

Name
Ofira Ayalon

Date
June, 2017

CURRICULUM VITAE

Personal Details

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Higher Education

a. Undergraduate and Graduate Studies

Period of Study	Name of Institution and Department	Degree
1980-1984	Faculty of Food Engineering, Technion, Haifa	B.Sc
1990-1994	Faculty of Agricultural Engineering, Technion, Haifa	M.Sc
1995-2000	Faculty of Agricultural Engineering, Technion, Haifa	Ph.D

b. Post-Doctoral Studies

Period of Study	Name of Institution, Department / Lab	Name of Host
June 2003- September 2003	Lab. Microbial Ecology and Technology Faculty Agriculture & Applied Biological Sciences, Ghent University, Belgium	Prof. Willy Verstraete

Academic Ranks and Tenure in Institutes of Higher Education

Dates	Name of Institution and Department	Rank/Position
1988-1995	Faculty of Agricultural Engineering, Technion, Haifa.	Research Assistant
1994-2001	Faculty of Agricultural Engineering, Technion, Haifa.	Senior Research Assistant
2001- 2004	Faculty of Civil and Environmental Engineering, Technion, Haifa.	Research Associate
10/2001- 10/2007	The Department of Natural Resources and Environmental Management, The Faculty of Social Sciences, University of Haifa.	Lecturer

6/2006-9/ 2006	Research associate with Prof. C. J. Andrews, Director, Program in Urban Planning and Policy Development, Rutgers University, NJ: "Sustainable energy targets for New Jersey".	Summer Sabbatical
10/2007-12/2010	The Department of Natural Resources and Environmental Management, Graduate school of Management, University of Haifa.	Senior Lecturer (Specialist Track)
1/2011-present	The Department of Natural Resources and Environmental Management, Graduate school of Management, University of Haifa.	Associate Professor (Specialist Track)
6/2012-10/2012	Visiting professor with Prof. R. Cossu, Head of the Environmental Engineering School. University of Padova, Italy	Summer Sabbatical

Offices in University Academic Administration

Years	Name of Institution and Department	Role
2004-2008	Faculty of Social Sciences, University of Haifa	Member of Teaching Committee
2005- 2010	The Department of Natural Resources & Environmental Management, University of Haifa	Deputy head
2008	The Department of Natural Resources & Environmental Management, University of Haifa	Initiator of the "Energy Policy and Management" program.
2009-present	"Energy Policy and Management" program at the Department of Natural Resources & Environmental Management, University of Haifa	Head of program
2008-present	Green campus steering committee- University of Haifa	Member of steering committee
2010-present	Natural Resource and Environmental Research Center (NRERC), University of Haifa	Director
2014-present	Dept. of Natural Resources and Environmental Management, University of Haifa	Head
2016-	Haifa Research Center for Maritime Strategy	Advisory Board

Scholarly Positions and Activities Outside the University

Years	Professional and Academic Consultancy & Management
1996- 2006	Consultant to the Ministry of the Environment- solid waste management and policy
1996-2001	Coordinator and project manager of waste source separation pilots in Tivon and Tirat Carmel (Israel)

2002– present	<p>Senior researcher, coordinator and project manager of energy and environmental policy projects at Samuel Neaman Institute (SNI), Technion. The resulting reports are submitted and jointly followed-up in cooperation with the Ministries of Finance, National Infrastructure and Environmental Protection, as well as other relevant government bodies.</p> <ul style="list-style-type: none"> ○ Preparation of National Environmental Priorities series- an overview of the main aspects of environmental concern in Israel (See items E3, H11, H15, F2, H21, H35, H50). ○ Studies on agriculture and the environment- Economic aspects of agriculture and the environment in Israel (See items H10, H12, H17, H64). ○ Analyzing business opportunities in environmental technologies- (See items D12, H9, H14, H18, H24). ○ Setting recommendations for reducing transportation-related air pollution (See item H16). ○ Setting policy recommendations on waste management in Israel (See items H27, H30, D13, H32, H42). ○ Setting energy policy and management recommendations in Israel (See items H19, H20, H22, H23, H25, H26, H28, H31, H33, H34, H36, H38, H39, H40, H41, H46, H47, H52, H55, H64). ○ Environmental Consultant to Israel's Energy Master Plan
2007-present	Member of the National Green Campuses steering committee and consultant in the field of efficient use of resources and sustainability indices of green campuses.
2009- 2012	Academic advisory board of ICA - Industrial Cooperation Authority, Ministry of Industry Trade and Labor- Consultant in the field of environmental aspects.
2011- present	Consultant (volunteer) to the Environmental Public Committee of Emun Hatzibur organization (NGO) -
2011- present	Director of ICCIC- Israel Climate Change Information Center The studies serve as a platform for an Israeli national adaptation plan to impacts of climate change. (See items H48, H49, H51)
2012 2013	Advisory board of the 'Green Globus' Trophy, awarded by Life & Environment - The Israeli Union of Environmental NGOs
2015- present	Nomination as National Expert in Horizon 2020 (EU research framework), in the field of Climate Action- Resource efficiency and raw materials (Environment)
2015	Member of scientific committee - 28 th International conference ECOS 2015, 29 June - 3 July 2015 in Pau, France.
2015- present	Establish a Cooperative Agreement with Jiangsu (China) Modern Low-carbon Technology Institute. "Carbon Emission Evaluation System of MSW Treatment"

2015	Member of the Panel of Judges for the final presentations of innovation projects by student teams of the 2015 spring iPodia class on Principles and Practices of Global Innovation.
2016	Nomination as national focal expert for CTCN [the operational arm of the UNFCCC Technology Mechanism, hosted by the UN Environment Program (UNEP) and the UN Industrial Development Organization (UNIDO)]. The Centre promotes the accelerated transfer of environmentally sound technologies for low carbon and climate resilient development at the request of developing countries.
2016	Member of scientific committee and leader of energy policy leader- 29th International conference ECOS 2016, June 19-23rd 2016 in Portorož, Slovenia.
2016	Advisory Board Member of the International Sea Control Holdings The Company is specializing in the development of marine technology ventures related to Mariculture in the open sea.
2016	International Advisory Board of the Global Biosphere Institute
2016	Member of the Board of Directors- Research Center on Maritime Strategy
2016	Mentor of Haifa CityTechLab - mentor and lead urban advisor to the program, responsible for integrating the projects, ideas and beta-site implementation
Years	Membership in Professional Societies
1994-present	International Expert Group for Life Cycle Assessment of Integrated Waste Management
2001- present	Israel Society for Ecology and Environmental Quality Sciences (ISEEQS).
2010- 2016	Board Member of ISEEQS
2016-	Member of ISEEQS Audit Committee
2011- present	Technical Committee of the Standards Institution of Israel Product Certification Scheme - products having environmental aspects
2014- present	Energy committee of ICC Israel (International Chamber of Commerce).
Years	Editorial Assignments
2014-present	Associate Editor, <u>Journal of Solid Waste Technology and Management</u>
2016	Associate Editor, Waste Management (the leading scientific journal in the field of waste management (Impact Factor: 3.829; 5-Year Impact Factor: 4.297)
Years	Reviewing for Refereed Journal
2002-present	<u>Ecological Economics; Environmental Science & Technology</u> <u>Environmental Management</u> <u>Waste Management</u> <u>Waste Management & Research</u> <u>Packaging Technology and Science</u>
2011- present	<u>Energy & Environment</u>
2012-present	<u>Environment, Development and Sustainability</u>
2013-present	<u>International Journal of Environmental Science and Technology</u>

