

## Noam Lior

Professor  
Mechanical Engineering and Applied Mechanics (MEAM)

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Honors and Awards: Fellow of the American Society of Mechanical Engineers (ASME) - 1991, American Institute of Aeronautics and Astronautics Assoc. Fellow - 2003, ASME Edward F. Obert Award in Thermodynamic - 1992 and 2010, Guest Professor Chinese Academy of Sciences - from 2013

Research Expertise: Thermal Sciences and Energy Conversion | Fluid Mechanics | Water Desalination | Sustainability

Noam's research interests are in heat transfer and fluid mechanics, thermodynamics and Second-Law/Exergy analysis, energy conversion, solar energy, combustion, membrane distillation, flash evaporation and water desalination, destruction of hazardous wastes by photocatalysis and supercritical oxidation, scientific sustainability analysis, and heat treatment.

### Education:

PhD Mechanical Engineering 1973 - University of California at Berkeley  
MS Mechanical Engineering 1966 - Technion in Israel  
BS Mechanical Engineering 1962 - Technion in Israel

### Recent Publications

- [Mirrors in the sky: Status, sustainability, and some supporting materials experiments](#), Lior, N., Renewable and Sustainable Energy Reviews, 2013
- [The integrated heat storage flash boiler \(hsfb\): Review, principles, design and testing](#), Lior, N. | Girbal-Puig, A., ASME International Mechanical Engineering Congress and Exposition, Proceedings (IMECE), 2012
- [Advanced Instrumentation, Measurement, Control, and Automation \(IMCA\) in Multistage Flash \(MSF\) and Reverse-Osmosis \(RO\) Water Desalination](#), Lior, N. | El-Nashar, A. | Sommariva, C., Advances in Water Desalination, 2012
- [Preface](#), Lior, N., Advances in Water Desalination, 2012
- [Advances in Water Desalination](#), Lior, N., Advances in Water Desalination, 2012

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