

GERSHON GROSSMAN

- Personal:** Born in Haifa, Israel, December 28, 1942
Married with two children
Citizen of Israel
Present Residence: 15, Ovadia St.
Haifa, Israel 34564
(972) 4-8334782
- Education:** Sc.D., Mechanical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. U.S.A., 1971

M.Sc., (with distinction), Mechanical Engineering, Technion, Israel Institute of Technology, Haifa, Israel, 1967

B.Sc., (Cum Laude), Mechanical Engineering, Technion, Israel Institute of Technology, Haifa, Israel, 1964
- Summary of Academic and Industrial Experience:**
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|-----------------|---------------------|
| 2011 - present: | Professor Emeritus |
| 1987 - 2011: | Professor |
| 1979 - 1987 | Associate Professor |
| 1973 - 1979 | Senior Lecturer |
- Faculty of Mechanical Engineering, Technion - Israel Institute of Technology, Haifa, Israel.
Graduate and Undergraduate Teaching in Thermodynamics, Fluid Mechanics, Heat and Mass Transfer, Energy Technology, Cooling and Air Conditioning, Mechanical Engineering Laboratory.
(on sabbatical leave 1980 - 1982, 1987 - 1989, 1995-1996, 2007, 2010)
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| Spring-summer 2010 | Guest Researcher, National Institute of Standards and Technology (NIST), Boulder, Colorado, U.S.A. |
| Spring-summer 2007 | <i>Research on cryogenic cooling systems</i> |
| Spring 2005 | |
| Summer 2001 | Visiting Scientist, Lawrence Berkeley National Laboratory, Berkeley, California, U.S.A.
<i>Research on combined heat and power systems</i> |
| 1995 - 1996 | Senior Development Staff Member, Lockheed Martin Energy Systems, Oak Ridge National Laboratory, Oak Ridge, Tennessee, U.S.A.
<i>Research and development on residential absorption heat pumps and desiccant systems. Major projects - development of modular computer</i> |

simulation of absorption systems (ABSIM) and applications to complex multi-stage absorption heat pumps.

- 1987 - 1989 Program Engineer, L'Garde, Inc. Tustin, California, U.S.A.
Research and development on inflatable structures. Major projects - deployable solar concentrator, high power inflatable radiator, advanced launch system recovery ballute, thermal management of spacecraft.
- 1987 - 1989 Visiting Researcher, Department of Mechanical Engineering, University of California at Irvine, Irvine, California, U.S.A.
- Summer 1983, 1985, 1986, 1987, 1990-1995 Visiting Scientist, Oak Ridge National Laboratory, Oak Ridge, Tennessee, U.S.A.
Research on residential absorption chillers and heat pumps
- Summer 1984 Visiting Professor, Department of Physics, Technische Universität München, Garching bei München, Germany.
Winter 1987
- 1980 - 1982 Research Staff Member, Union Carbide Corp., Nuclear Division, Oak Ridge National Laboratory, Oak Ridge, Tennessee, U.S.A.
Research and development on industrial and residential heat pumps. Major projects - development of lithium bromide-water absorption heat transformer for low-grade heat recovery and computer simulation of different heat pump cycles.
- 1975 - 1980 Consultant, Tadiran - Israel Electronics Industries, Applied Solar Devices Division, Tel Aviv, Israel.
Development of solar systems for domestic and industrial applications - absorption chiller, flat-plate and concentrating collectors, storage and control systems.
- Summer 1978 Visiting Scientist, National Institute of Mechanical Engineering, Council for Scientific and Industrial Research, (CSIR), Pretoria, South Africa.
Research on solar air conditioning - system based on controlled evaporation and dehumidification with tri-ethylene glycol desiccant.
- Summer 1975 & 1977 Visiting Associate Professor, Materials & Energy Research Center, Arya-Mehr University, Tehran, Iran.
Research on solar thermal systems.
- Summer 1976 Academic Visitor, Department of Mechanical Engineering, Imperial College, London, England.
- 1975 Visiting Senior Lecturer, Faculty of Engineering, Ben-Gurion University, Beer-Sheva, Israel.
- 1971 - 1973 Staff Scientist, Avco Corp., Systems Division, Wilmington, Massachusetts, U.S.A.
Research and development on water desalination and purification - freeze crystallization and ion-exchange systems.

