

Name  
Ofira Ayalon

Date  
July, 2023

## **PART A: CURRICULUM VITAE**

### **1. Personal Details**

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### **2. Summary of My Scientific and Other Contributions and Future Plans**

#### **a. Contributions to Science:**

#### **Contribution 1: Combining academic activity with environmental advocacy through mentoring and supervision of students.**

Throughout my career, I have always combined my academic research, teaching, supervision of research conducted by graduate students, and other intramural activities within the university, with advocacy for the latest and most urgent environmental issues. My work has focused on the most pertinent and urgent environmental issues, including waste management, energy policy, climate change – adaptation and mitigation (reduction of greenhouse gas emissions through energy efficiency and renewable energy) – and many additional topics of great environmental concern.

The driving force and inspiration I give to my students is the basis of the academic excellence I lead. The range of topics is the fruit of mutual inspiration between me and my graduate students at the Department of Natural Resources and Environmental Management. I have supervised over 35 M.A. students and 15 Ph.D. students, as well as over 80 “applied projects” at the Department.

To pinpoint some achievements of my students: several students have been recruited by academic institutions (in Israel and the UK), several hold senior positions in government offices, and some are private environmental consultants and directors in private and government agencies.

**Relevant publications:** C.I 28; C.I 30; C.I 41; C.I 36

#### **Contribution 2: Research and other activities at the national level that influence public policy.**

My overall research was recognized by the 2018 Michael Landau Prize for the Sciences and Research in the field of sustainability. My research and publications are often presented to decision makers, including Government Ministries and agencies, as well as other public agencies. They provide a science-based, rational approach to decisions, laws, and environmental policies. My publications are cited by governmental organizations (i.e., Government Ministries, the State Comptroller of Israel) and by non-governmental organizations (NGOs). During 2011–2016 I served as Director of the Israeli Climate Change Information Center and established the center’s website ([iccc.org.il](http://iccc.org.il)).

**Relevant publications:** C.I 11; C.I 21; C.I 29; C.I 30

#### **Contribution 3: Research and other activities at the international level that influence public policy.**

I have served as PI and Co-PI in European research funds (for example, FP7-STREP and FACCE-JPI). I have served as an associate editor for the following journals: Waste Management, Journal of Solid Waste Technology and Management. I am an active reviewer of manuscripts and research proposals for various international scientific journals, EU agencies and Israeli research funds. I have been invited to present my studies as a keynote or invited speaker at various conferences and meetings, and to teach in China (MBA program at East China Normal University). As a representative of academia and the University of Haifa, I was selected to be a member

of the national delegation to the international climate cooperation of parties (COP 15, COP 21, COP 25; Tel in Sharm El-Sheikh- chair of a session and an oral presentation).

The Iraj Zandi Award presented to me during the 32<sup>nd</sup> International Conference on Solid Waste Technology and Management, Philadelphia, USA (2018), encapsulates the recognition of my contribution to the field of solid waste technology and management.

**Relevant publications:** C.I 31; C.I 38; D.9

### b. Contribution to Society

My academic and public activities are closely entwined.

Year	Contribution to the Community
2005–2015	A member of the Scientific Committee of MADATEC – Israel National Museum of Science, Technology & Space
2007–present	Annual lectures to school students – BASHAAR project. Lectures on environmental topics to teachers and high-school students
2008- present	Mentoring high-school and university students in developing innovative technologies
*2018–2022	Senate member – The Max Stern Yezreel Valley College, Israel
2010-2016 *2022- present	Board Member of ISEES
*2021	Environmental Policy. 4 Podcasts <a href="https://www.kan.org.il/Podcast/program.aspx?progId=2025&amp;subcatid=505">https://www.kan.org.il/Podcast/program.aspx?progId=2025&amp;subcatid=505</a>
*2021	The broadcasted university. 2 Podcasts on sustainability and the climate crisis <a href="#">Here</a>
*2022	Judge, Breakthrough Research- Climate Solutions Prize by JNF Canada
*2022-2023	Judge, ISRAEL EARTH PRIZE by Union & Toyota <a href="https://www.israearthprize.toyota.co.il/en">https://www.israearthprize.toyota.co.il/en</a>
*2023	Committee Member of the Israel Prize for sustainability and climate research

### c. Plans for future research programs (my academic vision)

The University of Haifa is addressing and committed to the UN Sustainable Development Goals (SDGs). In the first (2021) [report published](#), my research and activities were cited (SDG7, SDG12, SDG13) emphasizing the range of topics I study.

