

Ibtissam Rachid Saad

Assistant Professor of Physical Chemistry

Department of Chemistry, Faculty of Science
Beirut Arab University, Lebanon

Director, Environmental Analysis and Consultancy Unit (EACU)

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Professional Profile

Assistant Professor of Physical Chemistry at Beirut Arab University and Director of the Environmental Analysis and Consultancy Unit (EACU). Academic and professional experience in physical chemistry, electrochemistry, corrosion science, analytical chemistry, environmental analysis, and laboratory management. Research interests focus particularly on corrosion and corrosion inhibition using electrochemical techniques, together with instrumental and environmental analysis. Experienced in laboratory development, quality management, postgraduate research supervision, and the development and implementation of documentation in accordance with ISO/IEC 17025.

Education

- Ph.D. in Physical Chemistry
Beirut Arab University, Lebanon
2014 - 2019 | Awarded April 2019
- M.Sc. in Analytical Chemistry
Beirut Arab University, Lebanon
2007 - 2010 | Awarded May 2010
- B.Sc. in Analytical Chemistry (Honors List)
Beirut Arab University, Lebanon
2002 - 2006
- Lebanese Baccalaureate - Life Science Section
National Evangelical Institute for Girls and Boys, Saida, Lebanon | Graduation:
2002

Academic and Professional Experience

Assistant Professor of Physical Chemistry

Department of Chemistry, Faculty of Science, Beirut Arab University
September 2023 – Present

- Teaching undergraduate and postgraduate courses in physical chemistry and

related areas.

- Courses and teaching areas include Physical Chemistry, Advanced Physical Chemistry, Chemical Kinetics, Electrochemistry, Advanced Electrochemistry, Surface and Colloid Chemistry, Water Analysis, and Principles of Chemistry.
- Involved in postgraduate research supervision and laboratory-based research activities.

Director-Environmental Analysis and Consultancy Unit (EACU)

Faculty of Science, Beirut Arab University

January 2024 – Present

- Directing the academic, technical, and operational activities of the Environmental Analysis and Consultancy Unit.
- Overseeing environmental and analytical testing activities.
- Contributing to laboratory development and implementation of laboratory quality-management practices.
- Supporting the development and implementation of documentation in accordance with ISO/IEC 17025 requirements.

Head of Chemistry Laboratory Unit

Department of Chemistry, Faculty of Science, Beirut Arab University

September 2008 – 2023

- Managed and coordinated chemistry laboratory activities and resources.

Laboratory Consultant

Saida Wastewater Treatment Plant, Lebanon

2013–2015

- Provided technical expertise on wastewater quality monitoring and process optimization.

Research Expertise & Technical Skills

- Advanced expertise in corrosion inhibition studies using electrochemical techniques (PDP, EIS).
- Extensive experience with UV-Vis, AAS, FTIR, and other instrumental analytical techniques.
- Strong background in water, wastewater, soil, and fertilizer analysis under ISO/IEC 17025 framework.

Publications

- Saad, I. R., et al. (2018). Corrosion Inhibition of Mild Steel in Acidic Solutions Using 1,2,4-Triazolo[1,5-a]pyrimidine. Russian Journal of Applied Chemistry, 91(2), 245–252.
- Saad, I. R., et al. (2018). Thiourea and N-Methylthiourea as Corrosion Inhibitors for Steel in Phosphoric Acid. Journal of Failure Analysis and Prevention, 18(5), 1293–1299.
- Joumaa, C., Saad, I., & Younes, G. (2021). Inhibition Activity of TBHQ Towards Corrosion of Aluminum, Copper, and Stainless Steel in Biodiesel Blend B20. BAU Journal–Science and Technology, 3(1), 4.
- Joumaa, C., Saad, I., & Younes, G. (2024). Effect of Diesel-Biodiesel-Ethanol Mixtures on Corrosion Rate of Metals in the Presence of TBHQ. Química Nova, 47, e-20230083.
- Kilo, M., Saad, I., Younes, G., & El-Dakdouki, M. H. (2024). Corrosion Inhibition of Carbon Steel Using Phaseolus vulgaris L. Extract. Moroccan Journal of Chemistry, 12(2), 473–492.

Awards & Recognition

Jamal Abdul Nasser Prize for Scientific Distinction

Beirut Arab University | 2005–2006

Certificates & Professional Development

- Team-Based Learning Workshop – BAU, February 16, 2024
- Principles & Implementation of ISO 17025:2005 Standards – Monroe Hotel, June 2013
- ISO 17025 Internal Audit Training – Markazia Hotel, August 2013
- Disaster Risk Reduction – BAU, Dibbieh, October 2013
- First Aid & CPR – BAU, Dibbieh, October 2013

Languages

Arabic – Native | English – Fluent

