

### Skills

- Advanced chemical research
- Multi-step synthesis
- using XRD instrument
- practiced in Infrared and NMR instruments
- Fluent in [English]
- Experience in the safety of chemical plants

### Accomplishments

Contributing author to the following articles:

1. Perfluoroaryl boryl complexes: synthesis, spectroscopic and structural characterisation of a complex containing the bis(pentafluorophenyl)boryl ligand.

S.Aldridge, A.Alfawaz, A.A.Dickinson, D.J.Willock, M.E.Light and M.B.Hursthouse, Chem. Communication., 2001, 1846-1847

2- Migratory insertion of  $[B(C_6F_5)_2]$  into C-H bonds: CO promoted transfer of the boryl fragment.

S. Aldridge, D.L. Kays (née Coombs), A. Al-Fawaz, P.N. Horton, M.B Hursthouse, R.W. Harrington and W. Clegg. Chem. Commun., 2006, 2578-2580.

3- Reactivity of the bis(pentafluorophenyl)boranes  $CIB(C_6F_5)_2$  and  $[HB(C_6F_5)_2]_n$  towards late transition metal reagents.

A. Al-Fawaz, S. Aldridge, D.L. Coombs, A.A. Dickinson, D.J. Willock, L. Ooi, M.E. Light, S.J. Coles, and M.B. Hursthouse. Dalton Trans., 2004, 4030-4037.

4- Kinetic Analysis for Non-isothermal Decomposition of Unirradiated and -irradiated Indium Acetylacetonate R.M. Mahfouz, S.H.A. Al-Ahmari, A.M. Al-Fawaz, Z. A. AlOthman, I. Kh. Warad and M. R. H Siddiqui. Material Research. 2011, 7-10

5- Thermal kinetic parameters and evolved gas analysis (TG-FTIR-MS) for thiourea-formaldehyde based polymer metal complexes Saad M. Alshehri, Amal Al-Fawaz, and Tansir Ahamad. journal of analytical and applied pyrolysis 101(2013) 215-221.

6- Synthesis, Characterization, and Antimicrobial Activity of Salisaldehyde-Based Terpolymeric Ligand and Its Transition Metal Complexes.

Saad M. Alshehri, Amal Al-Fawaz, Fadia Al-Ghamdi and Tansir Ahamad. Advances in Polymer Technology 37,2,(2016).

7- Evaluation of the Adsorption Efficiency of Glycine-, Iminodiacetic Acid -, and Amino Propyl-Functionalized Silica Nanoparticles for the Removal of Potentially Toxic Elements from Contaminated Water Solution.

Abdullah M. Alswieleh , Hajar Y. Albahar, Amal M. Alfawaz, Abdulilah S. Alsilme, Abeer M. Beagan , Ali M. Alsalmeh , Mohammed S. Almeataq, Ahmed Alshahrani, and Khalid M. Alotaibi, Journal of Nanomaterials, Volume 2021,

8- Organometallic ( $\eta^6$ -p-cymene)Ruthenium(II) complexes with Thiazolyl-based Organic Twigs: En route towards targeted delivery via Human Serum Albumin of the Potential Anticancer Agents.

Rais Ahmad Khan, Ibtisam I. BinSharfan, Seham S. Alterary, Huda AlSaeedi, Faizan Abul Qais, Amal AlFawaz , Arman D. Hadi, c Ali Alsalmeh, Applied Organometallic Chemistry, December 2021.

9- Improved Photodegradation Behaviour of  $Ni_{1-x}Fe_xCo_2O_4$  ( $x=0.03$ )@g-C<sub>3</sub>N<sub>4</sub> Nanocomposite against Organic Pollutants under Visible-Light Irradiation.

Amal AlFawaz and Ali Alsalmeh, ChemistrySelect 2021, 6, 12407– 12415.

10- Aminobenzimidazoles based ( $\eta^6$ -p-cymene)Ruthenium(II) complexes as Nascent Anticancer Chemotherapeutics: Synthesis, Crystal Structure, DFT Studies, HSA Interactions, Molecular Docking, and

Cytotoxicity.

Khan, Dr. Rais Ahmad, Alfawaz Amal, Farshori Nida, Paul Anup, Jaafar Mohammad, Alsalme Ali, Applied Organometallic Chemistry, January 2022

11- Synthesis and Characterization of rGO@ZnO Nanocomposites for Esterification of Acetic Acid.

Fahad A. Alharthi, Amjad Abdullah Alsyahi, Saad G. Alshammari, Hessah A. AL-Abdulkarim, Amal AlFawaz, and Ali Alsalme, ACS Omega, December 2021.

12- Surface functionalization of mesoporous silica nanoparticles with brønsted acids as a catalyst for esterification reaction Amal Alfawaz 1 , Ali Alsalme 1 , Arwa Alkathiri, Abdullah Alswieleh., Journal of King Saud University – Science 34 (2022) 102106.

\*Poster presentation Inorganic Chemistry Conference Bath University UK 2002.

\*flash poster presentation 7th EuCheMS Conference on Nitrogen Ligands ,Lisbon, September 4-7,2018

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### Professional Experience

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**assistance professor**

**06/2008**

**king Saud university**

**Riyadh, Saudia Arabia**

- Maintained a teaching load of undergraduate and graduate courses each semester.
- supervisor of masters students
- supervisor of the XRD instruments
- Maintained regularly-scheduled office hours to advise and assist students.
- Reviewed admissions folders for students admitted to the Master's degree program.
- Tested samples for various chemical analysis.
- Conducted both qualitative and quantitative analysis.

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### Education and Training

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**Ph.D.: chemistry**

**2005**

Wales University

Cardiff, Wales, UK

\* Bachelor degree in chemistry and education, collage of education and science, PNU.

\*Master degree in organometallic chemistry, Cleveland University, OH, USA  
(Synthetic and Structural Studies of Indium Trichloride Complexes).

\* PhD in Inorganic chemistry (organometallic) Wales University, Cardiff, UK.  
(Studies of pi-bonding in boryl late transition metal complexes).

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**Affiliations**

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\*Visiting Lecturer in Bath University from 9th June 2014 to 9th September 2014.

\*Participate in arbitration national Olympiad scientific creativity 2016 and 2017.

\*Visiting professor in university of Leeds from October 2020 to August 2021.