Asst. Prof. Dr. Hadi Thamer Obaid

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SPECIALIZATION

Chemistry — Analytical Chemistry.

RESEARCH INDICATORS

Scopus: h-index 4, 29 citations | Google Scholar: h-index 3, 29 citations.

RESEARCH INTERESTS

- Synthesis and development of metallic corrosion inhibitors for the protection of oil pipelines.
- Development of analytical methods for measuring metallic corrosion.
- Computational chemistry in evaluating the performance of corrosion inhibitors.

EDUCATION

2022	**Ph.D.** in Chemistry (Analytical Chemistry), College of Education for Pure Sciences, University of Basrah.
2011	**M.Sc.** in Chemistry, College of Education for Pure Sciences, University of Basrah. Thesis: Preparation of two new azo dye derivatives and spectroscopic study of their complexes with iron (III), chromium (III) and vanadyl ions.
2003	**B.Sc.** in Chemistry, College of Education for Pure Sciences, University of Basrah.

POSITIONS AND SERVICE

Current	Head of the Department of Chemistry, College of Education, Al-Dawaya, University of Shatrah.
Current	Member of the Scientific Council of the Department of Continuing Education, University of Shatrah.
	Member of several scientific committees within the university.

TEACHING

General Chemistry, Biochemistry, Forensic Chemistry, Materials Science, Computers, Curricula and Textbooks, Educational Administration and Supervision.

PATENTS AND AWARDS

- Two national patents in the field of metallic corrosion inhibitors.
- Golden Medal of Creativity, Second Patents Conference, College of Pharmacy, University of Basrah.
- International Medal of Creativity, Sixth International Scientific Conference, under the patronage of the Prime Minister's Office.
- Necklace of Creativity, First International Scientific Conference, Uruk University.
- Necklace of Creativity, Third International Scientific Conference, Al-Kunooz University.

LETTERS OF APPRECIATION

More than 51 letters of appreciation, including: Prime Minister's Office (3), Minister of Higher Education and Scientific Research (8), Minister of Education (6), President of the University of Shatrah (12), Director General of Education in Dhi Qar (8), deans of colleges (7), and others from the Presidents of the Universities of Dhi Qar, Uruk and Al-Kunooz, the Governor of Dhi Qar, Dhi Qar Oil Company, and the libraries of the Holy Shrines of Imam Hussein and Al-Abbas.

SELECTED PUBLICATIONS

1. Synthesis and inorganic characterization of organoselenium (IV) dithiocarbamate complexes: correlation between antioxidant activity and corrosion inhibition efficiency. *Journal of the Iranian Chemical Society* (2026). DOI: 10.1007/s13738-026-03537-4
2. Quantum chemistry calculations for the effect of the corrosion inhibition, spectroanalytical, and biological effectiveness for the azo dyes synthesised from the drug procaine. *AIP Conference Proceedings* (2026). DOI: 10.1063/5.0330007
3. Preparation of New Azo Dye Derived of Pharmaceutical Substances (Procaine and Vitamin B6) and Theoretically Studied as a Carbon Steel Corrosion Inhibitor. *Instrumentation Mesure Métrologie* (2026). DOI: 10.18280/I2M.240304
4. Effect of the pH and heat on the stability and spectral properties of mercury (II) and copper (II) azo complexes. *Journal of Integrated Science and Technology* (2025). DOI: 10.62110/sciencein.jist.2025.v13.1177
5. Sulfasalazine as a Corrosion Inhibitor on Carbon Steel Metal Surfaces in Acidic Media Using the Hydrogen Evolution Method: Experimental and Theoretical Studies. *Indonesian Journal of Chemistry* (2025). DOI: 10.22146/ijc.95852
6. (E)-4-Hydroxy-3-(Phenylamino)Pent-3-En-2-One as a Novel Organic Corrosion Inhibitor for Protective Surface of Stainless Steel in Aqueous Sulfuric Acid Medium: An Experimental and Computational Study. *SSRN preprint* (2025). DOI: 10.2139/ssrn.5120802
7. Peganum Harmala Extract as an Eco-Friendly Corrosion Inhibitor for Carbon Steel N80 in 1 M HCl: Electrochemical and Surface Morphological Studies. *Nanotechnology Perceptions* (2024). DOI: 10.62441/nano-ntp.v20iS3.3
8. Syntheses, Characterisation, Thermal Analysis and Theoretical Studies of Some Imino Ethanone Metal Complexes. *Baghdad Science Journal* (2024). DOI: 10.21123/BSJ.2024.9852
9. Azo Schiff base derived from 2-hydroxy-1-naphthaldehyde as corrosion inhibitors for carbon steel in HCl medium: Experimental and theoretical studies. *Materials Today: Proceedings* (2022). DOI: 10.1016/j.matpr.2021.10.380
10. Study the effect of changing positions on some of the spectral properties of the new azo dye [sodium (E)-7-amino-3-((2-(hydrogenarsonato)phenyl)diazenyl)-3-hydroxynaphthalene-1-sulfonate] and compare it with other azo dye prepared in advance. *University of Thi-Qar Journal of Science* (2017). DOI: 10.32792/utq/utjsci/v6i2.87