

CURRICULUM VITAE

Name: Dr. Magal Saphier

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Date & place of birth: 1964, Beer-Sheva, Israel.

Marital Status: Married + two daughters.

Languages: Hebrew and English fluent.

Profile:

- 1982** High School graduation- Chemistry
- 1982-86** Army service - Lieutenant upon release and currently major in the reserves.
- 1988-92** B.Sc. in Chemistry at Ben-Gurion University – Beer-Sheva, Israel.
- 1992-94** M.Sc. in Chemistry at Ben-Gurion University. Guided by Professor Dan Meyerstein and Professor Haim Cohen.
Thesis Title: COPPER(I) CATALYZED EXCHANGE OF ARYL BROMINE BY HYDROXYL. THE CASE OF 2-BROMOBENZOIC ACID IN AQUEOUS SOLUTIONS.
- 1994-98** Ph.D. in Chemistry at Ben-Gurion University. Guided by Prof. Dan Meyerstein and Prof. Haim Cohen. A detailed study of the M.Sc. Thesis with emphasis on: STABILIZATION OF MONOVALENT COPPER ION IN AQUEOUS SOLUTION.
- 1998-99** Q.C. Lab Vice-manager in Makhteshim Chemical Works LTD, Israel.
- 2009-10** Independent counselor for Development & Implementation of Chemical processes. Main clients: Better place (electric vehicle), Bensitec (Recycling used Lithium Ion batteries).
- 2000-13** Research Chemist in Nuclear Research Centre Negev (N.R.C.N), Israel. Joint research with Prof. Dan Meyerstein, Ben-Gurion University, "**Design and Synthesis of a New Chelate for the Uranyl Ion**" (2001-06). Joint research with Prof. Dirk Guldi, Friedrich-Alexander-Universitat Erlangen-Nuernberg-Germany, Title: "**New Copper(III) porphyrin fullerene dyads show photoinduced Electron-Transfer**"

(sabbatical **2006**). Joint research with Dr. Oshra saphier, Sami Shamoon College of Engineering of the Negev–Israel, "**Cu(I) in aqueous solutions**" (**2006-12**). Joint research with Dr. Freger, Ben-Gurion University, "**Analysis of the Effect of the Ion Self-Energy on the Salt Permeability in Nanofiltration**" (**2008-11**). Joint research with Prof. Dan Meyerstein, Ben-Gurion University, "**Complexion of fluoarid with metls oxides** " (**2012-**).

General Research Areas:

Transition metals, Inorganic Chemistry, Catalysis, Analytical chemistry, Chemical Processes, Chemical Engineering.

Topics of Expertise:

1. Detailed product analysis using G.C.; HPLC ; U.V.-VIS.; ICP; M.S; N.M.R; E.S.R and I.R. measurements.
2. Investigation of kinetics and mechanisms of reactions using spectrophotometric and electrochemical techniques.
3. Radiation Chemistry of aqueous solutions; Pulse radiolysis.
4. Chemical Processing Research.
5. Research Lab management, Q.C Lab management, G.L.P.; ISO9000.

Grants

- Extraction, redox and complexation of uranium in solutions and ion exchangers. Planning and Grants Committee Council of Higher Education in cooperation with the Israel Atomic Energy Commission – ca \$ 20,000 annually 2001-06.
- Complexion of fluoride with metal oxides. Planning and Grants Committee Council of Higher Education in cooperation with the Israel Atomic Energy Commission – ca \$ 20,000 annually 2011-16.

Graduate students:

Yael Albo - M.Sc. and Ph.D. degree 2001-6

Tova Yifrah - M.Sc degree 2008-10

Shraon Anker - M.Sc degree 2009-11