

# Academic Curriculum Vitae



## Personal Information:

Full Name: Dr. Sangar Salih Ahmed  
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## Education:

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:

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

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	2 <sup>nd</sup> -year students / Petroleum Engineering and Mining Department-Faculty of Engineering	Tishk International University
2021-2022	General Chemistry	1 <sup>st</sup> -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	4 <sup>th</sup> -year students / Chemistry Department-College of Science	Koya University
2012-2013	Organic Chemistry	2 <sup>nd</sup> -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 research:](#)

1. Enhanced antibacterial efficacy through piezo memorial effect of CaTiO<sub>3</sub>/TiO<sub>2</sub> Nano-Composite 2024, Inorganic Chemistry Communications, Volume 165, July 2024, 112470
2. Enhanced asphaltene degradation using piezocatalytic technology: A novel approach for sustainable oilfield operations 2024, Results in Engineering, 21, 101938
3. Mechanism and kinetic of piezo-catalytic desulfurization of model and actual fuel samples over CexOy/SrO nanocomposite at room temperature 2024, Heliyon, 10, e24707
4. Pizo-catalytic desulfurization of model and real fuel samples over NiO/MnxOy nano-composite at room temperature: Mechanism and kinetic behind it 2023, Fuel 344, 128065
5. Studying the mechanism and kinetics of fuel desulfurization using CexOy/NiOx piezo-catalysts as a new low-temperature method 2023, Scientific Reports 13 (1), 7574
6. Evaluation of Gasoline Samples from Several Erbil Petrol Stations 2023, Zanco Journal of Pure and Applied Sciences 35 (2), 189-196
7. How Is Photocatalytic Activity of TiO<sub>2</sub> /In<sub>2</sub> S<sub>3</sub> /Cu and TiO<sub>2</sub> /In<sub>2</sub> S<sub>3</sub> / Ag Nanocomposites under Visible Light? 2023, Journal of Nanostructures 13 (1), 48-58
8. Simple synthesis of CeFeO<sub>3</sub> 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.
9. Preparation and characterization of La<sub>1-x</sub>Mn<sub>1-y</sub>O<sub>3</sub> piezocatalyst for removing waste drug pollutants in wastewater under the piezo-catalyst effect 2022, Separation and Purification Technology 301, 121963.
10. Magnetically-driven Ag/Fe<sub>3</sub>O<sub>4</sub>/graphene ternary nanocomposite as efficient photocatalyst for desulfurization of thiophene under visible-light irradiation 2021, International Journal of Hydrogen Energy 46 (38), 19913-19925
11. Influence of Solvents on The separation of Water From The bitumen Emulsions Using Alginite 2021. ZJPAS (2021), 33(2);51-58 .
12. Novel flower-like (Bi (Bi<sub>2</sub>S<sub>3</sub>)<sub>9</sub>)<sub>2/3</sub> nanostructure as efficient photocatalyst for photocatalytic desulfurization of benzothiophene under visible light irradiation 2021, Advanced Powder Technology, 32 (4), 1088-1098
13. Hierarchical p-BiOI/n-BiPO<sub>4</sub> heterojunction nanocomposite with enhanced visible-light photocatalytic desulfurization of thiophene under mild conditions 2021, International Journal of Hydrogen Energy 46 (9), 6547-6560

14. Specification and Evaluation of Diesel Fuel used in Electricity Generation in Erbil 2020, Zanco Journal of Pure and Applied Sciences 32 (5), 92-105
15. 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
16. Alginite rock as effective demulsifier to separate water from various crude oil emulsions 2020, Colloids and Surfaces A: Physicochemical and Engineering Aspects 611, 1-8
17. Kinetic and Thermodynamic Studies for Zeolites Synthesis, 2019, ZANCO Journal of Pure and Applied Sciences 31 (s4), 90-96
18. Simple microwave synthesis of TiO<sub>2</sub>/NiS<sub>2</sub> nanocomposite and TiO<sub>2</sub>/NiS<sub>2</sub>/Cu nanocomposite as an efficient visible driven photocatalyst, Ceramics International, Volume 45, Issue 11, 1 August 2019, 14167-14172 <https://doi.org/10.1016/j.ceramint.2019.04.118>
19. 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.
20. A Natural Rock (Alginite) for Demulsification of Water/Bitumen Emulsions, Problems management, Part 1, ISBN 978-5-94211-723-8, 2015, Russia
21. 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 Security Risk Assessment Training, 10-12 September 2023 Amman Jordan
- 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>