	<u>European Journal of Marketing</u> <u>Resources, Conservation & Recycling</u>
2014-present	<u>Reviews in Chemical Engineering</u> <u>International Journal of Innovation and Sustainable Development (IJISD)</u>
2016	<u>Sustainability</u>
2017	<u>Energy Efficiency</u>
Years	Reviewing for Books
2010	"Sustainable Systems and Energy Management" at the Regional Level: Comparative Approaches" Editor: Dr. Marco Tortora. University of Florence, Italy
Years	Reviewing for Fund Agencies
2009	<ul style="list-style-type: none"> • Israeli Ministry of Science • Israeli French High Council for Scientific and Technological Research • Networks Program in the fields of environment and Energy • China- Israel scientific research cooperation, 2009-2011
2012	<ul style="list-style-type: none"> • Research products in the framework of the Italian Evaluation of Research Quality exercise (VQR 2004-2010) • Ministry Of Science & Technology Israel - Infrastructure program 2012-2013
2014	<ul style="list-style-type: none"> • The Israel Science Foundation (ISF) • The Ministry of Environmental Protection, Chief Scientist office • New approaches in statistic methodologies of computing Greenhouse gases (GHG) emissions by Israel Central Bureau of Statistics
2015	<ul style="list-style-type: none"> • Germany- Israel Foundation (GIF)
Years	Scientific Committees of Conferences
2009- present	Involved in scientific committees of various international conferences dealing with sustainability, energy management and policy [see 6 b.2]
Years	Contribution to the Community
2005-present	A member of the Scientific Committee of MADATEC – Israel National Museum of Science, Technology & Space.
2007- present	Annual lectures to school students- BASHAAR project

Participation in Scholarly Conferences

RECENT International Conferences- Held Abroad (PAST 5 years)

Name of presenter is underlined

Date	Name of Conference	Place of Conference	Subject of Lecture/ Discussion	Role
29-31, May, 2012	2012 International conference on climate adaptation	Arizona, USA	<u>M. Shechter</u> , O. Ayalon, R. Palatnik A. Davidovitch. Adaptation to Climate Change- The Case of Israel	Oral presentation
9-12, September, 2012	12 th IAEE European Energy Conference- Energy Challenge & Environmental Sustainability	Venice, Italy	<u>O. Ayalon</u> , M. Lev-On, P. Lev-On. GHG Emission Mitigation and Action Plan for the State of Israel: Strategies, Incentives and Reporting	Oral presentation
16-19, July, 2013	26 th International Conference -ECOS, 2013. On Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems	Guilin, China	Member of Scientific Advisory Board	
			<u>O. Ayalon</u> , Miriam Lev-On, Perry Lev-On GHG Emissions Reporting in Israel: Means to Manage Energy Use	Oral presentation
			T. Goldrath , <u>O. Ayalon</u> , Y. Parag, M. Shechter: Israel's Electricity Market Sustainability Indices	Poster presentation
18 – 19, July, 2013	5 th International Conference on Climate: Impacts and Responses	Port-Louis, Mauritius	<u>M. Shechter</u> , O. Ayalon, R. Palatnik, A. Davidovitch: Adaptation to Climate Change- Israel and Eastern Mediterranean	Oral presentation

10-11, September 2013	A&WMA - Climate Change Impacts, Policy, and Regulation Conference	Hyatt Dulles, Herndon, VA, USA	O. Ayalon, <u>M. Lev-On</u> , Perry Lev-On. GHG Emission Mitigation Plan for the State of Israel: Strategies, Incentives & Reporting	Oral presentation
22-27, September 2013	The 8 th Conference on Sustainable Development of Energy, Water and Environment Systems	Dubrovnik, Croatia	Member of Scientific Advisory Board	
18-20, November, 2013	Global Food Security Challenges – European Research approaches	Müncheberg, Germany, Leibniz Centre for Agricultural Landscape Research (ZALF)	<u>Z. Baum</u> , R. Palatnik, M. Shechter, O. Ayalon. Assessing the Impact of Climate Change on Agriculture and a Water Economy with a Diverse Mix of Water Types	Oral presentation
March 30-April 2, 2014	The 29 th International Conference on Solid Waste Technology and Management	Philadelphia, PA U.S.A.	Member of Scientific Advisory Board	
27, June-1, July, 2014	Western Economic Association International 89 th Annual Conference	Denver, USA	R. Palatnik, M. Shechter, O. Ayalon. Assessing The Impact Of Climate Change On Agriculture and A Water Economy With A Diverse Mix Of Water Types - The Israeli Case Study	Oral presentation
28, June – 2, July, 2014	5 th World Congress of Environmental and Resource Economists	Istanbul, Turkey	<u>A. Davidovitch</u> , M. Shechter, O. Ayalon, R. Palatnik. The Implications of Climate Change Phenomenon on the Insurance Industry and the Israeli Economy	Oral presentation
29, June – 3, July, 2014	1 st South East European Conference on Sustainable Development of Energy, Water and Environment Systems - SEE SDEWES	Ohrid, Republic of Macedonia	Member of Scientific Advisory Board	

8-10, October, 2014	Conference on Environment and Natural Resources Management in Developing and Transition Economies	Clermont-Ferrand, France	A. Davidovitch, <u>M. Shechter</u> , O. Ayalon, R. Palatnik. Weather Insurance: Economic Adaptation to Climate Change in Israel	Oral presentation
28-31, October, 2014	14 th IAEE European Energy Conference Sustainable Energy Policy and Strategies for Europe	Rome, Italy	<u>O. Ayalon</u> , M. Lev-On, P. Lev-on. On the Link Between Using Low Carbon Fuels and Energy Efficiency Improvements for Attaining GHG Emission Reduction Goals	Oral presentation
13-15, July, 2015	German-Israeli Roundtable and Panel	Berlin, Germany	<u>O. Ayalon</u> . Global Challenges, Regional Solutions: Climate Change	Keynote Speaker
31 August – 4 September, 2015	11 th ESERA conference: Science Education Research: Engaging Learners for a Sustainable Future	Helsinki Finland.	<u>Goldman, D.</u> , Weiss, B., Ayalon, O. & Baum, D. Effect of Green-School Certification on Pupils' Environmental Literacy and Adoption of Sustainability by Schools	Oral presentation
9-10 September, 2015	A&WMA Conference: Addressing Climate Change: Emerging Policies, Strategies, and Technological Solutions	Oak Brook, Illinois, USA	<u>P. Lev-On</u> , M Lev-On, O. Ayalon. On the Road to the Climate Change Summit in Paris 2015: Intended National GHG Emissions Reduction	Oral presentation
27 September- 2 October, 2015	SDEWES2015 - The 10 th Conference on Sustainable Development of Energy, Water and Environment Systems	Dubrovnik, Croatia	<u>O. Raviv</u> , O. Ayalon, R. Palatnik. An Economical-Environmental Assessment of Wind Power Generation in Israel	Oral presentation
31 August - 4 September, 2015	11 th ESERA conference: Science Education Research: Engaging Learners for a Sustainable Future	Helsinki, Finland	<u>Goldman, D.</u> , Weiss, B., Ayalon, O. & Baum, D. (2015). Effect of Green-School Certification on Pupils' Environmental Literacy	Oral presentation

			and Adoption of Sustainability by Schools	
11-14 October, 2015	2 nd international conference on Global Food Security 2015	Cornell University, Ithaca, NY, USA	<u>O. Ayalon</u> , T. Eshet, Y. Licht. Agricultural Produce Surplus Management- Means to Sustainability	Oral presentation
7-10, December, 2015	21 st Conference of the Parties (COP 21) to the United Nations Framework Convention on Climate Change	Paris, France	Member of the Israeli Governmental delegation	
21-22 April, 2016	TI / ERC conference Combating Climate Change: Lessons from Macroeconomics, Political Economy, and Public Finance	Tinbergen Institute Amsterdam, The Netherlands	A. Davidovitch, <u>M. Shechter</u> , O. Ayalon, R. Palatnik. An Assessment of the Impact of Climate Change on the Insurance Market: Global and Local Analyses	Oral Presentation
2-4, June, 2016	Middle East Central Asia Conference for Sustainable Aquaculture	Izmir, Turkey	<u>L. Kroeger</u> , O. Ayalon, D. Tchernov. Sustainable Governance of Offshore Aquaculture in Israel	Oral Presentation
9-11, June, 2016	2016 AERE Summer Conference	Beaver Run, Breckenridge Colorado, USA	A. Davidovitch, <u>M. Shechter</u> , O. Ayalon, R. Palatnik. An Assessment of the Impact of Climate Change on the Insurance Market: Global and Local Analyses	Oral Presentation
5-7, September, 2016	Food security 2016	Beijing, China	<u>O. Ayalon</u> , T. Eshet, E. Elimelech. Lost and found- A preliminary assessment of food waste in Israel	Oral Presentation