- 1967 - 1971 Research Assistant and Graduate Student, Department of Mechanical Engineering, Massachusetts Institute of Technology, Cambridge, Massachusetts, U.S.A.
- 1966 - 1967 Teaching Assistant and Graduate Student, Faculty of Mechanical Engineering, Technion - Israel Institute of Technology, Haifa, Israel.
- 1967 Instructor, Heat and Power Technicians Course, Technion, Haifa, Israel.
- 1964 - 1966 Mechanical Engineer, Israeli Navy, Armament Research and Development Branch (Military Service). Rank - Lieutenant.
Development and testing of military equipment for naval applications.

Administrative Experience:

- 2013 Chair, Committee on formulating an Israeli Standard for Absorption Water Chillers, The Standards Institution of Israel.
- 2013 Chair, Committee on Academic Curriculum for Energy Engineering Studies toward a Bachelor's Degree in Israeli Colleges, Israel Council for Higher Education.
- 2010 Member, Academic Committee on National Effort to develop Technologies for reducing World use of Oil for Transportation, the National Economic Council, Prime Minister Office.
- 2008- 2010 Member, Energy Committee, the Israel National Council for Research and Development.
- 2005- present Head, Rechler Cryogenic Cooling Laboratory, Faculty of Mechanical Engineering, Technion - Israel Institute of Technology.
- 1996 - present
1989 - 1995
1982 – 1987 Head, Solar Energy Laboratory, Faculty of Mechanical Engineering, Technion - Israel Institute of Technology.
- 2002 – 2010 Head, Center for Energy Engineering and Environmental Preservation, Faculty of Mechanical Engineering, Technion - Israel Institute of Technology.
- 2006 – present Head, Energy Forum, the Samuel Neaman Institute for National Policy Research, Haifa, Israel.
- 2006 – present Member, Green Campus Council, Technion - Israel Institute of Technology.
- 2005 – 2015 Member of the Executive Board, Israel Union for Environmental Defense (Adam Teva Vadin).

2008 – 2015	Member, Steering Committee for the Grand Technion Energy Program, Technion - Israel Institute of Technology.
2008 – present	Member, Graduate School Inter-Departmental Committee on Energy and the Environment, Technion - Israel Institute of Technology.
2004 – 2007	Member, Presidential Appointment Committee, Technion - Israel Institute of Technology.
2003 – 2005	Member, Steering Committee on Energy R&D, Chief Scientist Office of the Israel Ministry of Agriculture and Rural Development.
2000 – 2002	Senate representative to the Board of Governors, Technion - Israel Institute of Technology.
1997 - 2001	Dean, Faculty of Mechanical Engineering, Technion - Israel Institute of Technology.
1998 - 2000	Member, Evaluation Committee, Israel Mining Industries (IMI), Haifa, Israel
1999 – 2000	Member, Vice Presidents Appointment Committee, Technion - Israel Institute of Technology.
1996 - 1999	Chairman, Scientific Committee, and Member, Organizing Committee for the 99' International Solar Energy Society (ISES) Solar World Congress, Jerusalem, Israel
1994 - 1999	Member, Technology Branch Committee on Alternate Energies, Chief Scientist's Office, Israel Ministry of Trade and Industry.
1998	Member, Vice President for Research Committee on the Establishment of the Research Authority, Technion - Israel Institute of Technology.
1997 - 1998	Member, Academic Development Committee, Technion - Israel Institute of Technology.
1993 - 1995	Member, Advisory Committee, the Samuel Neaman Institute for Advanced Studies in Science and Technology, Haifa, Israel.
1993 - 1995	Member, Senate Research Committee, Technion - Israel Institute of Technology.
1991 - 1994	Member (since 1993 - Chairman), Judicial panel, Student Disciplinary Court, Technion - Israel Institute of Technology.
1990 - 1993	Member, Senate Steering Committee, Technion - Israel Institute of Technology
1990 - present	Member, Scientific Council, International Center for Heat and Mass Transfer, Ankara, Turkey (formerly Belgrade, Yugoslavia).

