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Professional Experience

- **May 2011-Present.** Materials Scientist, Lithium Battery Materials Group, Electrochemical Energy Storage Technology, Argonne National Laboratory.
- **July 2010 - April 2011.** Assistant Materials Scientist, Electrochemical Energy Storage Technology, Argonne National Laboratory.
- **July 2008 - June 2010.** Argonne Scholar (Director's Postdoctoral Fellow), Argonne National Laboratory.
- **Jan. 2007 - June 2008.** Postdoctoral Appointee, Intense Pulsed Neutron Source, Argonne National Laboratory.
- **Jan. 2005 - Dec. 2006.** Postdoctoral Fellow, Bar-Ilan Institute of Nanotechnology and Advanced Materials, Israel.

Education

- **Ph. D.** Center for Advanced Materials and Nanotechnology, University of Bar-Ilan, Ramat-Gan-52900, Israel, 2005.
- **M. Phil.** Chemistry Department, University of Pune, India, 1999.
- **M. Sc.** (Inorganic Chemistry), University of Pune, India, 1996.
- **B. Sc.** (Chemistry), University of Pune, India, 1994.
- **Diploma** in Computer Management, University of Pune, India, 1997.
- **Diploma** in Total Quality Management & ISO 9000 with distinction, India, 1998.

Awards

- First prize, Art of Science competition, Argonne National Laboratory (2011).
- Grand Prize, American Chemical Society's worldwide "How Does Chemistry Help YOU Be Green?" video contest (2010).
- Near Hit Award, Argonne National Laboratory (2010).
- Director's Postdoctoral Fellowship (Argonne Scholar), Argonne National Lab. (2008).
- Director's Postdoctoral Fellowship, Los Alamos National Lab., (2007), *declined*
- Intel Prize, Outstanding poster, 25th Israel Vacuum Society Conference, (2006).
- Best Student Award, All Maharashtra State Student Welfare Association, India (2000).
- Gold Medal, Kabaddi, DRDO Sports Board, Government of India (2000).

Career Activities & Highlights

- Editorial Board, Green and Sustainable Chemistry (2011 – present)
- Editorial Board, The Open Colloid Science Journal, (2010 – present)
- Editorial Board, The Open Ceramic Science Journal, (2010 – present)
- Editorial Board, Carbon Science & Technology, (2009 – present)
- Active member of the Electrochemical Society (ECS), Materials Research Society (MRS), American Ceramic Society (ACS), American Nano Society (ANS) and Founder member of Postdoctoral Society of Argonne (PSA)
- Invited speaker at numerous National and International Meetings
- Reviewer of more than 30 international scientific journals and projects
- Co-organizer, 7th International Symposium on Inorganic Phosphate Materials, 2011
- Research activities has been aired on the NOVA (Making stuff cleaner), ABC-7, Univision and Asia TV programs.
- Research accomplishments are featured in New Scientists, Discovery News, American Chemical Society, Royal Society of Chemistry, Popular Science, US Energy blogs, and many other media outlets.

Research Interests

- Blending materials science, chemistry, nanoscience, engineering and electrochemistry to develop functional electrode materials for their energy storage applications.
- Design and development of fascinating nano or micrometer size electrode materials and their interfaces, employing self-developed dry autoclaving and sonochemical approaches.
- Characterization of these novel materials with advanced morphological, structural, compositional tools and further testing of their electrochemical performance in lithium ion, Li-oxygen and lithium sulfur batteries.
- International collaborations to investigate newfangled material's application in magnetic, solar cells, tribology, luminescent, photocatalytic and superconducting devices.

Publications & Patents

- 95 Peer-reviewed publications
- 70 technical presentations
- 7 Patents and patent applications
- 3 Book chapters
- Numerous reports, extended abstracts, and proceedings papers