19-21, September, 2016	International Solid Waste Association (ISWA) world congress	Novi Sad, Serbia	O. Ayalon, <u>T. Eshet</u> Agriculture produce surplus management-reduction of waste, means to sustainability and food security	Oral Presentation
14-17 November, 2016	6 th International Symposium on Energy from Biomass and Waste	Venice, Italy	<u>O. Raviy</u> , D. Broitman, O. Ayalon, I. Kan. The power of logistics: a regional optimization model for waste-to-energy generation using agricultural vegetative residuals	Oral Presentation and chair of session Environmental & economic drivers in WM
19-22, March, 2017	The 32 nd International Conference on Solid Waste Technology and Management	Philadelphia, PA, USA	<u>O. Ayalon</u> . Don't Waste a Bite - On the Link between Hunger and Waste Management	Keynote Speaker and member of Scientific Committee
22-25, April, 2017	Administrative Symposium: How Effective is Education for Sustainable Development at School? Findings from Recent Studies Across Europe. 2017 NARST Annual International Conference "Glocalization and Sustainability of Science Education Research and Practice"	San Antonio Texas.	<u>Goldman, D.</u> , Baum, D., Ayalon, O. & Weiss, B. The influence of 'Green-school certification' on pupils' environmental literacy and adoption of sustainability by schools	Oral Presentation
22- 23 May, 2017	5th International Symposium on Environment & Energy Finance Issues (ISEFI-2017)	IPAG BUSINESS SCHOOL – Paris, France	<u>A. Davidovitch</u> , M. Shechter, O. Ayalon, R. Palatnik. Economic and risk aspects of climate change implications on the insurance sector	Oral Presentation

21-24, June, 2017	5 th International Conference On Sustainable Solid Waste Management	Athens, Greece	<u>T. Eshet</u> , O. Ayalon Reduction of waste, means to sustainability via economical management of agriculture produce surplus, in Israel.	Oral Presentation
			<u>E. Elimelech</u> , O. Ayalon, E. Ert Households' Food Waste Composition – Evidence from a Field Survey.	Oral Presentation
			<u>D. Broitman</u> , O. Raviv, I. Kan, O. Ayalon. Absorbing shocks: Designing an agriculture vegetative waste management system resilient to final product price fluctuations	Oral Presentation
26-30, June, 2017	World Aquaculture 2017	Cape Town, South Africa	<u>L.A. Kroeger</u> , D. Tchernov, O. Ayalon Sustainable Governance of Offshore Aquaculture in Israel	Oral Presentation

RECENT International Conferences- Held in Israel (PAST 5 years)

Date	Name of Conference	Place of Conference	Subject of Lecture/ Discussion	Role
22-23, February, 2012	The Eilat-Eilat Forum for Renewable Energy Policy	Eilat-Eilat International Conference	<u>O. Ayalon</u> How to Improve the Chances for Success of Innovations by Funding the Crossing of "Valley of Death"	Session Leader and Oral presentation
1-2, April, 2012	GLOWA, Tel Aviv Univ., IPCRI Science and the response to climate change in Israel	Tel Aviv	<u>O. Ayalon</u> . Adaptation Research and Long Term Implications	Oral presentation
26-28, October, 2015	The 14 th World Wind Energy Conference	Jerusalem	<u>O. Raviv</u> , <u>O. Ayalon</u> , <u>R. Palatnik</u> An Economical-Environmental Assessment of Wind Power Generation in Israel	Oral presentation
20-21, June, 2016	The Batsheva de Rothschild Workshop on Climate Changes and their Effect on Agriculture, Economics and the Environment	Ein Zurim	<u>O. Ayalon</u> , Agritech and Climate Change - New Opportunities	Organizing Committee and oral presentation

RECENT Local Conferences (PAST 5 years)

Date	Name of Conference	Place	Subject of Lecture/ Discussion/ Comments	Role
22-23, February, 2012	The Eilat-Eilat Forum for Renewable Energy and innovation in Energy	Eilat	<u>O. Ayalon</u> : Improve the Chances for Success of Technological Innovations by Funding the Crossing of the "Valley of Death"	Oral presentation and session moderator
19, March, 2012	Green Growth and Green Jobs- Global Trends and the Israeli Case	Tel Aviv	<u>O. Ayalon</u> : Innovation and Opportunities of Green Jobs	Oral presentation

16, May, 2012	Environmental Management Forum	Tel Aviv	<u>O. Ayalon</u> : Trends and Opportunities in GHG Reporting	Oral presentation
16, October, 2012	The 1 st Haifa Cleantech Conference	Haifa	<u>O. Ayalon</u> : The Governmental Drivers for the Cleantech Industry	Oral presentation
16-18, October, 2012	40 th Annual conference of the ISEEQS	Tel Aviv	Scientific and Organizing Committee, Chair of Climate Change session.	
			<u>O. Ayalon</u> , M. Shechter, R. Palatnik, A. Davidovitch. Adaptation to Climate Change: The Case of Israel	Keynote Speaker
			1) <u>S. Hefer</u> , O. Ayalon, T. Eshet. Reduction of Plastic Bags Use	Oral presentation
			2) O. Ayalon, B. Flicstein, <u>A. Shtibelman</u> . LCA of EASYBAT Approach to EV Charging	Oral presentation
			3) <u>M. Lev-On</u> , P. Lev-On, O. Ayalon. Non-CO ₂ GHG Emissions Reductions (Mitigation): Global Overview and Implications for Israel	Oral presentation
			4) <u>A. Davidovitch</u> M. Shechter, O. Ayalon, R. Palatnik. The Insurance Market in Light of Climatic Changes	Oral presentation
			5) D. Goldman, S. Hacham, D. Baum, O. Ayalon. The Political Views of Students Exposed to Environmental Studies	Poster Presentation
1-3, March, 2013	Modeling EU Agriculture with Climate Change Food Security- MACSUR Workshop	University of Haifa, Israel	Scientific and Organizing Committee	
21, May, 2013	Hit the Gas! The contribution of the natural gas to the	University of Haifa,	Scientific and Organizing committee	

	economy, society and the environment	Israel		
4, June, 2013	Israel Economy Society Conference	Tel Aviv	M. Shechter, O. Ayalon, <u>R. Palatnik</u> and S. Brody: OECD Survey - Household Environmental Behavior Attitudes: Waste Generation, Recycling and Prevention	Oral presentation
17, June, 2013	Business and Environment 2013	Tel Aviv	<u>O. Ayalon</u> . The Role of Academia in Environmental Studies	Oral presentation
9, September, 2013	The 1 st International Conference- Technological innovations in waste management	Hiria, Tel Aviv	<u>O. Ayalon</u> . Environmental Taxation- The Case of Municipal Solid Waste	Oral presentation
30, September, 2013	Oil substitutes. Ministry of Environmental Protection and Prime Minister's office	Maale Hachamisha	<u>O. Ayalon</u> . Waste to Transport Fuel	Oral presentation
7-9, October, 2013	41 st Annual Conference of the ISEEQS	Rehovot	Scientific and Organizing Committee	
			1) <u>O. Ayalon, M. Lev-On, P. Lev-On</u> Corporate GHG Emissions Reporting- Means for Efficiency and Transparency	Oral presentation
			2) M. Shechter, O. Ayalon, <u>R. Palatnik</u> and S. Brody. Waste Generation, Recycling and Prevention- Findings Of OECD Survey - Household Environmental Behavior Attitudes	Oral presentation
			3) <u>B. Weiss, D. Goldman, O. Ayalon, D. Baum</u> . Green School Accreditation and its Effect on Sustainable Culture and Environmental Literacy	Oral presentation <i>[Awarded lecture]</i>

