

AHMAD I. AI-JAMRAH

P.O. Box 2965, Amman 11941, JORDAN
Tel. +962 777 751 427 (Mobile) OR +962 797 728 464 (Mobile)
E-mail: jamrah@ju.edu.jo, ajamrah@yahoo.com

PERSONAL:

- Date of Birth: February 1, 1965.
- Nationality: Jordanian.
- Status: Married, four children.

EDUCATION:

- **Ph.D., Civil Engineering: Water and Environmental Engineering, August 1993, USA**

Department of Civil Engineering, University of Delaware, Newark, DE 19716.
Graduated with GPA of 4.00/4.00.

Ph.D. Dissertation: Modified clay sorbents for selective removal of organic contaminants from aqueous systems.

- **M.Sc., Civil Engineering: Water Resources and Environmental Engineering, June 1989**

Department of Civil Engineering, Jordan University of Science and Technology, Irbid, Jordan.

M.Sc. Thesis: Drag reduction by a chemical additive in sanitary sewers.

- **B.Sc., Civil Engineering, June 1987**

Department of Civil Engineering, Yarmouk University, Irbid, Jordan.
Graduated first in class.

ACADEMIC EXPERIENCE:

- Full Professor, Department of Civil Engineering, University of Jordan, Amman, Jordan, 2008 – present.
- Associate Professor, Department of Civil Engineering, University of Jordan, Amman, Jordan, 2006 – 2008.
- Visiting Professor, Department of Civil and Architectural Engineering, Sultan Qaboos University, Sultanate of Oman 2002 – 2006.
- Associate Professor, Department of Civil Engineering, University of Jordan, Amman, Jordan, 2000 – 2002.
- Assistant Professor, Department of Civil Engineering, University of Jordan, Amman, Jordan, 1996 – 2000.
- Assistant Professor, Department of Civil Engineering and Construction, Bradley University, Peoria, Illinois, USA, 1994 – 1996.
- Visiting Researcher, Institute for Technology and Resources Management in the Tropics and Subtropics, Cologne University of Applied Sciences, Germany, Summer 2009.
- Visiting Researcher, Research Center for Environmental Quality Control, Kyoto University, Japan, Summer 2000.
- Visiting Researcher, Department of Waste Management, Brandenburg Technical University of Cottbus, Germany, Summer 1999.

ADMINISTRATIVE EXPERIENCE:

- HoD, Department of Civil Engineering, University of Jordan, Amman, Jordan, 2007 – 2008.
- HoD, Water Resources and Environmental Engineering, Department of Civil Engineering, University of Jordan, 1997–1998, 2000–2001, 2001–2002, 2009–2010, and 2010–2011.

TECHNICAL BACKGROUND:

- Water and Wastewater Treatment: Process Analysis, Selection, Diagnosis, and Design.
- Water Quality Modeling and Management of Treatment Residuals.
- Contaminant Transport and Fate of Pollutants in the Environment.
- Integrated Water Resources Management and Demand Management.
- Water Distribution Systems: System Requirements, System Hydraulic Design and Analysis.
- Water Harvesting, Surface/Subsurface Hydrology and Hydrologic Investigation.

GRADUATE ADVISING:

Thesis Committee Chair:

- “Analysis and management of non-revenue water in Amman,” Master Thesis by Abeer Khairuddin, Department of Civil Engineering, University of Jordan, January 2011.
- “Distribution of residential internal water use in Jordan: Al-Salt case study,” Master Thesis by Shayma Khraisat, Department of Civil Engineering, University of Jordan, January 2011.
- “Integrated Socio-Economic Impact analysis Guidelines for Water Supply Projects, Disi Project,” Master Thesis by Ibrahim Issa Obadah, Department of Environmental Science and Management, University of Jordan, December 2010.
- “Assessment of a cost-covering sanitation tariff for Akexandria/Egypt,” Master Thesis by Mohamed Omer Badran, Integrated Water Resources Management, University of Jordan, January 2010.
- “Development of a water balance for the distribution network in Hamat-Batroun regin in north Lebanon,” Master Thesis by Katia Gerges Fakhry, Integrated Water Resources Management, University of Jordan, January 2010.
- “Geostatistical approach for sustainable management of groundwater monitoring network in Amman-Zerqa basin,” Master Thesis by Adel Yahya Alobeiaat, Integrated Water Resources Management, University of Jordan, January 2010.
- “Aspects Of Water Quality And Polution Control In Wadi El-Esh Industrial Area In Zerqa City,” Master Thesis by Ala’a Ahmad Rezeq, Integrated Water Resources Management, University of Jordan, January 2009.
- “Water And Wastewater Management Guide For Jordan’s Industrial Sector,” Master Thesis by Rami Omar Salameh, Integrated Water Resources Management, University of Jordan, January 2009.
- “Optimization of iron removal from groundwater at Baq'a water treatment plant along with anticipated impacts on removal of manganese,” Master Thesis by