I intend to continue conducting research to further promote science-based decisions pertaining to the environment in the following fields:

- 1) Energy and waste supply chains and management to increase sustainability;
- 2) Reduction of GHGs by promoting the introduction of innovative technologies, facilitating the implementation of economic incentives, and promoting policy makers’ understanding of the social and psychological factors that could lead to attitudinal and behavioral change;
- 3) Adaptation to climate change, mainly regarding the resilience of cities to climate change; and
- 4) Increasing food security by analyzing the potential of technological solutions in food production as well as reducing food loss through the lens of sustainable development.

A new direction lies in studying the association of sociology and psychology in environmental management, through several collaborations with Israeli and international researchers.

In the **international arena**, I plan to continue my collaboration with international researchers, to publish research papers in academic journals and present my research at conferences. I plan to expand my role in assisting developing countries and emerging economies by means of capacity building (through courses, lectures, and practical consultation) and to promote Israeli technologies and know-how.

To sum up, my career has been driven by a desire to deepen my own knowledge as well as that of my students, the academic world (research, papers in scientific journals, conferences), the public, and decision makers in order to ultimately make the world a better place.

### **3. Higher Education**

#### **a. Undergraduate and Graduate Studies**

<b>Period of Study</b>	<b>Name of Institution and Department</b>	<b>Degree</b>
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**

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

### **4. Academic Ranks and Tenure in Institutes of Higher Education**

<b>Dates</b>	<b>Name of Institution and Department</b>	<b>Rank/Position</b>
<b>10/2001–10/2007</b>	The Department of Natural Resources and Environmental Management, The Faculty of Social Sciences, University of Haifa.	<b>Lecturer (50%)</b>
<b>6/2006–9/2006</b>	Research associate with Prof. C. J. Andrews, Director, Program in Urban Planning and Policy Development, Rutgers University, NJ: "Sustainable energy targets for New Jersey".	<b>Summer Sabbatical</b>
<b>10/2007–12/2010</b>	The Department of Natural Resources and Environmental Management, Graduate school of Management, University of Haifa.	<b>Senior Lecturer (Specialist Track)</b>
<b>1/2011–2018</b>	The Department of Natural Resources and Environmental Management, Faculty of Management, University of Haifa.	<b>Associate Professor (Specialist Track)</b>
<b>6/2012–10/2012</b>	Visiting professor with Prof. R. Cossu, Head of the Environmental Engineering School. University of Padova, Italy	<b>Summer Sabbatical</b>
<b>1/2018</b>	The Department of Natural Resources and Environmental Management, Faculty of Management, University of Haifa.	<b>Full Professor (Specialist Track)</b>
<b>*4/2019–10/2019</b>	Visiting Professor with Prof. Carlos Mataix Director, <a href="#">Centro de Innovación en Tecnología para el Desarrollo Humano – itdUPM</a> , Madrid, Spain.	<b>0.5 Sabbatical</b>
<b>*7/2022–9/2022</b>	Visiting Professor with Prof. Francesco Di-Maria, University of Perugia, Italy	<b>Summer Sabbatical</b>

## **5. Offices in University Academic Administration**

<b>Years</b>	<b>Name of Institution and Department</b>	<b>Role</b>
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
2010–2019	Natural Resource and Environmental Research Center (NRERC), University of Haifa	Director
2014–2018	Department of Natural Resources & Environmental Management, University of Haifa	<b>Head</b>
2014–2018	Ph.D. departmental committee	Member
2014–present	MA departmental committee	Member
2016–present	Haifa Research Center for Maritime Strategy	Advisory Board
2017	The University Senate, University of Haifa	Member
2017–2022	The University Graduate Studies committee, University of Haifa	Member