1989 - 1991	Member (since 1990 - Chairman), Institute Student-Faculty Committee, Technion - Israel Institute of Technology.
1987 - 1990	Chairman, Finance Committee, the '90 International Heat Transfer Conference, Jerusalem, Israel
1984 - 1987	Member, Standing Committee of the Senate for Undergraduate and Graduate Studies, Technion - Israel Institute of Technology.
1984 - 1987	Assistant Dean for Undergraduate Studies, Faculty of Mechanical Engineering, Technion - Israel Institute of Technology.
1982 - 1987	Member, Standards Committee for Solar Energy Systems, Israel Standards Institute.
1983 - 1984	Member, Undergraduate Curriculum Committee, Faculty of Mechanical Engineering, Technion - Israel Institute of Technology.
1981 - 1982	Member, Technical Committee on Heat Pump Program Integration, U.S. Department of Energy.
1978 - 1979	Member, Energy Conservation Awards Committee, Israel Ministry of Energy.
1978	Chairman, Organizing Committee for the International Conference on the Applications of Solar Energy, Haifa, Israel.
1975 - 1977	Head, Energy Laboratory, Faculty of Mechanical Engineering, Technion - Israel Institute of Technology.
1975 - 1977	Coordinator, Cooperative meetings of solar energy research groups at the Technion - Israel Institute of Technology.
1974, 1979	Coordinator, Departmental Seminars, Faculty of Mechanical Engineering, Technion - Israel Institute of Technology.
1974	Member, Institute Committee on Energy Research at the Technion.
1974	Member, Energy Committee, Israel Museum of Technology.

Current Research Interests and Activities:

Heat Pumps: absorption chillers, heat pumps and heat transformers; waste heat utilization; industrial and residential heat pumps; energy conservation.

Solar Energy: heating and cooling of buildings; solar air conditioning and dehumidification; solar water and space heating; heat storage; solar energy for industrial applications.

Cryogenic Cooling: Stirling and Pulse Tube cryocoolers, Joule-Thomson systems, adsorption compressors

Micro-Electrical-Mechanical Systems (MEMS): thermal management; uncooled IR detectors; thermal actuators

Consulting:

- 2018: Lordan LTD, Kfar Sold, Israel: *Consulting on cooling systems employing carbon dioxide as refrigerant.*
- 2010-2016: Israel Electric Company: *Lectures and presentations on renewable energy utilization.*
- 2007 – 2009: Ricor – Cryogenic and Vacuum Systems, Ein Harod, Israel: *Consulting on the Company's involvement in a new enterprise concerning cooling of electronic circuits.*
- 2007: Erlich and Fenster, Patent Attorneys, Ramat Gan, Israel: *Consulting on litigations regarding patents on liquid desiccant dehumidification.*
- 2004 – 2005: Mor Engineering, Jerusalem, Israel: *Consulting on the development of a novel hybrid absorption/compression heat pump.*
- 2003 – 2004: Kibbutz Shefayim, Israel: *Consulting on the development of an artificial snow park.*
- 1998 – 2000: Gal-Shat LTD, Kfar-Saba, Israel: *Consulting on artificial snow dehumidification and cooling systems.*
- 1996 – 2000: The Jewish Agency, Department of Rural and Urban Development, Jerusalem, Israel: *Consulting on ice rink cooling systems.*
- 1998 – 1999: Drykor LTD, Atlit, Israel: *Consulting on liquid desiccant air conditioning and dehumidification systems.*
- 1997: Automat - Oranim Ltd. Jerusalem, Israel: *Development of a test method for freeze-protection systems for solar collectors.*
- 1994 – 1995: RASKOR - Delek Car Air-conditioning Ltd. Ramat-Gan, Israel: *Consulting on automotive air conditioning systems.*
- 1990 – 1992 Even-Ziv Co. Ltd. Tel Aviv, Israel: *Consulting on a novel refrigeration system.*
- 1990 – 1991 Israel Electric Corp., Haifa, Israel: *Study of dry cooling towers for rejection of waste heat from power plants.*
- 1989 – 1991 L'Garde Inc., Tustin, California, U.S.A.: *Consulting on thermal management of spacecraft and on inflatable structures.*
- 1985 – 1987 PAZ - Oil Co., Ltd., R&D Branch, Haifa, Israel: *Consulting on industrial applications of solar energy and heat pumps.*

