

Publications:

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King Saud University, P O Box 800, Riyadh 11421, Saudi Arabia).

- 1- Halpern,B,Al-Mutaz,I.S.,and Douyon,L., "Thermionic Emission From Platinum in Hydrocarbon Flows at Low Pressure" J. Applied Physics 52, 5315, 1981.
- 2- Al-Mutaz,I.S., "Hazard of Air Pollution Caused by The Internal Combustion Engines and Methods of Reduction", 5th Symposium of Industrial Safety, Abha, Saudi Arabia, Oct. 6-9, 1985. (Arabic) Published in Arab Journal for Science 4(8),69, 1986.
- 3- Al-Mutaz,I.S., "Improvement of Groundwater by Reverse Osmosis process" Water Resources and Management Conference in Qassim, King Saud University (Qassim branch) Saudi Arabia, March 31 - April 2, 1986. (Arabic) Published in Arab Journal for Science 4(12),71, 1988.
- 4- Al-Mutaz,I.S., "Recent Trend to Reverse Osmosis for Water Desalination in Saudi Arabia" First International Conference on Separation Science and Technology, New York, USA, April 13-18, 1986.
Published in "Chemical Separations ",vol. 1, edited by C.J.King and J.D.Navaratil, Litarvan Literature, Colorado, USA, 1986.
Summary of this paper was highlighted in Membrane and Separation Technology News 4(10), 14, 1986.
And also in Chemical And Engineering News 64(18),39, May 5,1986.
- 5- Halpern,B., and Al-Mutaz,I.S., "Chopped Fast Flow Technique For Transient Surface Reaction Rate Measurements Carbon Deposition and Oxidation on Hot Pt", 9th International Symposium on Chemical Reaction Engineering, Philadelphia, USA, May 18-21, 1986. Published in Chemical Eng. Science 41(4), 899, 1986.
- 6- Al-Mutaz, I.S., and Al-Fariss,T.F.,"Impact of Lead Phasedown on Saudi Refineries", Hydrocarbon Processing 65, 66B, May 1986.
- 7- Al-Mutaz, I.S., "Public Cleanliness As a Deterrent to the Pollution of the Environment", City Cleaning with the Framework of Environment Protection: Second Seminar, Cairo, Egypt, Sept. 21-26, 1986. (Arabic/ translated into English)
- 8- Al-Mutaz,I.S., "Control of Automotive Emissions", Symposium on Environment Protection in the Arabian Gulf, Kuwait, Oct. 25-28, 1986. (Arabic)

- 9- Al-Mutaz,I.S., Abdulaleem.F.A., El-Nahlawi,T.,and ElDahshan,M.E, "The Hazard of Pollution Caused by Ionized Radiation" 6th Symposium of Industrial Safety, Yanbu, Saudi Arabia, Oct. 26-29, 1986. (Arabic)
- 10- Wagialla,K.M., Al-Mutaz,I.S., and El-Dahshan, M.E, "The Manufacture of Soda Ash in the Arabian Gulf", 1st Conference of Indigenous Raw Materials and their Industrial Utilization in the Gulf Region, Kuwait, Nov. 1-4, 1986.
- 11- El-Dahshan,M.E., Wagialla,K.M, and AlMutaz,I.S., "The Production of Alumina from Saudi Bauxite Ores", 1st Conference on Indigenous raw Materials and their Industrial Utilization in the Gulf Region, Kuwait, Nov. 14, 1986.
- 12- Al-Mutaz,I.S., "Catalysis used in Oil Refineries", Symposium of Catalysis in the Chemical and Petroleum Industry, Doha, Qatar, Dec. 20-22, 1986. (Arabic)
- 13- Al-Mutaz,I.S.,and Al-Ubaid,A.S, "The Role of Catalysis in the Manufacturing of MTBE", Symposium of Catalysis in the Chemical and Petroleum Industry, Doha, Qatar, Dec. 20-22, 1986. (Arabic)
- 14- Al-Mutaz,I.S., "Power Stations And The Environment", Environmental Issues No 29, Kuwait Environmental Protection Society, Kuwait, Feb. 1987. (Arabic: small Booklet 35 pages)
- 15- Al-Mutaz,I.S., "Chemistry of Gasoline Combustion and Its Role on Air Pollution", The 2nd National Meeting of Chemist, College of Science, King Saud University, Riyadh, Saudi Arabia, March 7-9, 1987.
- 16- Al-Mutaz,I.S., "Power Stations and the Environment", First Symposium on Electric Power Systems in Fast Developing Countries, College of Engineering, King Saud University, Riyadh, March 21-24, 1987.
- 17- Al-Mutaz,I.S., "Saudi MTBE Plant and Its Role in The Lead Phasedown in The Country", Energy Progress 7(1), 18, (March) 1987.
- 18- Al-Mutaz, I.S., Al-Fariss,T.F., and Al-Habdan,F.M., "An Assessment of Sulphur Recovery at Riyadh Refinery", British Sulphur's 11th International Conference, Sulphur 87, Houston, Texas, April 5-8, 1987.
- 19- Al-Mutaz, I.S., and Al-Farraj,M.M., "Environmental Pollution From Agriculture Activities", Tenth Symposium on The Biological Aspects in Saudi Arabia, Saudi Biological Society, Meteorology and Environmental Protection Administration, Jeddah, April 20-24, 1987.