## **6. Scholarly Positions and Activities Outside the University**

<b>Years</b>	<b>Membership in Academic Professional Associations</b>
1994–present	International Expert Group (IEG) for Life Cycle Assessment (LCA) of Integrated Waste Management. IEG is a group of leading environmental experts with an interest in using LCA techniques to inform decision making for waste management.
1995–present	Italian Association of Energy Economists (IAEE) International Waste Working Group (IWWG) The International Solid Waste Association (ISWA)
2009–present	Involved in scientific committees of various international conferences dealing with sustainability, energy management and policy [see 7 a]
2001–present	Israel Society for Ecology and Environmental Sciences (ISEES)
2010–2016	Board Member of ISEES
2011–2017	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)
2015–present	Member of scientific committees and leader of energy policy in ECOS (Efficiency, Cost, Optimization, Simulation and Environmental Impact) international conferences [see 7 a]

2016–present	Member of Scientific Committee of the International Conference on Solid Waste (ICSW) Technology and Management [see 7 a]
2016–present	Member of ISEES Audit Committee
2017	The 7 <sup>th</sup> International Conference on Solid Waste Management (Hyderabad, India)
*2018–present	<b>Foundation team:</b> The Israeli Society for Corporate Social Responsibility and Business Sustainability
*2022–	Board Member of ISEES
<b>Year</b>	<b>Editorial Assignments</b>
2014–2022	Associate Editor, <i>Journal of Solid Waste Technology and Management</i> (A professional journal, not ranked)
2016–2019	Associate Editor, <i>Waste Management</i> (the leading scientific journal in the field of waste management (2016 Impact Factor =4.03; 2019 IF=5.448; Q1)
*2019–2020	Editor of Special Issue "Meeting Sustainable Development Goals by Reducing Food Loss". <i>Sustainability</i> (2019 IF=2.592; Q2)
*2022	Guest editor- <i>Ecology and Environment</i> (The journal is in Hebrew, included in the Vatat list, not ranked)– a special issue on greenhouse gases mitigation.
<b>Year</b>	<b>Reviewing for Refereed Journals</b>
2002–present	<i>Ecological Economics</i> (IF 2021=6.5; Q1) <i>Environmental Science &amp; Technology</i> (IF 2021=11.35; Q1) <i>Environmental Management</i> (IF 2020=3.26; Q2) <i>Waste Management</i> (IF 2021=8.81; Q1) <i>Waste Management &amp; Research</i> (IF 2021=4.43; Q2) <i>Packaging Technology and Science</i> (IF 2021=2.54; Q3) <i>Energy &amp; Environment</i> (IF 2021= 3.154; Q3) <i>Sustainability</i> (IF 2021=3.889; Q2) <i>Energy Efficiency</i> (IF 2021= 3.13; Q3)
*2018–present	<i>Energy for Sustainable Development</i> (IF 2021=5.65; Q2) <i>Energies</i> (IF 2021=3.25; Q3) <i>Appetite</i> (IF 2021= 5.01; Q1)
<b>Years</b>	<b>Reviewing for Books</b>
2010	"Sustainable Systems and Energy Management" at the Regional Level: Comparative Approaches" Editor: Dr. Marco Tortora. University of Florence, Italy
<b>Year</b>	<b>Reviewing for Funding Agencies</b>
2009	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	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	The Israel Science Foundation (ISF) The Ministry of Environmental Protection (MOEP), Chief Scientist office New approaches in statistic methodologies of computing Greenhouse gases (GHG) emissions by Israel Central Bureau of Statistics
2015	Germany–Israel Foundation (GIF)