- Abdulkareem Al-Zoubi, Department of Civil Engineering, University of Jordan, January 2009.
- “Evaluation of Biokinetic Parameters and Biological Treatability of Amman Slaughterhouse Wastewater Using Sequencing Batch Reactor (SBR),” Master Thesis by Baheera Hosni Abu Aamer, Department of Civil Engineering, University of Jordan, January 2009.
 - “Biokinetics and Treatability of Dairy Wastewater Generated in Jordan Using Sequencing Batch Reactor (SBR),” Master Thesis by Ahmed Rahomi, Department of Civil Engineering, University of Jordan, January 2009.
 - “Characterization and Assessment of Treatability of Wastewater Generated in Amman Slaughterhouse,” Master Thesis by Ameen Hikmat Sarayrah, Department of Environmental Science and Management, University of Jordan, May 2008.
 - “Characterization and Assessment of Treatability of Wastewater Generated in Amman Slaughterhouse,” Master Thesis by Ameen Hikmat Sarayrah, Department of Environmental Science and Management, University of Jordan, May 2008.
 - “Assessment of Groundwater Vulnerability in Baqa'a Aquifer Using GIS and DRASTIC Approach,” Master Thesis by Ala'a Abdullatif Fa'ori, Department of Civil Engineering, University of Jordan, May 2008.
 - “A study of Noise Pollution in Zarqa and Irbid, Jordan,” Master Thesis by Hiba Mansour Shobaki, Department of Environmental Science and Management, University of Jordan, May 2008.
 - “Evaluating the Potential of Greywater Generation in Zaeqa, Russifa and Irbid, Jordan,” Master Thesis by Safa Abduljawad Ayyash, Department of Environmental Science and Management, University of Jordan, May 2008.
 - “Determination of Aerobic Biokinetic Growth Coefficients for Pharmaceutical Wastewaters,” Master Thesis by Fayyad Naji Ali, Department of Civil Engineering, University of Jordan, December 2007.
 - “Detecting Variations of Meteorological and Hydrological Processes Affecting Water Demand for Nyala City in Sudan Using Time Series Analysis,” Master Thesis by Adam Ali Adam, Department of Civil Engineering, University of Jordan, May 2007.
 - “Treatment of Omani Greywater for Removal of Organic and Suspended Solids Using Bench Scale Sequencing Batch Reactor Technology,” Master Thesis by Ali Hamad Al-Harrasi, Department of Civil and Architectural Engineering, Sultan Qaboos University, December 2005.
 - “Analysis and Projection of the Influent Rate and Quality Parameters of Water in King Talal Reservoir,” Master Thesis by Ahmad Bani Hani, Department of Civil Engineering, University of Jordan, December 2001.
 - “Investigation of Biological Treatment of Selected Industrial Wastewater Using Sequencing Batch Reactor (SBR) Technology,” Master Thesis by Lina Abu Ghunmi, Department of Civil Engineering, University of Jordan, December 2001.