- 1985 – 1987 TADIRAN - Israel Electronics Industries, Holon, Israel: *Consulting on thermal management in electronic packages.*
- 1983 – 1985 Australian Wool Industries, Ltd., Ashdod, Israel: *Consulting on energy conservation in the company's plant.*
- 1983 – 1985 GALIL Technologies Ltd., Ramat Gan, Israel: *Review of development proposals in the field of energy conservation.*
- 1982 – 1983 ELECTRA (Israel) Ltd., Rishon Letzion, Israel: *Consulting on solar-assisted residential heat pumps.*
- 1978 – 1980 ERGO - Energy Corporation, Ltd., Haifa, Israel: *Consulting on solar energy applications, energy conservation, co-generation.*
- 1979 – 1980 YALCIN TEKNİK Engineering Co., Ankara, Turkey: *Consulting on solar energy utilization for water heating, space heating, and air conditioning.*
- 1978 – 1980 IMCO - Industrial and Marine Engineering, Haifa, Israel: *Consulting on the development of a high-temperature concentrating solar collector.*
- 1977 – 1978 LIFE - Industrial Planning and Engineering Co., Haifa, Israel: *Consulting on solar energy applications and energy conservation.*
- 1978 PAZ - Oil Co., Ltd., Haifa, Israel: *Consulting on the participation of the company in a solar energy commercial venture.*
- 1978 Brown and Root International, Ltd., Tehran, Iran: *Consulting on solar heating in housing projects.*
- 1977 ARMITI - Consulting Engineers, Tehran, Iran: *Consulting on the design of solar water and space heating for a housing project.*
- 1969 – 1971 Lehigh University, Department of Metallurgy and Material Science, Bethlehem, Pennsylvania, U.S.A.: *Development of mathematical models for metal-forming processes.*

Awards and Honors:

- 2017 ASME Frank Kreith Energy Award, International Mechanical Engineering Conference and Exhibition, Tampa, Florida.
- 2017 Russell B. Scott Memorial Award, Cryogenic Engineering Conference, Madison, Wisconsin, Cryogenic Society of America.
- 2010 Elected Fellow - American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE).

2010	Hershel Rich Innovation Award, Technion - Israel Institute of Technology.
2009	Russell B. Scott Memorial Award, Cryogenic Engineering Conference, Tucson, Arizona, Cryogenic Society of America.
2008	Georg Alefeld Memorial Award on Absorption Heat Pump Technology, International Sorption Heat Pump Conference, Seoul, Korea.
2006	Excellence in Teaching Citation, course on Energy Technology, Technion - Israel Institute of Technology.
1993	General Yakov Dori Memorial Prize on Technological Innovation, City of Haifa, Israel.
1992	Sherman-Gilbert Chair in Energy, Technion - Israel Institute of Technology.
1989	Elected Fellow - American Society of Mechanical Engineers (ASME).
1978	CSIR, South Africa and NCRD, Israel - Scientist Exchange Program Grant.
1976	British Royal Society and Israel Academy of Sciences - Scientist Exchange Program Grant.
1975	Gutwirt Research award, Technion - Israel Institute of Technology.
1967 – 1970	Scholarship, Hebrew Technical Institute, New York, U.S.A.
1967 – 1970	Fulbright Grant for Doctoral Studies.
1960 – 1961 1961 – 1962 1963 – 1964	Student Honorary awards, Technion - Israel Institute of Technology

Membership in Professional Societies:

American Society of Mechanical Engineers (ASME) – Fellow; Member of the Advanced Energy Systems Division Heat Pump Technical Committee, 1998 –2000.

International Solar Energy Society (ISES) - Member; Member of the Board of Directors, 1986 – 1989, 2008 - 2010; Member of the Executive Committee and Secretary of the Israeli Section, ISES, 1979 - 1980, 1982 - 1987; Chairman of the Israeli Section, 1992 – 1995, 2002-2006; Honorary Member since 2013.

American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) - Fellow; Member of Technical Committee 8.3 (Absorption and Heat-Operated Machines) and

Technical Committee 8.12 (Desiccant and Sorption Technology); Member of Israeli affiliate - ISHRAE.

Cryogenic Society of America (CSA) – Member.

Israel Society of MOEMS (IsraMEMS) – Member; Secretary General and Member of the Governing and Founding Committee, 2002 – present.

