Curriculum Vitae

Dr. Riyadh Hamdan Alshammari

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Education:

- Doctor of Philosophy in Chemistry, 2020
 Indiana University Bloomington, USA
- Master of Science in Chemistry, 2014 Clemson University, USA
- Bachelor of Science in Chemistry, second-class honor, 2009
 King Saud University, Saudi Arabia

Academic Experience:

- Assistants Professor of Inorganic Chemistry, Department of Chemistry, King Saud University, 2020
- PhD Scholar at Indiana University Bloomington, 2014
 Thesis title: Surface Modification of Gold Nanorods for Photoactive Degradation of Fibrin Biopolymer
- Lecturer at King Saud University, 2017
- Master Scholar at Clemson University 2012
 Thesis title: Hydrothermal Synthesis of Organic-Linked Polyoxometalate
- Teaching Assistant at King Saud University 2009 Teaching General Chemistry laboratory

Honors, Awards and Fellowship:

- Saudi Arabian Culture Mission Award for Academic Excellence. 2014
- King Saud University Fellowship Award for Graduate Studies in USA. 2012
- The Outstanding Student Award, King Saud University 2009
- Travel Award to United Kingdom, King Saud University 2009
- Dean's Medal for Academic Excellence, King Saud University 2009

Publications, Posters, and Conferences:

- Abeer Beagan, Khalid Alotaibi, Manal Almakhlafe, Waffa Grablie, Nouf Alajme, Manal Alenezi, Hajer Alwalah, Fatamah Alharbi, **Riyadh Alshammari** and Abdullah Alswieleh. Amine and Sulfonic Acid Functionalized Mesoporous Silica as an Effective Adsorbent for Removal of Methylene Blue from Contaminated Water. *J. King Saud Univ. Sci. Submitted.* 2021
- Riyadh H. Alshammari, U. Chinna Rajesh, David Morgan and Jeffrey M. Zaleski. Au-Cu@PANI Alloy Core-shells for Aerobic Fibrin Degradation Under Visible Light Exposure, ACS Appl. Bio Mater. 2020, 3, 11, 7631–7638
- 3. PINDU Inorganic Symposium at Purdue University West Lafayette, Poster 2019
- 4. Materials Research Symposium, Indiana University Bloomington, Poster 2019
- 5. The Preparing Future Faculty Conference, Indiana University Bloomington moderator, **2018**
- 6. PINDU Inorganic Symposium at Norte Dame University, South Bend, Poster 2018
- 7. Materials Research Symposium, Indiana University Bloomington, Poster 2018
- 8. The Preparing Future Faculty Conference Indiana University Bloomington, 2017
- 9. PINDU Inorganic Symposium at Indiana University Bloomington, Poster 2017
- 10. Qualifying Exam Presentation, Indiana University Bloomington, Talk, 2017
- 11. PINDU Inorganic Symposium at Purdue University West Lafayette, Poster 2016
- 12. The 253rd American Chemical Society National Meeting, Philadelphia, PA 2016
- 13. Materials Research Symposium, Indiana University Bloomington, Poster 2015
- 14. PINDU Inorganic Symposium at Norte Dame University, South Bend, Poster 2015
- 15. PINDU Inorganic Symposium at Indiana University Bloomington, Poster 2014
- 16. The 21st ACS Fluorine Chemistry Conference in St. Petersburg, Florida 2013
- 17. Saudi Chemical Society National Conference Makkah, Saudi Arabia 2008
- 18. The Annual Meeting of Saudi Chemical Society, Riyadh, Saudi Arabia 2008

Research skills:

- Focused research training:
 Nano material synthesis and functionalization, Biopolymer synthesis, Protein assay, Light photolysis
- Electron microscopy
 TEM (JEOL 1010 & 1400 HRTEM 2300), SEM (FEI Quanta 600), EDX elemental
 mapping

- Material characterization techniques:
 Zetasizer, XRD, Sing crystal, XPS, HPLC, Thermogravimetric Analysis (TGA)
 Gel electrophoresis, Column chromatography
- Software: Image J, Origin, Chem Draw, Endnote, Crystal Clear, Shellex, Spartan, Hess
- Spectroscopic techniques: UV-vis spectroscopy, MALDI mass, NMR, Fluorescence spectroscopy, IR, Raman
- Synthetic techniques: Hydrothermal synthesis, Wet chemistry synthesis, Schlenk line, Glove box.
- Biological sample techniques: Peptide quantification, 96-well assay analysis, Critical point drying, Spatter coating

Professional Memberships and Organization:

- Member of International Students Leadership Council, Office of international services, IUB 2018/2019
- Academic leadership program, Washington DC- Ministry of Education 2018
- Member of the American Chemical Society 2016
- Member of the Saudi Chemical Society 2008
- Student Advisory Council. King Saud University 2008
- Director of Scientific Reading Club, King Saud University 2007

Volunteering and Community Services:

- President, Saudi Students Club at Indiana University Bloomington 2019
- Coordinator, International Student Orientation, Office of international services, Indiana University Bloomington 2018
- Higher Education in Saudi Arabia, Near eastern languages and cultures program, talk. Indiana University Bloomington 2018
- Chemistry tutor in Bloomington 2017
- Bloomington Interfaith friendship program, 2017
- Culture bridge program, Templeton Elementary, Bloomington 2016
- Chair, academic committee, Saudi Students Club at Indiana University Bloomington 2016
- Treasurer, Saudi Students Club at Indiana University Bloomington 2015