- “Lipids Hydrolysis in the Upflow Anaerobic Sludge-Blanket (UASB) Reactor,” Master Thesis by Manal Alawneh, Department of Environmental Science and Management, University of Jordan, December 2001.
- “The Use of Sequencing Batch Reactor (SBR) Technology for the Biological Treatment of Domestic Wastewater,” Master Thesis by Suhad Al-Bakri, Department of Civil Engineering, University of Jordan, August 2001.
- “Forecasting the Characteristics of Jordanian Domestic Wastewater Using Time Series Analysis,” Master Thesis by Abla Al-Sakakini, Department of Environmental Science and Management, University of Jordan, May 2001.
- “Monitoring and Evaluation of the Performance of a Two-Stage UASB System for Treating Domestic Wastewater in Khirbet Assamra in Jordan,” Master Thesis by Ahmad Qablan, Department of Environmental Science and Management, University of Jordan, December 2000.
- “Biological Treatment of Persistent Industrial Wastewater Using Powdered Activated Carbon,” Master Thesis by Mai Abu Tarbush, Department of Civil Engineering, University of Jordan, May 1999.
- “Common Pathogens in Municipal Wastewater Treatment Plants,” Master Thesis by Munther Kayyali, Department of Civil Engineering, University of Jordan, May 1998.
- “Modified Coagulation for the Removal of Trihalomethane Precursors,” Master Thesis by Majeda Al-Zoubi, Department of Civil Engineering, University of Jordan, May 1998.
- “Sludge Stabilization by Composting,” Master Thesis by Omer Hassouneh, Department of Civil Engineering, University of Jordan, August 1997.
- “Removal of Metal Contaminants from Wastes by Modified Clays,” Master Thesis by Moh’d Elmotasir, Department of Civil Engineering and Construction, Bradley University, December 1995.

Thesis Examination Committee Member:

- “The impact of climate change on human health in water-stressed regions: case study of northern Jordan,” Master Thesis by Rana Al-Bishtawi, Department of Civil Engineering, Jordan University of Science and Technology, May 2010.
- “Integrated wastewater management in the olive industry of Morocco,” Master Thesis by Andreas Havemann, Integrated Water Resources Management, University of Jordan, January 2010.
- “Comparison between different alternative sanitation systems for the Dead Sea Jewel compound,” Master Thesis by Feras Matar, Integrated Water Resources Management, University of Jordan, January 2010.
- “Local Private Sector Participation in the Lebanese Water Sector – Experiences with Contracting Out,” Master Thesis by Eileen Maternowski, Integrated Water Resources Management, University of Jordan, January 2009.

- “Anaerobic/Aerobic Biological Treatment for Amman Slaughterhouse Wastewater,” Master Thesis by Wissam Yahia Al-Hayek, Department of Environmental Science and Management, University of Jordan, January 2009.
- “Environmental Management System (EMS) for a Meat Factory – A Case Study in Amman-Jordan,” Master Thesis by Reham Emadudin Khader, Department of Civil Engineering, University of Jordan, January 2009.
- “Optimizing the Performance of Medical Waste Incinerators, Jordan University of Science and Technology Incinerators as a Case Study,” Master Thesis by Neda Ali Halalsheh, Department of Civil Engineering, Jordan University of Science and Technology, January 2009.
- “Simulating Central Dead Sea Basin Using Water Evaluation And Planning System WEAP,” Master Thesis by Nariman Amery, Department of Civil Engineering, Jordan University of Science and Technology, January 2009.
- “Development of Environmental Management System (EMS) of Jordan University of Science and Technology (JUST),” Master Thesis by Somayyah Al-Khateeb, Department of Civil Engineering, Jordan University of Science and Technology, January 2009.
- “Characterization of the Hydrological Changes of Jordan River Side Wadis Tributaries Using Remote Sensing and GIS,” Doctorate Dissertation by Ghaida Abdulkareem Abu-Rumman, Department of Land, Water and Environment, University of Jordan, January 2008.
- “Adaptation of Jordanians in Balqa Governorate to Aesthetic Water Quality Problems,” Master Thesis by Sammeh Al-Nuaimat, Water Demand Management, Jordan University of Science and Technology, January 2008.
- “Development of Rainfall Intensity-Duration-Frequency “IDF” Curves for Sana’a Governorate,” Master Thesis by Ameen Abdraboh Al-Maweri, Department of Civil Engineering, University of Jordan, January 2008.
- “Effects of Using Waste Oil as a Source of Energy in Jordan Cement Factories on Ambient Air Quality,” Master Thesis by Rami Hosni Alta’ani, Department of Civil Engineering, University of Jordan, January 2008.
- “Assessment of National capacity Constraints for Implementing the International Environmental Conventions” Master Thesis by Fayha’ Mohammed Al-Shibli, Department of Environmental Science and Management, University of Jordan, August 2008.
- “A Novel Technique for the Reduction of Hexavalent Chromium,” Master Thesis by Basem Ali Telfah, Department of Civil Engineering, University of Jordan, August 2007.
- “Yarmouk River Basin Management; an Attempt to an Integrated Approach,” Master Thesis by Rasha Adil Gharaibeh, Department of Civil Engineering, Jordan University of Science and Technology, May 2008.
- “Trihalomethane Concentration in the Groundwater Compared with that in Surface Water Supplies of Amman,” Master Thesis by Fatin Sha’ban, Department of Civil Engineering, University of Jordan, May 2007.

