

Dr. Nissim Navi - Curriculum Vitae

Personal Details

Date and place of birth: January 12, 1965, Tel-Aviv, Israel
Nationality: Israeli
IDF: Compulsory service
Language: Hebrew - mother tongue
English - fluent

Office

Department of Materials
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Education

- 2012 Ph.D., Nuclear Engineering, Ben-Gurion University of the Negev, Israel.
Thesis subject:
Fate of short-lived isotopes in perovskite ceramic nuclear waste forms
Supervisors: Prof. Moshe Mintz, Prof. Roni Shneck, Prof. Giora Kimmel, Ben-Gurion University of the Negev, Israel
and
Prof. Alexandra Navrotsky, University of California at Davis, Davis, USA.
- 1995 M.Sc., Materials Engineering, Ben-Gurion University of the Negev, Israel.
Thesis subject:
Preparation and characterization of SiC matrix composites by chemical vapor infiltration (CVI)
Supervisors: Dr. David Itzhak , Ben-Gurion University of the Negev, Israel and Dr. Mordechai Dariel, Nuclear Research Center-Negev, Israel.
- 1991 B.Sc., Materials Engineering, Ben-Gurion University of the Negev, Israel.

Employment

2017- present	Visiting Scientist – Department of Materials Science and Engineering, Tel-Aviv University, Tel-Aviv, Israel and Research Fellow – Department of Mechanical Engineering, Shamoon College of Engineering, Beer-Sheva, Israel.
2012 - 2017	Head - Materials Processing Laboratory, Department of Materials, NRCN, Israel
2009 - 2012	Head - Metal Forming group, Materials Processing Laboratory, Department of Materials, NRCN, Israel
2008 - 2009	Thermal Treatments and Casting group, Materials Processing Laboratory, Department of Materials, NRCN, Israel
2007 - 2008	Visiting Scientist – Peter A. Rock Thermochemistry Laboratory and NEAT ORU, University of California at Davis, Davis, USA
2006 - 2007	Head - High Temperatures group, Applied Chemistry Section, Department of Chemistry, NRCN, Israel
2002 - 2005	Applied Chemistry Section, Department of Chemistry, NRCN, Israel
2001 - 2002	Visiting Scientist – Department of Mechanical and Aerospace Engineering, School of Engineering and Applied Science, The George Washington University, USA, in collaboration with the Plasma Processing Section of the Surface Modification Branch, Materials Division, Naval Research Laboratories (NRL), USA
1992- 2001	Applied Chemistry Section, Department of Chemistry, NRCN, Israel

Main fields of interest

High temperature processes, metal forming, thermochemistry, ceramics, perovskites, calorimetry, molten salts chemistry/ electrochemistry, film deposition, metal matrix composites.

Activities

- 2017 Co-advisor of Mr. Gal Abotbul and Mr. Oron Blumenfeld B.Sc. project in Department of Mechanical Engineering, Shamoon College of Engineering, "Development of Powder Densification System for Hydraulic Press".
- Research Fellow at the Center of Thermo-Mechanics and Failure of Materials, Department of Mechanical Engineering, Shamoon College of Engineering, Beer-Sheva, Israel.
- Panel member in the final B.Sc. project review - Department of Mechanical Engineering, Shamoon College of Engineering, Beer-Sheva, Israel.
- 2015 Reviewer of Mr. Tomer Mordechai's M.Sc. thesis, Department of Material Engineering, Ben-Gurion University of the Negev, Israel, "Effects of Treatment Duration and Cooling Rate on Pure Aluminum Solidification upon Pulse Magneto-Oscillation Treatment".
- 2014 - 2015 Co-advisor of Mr. Almog Biton's and Mr. Moshe Bracha's B.Sc. project in Department of Mechanical Engineering, Shamoon College of Engineering, "Design and Validation of a Forward Extrusion System with Controlled Product Quenching" (in Hebrew).
- 2012 - 2015 Co-advisor of Mr. Ziv Ungarish's M.Sc. thesis, Department of Nuclear Engineering, Ben-Gurion University of the Negev, Israel, "A Study of the Interface Between Mg Alloys and Al Clad for Understanding the Cladding Process by Extrusion" (in Hebrew).
- 2009 Chair of Materials for Energy Applications session in the 13th *International IUPAC Conference on High Temperature Materials Chemistry-HTMC-13*, September 15 -18, 2009, University of California at Davis, Davis CA, USA.
- 2007 Co-advisor of Mr. Mark Taieb's B.Sc. project in Department of Chemical Engineering, Shamoon College of Engineering, "Feasibility Test of TiO₂ Reduction to Ti by Ca in Molten CaCl₂" (in Hebrew).

Awards

- 2017 NRCN Director - Excellence award for outstanding research for year 2016
- 1999 IAEC Director - Excellence award for outstanding R&D for year 1998
- 1992 Annual Conference of the Israeli Association for Crystal Growth, the Weizmann Institute of Science, 1992 – Excellence award for outstanding poster