Dr. Shmuel Barzilai - Curriculum Vitae

Personal Details:

Name:	Shmuel Barzilai	
Born:	At 1969 in Beer-Sheva, Israel.	1
Status:	Israeli citizen; married, +3.	10
Address:	Department of Materials Science, Nuclear Research Center Negev, POB 9001, Beer Sheva, ISRAEL. Tel. 972-8-6568843 (work); 972-77-4249926 (home); 972-50- 6239137 (mobile); Fax. 972-8-6567878; e-mail: <u>barzilai.shmuel@gmail.com</u>	Th

Education:

- **B.Sc.**, 1990-1994 Department of Physics, Ben-Gurion University. Summa cum laude
- **B.Sc.**, 1990-1994 Department of Materials science and engineering, Ben-Gurion University. Summa cum laude
- M.Sc., 1995-1998 Department of Industrial Management, Ben-Gurion University. Summa cum laude
- M.Sc., 2001-2004 Department of Materials science and engineering, Ben-Gurion University. Summa cum laude
- Ph.D., 2005-2010 Department of Materials science and engineering, Ben-Gurion University.

Employment:

1995-present - Research member at materials science department, the Nuclear Research

Center Negev (NRCN).

- 2007-2008 Sabbatical at Ben-Gurion University, in the group of Prof. Frage.
- 2011-2013 Post doc in Materials science division at NIST (Maryland), in the group of Dr. Lyle Levine.

<u>Awards</u>

- 2011 Pazy award for research achievements and excellence studies.
- 2012 Award for the best paper in the Journal of Materials Science, for Dec 2012.

- 2015 The head of the NRCN award for excellent research.
- 2018 The head of the NRCN award for excellent research.

Research areas

- 1. Ab initio calculations using Density functional theory.
- 2. Thermodynamic evaluation
- 3. Dynamic wetting and interfaces between doped metals and ceramics. Wettability measurements, infiltration and thermodynamic evaluation of contact interaction.
- 4. Material coating by plasma sputtering

Summary of publications in scientific (refereed) journals

Area	# of papers (first author)
Ab initio calculations	20 (16)
Thermodynamics, wettability and interface interactions	16 (12)
Coatings	4 (4)
others	2 (1)
Total	42 (33)

*This table includes only the peer review publications. There are around 60 additional proceedings/posters/oral presentations that are not included.