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**Academic Curriculum Vitae**



**Personal Information:**

Full Name: Dr. Sangar Salih Ahmed

Academic Title: Assistant Professor

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Mobile: +9647504616485

**Education:**

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| From- To | Degree | College-University | Country |
| 2017 | PhD Degree in Petroleum Chemistry | Faculty of Chemistry and Physics, Freiberg University of Mining and Technology | Germany |
| 2008-2011 | Master’s Degree Industrial Chemistry, Department of Chemistry | College of Science- University of Salahaddin | Iraq |
| 2003-2007 | B.Sc. Chemistry, Department of Chemistry, | College of Science- University of Salahaddin | Iraq |
| 2016 | German language Certificate „Zertifikat Deutsch B1 | Freiberg University of Mining and Technology | Germany |

**Employment:**

*Assignments and Posts:*

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| From- To | Post | Department -College | University |
| 2018 to date | Head of Chemistry Department | Chemistry Department-College of Science | Salahaddin University |
| 2021 to date | Assistant Professor | Chemistry Department-College of Science | Salahaddin University |
| 2017 to 2021 | Lecture | Chemistry Department-College of Science | Salahaddin University |
| 2013-2017 | Scientific Assistant | Institute of chemical technology, Faculty of Chemistry and Physics | Freiberg University of Mining and Technology |
| 2011-2013 | Assistant lecturer | Chemistry Department-College of Science | Salahaddin University |
| 2011-2013 | Department decider | Chemistry Department-College of Science | Salahaddin University |
| 2007-2008 | Assistant chemistry | Chemistry Department-College of Science | Salahaddin University |

**Teaching experience:**

1. *Teaching Activities*

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| From- To | Subject | Stage-College | University |
| 2021- to date | Petrochemical Industry | 3rd-year students / Chemistry Department-College of Science | Salahaddin University |
| 2021-2022 | Petroleum Fluid Properties | 2nd-year students / Petroleum Engineering and Mining Department-Faculty of Engineering | Tishk International University |
| 2021-2022 | General Chemistry | 1st-year students / Biology Department-college pf Education- Shaqlawa | Salahaddin University |
| 2019-2020 | Wastewater treatment | M.Sc student –Chemistry Department –College of Science | Salahaddin University |
| 2019-2020 | Petroleum Science | 3rd-year student- Environmental Department | Salahaddin University |
| 2017- to date | Petroleum Chemistry | 3rd-year students / Chemistry Department-College of Science | Salahaddin University |
| 2012-2013 | Polymer | 4th-year students / Chemistry Department-College of Science | Koya University |
| 2012-2013 | Organic Chemistry | 2nd-year students / Chemistry Department-College of Science | Koya University |
| 2011-2013 | Petroleum Chemistry-Practical | College of Science, University of Salahaddin | Salahaddin University |

**Research and publications**

Published articles, papers and researches:

1. [Pizo-catalytic desulfurization of model and real fuel samples over NiO/MnxOy nano-composite at room temperature: Mechanism and kinetic behind it](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=CxCpyjcAAAAJ&sortby=pubdate&citation_for_view=CxCpyjcAAAAJ:KlAtU1dfN6UC) 2023, Fuel 344, 128065
2. [Studying the mechanism and kinetics of fuel desulfurization using CexOy/NiOx piezo-catalysts as a new low-temperature method](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=CxCpyjcAAAAJ&sortby=pubdate&citation_for_view=CxCpyjcAAAAJ:4TOpqqG69KYC) 2023, Scientific Reports 13 (1), 7574
3. Evaluation of Gasoline Samples from Several Erbil Petrol Stations 2023, Zanco Journal of Pure and Applied Sciences 35 (2), 189-196
4. [How Is Photocatalytic Activity of TiO2 /In2 S3 /Cu and TiO2 /In2 S3 / Ag Nanocomposites under Visible Light?](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=CxCpyjcAAAAJ&sortby=pubdate&citation_for_view=CxCpyjcAAAAJ:_kc_bZDykSQC) 2023, Journal of Nanostructures 13 (1), 48-58
5. Simple synthesis of CeFeO3 nanostructures as an efficient visible-light-driven photocatalyst in degradation of Congo red dye: Mechanism investigation 2023, International Journal of Hydrogen Energy 48 (10), 3878-3892.
6. Preparation and characterization of La1−xMn1− yO3 piezocatalyst for removing waste drug pollutants in wastewater under the piezo-catalyst effect 2022, Separation and Purification Technology 301, 121963.
7. Magnetically-driven Ag/Fe3O4/graphene ternary nanocomposite as efficient photocatalyst for desulfurization of thiophene under visible-light irradiation 2021, International Journal of Hydrogen Energy 46 (38), 19913-19925
8. Influence of Solvents on The separation of Water From The bitumen Emulsions Using Alginite 2021. ZJPAS (2021), 33(2);51-58 .
9. [Novel flower-like (Bi (Bi2S3) 9I3)2/3 nanostructure as efficient photocatalyst for photocatalytic desulfurization of benzothiophene under visible light irradiation](javascript:void(0)) 2021, Advanced Powder Technology, 32 (4), 1088-1098
10. [Hierarchical p-BiOI/n-BiPO4 heterojunction nanocomposite with enhanced visible-light photocatalytic desulfurization of thiophene under mild conditions](javascript:void(0)) 2021, International Journal of Hydrogen Energy 46 (9), 6547-6560
11. [Specification and Evaluation of Diesel Fuel used in Electricity Generation in Erbil](javascript:void(0)) 2020, Zanco Journal of Pure and Applied Sciences 32 (5), 92-105
12. Novel flower‐like Sn–Cu and cactus‐like Sn–Ag nanocatalysts for photo catalytically removal of toxic pollutant 2020, Applied Organometallic Chemistry, 34 (8), e5652
13. [Alginite rock as effective demulsifier to separate water from various crude oil emulsions](https://www.sciencedirect.com/science/article/pii/S0927775720314230) 2020, Colloids and Surfaces A: Physicochemical and Engineering Aspects 611, 1-8
14. [Kinetic and Thermodynamic Studies for Zeolites Synthesis](javascript:void(0)), 2019, ZANCO Journal of Pure and Applied Sciences 31 (s4), 90-96
15. [Simple microwave synthesis of TiO2/NiS2 nanocomposite and TiO2/NiS2/Cu nanocomposite as an efficient visible driven photocatalyst](https://www.sciencedirect.com/science/article/pii/S0272884219309435), Ceramics International, [Volume 45, Issue 11](https://www.sciencedirect.com/science/journal/02728842/45/11), 1 August 2019, 14167-14172 <https://doi.org/10.1016/j.ceramint.2019.04.118>
16. Demulsification of water/crude oil emulsion using natural rock Alginite, Colloids and Surfaces A Physicochemical and Engineering Aspects 553:71-79, DOI: 10.1016/j.colsurfa.2018.05.031.
17. A Natural Rock (Alginite) for Demulsification of Water/Bitumen Emulsions, Problems management, Part 1, ISBN 978-5-94211-723-8, 2015, Russia
18. Comparison of Alginite with commercial Demulsifiers for splitting crude oil emulsions, Scientific Reports on Resource Issues, Volume 1, ISSN: 2190-555X, 2015, Germany

