



**Dr. Essa Ismaeil Ahmed**

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**Specialty** The chemistry of oils and lubricants

**Education** PhD (Petroleum Chemistry )(Leicester –The UK)  
MSc (Petroleum Chemistry) (Erbil - Iraq)  
BSc (Chemistry) (Erbil - Iraq)

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College of Education-  
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- Current research centres on the area of petroleum based and novel ionic environmentally compatible lubricants.

### Summary of Qualifications

- More than twelve years of experience in areas associated with petroleum properties, characterization of petroleum products, distillation and refining of conventional lubricating oils and re-refining of used lubricating oils.
- More than fourteen years' experience in teaching theoretical and practical chemistry subjects for second, third and fourth year graduate students specifically petroleum and polymer, industrial chemistry, Environmental chemistry, inorganic chemistry, corrosion in ionic liquids, and natural products.

### Research Interests

- The chemistry of petroleum and ionic based lubricants
- Fuel characterization
- Corrosion of metals in aqueous and ionic liquids
- Intermolecular forces in ionic liquids

### Membership

- Royal society of chemistry associate member (AMRSC)
- Energy institute (EI)
- Society of chemical industries (SCI)
- East midlands electrochemistry group
- Institute of corrosion (MICorr)
- Kurdistan medical and scientific federation (KMSF)
- Kurdistan Chemists syndicate

**References** – Available on request.

## Publications:

### • Books:

- عیسی اسماعیل احمد، نبیل عادل فخری و بنار محمود ابراهیم ، زانستی داخووانی کانزاکان و گرنگیه که ی، ۲۰۲۱، چاپخانه ی زانکو ی سه لاهه ددین، هه ولیر-2-87-632-9922-978-ISBN.

### • Papers:

- 1- A. P. Abbott, E. I. Ahmed, R. C. Harris and K. S. Ryder, *Green Chem*, **2014**, 16, 4156-4161.
- 2- C. D'Agostino, L. F. Gladden, M. D. Mantle, A. P. Abbott, E. I. Ahmed, A. Y. M. Al-Murshedi and R. C. Harris, *Phys Chem Chem Phys*, **2015**, 17, 15297-15304.
- 3- Farouq E. Hawaiz, E. I. Ahmed and Mohanad H. M. Masad, *Zanko journal of pure and applied sciences*, 22, 6, **2010**, 78-87 b
- 4- Andrew P. Abbott, Essa I. Ahmed, Kamalesh Prasad, Idrees B. Qader and K. S. Ryder, *Fluid Phase Equilibria*, **2017**, 448, 2-8
- 5- Essa I. Ahmed, Andrew P. Abbott and K. S. Ryder, 6th International Conference and Workshops on Basic and Applied Sciences AIP Conf. Proc. 1888, 020006 (**2017**); doi: 10.1063/1.5004283
- 6- Essa I. Ahmed, *Proceeding book of International Conference on Applied Science, Energy and Environment ( ICASEE 2018 )* Science College / Ishik University April , 7th and 8th **2018**

### • Conferences:

- 1- E. I. Ahmed, A. P. Abbott and K. S. Ryder, Corrosion of metals in ionic liquids, *Electrochem Conference, September 1-3, 2013 Southampton University*, Southampton, Royal society newsletter issue two **2013**, p184.
- 2- E. I. Ahmed, A. P. Abbott and K. S. Ryder, Lubrication and Corrosion Studies of Deep Eutectic Solvents (DESs), *Midlands Electrochemistry Group Meeting (MEG) 2014*, 1st April **2014**, Loughborough University, Loughborough.
- 3- E. I. Ahmed, A. P. Abbott and K. S. Ryder, Lubrication studies of some Deep Eutectic Solvents (DESs), *the Molten Salt Discussion group*, 10th January **2014**, WMG International Digital Laboratory University of Warwick Coventry University of Warwick, Coventry.
- 4- E. I. Ahmed, A. P. Abbott and K. S. Ryder, Lubrication studies of some Deep Eutectic Solvents (DESs), Iraqi Cultural Attaché Conference, 28th February **2014**, University of Nottingham, NG7 2RD, Nottingham.
- 5- E. I. Ahmed, A. P. Abbott and K. S. Ryder, Using Deep Eutectic Solvents (DESs) as base lubricants, *Department Of Chemistry Postgraduate Research Day*, 14<sup>th</sup> April **2015**, University of Leicester, Leicester.
- 6- E. I. Ahmed, attendance to 3<sup>rd</sup> international conference on energy, environment and applied sciences (ICEEAS)-**2017**, Erbil-KRG, Iraq.
- 7- E. I. Ahmed, A. P. Abbott and K. S. Ryder, Lubrication Studies of some Type III Deep Eutectic Solvents (DESs), International Conference and Workshop on Basic and Applied Sciences (ICOWOBAS)-**2017**, March 18<sup>th</sup>-19<sup>th</sup> 2017, Kurdistan, Erbil, Iraq.
- 8- E. I. Ahmed, attendance to 4<sup>th</sup> international conference on applied sciences, energy and environment (ICASEE)- **2018**, Erbil-KRG, Iraq.