19-20, November, 2013	Israel Energy & Business Convention 2013	Tel Aviv	<u>O. Ayalon</u> . The Environmental Aspects of Natural Gas Use in Power Plants	Oral presentation
9, July, 2014	4 th annual conference on future industries- Natural Gas for industrial prosperity	Rupin, academic college	<u>O. Ayalon</u> . The role of Academia in the Developing Energy Sector in Israel- Emphasis on Natural Gas Market	Oral presentation
16-18, September, 2014	42 nd Annual conference of the ISEEQS	Bar Ilan University, Ramat Gan	1) <u>Z. Baum</u> , O. Ayalon, R. Palatnik, D. Elmakis. An Innovative Approach for Dynamic- Active Electricity Demand Side Management for households in Smart Grids	Oral Presentation
			2) <u>Y. Hashko</u> , O. Ayalon, Flicstein. The Effects of the Carmel Tunnels on Air Quality in the City of Haifa	Oral Presentation <i>[Awarded lecture]</i>
			3) <u>A. Davidovitch</u> , M. Shechter, O. Ayalon, R. Palatnik. The Implications of Climate Change on the Insurance Industry and the Israeli Economy	Oral Presentation
			4) <u>T. Eshet</u> , O. Ayalon, Y. Licht. Agriculture Surpluses in Israel	Oral Presentation and session chair
			5) <u>D. Gabay</u> , O. Ayalon, I. Liebes, G. Rosenthal. Waste- Derived Oil Substitutes	Oral Presentation and session chair
11, November, 2014	Health and Environment. The 1 st conference in memory of Dr. J. Krikon	Haifa	Scientific and Organizing committee	

20, November 2014	1 st conference of the environment and the sociological society in Israel	Tel Aviv University	<u>T. Zohar</u> , O. Ayalon, Y. Parag. Analysis of the Israeli Public's Attitudes Regarding Consumption and Energy Saving	Oral Presentation
9, February, 2015	The NRERC annual conference	University of Haifa	Scientific and Organizing committee	
24, February, 2015	Securing Food Using Non-Conventional Water Sources	University of Haifa,	Scientific and Organizing committee	
24, February 2015	Israel-Germany Twinning project	Peres Center, Tel Aviv	<u>M. Lev-On</u> , O. Ayalon, P. Lev-On. GHG Reduction Analysis and Verification	Oral Presentation
10, March, 2015	The annual conference of fish growers in Israel	Nir Etzion	<u>O. Ayalon</u> , N. Moses. Sustainable Development of Marine Aquaculture in Israel's Mediterranean Sea	Oral Presentation
11, March, 2015	Characteristics of the in the "Prosumer" Future Energy Markets”	IDC, Herzelia	<u>Z. Baum</u> , O. Ayalon, R. Palatnik, D. Elmakis. An Innovative Approach to Promote Implementation of Renewable Energy in a Smart Grid.	Oral Presentation
24-26, March, 2015	Austria- Israel Workshop on Climate Change Adaptation Indicators	Jerusalem	<u>O. Ayalon</u> . Knowledge Gaps in Climate Change Adaptation Research	Oral Presentation
21, June, 2015	The Natural Gas and the Israeli Society	University of Haifa	Scientific and Organizing committee	
26 August, 2015	Cleantech Summit, 2015	Airport city	<u>O. Ayalon</u> . Sustainable waste management in Israel	Oral Presentation
12-14, October, 2015	43 rd Annual conference of the ISEEQS	Jerusalem	1) <u>O. Raviv</u> , O. Ayalon, R. Palatnik. Internalizing External Costs into the Cost of Energy - Analysis of Seven Planed Wind Farms in Israel	Oral Presentation
			2) <u>I. Liebes</u> , O. Ayalon, Kivun Ltd. Life Cycle Assessment of Waste Derived Oil Substitutes.	Oral Presentation

7 September, 2015	Adaptation to Climate Change. Ministry of Environmental Protection	Bar Ilan University	<u>O. Ayalon</u> . Adaptation Plans Worldwide	Scientific and Organizing Committee, Chair of Ministerial Session. Keynote Speaker
24, November, 2015	3 rd annual conference on management and economics Western Galilee College	Acre	<u>O. Ayalon</u> . Waste as a Resource	Oral Presentation
15, December, 2015	Deep Med. Laboratory Retreat	University of Haifa	<u>L. Kroeger</u> , <u>O. Ayalon</u> , <u>D. Tchernov</u> . Sustainable Governance of Offshore Aquaculture in Israel	Poster
24, December, 2015	Porter school of environmental studies. Tel Aviv University	Tel Aviv	<u>O. Ayalon</u> . Who's Afraid of the Deposit Law?	Oral Presentation
25 February 2016	How to feed 9 billion?	IDC Herzliya	<u>E. Elimelech</u> , <u>O. Ayalon</u> . The Shameful Third: How to Measure and How Change Consumer Behavior?	Oral Presentation & Session Manager
18 April 2016	16 th Annual Conference of Environmental Education: What's the Point? Food, Sustainability and Education	Kibutzim Seminar, Tel Aviv	<u>E. Elimelech</u> , <u>O. Ayalon</u> . Not by Bread Alone: the Reasons for Food Waste in Households	Oral Presentation
20 – 21 June 2016	Sustainable Food Systems. Manna Center Program for Food Safety & Security	Tel Aviv University	<u>O. Ayalon</u> Food Waste: Barriers and Regulation What is Missing in Order to Create Effective Regulation?	Chair of Panel
21-23, June 2016	The 44 th annual conference of Science and Environment of the Israeli Society for Ecology and Environmental Science	Tel Aviv University	<u>O. Ayalon</u> . The Role of Science in Decision Making	Panelist
			<u>M. Lev-On</u> , <u>O. Ayalon</u> , <u>P. Lev-On</u> . 5 Years of the Voluntary GHG Reporting Scheme in Israel	Oral presentation
27, October 2016	Academia- Industry link to promote green building	Tel Aviv	<u>O. Ayalon</u> - The role of academia in green building education	Oral presentation

20, December, 2016	Environment and Local Authorities	Haifa	O. Ayalon. Waste management in local authorities	Oral presentation and panelist
*24, May, 2017	The First Israeli Academic Smart Energy Conference	Tel Aviv University, Israel	Z. Baum, O. Ayalon, R.R. Palatnik. A Novel Dynamic-Active Demand Response Method for application of a Smart Grid in Households	Oral presentation
* 7, June, 2017	The 33 rd conference of the Israel Economic Association	Open University, Raanana	D. Broitman, I. Kan, O. Raviv, O. Ayalon. Designing an agriculture vegetative waste management system under risk conditions.	Oral presentation
			S. Daskal, O. Ayalon, M. Shechter. RIA of the waste sector of Israel	

RECENT Research Grants
Grants Awarded

Role in Research	Other Researchers	Topic	Funded by	Years
PI	Flicstein B. (CI) Shtibelman A. (Research Assist.)	Generic Battery Prototype Integrated with Electric Vehicle Infrastructure and Utilities Interfaces	FP7- STREP (11 partners) C	2010-2013
PI, Director of ICCIC	Co-PIs: Schechter M., Kutiel H., Kliot N., Green M., Sternberg M., Capeluto G.	Establishment of Israeli Climate Change Information Center (ICCIC)	Ministry of Environmental Protection C	2011-2012 2015