Reviewer For Scientific Journals:

AIAA Journal of Spacecraft and Rockets

AICHE Journal

AIP Journal of Renewable and Sustainable Energy

Applied Energy

Applied Thermal Engineering

ASHRAE Transactions

ASME Journal of Solar Energy Engineering

ASME Journal of Engineering for Gas Turbines and Power

Canadian Journal of Chemical Engineering

Energy – The International Journal

Heat Transfer Engineering

Industrial and Engineering Chemistry Research

International Archives of Heat and Mass Transfer

International Journal of Heat and Fluid Flow

International Journal of Heat and Mass Transfer

International Journal of HVAC&R Research

International Journal of Refrigeration

International Journal of Thermal Sciences

Israel Journal of Technology

Journal of Computing and Information Science in Engineering

Journal of Heat Recovery Systems and CHP

Journal of Membrane Science

Solar Energy Journal

Reviewer for Sponsoring Organizations:

U. S. National Science Foundation (NSF)

German-Israeli Foundation (GIF) for Scientific Research and Development

Israel Science Foundation

Hong Kong University Grants Committee

Graduate Students:

1. Gabriel Gordon: "Friction-assisted cold continuous extrusion of metals". (Supervised jointly with Prof. J. Tirosh), M.Sc., 1977.
2. Eliezer Fruchter: "A stationary spherical reflector / tracking absorber solar energy collector". M.Sc., 1978.
3. Haim M. Factor: "Solar air conditioning using desiccants - a study of a packed bed dehumidifier and desiccant regenerator". M.Sc., 1978.
4. Daniel Pesotchinski: "A two-dimensional model for thermal energy storage in phase-changing materials". M.Sc., 1979.
5. Aharon Hofstaedter: "Development of solar air heaters and their application in solar energy heating systems". M.Sc., 1980.
6. Shaul Sorek: "Friction forces and stresses in moving porous media". Ph.D., 1980.
7. Farrokh Issacci: "Heat transfer analysis of a finned solar air heater". (Supervised jointly with Prof. Y. Zvirin). M.Sc., 1985.
8. Khaled Gommed: "Investigation and computer simulation of absorption heat pumps". M.Sc., 1987.
9. Ilan Haim: "Simulation and analysis of high-efficiency absorption systems for solar cooling". (Supervised jointly with Prof. A. Shavit). M.Sc., 1990.
10. Michael Rybski: "Robotic systems based on inflatable structures". (Supervised jointly with Dr. M. Shoham). M.Sc., 1993.
11. Alexander Yakhnin: "Ice production for air conditioning systems by direct contact". (Supervised jointly with Dr. R. Semiat). M.Sc., 1993.
12. Ofer Mizrahi: "experimental and theoretical study of a capillary structured solar air heater". (Supervised jointly with Prof. Y. Zvirin). M.Sc., 1993.
13. Nizan Salomonski: "Robot with flexible and light arm based on inflatable structure". (Supervised jointly with Dr. M. Shoham). M.Sc., 1994.
14. Haana (Kobrinsky) Katz: "Solar-assisted heat pump investigation". M.Sc., 1995.
15. Micha Rosenkvit: "Investigation and optimization of absorption heat pumps". M.Sc., 1995.
16. Michael Engler: "Comparative investigation by simulation of absorption heat pumps in different cycles". M.Sc., 1995.
17. Oded Orenshtein: "Condensation of non-azeotropic refrigerant mixtures inside a vertical tube". (Supervised jointly with Prof. A. Shavit and Prof. M. Israeli). M.Sc., 1996.
18. Patricia Dombiak: "Analysis and synthesis of an inflatable parallel robot". (Supervised jointly with Dr. M. Shoham). M.Sc., 1999.

