *Journal of Environment, Development and Sustainability*. 11: 695-703.
 61. Abu-Saleem, A.; Al-Zu'bi, Y.; Rimawi, O.; Al-Zu'bi, J. and Alouran, N., 2010. Estimation of Water Balance Components in the Hasa Basin with GIS based WetSpas Model. *Journal of Agronomy* 9 (3): PP. 119-125
 62. Al-Dahabi, I., Al- Zu'bi, Y., Rimawi, O., Al-Zu'bi, J., 2010. The relationship between total suspended particulate matter (TSP) and different climatic factors: The case of Jordan. *Journal of Food, Agriculture & Environment*, Vol.8 (1):-308-312.
 63. Alawneh, B., Al-Salhi, A., Rimawi, O.A. and Abed, A.M., 2011. Modeling of Groundwater Recharge by Rainwater Harvesting –Wadi Bayer (Case Study). *Jordan Journal of Civil Engineering*, Volume 5, No. 2, PP. 191-209.
 64. Omar Rimawi, Ali El-Naqa, Yasien Al Zubi, Anwar Jiries and Abu-Hamatteh, Z.S.H., 2012. GROUNDWATER MODELING OF ESHIDYA PHOSPHATE MINING AREA, SOUTHERN JORDAN. Accepted in the Sixteenth International Water Technology Conference (IWTC16) Istanbul – Turkey 7 – 10 May 2012.
 65. Ali El-Naqa, Omar Rimawi and Abu-Hamatteh, Z.S.H., 2012. UPPER AQUIFER COMPLEX IN AZRAQ BASIN: SALTWATER INTRUSION AND INTERFACE DELINEATION. Accepted in the Sixteenth International Water Technology Conference (IWTC16) Istanbul – Turkey 7 – 10 May 2012.
 66. Majdalawi, M.; Rimawi, O.; Abu-Hamatteh, Z.; El-Naqa, A. & Abdel Hadi, N., 2013. The Potential Contamination of the Groundwater Resources in the Vicinity of Al-Ekeder Disposal Site, North Jordan. *International Journal of Chemistry*; Vol. 5, No. 4; 2013 ISSN 1916-9698 E-ISSN 1916-9701 Published by Canadian Center of Science and Education
 67. Shaqour, F.; R. Taany; O. Rimawi & G. Saffarini 2016. Quantifying specific capacity and salinity variability in Amman Zarqa Basin, Central Jordan, using empirical statistical and geostatistical techniques. *Environ Monit Assess* (2016) 188:46 DOI 10.1007/s10661-015-5051-z
 68. Qubu J.; Rimawi O.; Abu-Hamatteh, Z.S.H., Merkel, B. and Dunger, V. 2016. - Groundwater Modelling of Wadi Wala Dam Area and the Heedan Wellfield in Jordan. Accepted for Publication in *International Journal of Engineering & Scientific Research* (ISSN: 2347-6532) Impact Factor (IJESR) 3.847 for 2013 and 4.961 for 2014
 69. Qubu J.; Rimawi O.; Abu-Hamatteh, Z.S.H., Merkel, B. and Dunger, V. 2016. IMPACT OF MINERAL PRECIPITATION ON THE DEAD SEA WATER LEVEL DESCENDS. *IJESR* Volume 4, Issue 5 ISSN: 2347-6532
 70. Mahmoud M. Alawneh, Omar A. Rimawi and Rakad A. Ta'any (2016): EVALUATION OF GROUNDWATER RECHARGE AT MAFRAQ WASTEWATER TREATMENT PLANT CATCHMENT AREA USING SCS – CURVE NUMBER METHOD- A CASE STUDY EASTERN BADIA / JORDAN. *Ass. Univ. Bull. Environ. Res.* PP (25-34); Vol. 19 No. 2 October 2016.
 71. Ali M. Obeidat, Omar Rimawi (2017): Characteristics and Genesis of the Groundwater Resources Associated with Oil Shale Deposits in the Azraq and Harrana Basins, Jordan. *Journal of Water Resource and Protection*, PP (121-138) Vol.9 No.2. February 4, 2017.
 72. Abuqubu J.; Merkel B.; Dunger V., and Rimawi O. (2016): Conversion Factor of Radioactivity Measurements Counts per Second (cps) into Dose Rates in Aqaba-Jordan