- 20- Al-Mutaz, I.S., "The Role of Industrial Pollution on Deterioration of Environmental Balance", Tenth Symposium on The Biological Aspects in Saudi Arabia, Saudi Biological Society, Meteorology and Environmental Protection Administration, Jeddah, April 20-24, 1987.
- 21- Al-Mutaz, I.S., "Improvement of Underground Waters For Human and Agriculture Uses", Agriculture and Water Journal, 3(5), 34, April 1987. (Arabic).
- 22- Al-Mutaz, I.S., "Environmental Impact of Seawater Desalination Plants", 7th International Symposium on Environmental Pollution, Toronto, Canada, June 11-12, 1987.
- 23- Al-Mutaz, I.S., "Air Pollution Problem at Riyadh Refinery", Air Pollution Control Association Annual Meeting, New York, June 22-26, 1987.
- 24- Al-Mutaz, I.S., "Chemistry of Sulphur Production From Oil Refineries", Asian Chemical Congress 87 Seoul, The Korean Chemical Society, Seoul, Korea, June 29-July 3, 1987.
- 25- Al-Mutaz, I.S., "Simple Design Model For Reverse Osmosis Process", International Conference on Modeling and Simulation, Karlsruhe, West Germany, July 20-22, 1987.
- 26- Al-Mutaz, I.S., "CO, Particulates, Lead Levels in the Indoor Environment in Riyadh, Saudi Arabia", The 4th International Conference on Indoor Air Quality and Climate, Berlin(West), August 17-21, 1987.
- 27- Al-Fariss, T.F., and Al-Mutaz, I.S., "Possible Utilization of Solar Energy in Saudi Arabia", ISES Solar World Congress 87, Hamburg, Germany, Sept. 13-18, 1987.
- 28- Al-Mutaz, I.S., "By-Products Recovery from Saudi Desalination Plants", Desalination 64, 97, 1987.
Also presented in the 3rd World Congress on Desalination and Water Reuse, Cannes, France, Sept. 14-17, 1987.
- 29- Al-Mutaz, I.S., "Water Resources Development in Riyadh, Saudi Arabia", Desalination 64, 193, 1987.
Also presented in the 3rd World Congress on Desalination and Water Reuse, Cannes, France, Sept. 14-17, 1987.
- 30- Al-Mutaz, I.S., "The Effect of the Accumulation of Carbon Dioxide in the Elevation of Atmospheric Temperature", Journal of Islamic Capitals and Cities, No. 9, p73, Sept. 1987. (Arabic)