2015–2019	<b>Appointed Horizon 2020 National Expert</b> (EU research framework) in the field of climate action, resource efficiency, and raw materials (Environment). My role is to assess drafts of research topics suggested by the EU and to suggest changes or adjustments that would better reflect the specific research capabilities of Israeli researchers.
2018	HaMaarag—Israel’s National Nature Assessment Program
*2018–present	<b>Expert Peer Reviewer</b> for Italian Scientific Evaluation – REPRISE Registered as a foreign independent scientific expert
*2018	<b>Scientific Peer Reviewer</b> for Chilean Antarctic Institute (INACH)
*2019	<b>Scientific Peer Reviewer</b> for NWA-ORC, the Dutch National Research Agenda (NWA).
*2020	<b>Judge</b> at Tadmor Levy “From Linear to Circular: Green Innovation”, a start-up competition aiming to encourage sustainable, green entrepreneurship from AgriTech and CleanTech across EnergyTech, FoodTech, PropTech and WaterTech.
*2021	Chief scientist research proposals– Ministry of Agriculture
*2022	The Hebrew University Center for Sustainability
*2022	Israel Ministry of Innovation, Science and Technology—smart transportation research proposal evaluation
*2022	Chief scientist research proposals– Ministry of Agriculture
*2023	Chief scientist research proposals– Ministry of Environmental Protection
<b>Year</b>	<b>Other Scholarly Positions and Activities</b>
*2018–2022	Member of the Board of Directors, The Max Stern Yezreel Valley College, Israel
<b>Year</b>	<b>Other Relevant Positions and Activities - Professional and Academic Consultancy &amp; Management</b>
1996–2002	<b>Consultant to the Ministry of the Environment on Solid Waste Management and Policy</b> My role as a consultant included conducting studies, cost-benefit analyses of alternative policies, publishing policy papers and policy recommendations.
1996–2001	<b>LIFE 3<sup>rd</sup> Countries- Coordinator and Project Manager of Waste Source-Separation Pilot Projects in Tivon and Tirat Carmel (Israel).</b>
2002–present	<b>Head of Environment and Energy Cluster at the Samuel Neaman Institute (SNI).</b> The scientific reports and summaries submitted after extensive research serve as a basis for decisions made by the Ministries of Finance, National Infrastructure and Environmental Protection, as well as other relevant government and non-government organizations. The findings of many of these studies, which have helped decision makers in formulating new laws and policies, are summarized below. <b>A. <u>Setting National Environmental Priorities</u></b> <b>A series of publications on main environmental concerns in Israel</b> Actively raising public awareness of important environmental issues to promote a balanced consideration of these issues and to facilitate rational decision-making. <a href="#">10 position papers were published.</a> <b>B. <u>Agriculture and the Environment</u></b> <b>I. Agriculture as a Producer of Public Goods</b> The studies assess the positive contribution of agriculture not only to the Israeli economy and the society. (See items G.17, G.65) <b>II. Mariculture</b>

A policy document [G.59], which provides guidelines for objectives, strategies, and tools for long-term planning, spatial deployment, and sustainable development to the Ministry of Agriculture and Israel Planning Authority (Ministry of Finance).

### **III. Agro-Technologies**

The novel paper [G.65] presents the major trends affecting the technologies of the agricultural industry around the world and sheds light on the opportunities and obstacles faced by entrepreneurs, investors, and industrialists in Israel.

(See items G.10, G.12, G.17, G.58, G.65).

#### **C. Analyzing Business Opportunities in Environmental Technologies**

The principles of shaping policy that promotes environmental technologies were analyzed and implemented by the Israel Innovation Authority

(See items C.I12, G.9, G.14, G.18, G.24, G.65).

#### **D. Reducing Transportation-Related Air Pollution**

Air pollution emitted from transportation contributes to poor air quality, which has negative impacts on the health and welfare of citizens. Several studies offer unique approaches to reduce this environmental burden. (See items C.I 19, C. I 24, G.61, G.76, G.79, G.80, G.84).