- “Comparative Study of Cadmium Levels in Groundwater and Surface Water Supplying Amman City,” Master Thesis by Muna Sa’adeh, Department of Civil Engineering, University of Jordan, May 2007.
- “Removal of Ammonia from Industrial Wastewater Using Jordanian Zeolite,” Master Thesis by Ahmad Mash’al, Department of Chemical Engineering, University of Jordan, May 2001.
- “Effect of Wastewater Upflow Velocity Change on the Flow Behavior and Performance of the Two-Stage Pilot UASB Reactor at Khirbet Assamra Plant,” Master Thesis by Maha Al-Zoubi, Department of Environmental Science and Management, University of Jordan, May 2001.
- “Retention of Selected Heavy Metals on Clayey Soils from Irbid Region,” Master Thesis by Ruba Al-Zoubi, Department of Civil Engineering, Jordan University of Science and Technology, January 2001.
- “Retrofit of RBC System for Removal of Nitrogen: Experimental Investigation and Computer Simulation,” Master Thesis by Hossam Kilani, Department of Civil Engineering, Jordan University of Science and Technology, June 1999.
- “Interaction Between Urban Planning, Transportation System, and Vehicle Emissions in Urban Arterials,” Master Thesis by Aslam Al-Omari, Department of Civil Engineering, Jordan University of Science and Technology, January 1998.
- “Evaluation of the Effects of Seasonal Variations on the Performance of Assamra Treatment Plant,” Master Thesis by Majed Madadhah, Department of Civil Engineering, University of Jordan, January 2000.
- “Adsorption and Transport of Bacteria onto Soil of Different Characteristics,” Master Thesis by Mai Al-Shara’, Department of Civil Engineering, Jordan University of Science and Technology, May 2000.
- “Development of a Computer Software for Environmental Auditing Incorporating Environmental Laws in Jordan,” Master Thesis by Sami Jaradat, Department of Civil Engineering, Jordan University of Science and Technology, May 2000.

JOURNAL REFEREED PAPERS

BaniHani, Q., Haddadin, N. and Jamrah, A. (2012) "Start-up of Anaerobic Ammonium Oxidation (Anammox) from Conventional Return Activated Sludge in Up-flow Anaerobic Sludge Blanket (UASB) Reactor for Autotrophic Nitrogen Removal from Wastewater." Jordan Journal of Civil Engineering, 5(4).

Ghrefat, H., Jamarh, A., Al-Futaisi, A. and Al-Abri, B. (2011) “Water quality mapping and assessment, and weathering processes of selected aflaj in Oman.” *In Press*. Environmental Monitoring and Assessment.

Ghrefat, H., Yusuf, N., Jamarh, A. and Nazzal, J. (2011) “Fractionation and risk assessment of heavy metals in soil samples collected along Zerqa River, Jordan.” *In Press*. Environmental Earth Sciences.

Alqam, M., Jamrah, A. and daghlas, H. (2011) "Utilization of Cement Incorporated with Water Treatment Sludge." Jordan Journal of Civil Engineering, 5(2).