- 31- Al-Mutaz,I.S., "Automotive Emission Problem in Saudi Arabia", Environment International 13, 335, 1987.
- 32- Al-Mutaz,I.S., "Recent Trends on Desalination of Sea Water", Agriculture and Water Journal 3(6), 46, November 1987. (Arabic).
- 33- Al-Mutaz, I.S., "Techno-economic Studies on the Production of Magnesia and Magnesium from Al-Jubail Desalination Rejected Brine", Workshop on Production of Magnesia and Magnesium, Gulf Organization for Industrial Consulting, Dec. 2, 1987. (Arabic)
- 34- Al-Mutaz, I.S., and Al-Zahrani,S.A., "Production of Automobile Alternative Fuel From Agricultural Wastes in Saudi Arabia, 8th Miami International Conference on Alternative Energy Sources, Miami, Florida, USA, Dec. 14-16, 1987.
- 35- Al-Mutaz, IS., "Guidelines For The Use of Thermionic Emission as an Automotive Emission Sensor", Indian Chemical Engineering Congress 87, 40th Annual Session of the Indian Institute of Chemical Engineers, Dhanbad, India, Dec. 19-22, 1987.
- 36- Al-Fariss,T.F., and Al-Mutaz,I.S., "Fertilizer Industry in The Arabian Gulf Countries", Indian Chemical Engineering Congress 87, 40th Annual Session of the Indian Institute of Chemical Engineers, Dhanbad, India, Dec. 19-22, 1987.
- 37- Al-Mutaz, I.S., "Pollution at Oil Refineries and Methods of Control", Journal of Industrial Cooperation in the Arabian Gulf, 8(31), 40, Jan 1988. (Arabic)
- 38- Al-Mutaz, I.S., "Utilization of Treated Wastewater in Riyadh, Saudi Arabia", International Conference on Air/Water and Environmental Pollution and Hazardous Wastes, Bombay, India, Feb. 11-12, 1988.
- 39- Al-Mutaz,I.S., Al-Fariss,T.F., and Abdullah,A.I, Production of Lead-Free Gasoline From Riyadh Refinery", Transaction of Egyptian Society of Chemical Engineers(TESCE), vol. 14,1988.
Also presented at the Third Chemical Engineering Congress, Egyptian Engineering Society, Cairo, March 19-21, 1988.
- 40- Al-Mutaz, I.S., and Al-Farraj, M.M, "Mechanism of Ozone Destruction and its Environmental Impact", 11th Symposium on the Biological Aspects in Saudi Arabia, Yanbu, May 30 - June 2, 1988.
- 41- Al-Mutaz,I.S., and Al-Farraj,M.M., "Formation and Destruction of Ozone in Polluted Atmosphere", 11th Symposium on the Biological Aspects in Saudi Arabia, Yanbu, May 30 - June 2,1988.

- 42- Al-Mutaz, I.S., "Major Sources of Air Pollution in Riyadh, Saudi Arabia", 81st Annual Meeting of Air Pollution Control Association, Dallas, Texas, USA, June 20-24, 1988.
- 43- Al-Mutaz, I.S., "Liquid and Solid Wastes in Riyadh and Jeddah", Arabian City Journal, No 32, July 1988. (Arabic)
- 44- Al-Mutaz, I.S., "Monitoring Combustion Completeness- A Review", Journal of Engineering Science, King Saud University, 14(2), 199, 1988.
- 45- Al-Fadli, A.M., Soliman, M.A., Wagiala, K.M., and Al-Mutaz, I.S., "A Network Model For The Optimal Planning Of The Saudi Petrochemical Industry", Journal of Engineering Science, King Saud University, 14(2), 1988.
- 46- Al-Mutaz, I.S., and Wagiala, K.M., "Techno-economic Feasibility of Extracting Minerals from Desalination Brines", Desalination 69(3), 297, 1988.
- 47- Fadli, A.M., Soliman, M.A., Wagiala, K.M., and Al-Mutaz, I.S., "Optimal Resources Allocation and Processing for the Saudi Petrochemical Industry", Process Economics International 7, 22, 1988.
- 48- Al-Mutaz, I.S., "Solid Wastes from Oil Refineries", Symposium on Utilization of Industrial Wastes, Baghdad, Iraq, Nov. 6-10, 1988. (Arabic)
- 49- Al-Mutaz, I.S., "Oscillation in Carbon Oxidation on Platinum Surface", International Conference on Advances in Chemical Engineering, Kanpur India, Jan. 4-6, 1989.
- 50- Al-Mutaz, I.S., "Water Budget for the Kingdom of Saudi Arabia", The First Saudi Symposium on Earth Sciences, King Abdul-Aziz University, Jeddah, Jan 28-30, 1989.
- 51- Al-Mutaz, I.S., "Production and Utilization Development of Natural Gas in Saudi Arabia", The First Saudi Symposium on Earth Sciences, King Abdul-Aziz University, Jeddah, Jan 28-30, 1989.
- 52- Al-Mutaz, I.S., "Potential Pollution from Petrochemical Industry", The Third National Meeting of Chemist, King Fahd University of Petroleum and Minerals, Dhahran, March 12-14, 1989. (Arabic)
- 53- Al-Mutaz, I.S., "Removal of Gaseous Pollutants in a Wet Atmosphere", The Third National Meeting of Chemist, King Fahd University of Petroleum and Minerals, Dhahran, March 12-14, 1989.
- 54- Al-Mutaz, I.S., "Present and Future Prospect of Saudi Petrochemical Industry", The fifth Scientific Conference of the Scientific Research Council, Baghdad, Iraq, April 28- May 2, 1989.