**Conferences and courses attended**

**A-Conferences**

* 1. International Forum - Contest ‘Topical Issues of Rational Use of Natural Resources, 22–24 April 2015, St. Petersburg, Russia
* Freiberg Research Forum "Innovative Resource Technologies / (Freiberger Forschungsforum / 66.BHT), 17–19 Juni 2015, Freiberg, Germany
* 67. Berg- und Hüttenmännischen Tag, 08–10 Juni 2016, Freiberg, Germany
* International Conference on Applied Science, Energy and Environment (ICASEE-2018)7-8-9 April 2018, Erbil- Iraq
* 1st National Conference of Safety and Security of Chemical, Biological, Radiological and Nuclear (CBRN) 2-3 March 2022, Kurdistan Region - Iraq

**B. Posters**

* Resource and Energy Challenges-Bridging the 50-year gap between medium- and long-term scenarios, 25–26 March 2015, Freiberg, Saxony, Germany
* International Conference & Exhibition (ICE), 3–6 April 2016, Barcelona, Spain

**C-Short courses:**

* Chemical Asset Tracker (CAT) (Training) February 2-4, 2020 Istanbul-Turkey
* Chemical inventory management system (CMS) (Training for academic staff of the chemical store in Salahaddin University) 6 – 8 October 2019 – Erbil-Iraq.
* Health and Safety at Work for University Academics 29 - 30 April 2019 - Erbil
* Catalysis Chemometrics and Renewable Energy 23-26 April 2019- Erbil
* Nanotechnology application in Chemistry 17-18 April 2019- Erbil
* Material Control &Accountability and CMS© Software Workshop Baghdad 24-26 September 2018 in Baghdad-Iraq.
* Oil, Gas, and Coal Geology, TU Bergakademie Freiberg, 09599 Freiberg, Germany (2016)
* Enhanced Oil Recovery, TU Bergakademie Freiberg, 09599 Freiberg, Germany (2014)
* International DAAD-GRI summer school, TU Bergakademie Freiberg, 09599 Freiberg, Germany (2015)
* An introduction to R for Geoscientists TU Bergakademie Freiberg, 09599 Freiberg, Germany (2015)
* Ground water Chemistry, TU Bergakademie Freiberg, 09599 Freiberg, Germany (2014)
* Mathematical modeling of solid fuel combustion and gasification, TU Bergakademie Freiberg, 09599 Freiberg, Germany (2015)
* Assessment-und Development Center for Doctoral Candidates, TU Bergakademie Freiberg, 09599 Freiberg, Germany
* Compiling Academic Papers, TU Bergakademie Freiberg, 09599 Freiberg, Germany (2015)
* Managing Academic Presentations, TU Bergakademie Freiberg, 09599 Freiberg, Germany (2015)
* Grammar and Pronunciation for Scientific work, TU Bergakademie Freiberg, 09599 Freiberg, Germany (2015)
* Project management-successful planning of research and dissertation project, TU Bergakademie Freiberg, 09599 Freiberg, Germany (2015)

**Professional memberships**

* From 2007 to date member in Kurdistan chemistry syndicate

**Professional Social Network Accounts:**

**ORCID ID**: 0000-0003-0991-2295

**Academic Profile:** <https://academics.su.edu.krd/sangar.ahmad1>

**LinkedIn:** <https://www.linkedin.com/in/sangar-ahmed-552155278/>

**Scholar Account:** <https://scholar.google.com/citations?user=CxCpyjcAAAAJ&hl=en>

**ResearchGate**: <https://www.researchgate.net/profile/Sangar-Ahmed-3>