Co-PI	Schechter M. Palatnik R. (Co-PIs) Davidovitch A. (Research Assist.)	Implications of Climate Change on the Insurance Industry and the Israeli Economy	Ministry of Environmental Protection C	2011- June 2013
Co-PI	Schechter M., Palatnik R. (Co-PIs) Brody S. (Research Assist.)	Household Environmental Behaviour and Attitudes: Waste Generation, Recycling and Prevention	OECD	2011, 2012
PI	Eshet T. and (Researcher) Shtibelman A. (Research Assist.)	Cost- Benefit and Life Cycle Assessment of Plastic Waste in Israel	Ministry of Environmental Protection C	2012
Co-PI	Shechter M., Palatnik R., Milgengreen, U., Kan I. (Co-PIs)	The FACCE JPI Knowledge Hub” On a Detailed Climate Change Risk Assessment for European Agriculture and Food Security	Ministry of Agriculture in cooperation with 17 EU partners C	2012- 2015
Co-PI	Shechter M., Palatnik R., Shamir- Zemach S. (Co-PIs)	The Mediterranean Sea and the Israeli Society	Philanthropic Fund	2013-2015
PI	Eshet T. (CI) Licht Y. (Research Assist.)	Agricultural Produce Surplus and Their Most Effective Utilization	Leket Israel	2014
Co-PI	Eshet T., Trop T., Tchernov D., Tandler A., Moses N.	Sustainable Development of Marine Aquaculture in Israel's Mediterranean Sea	Philanthropic Fund	2014-2015

Co-PI	Kan I., Henkin Z. (Co-PIs)	Treatment and Reuse of Vegetative Agriculture Organic Wastes – Economic Analysis of Integrative Technologies	Center of Excellence- Ministry of Agriculture C	2014-2016
PI	Palatnik R. Trop T. (Co-PIs) Davidovitch A. (Research Assist.)	Financial and Economic Viability of Green Building in Educational Buildings, For the Consumer and the Israeli Economy	Ministry of Environmental Protection C	2015-2017
Co-PI	Ron Porat	Ministry of Agriculture Excellence Centre- Minimizing Food Loss along the Supply Chain	Ministry of Agriculture C	2016-2017
Co-PI	Shechter M., Palatnik R., Shamir- Zemach S. (Co-PIs)	The Mediterranean Sea and the Israeli Society (Phase 2)	Philanthropic Fund	2016-2017

Scholarships, Awards and Prizes

2010. Excellence in Teaching. Special award of the Academic of Israel's Planning and Budgeting Committee of the Council for Higher Education.

2017. The Iraj Zandi Award of the 32nd International Conference on solid waste Technology and Management, Philadelphia, USA

Teaching

Courses Taught in Recent Years: Teaching at the Department of Natural Resources & Environmental Management

Year	Name of Course	Type of Course Lecture/Seminar/ Workshop	Degree	No. of Students
1999-	Solid Waste Management	Lecture	M.A.	10-15
2001-	Environmental Management systems	lecture/ mandatory course (course in Hebrew)	M.A.	15-20
2003-	Interdisciplinary final project	a one year final project/ mandatory course	M.A.	20-25
2003-	Introduction to Natural Resources and Environmental Management	lecture/ mandatory course	M.A.	35-40
2007-	Environmental Management in Israel	Lecture	M.A.	10
2008-	Introduction to Energy and Environment	lecture/ mandatory course	M.A.	35-40
2009-	Renewable Energies	lecture/ mandatory course	M.A.	20-25
2010-	Renewable energy campus	field trip	M.A.	15-20
2013-	Environmental Management systems	Lecture/ mandatory course in International green MBA (course in English)	M.A.	15-20

Supervision of Graduate Students

Student's Name	Co-supervisors	Title of Thesis / Dissertation	Date of Completion / in Progress	Forum of Publication
M.A. Students				
1) Gavish Iris	Prof. M. Shechter	Environmental and economic aspects of packaging law implementation	June, 2002	Studies in management of environmental and natural resources.
2) Michal Polansky	Prof. M. Shechter, Dr. D. Baum	Comparison of source separation schemes in Tivon and Misgav	June, 2002	
3) Eyal Shani	Dr. N. Becker	Economic aspects in the reclamation of Hiria	November, 2003	Article published in 'waste management'
4) Dafna Gan	Prof. M. Shechter, Prof. U. Marinov	Management and public conflicts associated with reduction of waste transferred from Hiria	November, 2003	
5) Roy Federman	Dr. I. Kan	Economic Analysis of Organic-Wastes Disposal through Compostation: The Case of Israel	March, 2006	Oral presentation at ISWA (International Solid Waste Association) conference 2006
6) Adi Nativ	Prof. A. Haim, Dr. B. Flicstein	Implementation of ISO 14001 standards in Israel	June, 2007	
7) Efrat Elimelech	Dr. B. Flicstein	Management of hazardous waste in Israel- The case study of Haifa region	November, 2007	-Oral presentation at the 36 th Annual conf. of the ISEEQS. -Oral presentation at the 1st Intern. Conf. "Hazardous Waste Management" (Crete, Greece)
8) Dani Broitman	Dr. I. Kan	Cost estimation of implementing a MSW source separation scheme	November, 2008	-Oral presentation at the 37 th Annual conf. of the ISEEQS.

9) Lilach Inbar	Dr. Y. Steinhart	The role of innovation in consuming eco-friendly goods	June, 2010	
10) Tal Segev	Dr. I. Kan	Economic modeling and life cycle assessment of municipal solid waste management in Israel	June, 2010	
11) Areej Haj	Dr. S. Paz	The influence of traditional perceptions on environmental behavior. The case of compost issue at the Muslim domain	November, 2010	
12) Hila Puterman	Dr. Y. Steinhart	Consumers' preferences to green goods	November, 2010	
13) Shay Hacham	Dr. D. Goldman & Dr. D. Baum	The political views of students exposed to environmental studies	November, 2012	-Oral presentation at Environmental Education at Academic Institutions in Israel, Technion, 2012 -Poster presentation at 40 th Annual Conference of the ISEEQS
14) Hadas Yelenik	Dr. M. Yuval	Sustainability aspects of the home composting project in Beit-Hakerem, Jerusalem. From a local to a national project	January, 2013	
15) Uri Ben Haim	Prof. Y. Hayuth	Perceptions of Haifa citizens concerning the Haifa Port	February, 2013	
16) Shiri Hefer	Dr. T. Eshet	Analysis of alternatives to reduce plastics bags use	October, 2013	Oral presentation at 40 th Annual conference of the ISEEQS

17) Amos Shtibelman	Dr. T. Eshet	Cost- Benefit and Life Cycle assessment of plastic waste in Israel	October, 2013	
18) Iddo Grinberg	Dr. D. Lavee	Personal preferences in investing in green companies	November, 2013	
19) Bell Weiss	Dr. D. Goldman & Dr. D. Baum	Impact of school accreditation to 'green school' to adopt sustainable culture in the school and the development of students' environmental citizenship	November, 2013	-Oral presentation at 41 st Annual conference of the ISEEQS. <i>The lecture was selected as the best presentation of the conference</i> -Oral presentation at 11 th ESERA conference: Science Education Research: Engaging Learners for a Sustainable Future
20) Tal Zohar	Dr. Y. Parag	Israeli public opinion analysis on consumption and saving energy	January, 2014	Oral presentation at 1 st conference of the environment and the sociological society in Israel
21) Yitshak Hashko	Dr. B. Flicstein	The effects of the Carmel Tunnels on air quality in the city of Haifa	January, 2015	Oral presentation at 42 nd Annual conference of the ISEEQS. <i>The lecture was selected as the best presentation of the conference</i>
22) Orna Raviv	Dr. R. Palatnik	Economic-Environmental Assessment of wind turbines in Israel	February, 2015	-Oral presentation at 10 th Conference on Sustainable Development of Energy, Water and Environment Systems -Oral presentation at 43 rd Annual conference of the ISEEQS, 2015 -Oral presentation at 14 th World Wind Energy Conference 2015