- 55- Al-Mutaz,I.S., "Techno-Economic Study of Solar Desalination", The fifth Scientific Conference of the Scientific Research Council, Baghdad, Iraq, April 28- May 2, 1989. (Arabic)
- 56- Al-Mutaz,I.S., "The Role of Automobile Inspection Program in Reducing Automotive Emissions in Saudi Arabia", 82nd Annual Meeting of Air Pollution Control Association, Anaheim, California, USA, June 25-30, 1989.
- 57- Al-Mutaz,I.S., "A Simple Method for the Estimation of Deposited Carbon Thickness", The Arabian Journal of Science and Engineering, King Fahd University of Petroleum and Minerals, 14, 1989.
- 58- Al-Mutaz,I.S., "Pollution in Agriculture Environment", Environmental Issue # 35, Environmental Protection Society, Kuwait, May 1989.(Book in Arabic)
- 59- Al-Mutaz,I.S., "Future Prospect of Seawater Desalination in the Arabian Gulf Countries", Science and Technology 17,216, July 1989.
- 60- Al-Mutaz,I.S., "Feedstock Limitations in Saudi Arabian Petrochemical Plants Dictate Products", Oil and Gas Journal, Sept. 4, 1989.
- 61- Al-Mutaz,I.S., "Treated Waste Water As a Growing Water Resources For Agriculture Use", Desalination 73, 27, 1989.
4th World Congress on Desalination and Water Reuse, Kuwait, Nov. 48, 1989.
- 62- Al-Mutaz,I.S., and Al-Ahmed,M.I., "Evaluation of Solar Powered Desalination Processes", Desalination 73, 181, 1989.
4th World Congress on Desalination and Water Reuse, Kuwait, Nov. 48, 1989.
- 63- Al-Mutaz,I.S., Soliman,M.A., "Simulation of MSF Desalination Plants", Desalination 74, 317, 1989.
4th World Congress on Desalination and Water Reuse, Kuwait, Nov. 48, 1989.
- 64- Al-Zahrani,A.E.S., Soliman,M.A., and Al-Mutaz,I.S., "An Approximate Analytical Solution for Performance of Reverse Osmosis Plants" Desalination 75, 15, 1989.
4th World Congress on Desalination and Water Reuse, Kuwait, Nov. 48, 1989.
- 65- Al-Mutaz,I.S., Soliman,M.A., and Daghthem,A.M., "Optimum Design for a Hybrid Desalting Plant", Desalination 76, 177, 1989.
4th World Congress on Desalination and Water Reuse, Kuwait, Nov. 48, 1989.
- 66- Al-Mutaz,I.S., "Air Pollutants Transport and Diffusion", 12th Symposium on the Biological Aspects in Saudi Arabia, King Saud University, Riyadh, Dec. 19-21, 1989.

- 67- Al-Mutaz,I.S., Al-Fariss,T.F., and Abd El-Aleem,F.A., "Hydrogen Production From Sea Water", the First Saudi Symposium on Energy, Utilization and Conservation, King Abdulaziz University, Jeddah, March 4-7, 1990.
- 68- Al-Fariss,T.F., Al-Mutaz,I.S., and Abd El-Aleem,F.A., "Nuclear Energy Utilization and Solar Energy Application in Hydrogen Production", the First Saudi Symposium on Energy, Utilization and Conservation, King Abdulaziz University, Jeddah, March 4-7,1990.
- 69- Al-Mutaz,I.S., "Energy Utilization from Domestic Wastes", the First Saudi Symposium on Energy, Utilization and Conservation, King Abdulaziz University, Jeddah, March 4-7, 1990.
- 70- Al-Mutaz,I.S., "Energy Conservation in Seawater Desalination Plants", the First Saudi Symposium on Energy, Utilization and Conservation, King Abdulaziz University, Jeddah, March 4-7,1990.
- 71- El-Dahshan,M.E., and Al-Mutaz,I.S., "Selection of the suitable Material in Industrial Field As a mean of Successful Maintenance", Symposium on Maintenance Planning and Operation, College of Engineering, King Saud University, Riyadh, March 17-19, 1990.
- 72- Al-Mutaz,I.S., " A Simple Technique for Optimizing Automobile Engine Operation to Reduce Emission and Maintain Efficiency", 83rd Annual Meeting of Air Pollution Control Association, June 26, 90.
- 73- Al-Mutaz,I.S., "Hydrogen Recovery in Oil Refinery by Selective Membrane Separation Processes", AIChE Summer Meeting, San Diego, California, USA, Aug. 19, 1990.
- 74- Al-Mutaz,I.S., and Wagialla,K.M, "Production of Magnesium from Desalination Brines", Resources, Conservation and Recycling Journal, vol. 3, 231, 1990.
- 75- Al-Mutaz,I.S., "Estimation of the probability of Methane Decomposition On Hot Platinum Surface by Thermionic Emission", Arab Gulf J Scientific Res. 8,(3), 51, 1990.
- 76- Al-Mutaz,I.S., and Al-Farraj, M.M, " Mechanism of Ozone Destruction and Its Environmental Impact", Tropical Ecology 31(2), 1, 1990.
- 77- Al-Fariss,T.F., Al-Mutaz,I.S., and Al-Shamrani, "Modification of Darcy's Law", Science International 2, 341, 1990.

