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## BIOGRAPHICAL SKETCH

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NAME Raz Gvishi	POSITION TITLE Researcher, head of the Photonic Materials Group, Applied Physics Division, Soreq-NRC
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### EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
Hebrew University, Jerusalem, Israel	B.Sc	07/87	Physics & Chemistry
Hebrew University, Jerusalem, Israel	M.Sc	07/89	Chemistry
Hebrew University, Jerusalem, Israel	Ph.D.	09/93	Chemistry
State University of Buffalo (SUNY), Buffalo NY	Postdoc	09/95	Physical Chemistry

### A. Personal Statement

I have a Ph.D. in Chemistry, currently I am the head of the Photonic Material Group, Applied Physics Division, at Soreq, Israeli National Research Center (since 2010). My goal is developing advanced optical materials which are useful for unique optical applications. Previously I was, Post.Doc at SUNY, Buffalo NY, USA (1993-1995); The head of Spectro-chemistry group at NRC-Negev, Israel (1996-2001); Researcher at the Photonic Material Group, Applied Physics Division, at Soreq, Israeli National Research Center (2001-2009); Sabbatical fellow at CREOL, UCF, FL, USA (2004-2005); and Sabbatical fellow at Engineering Faculty, TAU, Israel (2015).

I am specializing in developing optical materials and their characterization. The major research issues are: developing optical materials based on sol-gel technology, UV-cured optical adhesive materials, porous optical materials (Aerogels), non-linear optical organic materials, electro-chromic and photo-chromic materials, linear and non-linear spectroscopic characterization and polymeric characterization, nanostructures fabrication using direct laser writing (DLW), soft-lithography, UV-lithography and nanoimprint lithography (NIL).

I am a known researcher in the fields of sol-gel technology and nonlinear optics. I have published about 60 Peer-reviewed Publications (according to Scopus 69 with *h* index 17) and many Soreq intra-reports. In the recent years I supervised 10 students for Ph.D, M.Sc and undergraduate projects. At Soreq I established a Center for Knowledge of optical materials which specializes in sol-gel/aerogel technology, glasses and ceramic materials and nonlinear optical filters. The group I lead includes about 10 researchers, engineers and technicians which conducts generic research work with synergy with applied developing projects. We are in close collaboration with several academic's groups, private companies and governmental institutes. My work as a senior researcher includes initiation of the research/project, marketing, work plan writing, guiding the research, analyzing the results, writing reports and papers. In most of my research career and project work I did both the lab work (chemistry and optics) and the management work in parallel.

## **B. Positions and Honors**

### **Positions and Employment**

- 1996-2001 The head of the Spectro-chemistry group, NRC-Negev, Dimona, Israel
- 2001-2004 Researcher, Photonic materials group, Electro-Optics Division, Soreq-NRC, Yavne, Israel
- 2004-2005 Sabbatical fellow, Nonlinear optics group, CREOL, UCF, Orlando Florida, USA
- 2005-2010 Researcher, Photonic materials group, Electro-Optics Division, Soreq-NRC, Yavne, Israel
- 2010-2015 The head of the Photonic materials group, Applied Phys. Division, Soreq-NRC, Yavne, Israel
- 2015-2015 Sabbatical fellow, Nonlinear optics group, Engineering Faculty, Tel Aviv University, Israel
- 2016- The head of the Photonic materials group, Applied Phys. Division, Soreq-NRC, Yavne, Israel

### **Other Experience and Professional Memberships**

- 2005- Member, International Sol-Gel society  
Member, SPIE  
Member, European optical society

### **Honors**

- 1990-1993 Excellence Scholarship on the name of Levy Eschol for Doctoral Student (3 years)
- 1992 Award for research and teaching on the name of Saadia Amiel, Hebrew University.
- 1996-2002 Excellence Scholarship on the name of Abraham Kazir for young researcher (6 years)
- 2004 Award for best researcher of Electro-Optics Division at Soreq-NRC, Yavne.
- 2007 Award for best Poster at the International Sol-Gel Society conference, Montpellier, France.
- 2007 Award for best team-researchers of Electro-Optics Division at Soreq-NRC, Yavne.
- 2009 Award for best researcher of Electro-Optics Division at Soreq-NRC, Yavne.
- 2017 My student Shlomi Lightman was award by Pazy Foundation for best student research.