19. Anat Kalisky: "Second Law analysis and absorption systems". ME, 2002.
20. Itzhak Shpitzer: "Study of Joule-Thomson cryogenic cooling systems employing gas mixtures". (Supervised jointly with B. Maytal). M.Sc., 2003.
21. Isaac Garaway: "Investigation of a solar-powered desalination system employing regeneration". M.Sc., 2003.
22. Adi Ben-Ari: "Investigation of air dehumidification systems based on solid adsorbents". M.Sc., 2005.
23. Amiad Assias: "Heat pipe for airborne systems". (Supervised jointly with Dr. A. Leitner and Dr. M. Shusser). M.Sc., 2005.
24. Michael Koenig: "Enhancement of vapor absorption by surfactant additive-induced Marangoni convection". Ph.D, 2005.
25. Narda Weissman: "Study of regenerators for Stirling cryogenic coolers". M.Sc., 2005
26. Mordechai Raizner: "Investigation of the flow in a Pulse Tube cryocooler". M.Sc., 2006
27. Isaac Garaway: "Development of a micro Pulse Tube cryocooler." Ph.D., 2007
28. Itai Ben-Zvi: "Study of sub-critical pure coolant Joule-Thomson cryocooler including condensation inside the recuperator". (Supervised jointly with Dr. M. Shusser and Dr. B. Maytal). M.Sc., 2008.
29. Sergey Sobol: "A motion amplification system of a piezoelectric element for compressor actuation". M.Sc., 2008.
30. Ilan Nachman: "CFD modeling of pulsating flow around a bend with and without flow straighteners as applicable to Pulse Tube cryocoolers". M.Sc., 2010.
31. Pavel Sverdlov: "Energy harvesting". ME, 2010.
32. Baruch Rofman: "Investigation of a compressible, oscillating flow and heat transfer in a Stirling cryocooler". M.Sc., 2010.
33. Nir Tzabar: "Mixed- gas Joule-Thomson sorption cryocoolers". Ph.D., 2012.
34. Shay Cohen: "Development of a spherical solar collector with a stationary reflector / tracking absorber for industrial process heat". M.Sc., 2012.
35. Ariel Gerber: "Measuring the self-load of a Dewar at varying operating temperatures". ME, 2013.
36. Alexander Shapiro: "Numerical computation of oscillatory pipe flow for Pulse Tube cryogenic cooler applications". (Supervised jointly with Dr. D. Greenblatt). M.Sc., 2014.
37. Mika Reichel: "Investigation and simulations of a hybrid vapor compression and liquid desiccant air conditioning". M.Sc., 2014.

38. Yigal Evron: "Hybrid air conditioning based on combined closed-cycle absorption cooling system and an open-cycle liquid desiccant system". (Supervised jointly with Dr. K. Gommed). M.Sc., 2015.
39. Dmitry Radchenko: "Investigation of a passive mechanical mechanism for phase shifting of the flow in a Pulse Tube cryocooler". M.Sc., 2015.
40. Eran Gonen: "Investigation of a thermo-acoustic Stirling engine". Ph.D., 2016.

Mordechai Raizner, Ph.D. Candidate (Supervised jointly with Dr. R. Van Hout): "Heat transfer with pulsating jets"

Sergey Sobol, Ph.D. Candidate: "Pulse Tube cryocoolers driven by piezoelectric devices"

Avishay Kidron, M.Sc. Candidate

Yair Greenberg, M.Sc. Candidate

GERSHON GROSSMAN - List of Publications**Books**

1. G. Grossman: Heat and mass transfer in film absorption. Chapter 6 in *Handbook of Heat and Mass Transfer*, N.P. Chermisinoff, Editor, Vol. **2**, pp. 211-257, Gulf Publishing Co. (1986).
2. G. Grossman, Editor: *Proceedings, the ISES Solar World Congress*, Jerusalem, Israel, July 4-9, 1999, Vol. **1-3**, Elsevier Science Ltd., ISBN: 0 080 0438954 (2000).
3. G. Grossman: Desiccant cooling with liquid sorbents. Chapter 3.2.4 in *Solar-Assisted Air Conditioning in Buildings – A Handbook for Planners*, H.M. Henning, Editor, Springer-Verlag (2003).
4. G. Grossman: Solar cooling, dehumidification and air conditioning. Chapter in *Encyclopedia of Energy*, C.J. Cleveland, Editor, Vol. **5**, pp. 575-585, Elsevier (2004).
5. G. Grossman: Israeli Section of the International Solar Energy Society. Chapter 9 in *The Fifty-Year History of the International Solar Energy Society*, K.W. Böer, Editor, Vol. 1, pp. 211-234, American Solar Energy Society (2005).
6. G. Grossman: Renewable Energy Policies in Israel. Chapter 2.4 in *Handbook of Energy Efficiency and Renewable Energy*, Frank Kreith and D. Yogi Goswami, Editors, pp. 2.26 – 2.29, CRC Press (2007).