- 78- Al-Mutaz,I.S, "Environmental Impact of seawater Desalination Plants", Environmental Monitoring and Assessment Journal, vol. 16, 75, 1991.
- 79- Al-Ahmad,M.I and Al-Mutaz,I.S, "Techno-Economic Study of Re Refining Waste Lubricating Oils in the Arabian Gulf Countries", Resource' Conservation and Recycling 6, 71, 1991.
- 80- Al-Mutaz,I.S., "Removal of Gaseous Pollutants in Wet Atmosphere", Journal of King Saud University, Vol. 4, Engineering Science (1), 47, 1992.
- 81- Wagialla,K.M, Al-Mutaz,I.S. and El-Dhshan,M.E., "The Manufacture of Soda Ash in the Arabian Gulf", International Journal of Production Economics 27, 145, 1992.
- 82- Al-Fariss,T.F., Fakeeha,A.H., Al-Mutaz,I.S and Al-Shamrani,A.M., "Viscosity Correlation for Non-Newtonian Waxy Oils" Journal of King Abdulaziz University - Engineering Science 4, 91, 1992.
- 83- Wagialla,K.M., and El-Dahshan,M.E. and Al-Mutaz,I.S., "Techno Feasibility of a Modified Bayer Hydrochloric Acid Leaching Method for extraction of Alumina from Bauxite Ores", Submitted for publication in Chemical Review and Production Economic.
- 84- Al-Mutaz,I.S., Soliman,M.A. and Al-Zahrani,A.E.S, "Modeling and Simulation of Hollow Fine Fiber Modules with Radial Dispersion: Model Simplification", Submitted for publication in Desalination Journal.
- 85- Al-Mutaz,I.S., Soliman,M.A. and Al-Zahrani,A.E.S, "Modeling and Simulation of Hollow Fine Fiber Modules with Radial Dispersion: Parametric Sensitivity Study", Submitted for publication in Desalination Journal.
- 86- Faheeha,A.H., Abdelaleem,F.A., Al-Fariss,T.F, Al-Mutaz,I.S. and Idriss,A.I., "The Application of Electro-Chemical Impedance Spectroscopy in Porous Electrode - Studies for Hydrogen Evolution", the 182nd Meeting of the Electro-chemical Society, Toronto, Canada, October 11-16, 1992.
- 87- Faheeha,A.H., Abdelaleem,F.A., Al-Fariss,T.F, Al-Mutaz,I.S. and Idriss,A.I., "Electrochemical Characterization of Porous Nickel Electrodes for Hydrogen Performance", the 182nd Meeting of the Electro-chemical Society, Toronto, Canada, October 11-16, 1992.

- 88- Fakeeha,A.H., Al-Fariss,T.F., Al-Mutaz,I.S., Abdel Aleem,F.A. and Idriss,A.I, "Electrochemical Impedance Analysis of the Hydrogen Evolution Reactions on Gas Diffusion Electrode in Alkaline Solution at Various Temperature" The 183rd Meeting of the Electrochemical Society, Honolulu, Hawaii, USA, May 16-21, 1993.
- 89- Al-Mutaz,I.S, Al-Fariss,T.F, Fakeeha,A.H, Abdel Aleem,F.A. and Idriss,A.I, "The Performance of a Flow Electrolyzer System for Hydrogen Production", The 44th Meeting of International Society of Electrochemistry, Berlin, Germany, Sept. 5-10,1993.
- 90- Al-Mutaz,I.S., "Dispersion of Air Pollutants in Riyadh Refinery Sulphur Incinerator" , Industrial Air Pollution Symposium, College of Engineering, King Saud University, Riyadh, Nov. 15-17, 1993.
- 91- Al-Mutaz,I.S, "Removal of Acid Gas from Natural Gas by Selective Membrane Process", Accepted for publication in Journal of King Saud University [Engineering Science] vol. 7 no 2.
- 92- Al-Mutaz,I.S., " Evaluation of Energy Recovery In Reverse Osmosis Desalination Plants", Symposium on Desalination Processes in Saudi Arabia, College of Engineering, King Saud University, Riyadh, Saudi Arabia, June 4-6,1994.
- 93- Al-Mutaz,I.S., "Operation of Dual MSF Desalination Plants at Water/Power Peak Demand", Symposium on Desalination Processes in Saudi Arabia, College of Engineering, King Saud University, Riyadh, Saudi Arabia, June 4-6, 1994.
- 94- Al-Mutaz,I.S., "A Comparative Study of RO and MSF Desalination Plants in Saudi Arabia", The International Specialist Conference on Desalination and Water Reuse, Murdoch University, Perth, Western Australia, Dec. 1-2, 1994.
- 95- Alabdulaaly,A.I., El-Rehaili,A.M., and Al-Mutaz,I.S., "Performance Evaluation of Water Treatment Plants in Riyadh Using Pilot Plants Studies", The Fourth Saudi Engineering Conference, Faculty of Engineering, King Abdulaziz University, Jeddah, Nov. 5-8,1995.
- 96- El-Rehaili,A.M., Alabdulaaly,A.I., and Al-Mutaz,I.S., "Evaluation of Chemical Treatment at Riyadh Water Treatment Plants", The Fourth Saudi Engineering Conference, Faculty of Engineering, King Abdulaziz University, Jeddah, Nov. 5-8,1995.