#### **E. Policy Recommendations on Waste Management in Israel**

Shaping Israel's waste management policy-

##### **I. The Landfill Levy**

An assessment regarding the effectiveness of the tax was submitted to the MOEP. See item G.66

##### **II. The Packaging Law**

The study served as the basis for the packaging law. See item G.42

##### **III. Reduction of the Use of Plastic Shopping Bags in Israel**

The study [G.32] included a comparison of the laws implemented in other countries and the possible implications of such laws to Israel. (See item C.I 13)

##### **IV. MOEP and Local Authorities**

Studies include- Residential pneumatic refuse collection systems – a techno-economic analysis for municipalities [G.57]; The feasibility of public-private partnerships (PPP) waste treatment facilities in Israel [G.68]; A formula for calculating a commercial waste fee [G69]; Production of energy from municipal waste [G.78].

(See items G.27, G.30, C.I13, G.32, G4.2, G.56, G.66, G.68, G.69, G.78).

#### **F. Energy Policy and Management**

My recent field of research includes various aspects of fuel substitutes for transportation. (See recent 10 years items G.56, G.70, G.73, G.75, G.77, G.78, G.81).

#### **G. Climate Change**

Since 2009, leader and supervisor of the research and the research-derived policy within the scope of climate change, regarding both adaptation to climate change and mitigation of greenhouse gas (GHG) emissions.

##### **I. Mitigation – Greenhouse Gases Emission Reduction**

In 2009, I headed a team of ten researchers and professionals who prepared the economic analysis of GHG reduction alternatives in Israel and suggested policy measures required to achieve the target of this plan. See item G.44

##### **II. Israeli Voluntary GHG Registry**

Since 2010 I have been the director of [this scheme](#).

	<p><b>III. Adaptation to Climate Change</b></p> <p>I served as Director of the Israeli Climate Change Information Center (ICCIC) and established the center's website (iccic.org.il). Based on the findings, the ICCIC formulated a national policy for adaptation. (See items C.I 20, C.I 21, G.41, G.42, G.44, G.46–49, G.51–52, G.55, G.60, G.67)</p>
2007–present	<p><b>Initiator and consultant of Green Campus Project</b></p> <p>Initiator of the project at the Technion and at the University of Haifa</p> <p>Currently, I am a member of the University of Haifa's Green Campus steering committee and the MOEP advisory committee.</p>
2009–2012	<p><b>Academic Advisory Board</b> of Industrial Cooperation Authority (ICA), Ministry of Industry Trade and Labor; I serve as a consultant regarding the environment.</p>
2011–present	<p><b>Consultant</b> (volunteer) to the Environmental Public Committee of <i>Emun Hatzibur</i>, an NGO.</p>
2012–2013	<p><b>Advisory Board</b> of the Green Globus Trophy, which is awarded by Life &amp; Environment, the Israeli Union of Environmental NGOs</p>
2015–2019	<p><b>Cooperative Agreement</b> established with Jiangsu (China). Modern Low-carbon Technology Institute: "Carbon Emission Evaluation System of MSW Treatment"</p>
2015	<p><b>Member of the panel of judges</b> for the final presentations of innovation projects by student teams of the 2015 spring I-Podia class on Principles and Practices of Global Innovation.</p>
2015-2020	<p><b>National Focal Expert for CTCN</b> [the operational arm of the UNFCCC Technology Mechanism, hosted by the UN Environment Program (UNEP) and the UN Industrial Development Organization (UNIDO)].</p> <p>CTCN promotes the accelerated transfer of environmentally sound technologies for low carbon and climate resilient development at the request of developing countries.</p>
2016–2019	<p><b>Advisory Board Member</b> of the International Sea Control Holdings</p> <p>This private company specializes in the development of marine technology ventures in mariculture in the open sea.</p>
2016–present	<p><b>Member of the Board of Directors, <a href="#">Research Center on Maritime Strategy</a></b>, University of Haifa</p>
2016–2017	<p><b>Mentor</b> of Haifa <a href="#">CityTechLab</a>, responsible for integrating a novel waste management project, including the business plan and beta-site implementation</p>



## 7. Conferences/Invited Lectures/Seminars

### a. Participation in International Conferences (past 10 years)

In case of multiple presenters, the name of presenter is underlined.

