

# Academic Curriculum Vitae



## Personal Information:

**Full name:** Dr. Essa Ismaeil Ahmed  
**Academic title** Assistance Professor  
**Email:** essa.ahmed@su.edu.krd  
**Mobile:** +9647504880190 or +9647803757892  
**Specialty** The chemistry of oils and lubricants  
**Education** PhD (Petroleum Chemistry) (Leicester –The UK)  
MSc (Petroleum Chemistry) (Erbil - Iraq)  
BSc (Chemistry) (Erbil - Iraq)  
**Work Address** Department of Chemistry-College of Education-  
Salahaddin University-Erbil  
**Home address** Roshinbiry-Kirkuk street-Erbil-Iraq



## Current research centers on;

- Petroleum-based and sustainable lubricants,
- Petroleum and petroleum products demetallization, and
- Sustainable solvents.

## Teaching experience:

- More than fourteen 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.
- Teaching postgraduate study courses such as advanced petroleum processing and solvents and sustainable chemistry.

## Research Interests

- The chemistry of petroleum and ionic based lubricants
- Demetallization of petroleum products
- Corrosion of metals in aqueous and ionic liquids
- Development of sustainable lubricants and solvents,

## Publications:

- **Books:**

- **Essa I. Ahmed, Nabil A. Fakhree, and Bnar M. Ibrahim, Corrosion of metals and its importance, 2021 @ Salahaddin university printing press. ISBN:978-9922-632-87-2**

عیسی اسماعیل احمد، نبیل عادل فخری و بنار محمود ابراهیم ، زانستی داخوری  
کانزاکان و گرنگیه کهی، ۲۰۲۱، چاپخانهی زانکوی سه لاهه ددین، هه ولیر-ISBN:978-  
9922-632-87-2-

عیسی اسماعیل احمد، نبیل عادل فخری و کامران شکر حسین، الکییاء والتاکل،  
مطبعة دار ابن الهیثم بجامعة موصل، 2024-01-10, ISBN:978-9922-694-19-1

- **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, 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
- 7- Essa I. Ahmed, Andrew P. Abbott and K. S. Ryder, corrosion of iron, nickel and aluminium in deep eutectic solvents, Electrochimica Acta, 397 (2021) 139284.
- 8- Cheman Dlashad Yousif, and Essa Ismaeil Ahmed, Demetallization of crude oil using Oxaline functionalized easily separable paramagnetic rust products, ZANCO Journal of Pure and Applied Sciences, 2023, ZJPAS (2023), 35(4);160-170. DOI: <https://doi.org/10.21271/ZJPAS.35.4.16>.

- **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.

- **Funding and academic awards**

- **Professional memberships**

- 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

- **Professional Social Network Accounts:**

- <https://orcid.org/my-orcid?orcid=0000-0002-3067-0588>
- <https://scholar.google.com/citations?hl=en&user=1CT2miqAAAAJ>
- <https://www.researchgate.net/profile/Essa-Ahmed>
- <https://www.facebook.com/essa.i.ahmed>