- 97- Al-Suliman, K, Al-Mutaz,I.S., and Alabdulaaly,A.I., "Prospects of Nuclear Desalination", IDA World Congress on Desalination and Water Sciences, Abu Dhabi, United Arab Emirate, Nov. 18-12, 1995.
- 98- Al-Mutaz,I.S., and Alabdulaaly,A.I., "Evaluation of Water Production Cost in RO and MSF Plants in Saudi Arabia", IDA World Congress on Desalination and Water Sciences, Abu Dhabi, United Arab Emirate, Nov. 18-12, 1995.
- 99- Al-Mutaz,I.S., "How to Implement a Gasoline Pool Lead Phase-out", Hydrocarbon Processing 75(2), 63, Feb. 1996.
- 100- Fakeeha,A.H., Abdelaleem,F.A, Al-Fariss,T.F, Al-Mutaz,I.S and Idress,A., "The Application of the Electrochemical Impedance Spectroscopy in Hydrogen Evolution Electrodes", the 11th World Hydrogen Energy Conference, Stuttgart, Germany, June 23-28, 1996.
- 101- Fakeeha,A.H., Abdelaleem,F.A, Al-Fariss,T.F, Al-Mutaz,I.S and Idress,A., "The Performance and Characteristics of a Flow Electrolyzer System for Solar Hydrogen Production in Riyadh City", the 11th World Hydrogen Energy Conference, Stuttgart, Germany, June 23-28, 1996.
- 102-Al-Mutaz,I.S., Al-Koryshy,A.S.F., and Al-Seghayer,Y.S., "Effect of Temperature and Oxygen Concentration on the Three Way Catalyst" The Fifth World Congress of Chemical Engineering, AIChE, San Diego, California, USA, July 14-18, 1996.
- 103- Al-Mutaz, I.S. and Al-Sultan,B., "Prediction on Performance of RO Desalination Plants", The Third Gulf Water Conference, Muscat, Oman, March 8-13, 1997.
- 104-Al-Mutaz,I.S., Al-Koryshy,A.S.F., and Al-Seghayer,Y.S., "Performance of the Three Way Catalyst" The Arabian Journal for Science and Engineering, 22 (1B), 41, April 1997.
- 105- Al-Mutaz, I.S., "Nuclear Desalination Opportunity In The Arabian Gulf Countries", Expert Meeting on User Requirement of Nuclear Desalination Systems in the Arabian Gulf and North Africa Regions, The Arab Atomic Energy Agency, Cairo, Egypt, April 2-5, 1997.
- 106- Al-Mutaz, I.S., "Nuclear Desalination Implementation in Saudi Arabia", The 1997 Symposium on Prospects for Desalination with Nuclear Energy, Taejon, Korea, May 26-30, 1997.

