DR. KHALID MOHAMMED ALDAJANI

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EDUCATION

University of Strathclyde, Glasgow, UK

PhD Feb 2015

Thesis: Synthesis and characterisation of silica adsorption platforms for use in environmental remediation.

Loughborough University, Leicestershire, UK

Master degree (MSc)

September 2010

Thesis: Investigation Into the formation of Multi- Metal Ligand Complexes at high pH

King Saud University, Riyadh, Saudi Arabia

Bachelor degree Feb 2007

RESEARCH EXPERINCE

Research associate, King Saud University

April 2007 – August 2008

TEACHING EXPERIENCE

King Saud University, Riyadh, Saudi Arabia

Teaching assistant- "General Chemistry" Apr 2007 – Aug 2008

King Saud University, Riyadh, Saudi Arabia

Lecturer- "General Chemistry" Mar 2015 – Jun 2015

King Saud University, Riyadh, Saudi Arabia

Assistant Professor - "Material science" Since Jun 2015

RESEARCH INTERESTS

Designing and developing novel materials at the nanoscale level for on-demand application technologies, mainly those that can address current problems in the field of healthcare, environment, and energy.

PARTICIPATION IN FUNDED RESEARCH PROGRAMS

A principle investigator (PI) in a grant from king Abdelaziz city for science and technology in 2017 for one year titled with development of a colorimetric biosensor using gold nanoparticles and a DNA aptamer for the detection of vitamin D.

CONFERENCES:

- *Sensing in Water Conference*, Royal society of chemistry, held in Nottingham Belfry Hotel, Nottingham, 21st September 2011.
- *The 6th Saudi Scientific International Conference*, that was held in London, 11 October 2012.
- 12th International Conference on Materials Chemistry (MC12), Royal society of chemistry, that was held in York, 22 July 2015.

PROFESSIONAL TRAINING AND OTHER EXPERIENCE:

- Attending workshop entitled "Fundamentals and application of Nano Technology" presented by professor Mohammed Sami El-Shall that was held in chemistry department, king Saud university .18th May 2008.
- Attending a workshop entitled "professional developing diploma in project management for professional". March 2012.

- Working as operator for some instruments such as BET, ICP and SEM at Strathclyde university (2012-2013)
- Attending a workshop entitled "Question Writing Techniques" which was held by the Department of Professional Examinations at the headquarters of the National Centre for assessment in Higher Education. 11-12 Jan, 2017

COMMITTEES AND ADMINISTRATIVE ROLES:

- Head of the Graduate Studies Unit, College of Science, 2016-2017
- Analytical chemistry coordinator, department of chemistry, since 2018.
- Committee chairman of public relations and community partnership committee, since 2017.
- Member of the department's accreditation committee for postgraduate studies, chemistry department, 2017-2019.
- Member of the saudi chemical society, since 2016.
- Member of royal society of chemistry, since 2012.

POSTGRADUATE SUPERVISIONS

Three on going MSc students with the following project titles:

- Synthesis and characterization of superficially porous nanoparticles and their applications in liquid chromatography
- Synthesis and characterization of micron-sized particles of mesoporous silica Nano-materials as a stationary phase for liquid chromatography.
- Synthesis of a novel mesoporous silica nanoparticles with modified with different functional group for the removal of heavy metals.

PUBLICATIONS

Khalid M Alotaibi, Alswieleh, A. M., ¹, Hajar Y Albahar, Amal M ALfowaz, Abdulilah S Alsilm, Matar N Alshlwi, Mohammed S Almeataq, Ahmed Alshahrani. (2020). Synthesis of mesoporous silica nano materials modified with amino and carboxylic moieties for the removal of toxic heavy metals. J. Hazard. Mater, in press.

Khalid M Alotaibi ,Ashfaq Ahmad, Hassan M. Al-Swaidan, Ahmad Hamed Alghamdi, Abdullah M.Alswieleh and Awaad Nasser Albalwi. (2020). Efficient adsorption of hexavalent chromium by chemically active carbon from waste valorization (Phoenix Dactylifera). Under review.

Alswieleh, A. M., Beagan, A. M., Alsheheri, B. M., Alotaibi, K. M., Alharthi, M. D., & Almeataq, M. S. (2020). Hybrid Mesoporous Silica Nanoparticles Grafted with 2-(tert-butylamino)ethyl Methacrylate-b-poly(ethylene Glycol) Methyl Ether Methacrylate Diblock Brushes as Drug Nanocarrier. Molecules, 25(1), 195–12.

Alsager, O. A., Alotaibi, K. M., Alswieleh, A. M., & Alyamani, B. J. (2018). Colorimetric Aptasensor of Vitamin D3: A Novel Approach to Eliminate Residual Adhesion between Aptamers and Gold Nanoparticles. Scientific Reports, 1–12.

Alotaibi, K. M., Shiels, L., Lacaze, L., Peshkur, T. A., Anderson, P., Machala, L., et al. (2017). Iron supported on bioinspired green silica nanoparticles for water remediation. Chem. Sci., 8(1), 567–576.

S.A. Idris, K.M. Alotaibi, T.A. Peshkur, P. Anderson, M. Morris, L.T. Gibson, Adsorption kinetic study: Effect of adsorbent pore size distribution on the rate of Cr (VI) uptake, Microporous and Mesoporous Materials. 165 (2013) 99–105.

S.A. Idris, K. Alotaibi, T.A. Peshkur, P. Anderson, Preconcentration and selective extraction of chromium species in water samples using amino modified mesoporous nanosilica materials, Journal of Colloid and Interface Science. (2012) 1–9.