

Dr. Dheaya M. Al Rousan

Education	<ul style="list-style-type: none">• 2005 – 2009 PhD Degree in Nanotechnology/Chemical Engineering (thesis title: Solar Photocatalytic Disinfection of Water) funded by Vice Chancellors Research Studentships, University of Ulster, UK.• 1998 – 2001 M.Sc. Degree in Chemical Engineering (thesis title: Comparison between Biosorbents for the Removal of Heavy Metal Ions from Aqueous Solutions), Jordan University of Science and Technology, Jordan.• 1993 – 1998 B.Sc. Degree in Chemical Engineering, Jordan University of Science and Technology, Jordan.
Work Experience	<ul style="list-style-type: none">• June – September 2009, Research Associate, University of Ulster, United Kingdom.• June 2002 – August 2004, Operation Engineer, Jordan Petroleum Refinery Company, Jordan• October 2001 – June 2002, Production Manager, MEDMAC for Manufacturing Agricultural Chemicals and Veterinary Products Ltd. Jordan.• Sep 1998 - June 2001, Teacher and Research Assistance (chemical engineering), Jordan University of Science and Technology, Jordan.
Journals Publications	<ol style="list-style-type: none">1. Banat, F., Al-Asheh, S., and Al-Rousan, D., “<i>A Comparative Study of Copper and Zinc Adsorption onto Activated and Non-Activated Date-Pits</i>”, Adsorption Science and Technology, 20, 319 - 337, (2002).2. Banat, F., Al-Asheh, S., and Al-Rousan, D., “<i>Comparison between Different Keratin-Composed Biosorbents for the Removal of Heavy Metal Ions from Aqueous Solutions</i>” Adsorption Science and Technology, 20, 393 - 417, (2002).3. Al-Asheh, S., Banat, F., and Al-Rousan, D., “<i>Beneficial Reuse of Chicken Feathers in Removal of Heavy Metals from Wastewater</i>”, Journal of Cleaner Production, 11, 321 - 326, (2003).4. Al-Asheh, S., Banat, F., and Al-Rousan, D., “<i>Adsorption of Copper, Zinc and Nickel Ions from Single and Binary Metal Ion Mixtures on to Chicken Feathers</i>”, Adsorption Science and Technology, 20, 849 - 864, (2003).5. Alrousan, D., Dunlop, P., McMurray, T., Byrne, J., “<i>Photocatalytic inactivation of E. coli in surface water using immobilized nanoparticle TiO₂ films</i>”, Water Research, 43, 47-54, (2009).6. Byrne, J., Fernandez, P., Dunlop, P., Alrousan, D., Hamilton, J., “<i>Photocatalytic Enhancement for Solar Disinfection of Water: a Review</i>”, International Journal of Photoenergy, IJP/798051: Revised Version Accepted.

<p>Conferences publications</p>	<ol style="list-style-type: none"> 1. Byrne, J., Hamilton, J., McMurray, T., Dunlop, P., Donaldson, V., Rankin, J., Dale, G. and Alrousan, D., "<i>Titanium Dioxide Nanostructured Coatings: Application in Photocatalysis and Sensors</i>", The 9th Nanotech Conference, USA (2006). 2. Byrne, J., Dunlop, P., McMurray, T., Hamilton, J., Alrousan, D., Dale, G., "<i>Photocatalytic Water Treatment and Purification</i>", Nanotechnologies for Environmental Remediation, Italy (2007). 3. Alrousan, D., Dunlop, P., Fernandez, P., Byrne, J., "<i>Pilot Scale Solar Disinfection of Water Contaminated with E. Coli</i>", Irish Chemistry Researchers Colloquium, Ireland (2009). 4. Alrousan, D., Dunlop, P., Fernandez, P., Byrne, J., "<i>Solar Photolytic Disinfection of Water for Use in Developing Countries</i>" The 5th International Congress of Nano-Bio Clean Tech, USA (2008). 5. Dunlop, P., Alrousan, D., Polo, I., Fernandez, P., Byrne, J., "<i>Enhancing Solar Disinfection of Water for Application in Developing Regions</i>", 15th Health Related Water Microbiology Symposium, Greece (2009). 6. Alrousan, D., Dunlop, P., Fernandez, P., Byrne, J., "<i>Solar Photocatalytic Disinfection of Water for Developing Countries</i>", The international conference for Nano/Molecular Photochemistry and Nanomaterials for Green Energy Development Solar '10, Cairo (2010). 7. D. Alrousan, J. A. Byrne , P.S.M. Dunlop, P. Fernandez-Ibanez , E. Magee, C. Sheeran, "Photocatalytic Disinfection of Water and Surfaces", The 15th International Conference on. TiO₂ Photocatalysis: Fundamentals and Applications, USA (2010).
<p>Prizes</p>	<ul style="list-style-type: none"> • John Wiley & Sons Prize for the Best Literature Review 2006
<p>Memberships</p>	<ul style="list-style-type: none"> • Member of the Jordanian Engineering Association (JEA) • Member of the Royal Society of Chemistry (RSC) • Member of the Institution of Engineering and Technology (IET) • Member of the UK Semiconductor Photochemistry Network (UK-SPC) • Member of the European Photocatalysis Federation (EPF)