

Curriculum Vitae

Personal Information

Razan Abdullah Alshgari

Chemistry Dept, College of Science King Saud University, Riyadh, Saudi Arabia.

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Academic Qualifications

- Ph.D of Philosophy in chemistry, The University of Nottingham, Nottingham, UK.
 - M.Sc of Science in Nanoscience, The University of Nottingham, Nottingham, UK.
 - B.Sc. in Chemistry, PNU, Riyadh, Saudi Arabia
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Employment History

- Currently assistance professor of physical chemistry in the department of Chemistry, King Saud University, Riyadh, Saudi Arabia (2017 till now).
 - Teaching Assistant, Department of Chemistry, King Saud University, Riyadh, Saudi Arabia (2011-2017).
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Courses and skills

English program course (ESOL) in Loughborough University (2009)

Intensive English program course (PEAP) in Nottingham University (2010)

Self-assembly and bottom-up approaches to nanostructure fabrication (2011)

Top-down approaches to nanostructure fabrication (2011)

Physical characterization of Nanostructures (2011)

Electron optical and X-ray techniques (2011)

Matrix-Assisted Laser Desorption-Ionization-Time of Flight Mass Spectrometry (MALDI-TOF) training course (2012).

Microsoft Word: Introduction (2012)

Creating and managing long documents in Microsoft Word (2012)

Endnote introduction for referencing and citing (2012)

Presentation skills for researchers (2012)

Microsoft Excel: Introduction (2013)

Microsoft PowerPoint: Introduction (2013)

Presentation Skills: Structure and Technique (2013)

Microsoft PowerPoint: Advanced (2013)

Creating a Poster in PowerPoint (2013)

Essential information skills for new researchers in life sciences (2013)

Life Balance: working in a research environment (2013)

Microsoft Outlook: Introduction to email (2013)

Simple Calculations in Excel (2013)

Creating Macros in Excel (2014)

Using Excel as a Database (2014)

X-ray powder diffraction course (2014)

Single crystal X-ray diffraction course (2014)

Two-dimensional NMR spectroscopy for chemists course (2015)

Radiation - Safe Working with Ionizing Radiations (2015)

Microsoft Word: Creating and Managing Long Documents (2016)

Conferences

The 7th Saudi Students Conference in Edinburgh, UK (2014)

The 8th Saudi Students Conference in London, UK (2015)

Macrocyclic and Supramolecular Chemistry Group Meeting, Durham, UK (2015)

The 9th Saudi Students Conference in Birmingham, UK (2016)

Macrocyclic and Supramolecular Chemistry Conference, Edinburgh, UK (2016)

6th Postgraduate Symposium on Nanoscience and Nanotechnology, Birmingham, UK (2016)

Carbon Capture and Storage Faraday Discussion, Sheffield, UK (2016)

Nanomaterials: from theory to application Conference, Manchester, UK (2017)

11th International Conference on Advanced Materials & Processing, Edinburgh, UK (2017)

Publications

1. Alothman, A. A.; Albaqami, M. D.; Alshgari, R. A., Synthesis, spectral characterization, quantum chemical calculations, thermal studies and biological screening of nitrogen and oxygen donor atoms containing Azo-dye Cu(II), Ni(II) and Co(II) complexes. *Journal of Molecular Structure* 2021, 1223, 128984.
2. Jesila, J. A.; Umesh, N. M.; Wang, S. F.; Mani, G.; Alothman, A. A.; Alshgari, R. A., An electrochemical sensing of phenolic derivative 4-Cyanophenol in environmental water using a facile-constructed Aurivillius-structured Bi₂MoO₆. *Ecotoxicology and Environmental Safety*. 2021, 208, 111701.
3. Vinoth, S.; Govindasamy, M.; Wang, S. F.; Alothman, A. A.; Alshgari, R. A., Surface engineering of roselike lanthanum molybdate electrocatalyst modified screen-printed carbon electrode for robust and highly sensitive sensing of antibiotic drug. *Microchemical Journal*, 2021, 164, 106044.
4. Vinoth, S.; Govindasamy, M.; Wang, S. F.; Alothman, A. A.; Alshgari, R. A., Hydrothermally synthesized cubical zinc manganite nanostructure for electrocatalytic detection of sulfadiazine, *Microchimica Acta*, 2021, 188, 131.
5. Umesh, N. M.; Jesila, J.A.; Wang, S. F.; Devi, K. S. S.; Govindasamy, M.; Alothman, A. A.; Alshgari, R. A., An enhanced electrochemical performance of in milk, pigeon meat and eggs samples using se nanorods capped with Co₃O₄ nanoflowers decorated on graphene oxide. *Colloids and Surfaces B-Biointerfaces*, 2021, 200, 111577.
6. Duraisamy, E.; Prabunathan, P.; Mani, G.; Alshgari, R. A.; Elumalai, P., [Zn(Salen)] metal complex-derived ZnO-implanted carbon slabs as anode material for lithium-ion and sodium-ion batteries dagger, *Materials Chemistry Frontiers*, 2021, 5.
7. Jesu Amalraj Antolin Jesila, Narasimha Murthy Umesh, Sea-Fue Wang, Mani Govindasamy, Zeid A. Alothman, and Razan A. Alshgari. Simple and Highly Selective Electrochemical Sensor Constructed Using Silver Molybdate Nano-Wire Modified

Electrodes for the Determination of Oxidative Stress Biomarker in Blood Serum and Lens Cleaning Solution. *Journal of The Electrochemical Society*, 2020, 167, 147501.

