Reham A. Abd-Ellatif, Ph.D.

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PROFESSIONAL SUMMARY

Accomplished researcher and teaching assistant with over 7 years of experience in applied chemistry, nanomaterials synthesis, membrane fabrication and characterization, water quality testing, and chemistry education. Skilled in analytical thinking, project management, and communicating complex scientific ideas. Seeking to leverage extensive research background and strong technical skills to further develop innovative solutions for water treatment and desalination.

PROFESSIONAL PREPARATION

Ph.D. [2019– 2022] – Chemistry (Minor in Physical Chemistry).
Faculty of Science, Cairo University, **Egypt**.
Advisor: Prof. Gamal R. Saad
"Preparation and Characterization of Polyvinylidene Fluoride Nanocomposite Membranes for Water Treatment Applications"

M.S. [2018 – 2019] – Chemistry (Minor in Physical Chemistry).
Faculty of Science, Cairo University, **Egypt**.
Advisor: Prof. Mohamed R. Shehata
"Preparation and Characterization of Electrospun Nanofiberous Membrane for Water Purification"

B.S. [2006 – 2010] – Applied Chemistry.
Faculty of Science, Cairo University, **Egypt**.

PUBLICATIONS

1. Reham A. Abd El-Latif, Marwa E. Abdel Aziz, Safaa H. El-Taweel, Malak T. Abou El-Khair, and Gamal R. Saad. 2022. "Effects of Co-Solvent on the Morphology, Physicochemical Properties, and Performance of PVDF Electrospun Membranes in Comparison to Flat-Sheet Membranes" Journal of Composites Science 6, no. 9: 253. https://doi.org/10.3390/jcs6090253

2. Reham A. Abd El-Latif, Mohamed R. Shehata, Hamdi M Hassaneen, Malak Abu el khair. 2020. "Preparation and Characterization of PVDF/Ag Nanocomposite Microfibrous Membrane with Antibacterial Resistance for Water Purification." 8th biannual international conference of chemistry" Chem08.
doi: 10.13140/RG.2.2.28447.07842

PROFESSIONAL EXPERIENCE

Research Assistant,

Cairo University, 2018-2022

- Conducted research on advanced membrane development and applications for desalination.

- Fabricated and characterized polymeric filtration membranes.
- Evaluated membrane performance for utilization in desalination systems.

Researcher, Egyptian Desalination Research Center, 2016-2018

- Led research and development of advanced membranes for desalination.
- Assessed water samples for chemical and microbiological quality.
- Performed laboratory testing and analysis of drinking water.

Editorial Quality Assurance, Hindawi Publishing Corporation, 2012-2015

- Audited peer-review process for the sake of manuscript quality.
- Checked manuscripts for scope, plagiarism, and author history.
- Took actions on manuscripts - approve, reject, or transfer.

SKILLS AND INTERESTS

- Excellent written and verbal communication abilities in English and Arabic
- Skilled in a variety of analytical instrumentation and laboratory techniques
- Proficient in MS Office, data analysis, and scientific writing
- Dedicated to continuous learning and improvement.
- Passionate about volunteering, reading, and science journalism (science communicator at Aljazeera media network).