23) Ohad Levi	Dr. K. Or-Chen	Environmental attitudes and their impact on the willingness to accept electricity smart grid	May 2015	
24) Adi Chapal	Prof. A. Haim	Analysis of Reports of Emissions and Transfers to the Environment in Israel (2012 & 2013) and Comparison to Germany (2012) using Pollutant Release and Transfer Register (PRTR)	February 2016	Oral presentation at Health and Environment. The 1 st conference in memory of Dr. J. Krikon
25) Yaarit Licht	Dr. T. Eshet	Agricultural Produce Surplus and their Most Effective Utilization	February 2016	Oral presentation at 42 nd Annual conference of the ISEEQS, 2014 Oral presentation at 2 nd international conference on Global Food Security 2015
26) Idan Liebes	Dr. R. Palatnik	Economic Implications of Natural Gas Exports: A Case Study Analysis for Israel	May 2016	Oral presentation NRERC annual conference 2015
27) Moshe Tsur	Prof. M. Shechter	Cost benefit analysis of subsidies to renewable energy projects	May 2016	
28) Ori Lutzki	Dr G. Eylam	Vulnerability of energy systems to cyber attacks		
29) Omer Chotkowsky	Dr Orr Karrasin	Evaluation of UN climate change agreements		
30) Noa Yerushalmi	Prof S. Paz	Adaptation of cities in Israel to climate change		

Ph.D. Students				
1) Tal Goldrath	Prof. M. Shechter	Sustainability Indices of Electricity Efficient Measures In Israel's Electricity Market	Completed January 2016	Poster presentation in Guilin, China 2013 See Item D24
2) Ayelet Davidovitch	Prof. M. Shechter Dr. R. Palatnik	The Implications of Climate Change on the Insurance Industry and the Israeli Economy	Completed January 2017	-Oral presentation in 40 th Annual conference of the ISEEQS. -Oral presentation and session chair- 5 th World Congress of Environmental and Resource Economists Istanbul, Turkey -Oral presentation at 42 nd Annual conference of the ISEEQS.
3) Zvi Baum	Dr. D. Elmakis, Dr. R. Palatnik	A new approach for dynamic electricity demand side management for residential sector	Completed August 2016	-Oral presentation at 42 nd Annual conference of the ISEEQS. -Oral presentation at 'Characteristics of the "Prosumer "in the future energy markets'
4) Efrat Elimelech	Dr. E. Ert	On the link between household behavior and waste production	Level B In process	
5) Hala Abu-Kala	Prof. M. Shechter Dr. R. Palatnik	Integrational Allocation of Perishable Natural Resources	Level B In process	
6) Shira Daskal	Prof. M. Shechter	Regulation of the waste sector in Israel	Level B In process	
7) Leigh Kroeger	Dr. Dan Tchernov	Offshore Aquaculture Sustainable Governance	Level B In process	
8) Tal Zohar	Dr. Y. Parag	Middle Out approach for Sustainable Transition to a low carbon society	Level A	

PUBLICATIONS

A. Ph.D. Dissertation

Title: Environmental accounting as a means for the development of solid waste management policy in Israel. Technion.

Date of submission: September 2000.

No. of Pages: 98 pp.

Supervisors: Prof. Y. Avnimelech, Technion and Prof. M. Shechter, University of Haifa.

Language: English.

Note: For joint publications, the order of the listed authors appears **according to their relative contribution**, unless otherwise specified

B. Scientific Books (Refereed)

Authored Books- Published

1) **Ayalon O.**, Shechter M., Avnimelech Y., 1994. Collection & Recycling of MSW-Analyses of Alternatives. The S. Neaman Inst. Publications, ISBN- 965-386-017-8, 103 p. (Hebrew, English abstract)

C. Monographs

none

D. I. Articles in Refereed Journals (in English)

1) Kochva M., **Ayalon O.**, Avnimelech Y., 1994. "Slow Release Rate: Individual granules and population behavior". Fertilizer Research, 39: 39-42.
(Current journal title: Nutrient Cycling in Agroecosystems)

2) **Ayalon, O.**, Avnimelech, Y., Shechter, M., 2000. "Application of a comparative multidimensional life cycle analysis in solid waste management policy: the case of soft drink containers". Journal Environmental Science and Policy, Vol. (3), 2- 3, pp 135-144

3) **Ayalon O.**, Avnimelech Y., Shechter M., 2000. "Alternative MSW Treatment Options to Reduce Global Greenhouse gases emissions –The Israeli Example". Waste Management & Research, 18: 538-544

4) **Ayalon, O.**, Avnimelech, Y., Shechter, M., 2001. "Solid waste treatment as a high-priority and low-cost alternative for greenhouse gas mitigation" Environmental Management, 27 (5): 697-704

- 5) # Palatnik, R., **Ayalon, O.** and Shechter, M., 2005. "Household Demand for Waste Recycling Services". Environmental Management. 35 (2): 121 – 129.
- 6) # Eshet T., **Ayalon O.**, Shechter M., 2005. "A Critical Review of Economic Valuation Studies of Externalities from Incineration and Landfilling". Waste Management & Research, Vol. 23, No. 6, 487-504.
- 7) # Eshet T., **Ayalon O.**, Shechter M., 2005. "An inclusive comparative review of valuation for assessing environmental goods and externalities". The International Journal of Business Environment (IJBE), Vol. 1 (2), p. 190- 210.
- 8) **Ayalon, O.**, Becker N., # Shani E., 2006. "Economic Aspects of the Rehabilitation of the Hiriya Landfill". Waste Management. Vol. 26 (11). Pages 1313-1323.
(The authors have contributed equally)
- 9) # Eshet T., **Ayalon O.**, Shechter M., 2006. "Valuation of Externalities of Selected Waste Management Alternatives: A Comparative Review and Analysis". Resources, Conservation & Recycling Vol. 46 (4), p. 335-364.
- 10) # Tzipi Eshet, Mira G. Baron, Mordechai Shechter, **Ofira Ayalon**. 2007. "Measuring Externalities of Waste Transfer-Stations in Israel, Using Hedonic Pricing". Waste Management. Volume 27, Issue 5 , Pages 614-625.
- 11) **Ayalon O.**, Avnimelech Y., 2007. "The Role of an Academic Institute in Setting National Environmental Policy: The Case of Israel". Energy. Volume 32: 927-934
- 12) **Ofira Ayalon**, Doron Lavee, 2007. "Promoting the Role of Israel's Environmental Technologies in the International Market". The International Journal of Business Environment (IJBE). Volume 1(4), p. 428-441.
- 13) **Ofira Ayalon**, Tal Goldrath, Gad Rosenthal and Michal Grossman, 2009. "Reduction of plastic carrier bag use: An analysis of alternatives in Israel". Waste Management. Volume 29 (7), p. 2025-2032.
- 14) Iddo Kan, **Ofira Ayalon**, # Roy Federman, 2010. "On the efficiency of composting organic wastes". Agricultural Economics, 41 p.151–163.
- 15) # E. Elimelech, **O. Ayalon**, B. Flicstein, 2011. "Hazardous waste management and weight-based indicators—The case of Haifa Metropolis". Journal of Hazardous Materials 185:626–633
- 16) # Dani Broitman, **Ofira Ayalon**, Iddo Kan, 2012. "One size fits all? An assessment tool for solid waste management at local and national levels". Waste Management 32: 1979–1988.