Abu Aamer, B. and Jamrah, A. (2009) "Evaluation of Biokinetic Parameters and Biological Treatability of Amman Slaughterhouse Wastewater Using Sequencing Batch Reactor (SBR)." Dirasat, Engineering Sciences, 36(1).

Abu Rumman, M., Hiyyassat, M., AlSmadi, B., Jamrah, A., and Alqam, M. (2009) "A surface water management model for the integrated Southern Ghor project, Jordan." Construction, Innovation: Information, Process, Management, 9(3).

Jamrah, A. and Ayyash, S. (2008) "Greywater generation and characterization in major cities in Jordan." Jordan Journal of Civil Engineering, 2(8).

Al-Shobaki, H. and Jamrah, A. (2008) "A study of noise pollution in Zarqa and Irbid, Jordan." Jordan Journal of Civil Engineering, 2(7).

Al-Omari, A., Fayyad, M., and Jamrah, A. (2008) "Drinking water quality in roof storage tanks in the city of Amman, Jordan." Water International, 33(2).

Jamrah, A., Al-Futaisi, A., Prathapar, S. and Al-Harrasi, A. (2008) "Evaluating greywater reuse potential for sustainable water resources management in Oman." Environmental Monitoring and Assessment, 137.

Jamrah, A., Al-Futaisi, A., Ahmed, M., Prathapar, S., Al-Harrasi, A. and Al-Abri, A. (2008) "Biological treatment of greywater using sequencing batch reactor technology." International Journal of Environmental Studies, 65(1).

Abu-Ashour, J. and Jamrah, A. (2008) "Survival of bacteria in soil subsequent to greywater application." International Journal of Environmental Studies, 65(1).

Jamrah, A., Al-Futaisi, A., Rajmohan, N. and Al-Yaroubi, S. (2008) "Assessment of groundwater vulnerability in the coastal region of Oman using DRASTIC index method in GIS environmrnt." *In Press*, Environmental Monitoring and Assessment.

Hassan, H., Al-Rawas, A., Hago, A., Jamrah, A., Al-Futaisi, A. And Al-Sabqi, T. (2008) "Investigation of permeability and leaching of hot asphalt concrete containing oil-contaminated soils." *In Press*, Construction and Building Materials.

Saraireh, A. and Jamrah, A. (2008) "Characterization and Assessment of Treatability of Wastewater Generated in Amman Slaughterhouse." *In Press*, Dirasat, Engineering Sciences.

Mohammed, F. and Jamrah, A. (2008) "Evaluation of Biokinetic Parameters of Pharmaceutical Wastewater Using Aerobic Oxidation." *In Press*, Dirasat, Engineering Sciences.

Taha, R., Hassan, H., Al-Rawas, A., B., Al-Futaisi, A., Jamrah, A. And Al-Sulaimani, Y. (2007) "Use of Tank Bottom Sludge to Construct and Upgrade Roads." Transportation Research Record, 1(1989).

Al-Futaisi, A. and Jamrah, A. (2007) "Aspects of cationic dye molecules adsorption to Palygorskite." Desalination, 214.

Rajmohan, N., Al-Futaisi, A. and Jamrah, A. (2007) "Evaluation of long-term groundwater level data in regular monitoring wells, Barka, Sultanate of Oman." Hydrological Processes Journal, 21.

Al-Futaisi, A., Jamrah, A., Al-Rawas, A. and Al-Hanai, S. (2007) "Adsorption capacity and mineralogical and physico-chemical characteristics of Shuwaymiyah palygorskite (Oman)." Journal of Environmental Geology, 51(8).

Jamrah, A., Al-Futaisi, A., Hassan, H. and Al-Oraimi, S. (2007) "Petroleum contaminated soil in Oman: evaluation of bioremediation treatment and potential for reuse in hot asphalt mix concrete." Environmental Monitoring and Assessment, 124.

Al-Futaisi, A., Jamrah, A., Yaghi, B. and Taha, R. (2007) "Assessment of alternative management techniques of tank bottom petroleum sludge in Oman." Journal of Hazardous Materials, 141.