- 107- Al-Mutaz,I.S., and Al-Fariss,T.F., Optimum Gasoline Production in Riyadh Refinery by Linear Programming , Oil and Gas (European Magazine) 23(2) June 1997.
- 108- Al-Mutaz, I.S., Gaseous Emissions, Its Role in Air Pollution and Methods of Control, Keynote Speak, Conference on Development & Environmental Impact, Ministry of Municipal and Rural Affairs, Deputy Ministry for Technical Affairs, Riyadh, Sept. 21-23, 1997. (Arabic)
- 109- Al-Mutaz, I.S., Air Pollution Hazard at Oil Refineries, Keynote Speak, Conference on Development & Environmental Impact, Ministry of Municipal and Rural Affairs, Deputy Ministry for Technical Affairs, Riyadh, Sept. 21-23, 1997. (Arabic)
- 110- Al-Mutaz, I.S. and Al-Sultan,B., Operation Characteristics of Manfouha Reverse Osmosis Plants The IDA World Congress on Desalination and Water Reuse, Madrid, Spain, October 6-9,1997.
- 111- Al-Mutaz,I.S., Soliman,M.A. and Al-Zahrani,A.E.S, "Modeling and Simulation of Hollow Fine Fiber Modules with Radial Dispersion: A Parametric Sensitivity Study", Desalination 110, 239, 1997.
- 112- Al-Mutaz,I.S., Soliman,M.A. and Al-Zahrani,A.E.S, "Simplified Model for Hollow fine Fiber Modules With Radial Dispersion, Journal of King Saud University (Engineering Science) 10, 115, 1998.
- 113- Al-Mutaz,I.S., The Growth of Oil Refinery Industry in Saudi Arabia, Conference on Saudi Arabia in 100 years, Jan. 24-28, 1999.
- 114- Al-Mutaz,I.S., "Development of Petrochemical Industry in Saudi Arabia", Journal of Engineering Science, King Saud University, 11, 1, 1999 (special issue).
- 115- Al-Mutaz,I.S., S.H.Al-Sugair and F.S. Al-Mutairi, Evaluation of Water Production Cost in Ground Water Treatment Plants, The Fourth Gulf Water Conference, Bahrain, Feb. 13-18, 1999. (Arabic)
- 116- Al-Mutaz,I.S., and Sami O.A. Al-Yousef, Lime Recovery from Riyadh Water Treatment Plants, The Fourth Gulf Water Conference, Bahrain, Feb. 13-18, 1999.

- 117- Al-Mutaz,I.S., Options for Production of unleaded Gasoline in Oil Refineries, The Fifth Saudi Engineering Conference, Umm Al-Qura University, Mecca, March 1-4, 1999.
- 118- Al-Mutaz,I.S., M. A. Al-Ghunaimi and S. A. Al-Busaili, pH Increase In Water Distribution Pipes, IDA World Congress on Desalination and Water Re-Use, San Diego, USA, Aug 29 to Sept 3, 1999.
- 119- Al-Mutaz,I.S., and I.A. Al-Anezi, Determination of Silica Scale Potential in Reverse Osmosis Pretreatment, , IDA World Congress on Desalination and Water Re-Use, San Diego, USA, Aug 29 to Sept 3, 1999.
- 120- Al-Mutaz,I.S., “The Continued Challenge of Capacity Building in Desalination”, EUROMED 2000, DESALINATION STRATEGIES IN THE SOUTHERN MEDITERRANEAN COUNTRIES Jerba, Tunisia, September 11-13, 2000.
- 121- Al-Mutaz,I.S., “Potential of Nuclear Desalination in the Arabian Gulf Countries”, International Congress on Seawater Desalination Technologies on the Threshold of the New Millennium, Kuwait, November 4 - 7, 2000.
- 122- Al-Mutaz,I.S., M. A. Al-Ghunaimi, Ali AlMutalq and Abdullah AlShaia, “Comparison of the Theoretical Calculated Chemical Dosing in Water Treatment Plants”, The Fifth Gulf Water Conference, Doha, Qatar, March 22-28, 2000. (Arabic).
- 123- Al-Mutaz,I.S., Abdillan AlHoqbani and Ali AlMutalq , “Solving The Cartridge Filter Clogging Problems in Buwaib Water Treatment Plant”, The Fifth Gulf Water Conference, Doha, Qatar, March 22-28, 2000. (Arabic).
- 124- Al-Mutaz,I.S. and Riyadh N. Furiji, “Production of unleaded Gasoline in Riyadh Oil Refinery”, 6th World Congress of Chemical Engineering, Melbourne, Australia, September 23-27, 2001.
- 125- Al-Mutaz,I.S. , “Use of a Simple Power Law Function to Estimate Fouling in the Plant Operations”, 6th World Congress of Chemical Engineering, Melbourne, Australia, September 23-27, 2001.
- 126- Al-Mutaz,I.S., M. A. Al-Ghunaimi, “pH Control in Water Treatment Plant by the Addition of Carbon Dioxide”, THE IDA WORLD CONGRESS ON DESALINATION AND WATER REUSE, BAHRAIN, OCTOBER 26 – 31, 2001.
- 127- Al-Mutaz,I.S., M. A. Al-Ghunaimi, “Performance of Reverse Osmosis Units at High Temperatures”, THE IDA WORLD CONGRESS ON DESALINATION AND WATER REUSE, BAHRAIN, OCTOBER 26 – 31, 2001.