17) Shlomit Paz, **Ofira Ayalon**, # Areej Haj. 2012. "The potential conflict between traditional perceptions and environmental behavior: compost use by Muslim Farmers". Environment, Development and Sustainability, vol. 15,4 , p. 967-978.

18) Yael Steinhart, **Ofira Ayalon**, # Hila Puterman . 2013. "The effect of an environmental claim on consumers' perceptions about luxury and utilitarian products". Journal of Cleaner Production, Volume 53, p. 277-286.

19) **O. Ayalon**, B. Flicstein, A. Shtibelman. 2013. "Benefits of Improving Air Quality - Replacing Conventional Car-based Transportation to Electric Mobility". Journal of Environmental Protection. Volume 4 (10), DOI: [10.4236/jep.2013.410119](https://doi.org/10.4236/jep.2013.410119)

20) **O. Ayalon**, M. Lev-On, P Lev-On and T. Goldrath. 2014. "Greenhouse Gas Emissions Reporting in Israel: Means to Manage Energy Use". Energy Conversion and Management. Volume 85, p. 612–618

21) **O. Ayalon**, M. Lev-On, P Lev-On. 2014. "Greenhouse Gas Emission Mitigation Plan for Israel: Strategies, Incentives and Reporting". Climate Policy 15:6, 784-800
DOI: [10.1080/14693062.2014.968763](https://doi.org/10.1080/14693062.2014.968763)

Note: The publisher has set up a promotional page as a contribution to the greenhouse gases international cooperation 2015. This paper was selected to be available for free throughout 2015

22) D. Goldman, **O. Ayalon**, D. Baum, #S. Hacham. 2015. "Major matters: Relationship between academic major and university students' environmental literacy and citizenship as reflected in their voting decisions and environmental activism". International Journal of Environmental and Science Education. 10 (5), pp. 671-693.

23) #Goldrath T., **Ayalon O.**, Shechter M. 2015. "A combined sustainability index for electricity efficiency measures". Energy Policy 86, pp. 574–584

24) **O. Ayalon**, Freund Koren,S, Zarbiv Zion, M., Shmueli L. 2016. "Evaluating Market Benefits of Transportation Tunnels—The Carmel Tunnels as a Case Study". Journal of Environmental Protection, 7, 1259-1272

Articles in Refereed Journals (in Hebrew)

1) #Raviv O., **Ayalon O.** Palatnik R.R. 2015. "Economic Evaluation of Wind Power Generation in Israel". Ecology and Environment 6(3), pp. 167-173. [Hebrew]

2) **Ayalon, O.**, Leibes I., Rosenthal G., Gabay D. 2015 "The true costs of electric and hybrid car ownership". *Ecology and Environment* 6(3), pp. 195-197. [Hebrew]

3) **Ayalon, O.**, Leibes I., Rosenthal G., Gabay D. 2016. "Pneumatic waste collection systems- A techno economic analysis". *Ecology and Environment* 7(3), pp. 266-267. [Hebrew]

D. Articles or Chapters in Scientific Books

(Not conference proceedings)

1) **Ayalon O.**, Nishri A. and Avnimelech Y. 1991. "Distribution of soluble iron and zinc in leachates of municipal wastes". *In: Y. Chen and Y. Hadar (Eds.), Iron nutrition and interactions in plants*, Kluwer Academic Publ. p. 53-56.

2) **Ayalon, O.**, Avnimelech, Y. and Shechter, M., 1999. "Issues in Designing an Effective Solid Waste Policy: The Israeli Experience". *In: Sterner, T. (Ed.), The Market and the Environment: The Effectiveness of Market Based Instruments for Environmental Reform*. Edward Elgar, UK. p. 389-406

3) **Ayalon, O.**, 1999. "Priorities in municipal solid waste treatment". Chapter 8. *In: Avnimelech, Y. (Ed), National priorities in Environmental Quality in Israel*. The Neaman Inst. Pub. (Hebrew), pp. 8/1-17.

4) Avnimelech, Y., **Ayalon O.**, 1999. "Municipal Solid Waste Treatment Method-Composting". Chapter 6.2. *In: Baron M. (Ed.), Municipal Solid Waste Management: Project Methodology Haifa, Marseilles and Piraeus*. Life Program, pp. 6/25-34.

5) **Ayalon O.**, Avnimelech Y., Shechter M., 2000. "The city and the agricultural sector inter-relationship: environmental costs and benefits". *In: Brebbia C.A, Ferrante A., Rodriguez M., Terra B. (Eds.), The Sustainable City, Urban Regeneration and Sustainability*. WIT press, Southampton, Boston. pp. 85-93.

6) **Ayalon O.**, Avnimelech Y., 2002. "On The Pattern of Decision Making of Municipal Solid Waste Management". *In: Kocasoy G., Atabarut T., Nuhoglu I., (Eds.), Appropriate environmental and solid waste management and technologies for developing countries*. Bogazici University Library. pp.183- 190.

7) **Ayalon O.**, Shechter M., Avnimelech Y., 2003. "Assessing the Ancillary Socio-economic Benefits of Mitigating Greenhouse Gases from municipal solid waste management". *In: Giupponi C. and Shechter M. (Eds.), Climate Change and the Mediterranean: Socio-economic Perspectives of Impacts, Vulnerability and Adaptation*. Edward Elgar, UK. p. 213-222.

8) **Ayalon O.**, 2009. "Sustainable Green Rural Municipalities- The Path Towards an Environmental and Energy Friendly Rural Community in Israel". *In: Mason, M. and Mor A. (Eds.), Renewable Energy in the Middle East: Enhancing Security through Regional Cooperation*. Springer Science: Berlin. p. 111-124.

9) **Ayalon O.**, Brody S., Shechter M., 2013. "Household waste generation, recycling and prevention". *In: Greening Household Behaviour: Overview from the 2011 Survey*, OECD Publishing. p. 219-243.

Doi: [10.1787/9789264181373-11-en](https://doi.org/10.1787/9789264181373-11-en)

10) Palatnik, R. R., Brody S., **Ayalon O.** Shechter M., 2014. "Greening Household Behaviour and Waste", *OECD Environment Working Papers*, No. 76, OECD Publishing.

Doi: <http://dx.doi.org/10.1787/5jxrclmxnfr8-en>

E. Articles in Conference Proceedings

1) Eshet T., **Ayalon O.**, Shechter M., 2004. "Valuation of waste management externalities: A comparison review and analysis". *Proceedings of ISWA World Environment Congress and Exhibition, Rome 2004*. [D6]

2) **Ayalon O.**, Avnimelech Y., 2005. "Setting National Environmental Priorities- The Israeli Case Study". *The 3rd Dubrovnik Conference on Sustainable Development of Energy, Water and Environment Systems*. [D11]

3) Eshet T., Baron M. G., Shechter M., **Ayalon O.**, 2005. "Measuring Externalities of Waste Transfer-Station Using Hedonic Prices: Case study, Israel". *14th Annual Conference, European Association of Environmental and Resource Economists, Bremen, Germany*. [D10]

4) Kan I., **Ayalon O.**, 2006. Economic Analysis of Compost Production in Israel. *Proceedings of ISWA World Environment Congress and Exhibition, Copenhagen Denmark*. [D14]

5) Elimelech E., **Ayalon O.**, Flicstein B., 2008. Management of hazardous waste in Israel- The case study of Haifa region. *Proceedings of 1st International Conference of Hazardous Waste Management, Crete, Greece*. [D15]

6) **O. Ayalon**, T. Goldrath, M. Nachmany, M. Lev-On, P. Lev-On, 2011. Greenhouse Gas Emission Reductions Action Plan for the State of Israel. *Proceedings of the Air & Waste Management Association (A&WMA), San Francisco, California*. [D20]