8. Umamaheswari Rajaji, Sathishkumar Chinnapaiyan, Shen-Ming Chen, G. Mani, Asma A. Allothman, Razan A. Alshgari. Bismuth telluride decorated on graphitic carbon nitrides based binary nanosheets: Its application in electrochemical determination of salbutamol (feed additive) in meat samples. *Journal of Hazardous Materials* 413 (2021) 125265
9. Subramaniyan Vinoth, Mani Govindasamy, Sea-Fue Wang a, Zeid A. Allothman, Razan A. Alshgari, Mohamed Ouladsmane. Fabrication of Strontium Molybdate Incorporated with Graphitic Carbon Nitride Composite: High-sensitive Amperometric Sensing Platform of Food Additive in Foodstuffs. *Microchemical Journal* 167 (2021) 106307.
10. Aneela Tahira, Raffaello Mazzaro, Federica Rigoni, Ayman Nafady, Shoyebmohamad F. Shaikh, Asma A. Allothman, Razan A. Alshgari, Zafar Hussain Ibupoto. A simple and efficient visible light photodetector based on $\text{Co}_3\text{O}_4/\text{ZnO}$ composite. *Optical and Quantum Electronics* (2021) 53:534.
11. Subramaniyan Vinoth, Mani Govindasamy, Sea-Fue Wang, Asma A. Allothman, Razan A. Alshgari. Hydrothermally synthesized cubical zinc manganite nanostructure for electrocatalytic detection of sulfadiazine. *Microchimica Acta* (2021) 188: 131.
12. J. Antolin Jesila, N.M. Umesh, Sea-Fue Wang, G. Mani, Asma A. Allothman, Razan A. Alshgari. An electrochemical sensing of phenolic derivative 4-Cyanophenol in environmental water using a facile-constructed Aurivillius-structured Bi_2MoO_6 . *Ecotoxicology and Environmental Safety*, 208, (2021) 111701.
13. N.M. Umesh, J. Antolin Jesila, Sea-Fue Wang, K.S. Shalini Devi, M. Govindasamy, Asma A. Allothman, Razan A. Alshgari. An enhanced electrochemical performance of in milk, pigeon meat and eggs samples using se nanorods capped with Co_3O_4 nanoflowers decorated on graphene oxide. *Colloids and Surfaces B: Biointerfaces* 200 (2021) 111577.
14. Subramaniyan Vinoth, M. Govindasamy, Sea-Fue Wang, Asma A. Allothman, Razan A. Alshgari. Surface engineering of roselike lanthanum molybdate electrocatalyst modified screen-printed carbon electrode for robust and highly sensitive sensing of antibiotic drug. *Microchemical Journal*, 164 (2021) 106044.
15. Razan A. Alshgari, Ayman Nafady, Aqeel Ahmed Shah, Amal Aboelmaaref, Umair Aftab, Mazhar Hussain Ibupoto, Brigitte Vigolo, Aneela Tahira and Zafar Hussain Ibupoto. Enhanced Electrocatalytic Properties of Co_3O_4 Nanocrystals Derived from Hydrolyzed Polyethyleneimines in Water/Ethanol Solvents for Electrochemical Detection of Cholesterol. *Catalysts*, 2022, 12, 1176.
16. Razan A. Alshgari, Munirah D. Albaqami, Aqeel Ahmed Shah, Mazhar Hussain Ibupoto, Susheel Kumar, Imran Ali Halepoto, Umair Aftab, Ayman Nafady, Magnus Willander, Aneela Tahira, and Zafar Hussain Ibupoto. Manipulation of CuO morphology for efficient potentiometric detection of urea via slow nucleation/growth kinetics exerted by mixed solvents. *Journal of Materials Science: Materials in Electronics*, 33, 25250–25262, 2022.

17. Razan A. Alshgari, M. Sarat Chandra Prasad, Bipin Kumar Srivastava, Mohammed Saleh Al Ansari, Parul Gupta, A. Sivakumar, Saikh Mohammad Wabaidur, M. Ataul Islam, and Abdi Diriba. Mechanical Evaluation on Carbon/Basalt Fiber-Reinforced Hybrid Polymer Matrix Composite. *Advances in Polymer Technology*, vol. 2022, Article ID 7742349, 6 pages, 2022.
18. Razan A. Alshgari, K. Sargunan, C. Selin Ravi Kumar, M. V. Vinayagam, J. Madhusudhanan, S. Sivakumar, Saikh Mohammad Wabaidur, M. A. Islam, G. Ramasubramanian, Effect of Fiber Mixing and Nanoclay on the Mechanical Properties of Biodegradable Natural Fiber-Based Nanocomposites, *Journal of Nanomaterials*, vol. 2022, Article ID 4994658, 7 pages, 2022.