Abu-Ghunmi, L. and Jamrah, A. (2006) "Biological treatment of textile wastewater using sequencing batch reactor technology." Environmental Modeling and Assessment, 11.

Jamrah, A., Al-Omari, A., Al-Qasem, L., and Abdel Ghani, N. (2006) "Assessment of Availability and Characteristics of Greywater in Amman." Water International, 31(2).

Jamrah, A., Al-Omari, A., and Sharabi, R. (2006) "Evaluation of Traffic Noise Pollution in Amman, Jordan." Environmental Monitoring and Assessment, 120.

Prathapar, S., Jamrah, A., Ahmed, M., Al-Adawi, S., Al-Sidiri, S., and Al-Harassi, A. (2005) "Overcoming Constraints in Treated Greywater Reuse in Oman." Desalination, 186.

Jamrah, A. and Abu-Ghunmi, L. (2005) "One independent variable rate equation describing utilization of biodegradable organic matter in activated sludge processes." Environmental Modeling and Assessment, 10.

Al-Omari, A. and Jamrah, A. (2005) "Calibration of Hazen-Williams coefficients in pipe networks using tracers." Journal of Water Supply Research and Technology, 54(5).

Bani Hani, A., Jamrah, A., and Tarawneh, S. (2005) "A Statistical Approach for the Analysis and Forecasting of Water Quantity and Quality in King Talal Reservoir." Dirasat, Engineering Sciences, 32(2).

Jamrah, A. and Al-Bakri, S. (2004) "Applicability of Sequencing Batch Reactor Treatment to Jordanian Domestic Wastewater." Dirasat, Engineering Sciences, (31)2.

Al-Zoubi, M. A. and Jamrah, A.I. (2001) "Coagulation Enhancement for Removal of Trihalomethane Precursors." Dirasat, Engineering Sciences, 28 (2).

Jamrah, A.I. (2000) "An Overview and Assessment of the Jordanian Experience in the Field of Water and Wastewater Treatment." Environmental and Sanitary Engineering Research, 14 (3).

Jamrah, A.I. (1999) "Assessment of Characteristics and Biological Treatment Technologies of Jordanian Wastewater." Bioprocess Engineering, 20 (8).

Jamrah, A.I. and Kayyali, M. (1999) "Common Pathogens in Municipal Wastewater Treatment Plants." International Journal of Environmental Health Research, 9 (4).

Jamrah, A.I. (1999) "Evaluation of Performance and Significant Chemical Species and Constituents and by-products in Drinking Water Treatment." Dirasat, Engineering Sciences, 26 (1).

Hassouneh, O., Jamrah, A., and Qaisi, K. (1999) "Sludge Stabilization by Composting: a Jordanian Case Study." Bioprocess Engineering, 20 (5).

Dentel, S.K., Jamrah, A.I., and Sparks, D.L. (1998) "Sorption and Cosorption of 1,2,4-Trichlorobenzene and Tannic Acid by Organo-Clays." Water Research, 32 (12).

Abu-Orf, M. and Jamrah, A. (1995) "Biosolids and Sludge Management." Water Environment Research, 67(4).

Manssour, A.R., Jamrah, A.I., and Shahalm, A.B. (1992) "Drag Reduction by a Chemical Additive in Sanitary Sewers." International Journal of Engineering Fluid Mechanics. 5(4).

BOOK CHAPTERS

Dentel, S.K., Jamrah, A.I., and Stapleton, M.G.(1994) "Organoclay Sorbents for Selective Removal of Organics from Water and Wastewater." Chapter in: Handbook of Process Engineering for Pollution Control and Waste Minimization, D.L. Wise and D.J. Trantolo, eds.