- 7) **Ayalon O.**, Lev-On M., Lev-On P., 2012. Greenhouse Gas emission mitigation plan for the State of Israel: Strategies, incentives and reporting. Proceedings of International association of Environmental Economists (IAEE), Venice, Italy. [D21]
- 8) **O. Ayalon**, M. Lev-On, P. Lev-On. 2013. Greenhouse Gas Emissions Reporting in Israel: Means to Manage Energy Use. Proceedings of 26th International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy System. Guilin, China.
- 9) T. Goldrath, **O. Ayalon**, Y. Parag, M. Shechter, 2013. Israel's electricity market sustainability indices. Proceedings of 26th International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy System. Guilin, China.
- 10) L. Regev, R. L. Mersky, **O. Ayalon**, 2014. Economic Feasibility of Waste Separation at Source: Case Study of Neighborhoods in Haifa, Israel. Proceedings of the 29th International Conference on Solid Waste Technology and Management. Philadelphia, PA USA.
- 11) A. Davidovitch, M. Shechter, **O. Ayalon**, R. Palatnik, 2014. The Implications of Climate Change Phenomenon on the Insurance Industry and The Israeli Economy. Proceedings of the 5th World Congress of Environmental and Resource Economists. Istanbul, Turkey
- 12) A. Davidovich, Palatnik, R., **Ayalon O.** and Mordechai Shechter M., 2015. An Assessment of the Impact Of Climate Change On The Insurance Market: Global And Local Analyses". 21st Annual Conference of the European Association of Environmental and Resource Economists EAERE. Helsinki, Finland.
- 13) O. Raviv, D. Broitman, **O. Ayalon**, I. Kan, 2016. "The Power of Logistics: A regional optimization model for waste-to-energy generation using agricultural vegetative residuals". 6th International Symposium on Energy from Biomass and Waste. Venice, Italy

Entries in Encyclopedias

Olympiyeda 2005. The National Museum of Science, Technology and space.
The chapter: Energy and Environment. Published on a CD.

Other Scientific Publications

As an expert, I publish many scientific and policy papers listed below:

- 1) M. Green, **O. Ayalon**, M. Kochba, I. Ravina. 1994. "Characterization of sanitary landfill leachates". Final report No.152-744, Ministry of the Environment (Hebrew).
- 2) Shechter M. and **Ayalon O.** 1994. "Recycling Policy for MSW- Analyses of alternatives". Final report , Ministry of the Environment (Hebrew).
- 3) Shechter M., **Ayalon O.** 1995. "Economic incentives in municipal solid waste management". Final report , Ministry of the Environment (Hebrew).
- 4) Shechter M., **Ayalon O.** and Avnimelech Y. 1996. "Economic incentives in municipal solid waste management policy in Israel". Final report, Ministry of the Environment. 67 pp. (Hebrew).
- 5) **Ayalon O.**, Shechter M. and Avnimelech Y., 2000. "Life Cycle Analysis as a means for the development of solid waste management policy in Israel- The case of soft drinks bottles". Final report, Ministry of the Environment. 35 pp. (Hebrew).
- 6) **Ayalon O.**, Shechter M. and Avnimelech Y., 2001. "Life Cycle Analysis as a means for the development of solid waste management policy in Israel- The case of greenhouse gases emissions". Final report, Ministry of the Environment. 42 pp. (Hebrew).
- 7) **Ayalon, O.** and Kan, I. 2001. The influence of solid waste treatment on land utilization. Karka 51: 130-153 (Hebrew).
- 8) Gavish, I. and **Ayalon. O.**, 2003. Economic-Environmental perspectives on the application of the Packaging Law in Israel. Studies in Management of environmental and natural resources. p. 53-66. (Hebrew)
- 9) **Ayalon O.**, Goren Y., 2003. "The Global Environmental Market - An Economic Opportunity for Israel. First Position Paper, Analysis and Initial Conclusions". S. Neaman Publ. 29 pp. (Hebrew)
- 10) Zaban H., Amdor L., Avnimelech Y. **Ayalon O.**, 2002. Development of Sustainable Agriculture Under Drought Conditions. S. Neaman Publ. 79 pp. (Hebrew)
- 11) Avnimelech Y., **Ayalon O.**, (Eds.) 2003. "National Priorities for the Environment in Israel - Position Paper III". S. Neaman Publ. 100 pp. (Hebrew)
- 12) Zaban H., Amdor L., Avnimelech Y. **Ayalon O.**, 2004. Sustainable Agriculture. How may the external values of agriculture be integrated as part of the farmer's income, in the different areas of Israel. S. Neaman Publ. 87 pp.(Hebrew)
- 13) **Ayalon O.**, Hirsch M., Grossman G., Schitzer A., 2004. Air conditioner survey in Israel- conservation potential and policy measures. S. Neaman Publ. 117 pp. (Hebrew)
- 14) **Ayalon O.**, Goren Y., Pareto Ltd., 2004. The Global Environmental Market- An Economic Opportunity for Israel. A Primary model to assess the costs and benefits of governmental investment in the field of environmental technologies. S. Neaman Publ. 52 pp. (Hebrew)
- 15) Avnimelech Y., **Ayalon O.**, (Eds.), 2004. "National Priorities for the Environment in Israel - Position Paper IV". S. Neaman Publ. (Hebrew)
Vol. 1: Environmental education, 112 pp. (Hebrew)

- Vol. 2: The Energy Market in Israel 112 pp (Hebrew)
 Vol. 3: Environmental management 56 pp (Hebrew)
- 16) **Ayalon O.**, Jerby S., 2004. "Policy Towards Reducing Transportation-Related Air-Pollution in Dan Region". S. Neaman Publ. 42 pp. (Hebrew)
 - 17) Zaban H., Amdor L., Avnimelech Y. **Ayalon O.**, 2005. Conservation of the rural landscape: Implementation model of sustainable agriculture in selected agricultural areas in Israel. S. Neaman Publ. 115 pp. (Hebrew)
 - 18) **Ayalon O.**, 2006. "Cleantech needs government support". IVC (Israel Venture Capital). p. 31, 47.
 - 19) Grossman G., **Ayalon O.**, 2006. Electricity from Photovoltaic Systems. S. Neaman Publ. 28 pp. (Hebrew)
 - 20) Grossman G., **Ayalon O.**, 2006. Combined Heat and Power (Cogeneration) Systems. S. Neaman Publ. 28 pp. (Hebrew)
 - 21) Avnimelech Y., **Ayalon O.**, (Eds.), 2006. "National Priorities for the Environment in Israel - Position Paper V". S. Neaman Publ. (Hebrew). 121 pp.
 - 22) **Ayalon O.**, Grossman G., Avnimelech Y., Baron Y., 2006. Waste to Energy. S. Neaman Publ. 31 pp. (Hebrew)
 - 23) Grossman G., **Ayalon O.**, 2007. Solar Energy for the Production of Heat. S. Neaman Publ. 35 pp. (Hebrew)
 - 24) **Ayalon O.**, Temkin A., 2007. CleanTech – A Clean Profit. Globes Research Center. 56 pp. (Hebrew). [30,000 downloads from Globes website].
 - 25) Grossman G., **Ayalon O.**, 2007. Research and Development Needs in Israel in the Field of Alternative Energy. S. Neaman Publ. 45 pp. (Hebrew)
 - 26) Grossman G., **Ayalon O.**, 2007. Efficiency and Energy Savings in Air Conditioning Systems. S. Neaman Publ. 41 pp. (Hebrew)
 - 27) **Ayalon O.**, Spektorovsky L., Gressel N. 2007. Between technology development and public transparency: creating tools for public discussion on business ventures and technological alternatives for treating solid waste. S. Neaman Publ. 108 pp. (Hebrew).
 - 28) Gal D., **Ayalon O.**, Goldrath T., 2008. Biofuels for Energy Production. S. Neaman Publ. 67 pp. (Hebrew).
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<http://www.nrg.co.il/online/1/ART2/268/693.html> (9/8/2011)
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