Invited Reviews

1. G. Grossman and A. Johannsen: Solar cooling and air conditioning. *Progress in Energy and Combustion Science*, **7**, 185-228, (1981).
2. F. Ziegler and G. Grossman: Heat transfer enhancement by additives. *International Journal of Refrigeration*, **19**, 301-309, (1996).

Papers in Journals

1. D. Pnueli and G. Grossman: A mathematical model for the flow in an electro dialysis cell. *Desalination*, **6**, 303-308, (1969).
2. D. Pnueli and G. Grossman: A mathematical model for the concentration field in an electro dialysis cell. *Desalination*, **7**, 297-308, (1970).
3. B. Avitzur and G. Grossman: Hydrodynamic lubrication in rolling of thin strips. *Transactions ASME, Journal of Engineering for Industry*, **94**, 317-328, (1972).
4. G. Grossman and A.A. Sonin: Experimental study of the effects of hydrodynamics and membrane fouling in electro dialysis. *Desalination*, **10**, 157-180, (1972).

5. G. Grossman: Determination of droplet size distribution in liquid-liquid dispersions. *Industrial and Engineering Chemistry - Process Design and Development*, **11**, 537-542, (1972).
6. A.A. Sonin and G. Grossman: Ion transport through layered ion exchange membranes. *Journal of Physical Chemistry*, **76**, 3996-4006, (1972).
7. D.K. Emmermann, W.E. Gibson, G. Grossman, A.P. Modica and A. Pallone: Developments in secondary refrigerant desalination. *AIChE Symposium Series*, **69**, 520-526, (1972).
8. G. Grossman and A.A. Sonin: Membrane fouling in electrodialysis: a model and experiments. *Desalination*, **12**, 107-125, (1973).
9. W. Gibson, D. Emmermann, G. Grossman, R. Johnson, A. Modica , and A. Pallone: Spray freezer and pressurized counterwasher for freeze desalination. *Desalination*, **14**, 249-262, (1974).
10. G. Grossman: Stresses and friction forces in moving packed beds. *AIChE Journal*, **21**, 720-730, (1975).
11. G. Grossman: Water dissociation effects in ion transport through composite membranes. *Journal of Physical Chemistry*, **80**, 1616-1625, (1976).
12. G. Grossman: Melting, freezing, and channeling phenomena in ice counterwashers. *AIChE Journal*, **22**, 1033-1042, (1976).
13. J. Tirosh and G. Grossman: Continuous extrusion by viscous drag. *Transactions ASME, Journal of Engineering Materials and Technology*, **99**, 52-58, (1977).
14. G. Grossman, A. Shitzer and Y. Zvirin: Heat transfer analysis of a flat plate solar energy collector. *Solar Energy Journal*, **19**, 493-502, (1977).
15. Y. Zvirin, A. Shitzer and G. Grossman: The natural circulation solar heater - models with linear and nonlinear temperature distributions. *International Journal of Heat and Mass Transfer*, **20**, 997-999, (1977).
16. J. Tirosh, G. Grossman and G. Gordon: Theoretical and experimental study of the Conform metal forming process. *Transactions ASME, Journal of Engineering for Industry*, **101**, 116-120, (1979).
17. A. Shitzer, D. Kalmanovitz, Y. Zvirin and G. Grossman: Experiments with a flat plate solar water heating system in thermosyphonic flow. *Solar Energy Journal*, **22**, 27-35, (1979).
18. G. Grossman, A. Shitzer and Y. Zvirin: Solar research around the world: Israel. *ASHRAE Journal*, **21**, 40-44, (1979).
19. A.E. Dabiri, G. Grossman and F. Bahar: Solar collector development in Iran. *Sun World*, **3**, 70-74, (1979).