CONFERENCE PAPERS

Badran, M., Jamrah, A., and Gaese, G. "Assessment of a cost-covering sanitation tariff for Alexandria/Egypt." *Proceedings of the First Water and Environment International Conference, October 26-29, 2011, Marrakech, Morocco.*

Jamrah, A., Abu-Rumman, M., Abdelhadi, N. and Odeh, O. "Establishing the per capita wastewater pollutant loads and discharge rate in Jordan." *Proceedings of the International Conference: Technologies for Industrial Wastewater Treatment and Reuse in the Miiterranean Region, June 24-26, 2007, Jerba, Tunisia.*

Jamrah, A., Al-Futaisi, A. and Al-Yarubi, S. (2006) "Combined Approach of GIS and DRASTIC Modeling To Assess Groundwater Vulnerability in the Costal Region of Oman." *Proceedings of the 8th Highway and Urban Environment Symposium, June 12-14, 2006, Nicosia, Cyprus.*

Hassan, H., Al-Rawas, A., Taha, R., Al-Futaisi, A. And Jamrah, A. (2006) "Use of Petroleum-Contaminated Soil in Hot Mix Asphalt Concrete." *Proceedings of the Third Gulf Conference on Roads, March 6-8, 2006, Muscat, Sultanate of Oman.*

Al-Futaisi, A. and Jamrah, A. (2005) "Characterization of Shuwaymiyah Attapulгите an its Potential as an Alternative Sorbent in Oman." *Proceeding sof the Seventh Gulf Water Conference, November 19-23, 2005, State of Kuwait.*

Al-Futaisi, A. and Jamrah, A. (2005) "Evaluation of the Potential of Using an Omani Clay Mineral as a Sorbent in Treatment of Contaminated Water." *Proceeding sof the Ninth International Water Technology Conference, March 17-29, 2005*, Sharm Al-Sheik, Egypt.

Jamrah, A., Al-Futaisi, A., Prathapar, S., Ahmed, M., and Al-Harrasi, A. (2004) "Evaluating Greywater Reuse Potential for Sustainable Water Resources Management in the Sultanate of Oman." *Proceedings of the International Water Demand Management Conference, May 30-June 2, 2004*, Dead Sea, Jordan.

Jamrah A.I., Futais, A.A., Harrasi, A.K., and Qasem, L.H. (2003) "Assessment of Greywater Characteristics and Potential for Reuse in Agriculture." *Proceedings of the 43rd Annual Science Week Conference on Water Science and Technology*; October 18-21, 2003, Damascus, Syria.

Jamrah A.I. and Abu-Tarbush, M. (2001) "Enhancing Biological Treatment of Textile Wastewater Using Powdered Activated Carbon." *Proceedings of the Seventh International Conference on Environmental Science and Technology; September 2-6, 2001*, Syros, Greece.

Jamrah A.I. (1999) "Investigation of Selected Water Quality Parameters Affecting Reuse of Water." *Proceedings of the Sixth International Conference on Environmental Science and Technology; August 30-September 2, 1999*, Samos, Greece.

Jamrah, A.I. and Dentel, S.K. (1994) "Removal of Hydrophobic Organic Compounds from Wastes Containing Natural Organic and Inorganic Matter." *Proceedings of the 49th Annual Purdue Industrial Waste Conference, May 9-11, 1994*, West Lafayette, Indiana, USA.

Jamrah, A.I. and Dentel, S.K. (1993) "Application of Organo-Clays to Water Treatment: Selective Removal of Trichlorophenol." *Proceedings of the 1993 Annual Conference of the American Water Works Association, June 6-10, 1993*, San Antonio, Texas, USA.

Jamrah, A.I. and Dentel, S.K. (1993) "The Mechanisms of Exchange Reactions Occurring Between Sodium Montmorillonite and Various Quaternary Amine Salts." *Proceedings of the 1993 Joint CSCE-ASCE National Conference On Environmental Engineering, July 12-14, 1993*, Montreal, Canada.

Jamrah, A.I. and Dentel, S.K. (1993) "Selective Removal of Organic Pollutants by Surfactant Modified Clays." *Proceedings of the 1993 Joint CSCE-ASCE National Conference On Environmental Engineering, July 12-14, 1993*, Montreal, Canada.

Jamrah, A.I. and Dentel, S.K. (1992) "Use of Modified Clays for Water Treatment Purposes." *Presented at the 44th Annual Meeting of the Chesapeake Section of the American Water Works Association, September 10-12, 1992*, Ocean City, Maryland, USA.