

Muriel Tzadka

Mail: murieltz@soreq.gov.il

Cell phone: 972-50-6292636

Address: Meizner 9/6 Petach-Tikva

Personal statement

A physical chemist. Experienced in leading R&D scientific projects, working with a variety of microscopy methods, engaging with senior level stakeholders, leading and motivating teams, collaboration with teams in Israel and abroad, active participation in scientific conferences in Israel and abroad. With excellent interpersonal skills and high level oral and written communication skills. Capable of dealing with stress and multitasking in different environments, analyzing and solving real-time problems, motivating colleagues and employees.

Education

- 2015-2020** **Ph.D.** in Chemistry, Tel-Aviv University. Research subject: "Understanding and controlling the formation of metal nanowire films produced by seeded growth", under the supervision of Prof. Gil Markovich.
- 2008-2013** **M.Sc.** in Chemistry (**magna cum laude**), Tel-Aviv University. Research subject: "Preparation of Silver-Cholate nanostructures and studies of their chiroptical properties".
- 2003-2006** **B.Sc.** in Chemistry (**magna cum laude**), Tel-Aviv University, with a research project on "Synthesizing BaTiO₃ and PbTiO₃ ferroelectric nanocrystals".

Professional experience

2019-present **A researcher at Soreq NRC.**

2015-2020 **Research associate, Ramot at Tel-Aviv University Ltd.**

- Developing metal nanowires based **transparent electrodes**, in the laboratory of Prof. Gil Markovich, combining printing techniques and advanced scientific analysis techniques.
- Developing deposition methods for unique needs of companies in Israel and abroad.
- Guiding undergraduate students performing tests and experiments for our project.

2015-2020 **Junior academic staff, School of Chemistry, Tel-Aviv university**

- Scientific instructor at the AFM-STM student laboratory and a teaching assistant in general chemistry courses.

2006-2015 **Military service in the NBC protection division/Office of assistant minister of defense for CBRN defense, Ministry Of Defense**

- Management of R&D Detection & Identification projects against CBRN threats, requiring scientific knowledge.
- Initiating and guidance R&D projects, planning trials and trainings together with the head of research groups.
- Managing professional committees for characterizing demands and systems analysis.
- Participating as a part of negotiation teams.
- Performing administrative work such as technologies surveys and scenarios analysis.
- Participating in international conferences.
- Engaging with military and civil organizations: research institutes, civil industries, governmental offices.

2013-2015 Spectral imaging officer

2012-2013 Acting head of Detection and Identification section

2006-2012 Detection and Identification section

Outstanding officer for the year 2011, received by the head of the division

Special trainings

11-12/2011 Project management course

01/2008 Detectors maintenance course

08/2007 Defense against CBRN threats course

Muriel Tzadka

Computerization skills: Office, Origin, CVI

Scientific analysis skills: TEM ,SEM ,AFM ,Spectrophotometer ,MicroFab Jetlab4 inkjet printer ,Spin-coating, LEXT confocal microscope ,Spectrophotometer

Languages: **Hebrew:** Mother tongue language **French:** Mother tongue language **English:** Mother tongue level **Spanish:** Basic