20. G. Grossman and E. Fruchter: Development of a spherical reflector/tracking absorber solar energy collector. *Israel Journal of Technology* (special Energy issue), **17**, 5-11, (1979).
21. H.M. Factor and G. Grossman: A packed bed dehumidifier/regenerator for solar air conditioning with liquid desiccants. *Solar Energy Journal*, **24**, 541-550, (1980).
22. G. Grossman, J.R. Bourne, J. Ben-Dror, Y. Kimchi and I. Vardi: Design improvements in LiBr absorption chillers for solar applications. *Transactions ASME, Journal of Solar Energy Engineering*, **103**, 56-61, (1981).
23. G. Grossman and H. Perez-Blanco: Conceptual design and performance analysis of absorption heat pumps for waste heat utilization. *International Journal of Refrigeration*, **5**, 361-370, (1982). Also *ASHRAE Transactions*, **88**, part 1, 451-466, (1982).
24. H. Perez-Blanco and G. Grossman: Open cycle absorption heat pumps for low-grade heat utilization. *ASHRAE Transactions*, **88**, part 1, 825-843, (1982).
25. G. Grossman: Adiabatic absorption and desorption for improvement of temperature - boosting absorption heat pumps. *ASHRAE Transactions*, **88**, part 2, 359-367, (1982).
26. E. Fruchter, G. Grossman and F. Kreith: An experimental investigation of a stationary reflector/tracking absorber solar collector at intermediate temperatures. *Transactions ASME, Journal of Solar Energy Engineering*, **104**, 340-344, (1982).
27. G. Grossman and K.W. Childs: Computer simulation of a lithium bromide-water absorption heat pump for temperature boosting. *ASHRAE Transactions*, **89**, part 1b, 240-248, (1983).
28. A. Johannsen and G. Grossman: Performance simulation of regenerating-type solar collectors. *Solar Energy Journal*, **30**, 87-92, (1983).
29. G. Grossman: Simultaneous heat and mass transfer in film absorption under laminar flow. *International Journal of Heat and Mass Transfer*, **26**, 357-371, (1983).
30. A. Bar-Lev, S. Waks and G. Grossman: Analysis of a combined thermal-photovoltaic solar system based on the spherical reflector/tracking absorber concentrator. *Transactions ASME, Journal of Solar Energy Engineering*, **105**, 322-328, (1983).
31. G. Grossman and M.T. Heath: Simultaneous heat and mass transfer in absorption of gases in turbulent liquid films. *International Journal of Heat and Mass Transfer*, **27**, 2365-2376, (1984).
32. G. Grossman and E. Michelson: A modular computer simulation of absorption systems. *ASHRAE Transactions*, **91**, Part 2b, 1808-1827, (1985).
33. G. Grossman: Multistage absorption heat transformers for industrial applications. *ASHRAE Transactions*, **91**, Part 2b, 2047-2061, (1985).
34. G. Grossman: Analysis of interdiffusion in film absorption. *International Journal of Heat and Mass Transfer*, **30**, 205-208, (1987).

35. G. Grossman, K. Gommed and D. Gadoth: A computer model for simulation of absorption systems in flexible and modular form. *ASHRAE Transactions*, **93**, Part 2, 2389-2428, (1987).
36. F. Issacci, Y. Zvirin and G. Grossman: Heat transfer analysis of a finned solar air heater. *Transactions ASME, Journal of Solar Energy Engineering*, **110**, 145-155, (1988).
37. K. Gommed and G. Grossman: Process steam generation by temperature boosting of heat from solar ponds. *Solar Energy Journal*, **41**, 81-89, (1988).
38. K. Gommed and G. Grossman: Performance analysis of staged absorption heat pumps: Water - lithium bromide systems. *ASHRAE Transactions*, **96**, part 1, 1590-1598, (1990).
39. G. Grossman: Heat pump systems for enhancement of heat rejection from spacecraft. *AIAA Journal of Propulsion and Power*, **6**, 635-644, (1990).
40. G. Grossman and G. Williams: Inflatable concentrators for solar propulsion and dynamic space power. *Transactions ASME, Journal of Solar Energy Engineering*, **112**, 229-236, (1990).
41. G. Grossman: Analysis of rim supports for off-axis inflatable reflectors. Part I: Loads. *ASCE Journal of Aerospace Engineering*, **4**, 47-66, (1991).
42. G. Grossman: Analysis of rim supports for off-axis inflatable reflectors. Part II: Deformations. *ASCE Journal of Aerospace Engineering*, **4**, 67-77, (1991).
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