- Phosphogypsum Disposal Piles. IJESR, Volume 7, Issue 7, ISSN: 2229-5518.
73. Sadam S. Ramadain, Zuhair El-Isa and Omar Rimawi (2018): Geoelectrical and Hydrochemical Assessment of the Groundwater in Al-Abyad Phosphate Area/ Jordan. International Journal of Applied Engineering Research ISSN 0973-4562 Volume 13, Number 5 (2018) PP 2225-2234
74. Jamal Abu-Qubu; Broder Merkel; Volkmar Dunger and Omar Rimawi (2018): Variation of the Chemistry of the Dead Sea Brine as Consequence of the Decreasing Water Level. ORIGINAL ARTICLE, (Aquat Geochem) Jour. Aquatic Geochemistry: Aquat Geochem (2018) 24:121–135. <https://doi.org/10.1007/s10498-018-9336-z>
75. Hiasat, T., Rimawi O., and Makhoulf I. (2020) Hydrochemical Evaluation of Molybdenum Content of the Groundwater Aquifer System in Northern Jordan: Journal of Water Resource and Protection, 12. <https://www.scirp.org/journal/jwarp>
76. محمد قوقزه، علي العنانزة وعمر الريماوي (2020) تحليل الخصائص الهيدروكيميائية والإذابة الكارستية الفصلية (الربيع والصيف) لمياه الينابيع في محافظة عجلون. والذي سيظهر في المجلد 36 العدد 8 آب 2022. تاريخ القبول 2020/07/20 جلسة رقم 162 بتاريخ 2020/09/28 – مجلة جامعة النجاح للأبحاث (العلوم الإنسانية).
77. Anbar, A. H.; Remawi, O.; Tawfiq M Al Antary, T.M. and Sawwan, J. (2020) CLIMATE CHANGE AND ITS IMPACT ON RAINFALL AND GROUNDWATER RESOURCES IN THE NORTHERN BADIA OF JORDAN. Volume 29 – No. 11/2020 pages 10294-10310 Fresenius Environmental Bulletin.
78. Obeidat, A. M. and Rimawi, O. (2020) Investigating the Characteristics and genesis of the Groundwater Resources Associated with Oil Shale Deposits in the Azraq and Harrana Basins, Jordan. This chapter is an extended version of the article published by the same author(s) in the following journal. Journal of Water Resource and Protection, 9(2): 121-138, 2017. Book Name: Modern Advances in Geography, Environment and Earth Sciences
79. Obeidat, A. M., Rimawi, O. and Abu-Hamattah, Z. S. (2020) Statistical Analysis of Groundwater Quality Parameters for Harrana and Azraq Basins, Jordan. Journal of Geoscience and Environment Protection, Vol. 9 No. 10 of October 2020 ID: 2171536.
80. Abu-Qubu, J; O. Rimawi, O.; Anbar, A.; Alebous, T. and Abu-Hamattah, Z. S. H. (2022): Hydrochemistry of the Mixed Dead Sea-Red Sea Water under Different Impoundment Scenarios as a Time Dependent State. Journal of Geoscience and Environment Protection, 2022, 10, 94-108: Jan. 17, 2022 94 Journal of Geoscience and Environment Protection: <https://www.scirp.org/journal/gep>; ISSN Online: 2327-4344 ISSN Print: 2327-4336 DOI: 10.4236/gep.2022.101007
81. Mohammad Qoqazeh, Ali Al Ananzeh & Omar Rimawi (2022) Analysis of Hydrochemical properties and seasonal karst solution (spring and summer seasons) of spring water in Ajloun Governorate. Al-Najah University Journal vol. 8, pp (1613-1638) (In Arabic).
82. Al-Alimi, AA, Al-Sarheed HT, Elarabiyat, OI and Rimawi, O. (2022) Assessment of the Levels of Persistent Organic Pollutants in the Ghabawi Landfill in Jordan. Egyptian Journal of Occupational Medicine, 2022; 46 (3): 77 – 92.
83. Abdel Kawi Al-Alimi, Heba Al-Sarheed HT, Omar Elarabiyat and Omar Rimawi (2022) HEAVY METALS AND PAHS in THE MUNICIPAL SOLID WASTE in GHABAWI LANDFILL/JORDAN. 6th EURASIA Waste Management Symposium. WWW.Eurasiasymposium.com
84. Abdel Kawi Al-Alimi, Omar Rimawi, Sanaa Al- Alaiy and Shaif Saleh (2023) Assessment of Household Drinking Water Quality in Zabied City, Yemen. International Journal of Water Resources and Arid Environment 12(1): 31-45, 2023. ISSN2079-7079
85. Al-Jedaih Ma'amoun S., Bashaar Y. Ammary, Omar A. Rimawi, and Jalal A. Al-Tabbal (2024) Effect of Different Olive Mill Wastewater Treatments On Seed Germination JJEES (1): 63-69. ISSN 1995-6681

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Research Interests

- 1- **Environmental Isotope Hydrology**
- 2- **Hydrogeology**
- 3- **Hydrochemistry and Hydrogeochemistry**
- 4- **Groundwater Modelling**
- 5- **Surface Water Hydrology**
- 6- **Hydrological Modelling**
- 7- **Application of Geophysical Surveys on Subsurface Geology**
- 8- **Agricultural Activities as Pollution Sources on Water Resources**
- 9- **Curative Applications of Thermal Mineral Waters**
- 10- **Wastewater Treatments and Possible Effects on Surface and Groundwater**
- 11- **Environmental Geology Problems**