- 128- R. Sheikholeslami, I.S. Al-Mutaz, T. Koo and A. Young, "Pretreatment and the effect of cations and anions on prevention of silica fouling", *Desalination* 139, 83-95, 2001.
- 129- R. Sheikholeslami, I.S. Al-Mutaz, S. Tan and S.D. Tan, "Silica Fouling - effect of Ca, Mg, and Pretreatment by Sodium Aluminate, and Softeners", 6th World Congress of Chemical Engineering, Melbourne, Australia, September 23-27, 2001.
- 130- I. S. Al-Mutaz and I. A. Al-Anezi "Silica Reduction In Reverse Osmosis Desalting Plants", the 6th Saudi Engineering Conference, King Fahd University of Petroleum and Minerals, Dhran, Saudi Arabia, December 14-17 2002.
- 131- I. S. Al-Mutaz, "Hybrid RO MSF: a Practical Option for Nuclear Desalination", *Int. J. of Nuclear Desalination*, Vol. 1 (1), 47-57, 2003.
International Wonuc Conferences, Nuclear Desalination: Challenges and Options, Marrakesh, Morocco, October 16 – 18, 2002.
- 132- I. S. Al-Mutaz, "Coupling of a Nuclear Reactor to Hybrid RO MSF Desalination Plants", *Desalination* 157, 259-268, 2003.
Desalination and the Environment: Fresh Water For All, the International Year of Fresh Water 2003, MALTA, MAY 4–8, 2003.
- 133- A. A. Hussain, I. S. Al-Mutaz and M.E. Abashar, "An Experimental Study for Treatment of Petroleum Refinery Effluents", International Conference on Chemistry and Industry, Future Trend for the Third Millennium, King Saud University, Riyadh, Nov 27- Dec 1, 2004.
- 134- Ibrahim S. Al-Mutaz and Ibrahim Ali Al-Anezi, "Silica Removal During Lime Softening in Water Treatment Plant", International Conference on Water Resources and Arid Environment 2004, King Saud University, Riyadh, Dec 5-8, 2004.
- 135- Ibrahim S. Al-Mutaz, "Coupling of a Nuclear Reactor to Hybrid RO MSF Desalination Plants", IAEA Technical Meeting, Integrated Nuclear Desalination System, Chennai, India, 13-16 December, 2004.
- 136- Ibrahim S. Al-Mutaz, "Hybrid RO MSF Desalination: Present Status and Future Perspectives", 2nd Forum on Water Desalination and Purification Technology Outlook for the Arab World & Non-Governmental Organizations Forum, University of Sharjah, Sharjah, United Arab Emirates, 8– 10 May, 2005.
- 137- Ibrahim S. Al-Mutaz, Abdullah M. Al-Namlah, "Characteristics of Dual Purpose MSF Desalination Plants", *Desalination* 166, 287-294, 2004.

- 138- Ibrahim S. Al-Mutaz, Abdullah M. Al-Namlah, "Characteristics of dual purpose MSF desalination plants", *Desalination* 166, 287-294, 2004.
- 139- Ibrahim S. Al-Mutaz¹ and Ibrahim Ali Al-Anezi, "Silica Removal During Lime Softening in Water Treatment Plant", Presented at International Conference on Water Resources Environment 2004, King Saud University, Riyadh, Dec 5-8, 2004.
- 140- Ibrahim S. Al-Mutaz¹, Mohammed A. Al-Ghunaimi², Ali A. Al-Mutlaq, "Design of RO Plants for Reclaiming of Treated Municipal Water", Presented at the Water & Wastewater Europe Conference, Barcelona, Spain, May 25-27, 2004.
- 141- Perspectives", 2nd Forum on Water Desalination and Purification Technology Outlook for the Arab World & Non-Governmental Organizations Forum, University of Sharjah, Sharjah, United Arab Emirates, 8– 10 May, 2005.
- 142- A.A. Hussain, M.E.E. Abashar, I.S. Al-Mutaz, "Influence of ion size on the prediction of nanofiltration membrane systems", *Desalination* 214 (1-3), 150-166, 2007.
- 143- A.A. Hussain, S.K. Nataraj, M.E.E. Abashar, I.S. Al-Mutaz, T.M. Aminabhavi, "Prediction of physical properties of nanofiltration membranes using experiment and theoretical models", *Journal of Membrane Science* 310 (1-2), 321-336, 2008.
- 144- N. Kabay, M. Bryjak, S. Schlosser, M. Kitis, S. Avlonitis, Z. Matejka, I. Al-Mutaz, M. Yuksel, "Adsorption-membrane filtration (AMF) hybrid process for boron removal from seawater: an overview", *Desalination* 223 (1-3), 38-48, 2008.