# My student

Date	Name of Conference	Place of Conference	Subject of Lecture/ Discussion	Role
16–19 July 2013	26 <sup>th</sup> International Conference – ECOS, 2013. On Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems	Guilin, China	-GHG Emissions Reporting in Israel: Means to Manage Energy Use (with Miriam Lev-On, Perry Lev-On) -Israel's Electricity Market Sustainability Indices (with #T. Goldrath, Y. Parag, M. Shechter)	-Oral presentation See item C.I 20  -Poster presentation See item E9
26–28 October 2015	The 14 <sup>th</sup> World Wind Energy Conference	Jerusalem	An Economical-Environmental Assessment of Wind Power Generation in Israel <u>(With #O. Raviv, R. Palatnik)</u>	Oral presentation See item C.III
18–19 July 2013	5 <sup>th</sup> International Conference on Climate: Impacts and Responses	Port-Louis, Mauritius	Adaptation to Climate Change- Israel and Eastern Mediterranean <u>(with M. Shechter, R. Palatnik, A. Davidovitch)</u>	Oral presentation See items G 48, G 49, G51
10–11 September 2013	A&WMA - Climate Change Impacts, Policy, and Regulation Conference	Hyatt Dulles, Herndon, VA, USA	GHG Emission Mitigation Plan for the State of Israel: Strategies, Incentives & Reporting <u>(With M. Lev-On, Perry Lev-On)</u>	Oral presentation See item E7
18–20 November 2013	Global Food Security Challenges – European Research approaches	Müncheberg, Germany, Leibniz Centre for Agricultural Landscape Research (ZALF)	Assessing the Impact of Climate Change on Agriculture and a Water Economy with a Diverse Mix of Water Types <u>(with Z. Baum, R. Palatnik, M. Shechter)</u>	Oral presentation
27 June– 1 July 2014	Western Economic Association International 89 <sup>th</sup> Annual Conference	Denver, USA	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

			(With <u>R. Palatnik</u> , M. Shechter)	
28 June– 2 July 2014	5 <sup>th</sup> World Congress of Environmental and Resource Economists	Istanbul, Turkey	The Implications of Climate Change Phenomenon on the Insurance Industry and the Israeli Economy (with # <u>A. Davidovitch</u> , M. Shechter, R. Palatnik)	Oral presentation See item E 11
8–10 October 2014	Conference on Environment and Natural Resources Management in Developing and Transition Economies	Clermont- Ferrand, France	Weather Insurance: Economic Adaptation to Climate Change in Israel (with # <u>A. Davidovitch</u> , <u>M. Shechter</u> , R. Palatnik)	Oral presentation See item G 55
28–31 October 2014	14 <sup>th</sup> IAEE European Energy Conference Sustainable Energy Policy and Strategies for Europe	Rome, Italy	On the Link Between Using Low Carbon Fuels and Energy Efficiency Improvements for Attaining GHG Emission Reduction Goals (With M. Lev-On, P. Lev-On)	Oral presentation
13–15 July 2015	German- Israeli Roundtable and Panel	Berlin, Germany	Global Challenges, Regional Solutions: Climate Change	<b>Keynote Speaker</b>
31 August– 4 September 2015	11 <sup>th</sup> ESERA conference: Science Education Research: Engaging Learners for a Sustainable Future	Helsinki Finland	Effect of Green-School Certification on Pupils’ Environmental Literacy and Adoption of Sustainability by Schools (With <u>Goldman, D.</u> , # <u>Weiss</u> , B., Baum, D.)	Oral presentation See item C.I 27
9–10 September 2015	A&WMA Conference: Addressing Climate Change: Emerging Policies, Strategies, and Technological Solutions	Oak Brook, Illinois, USA	On the Road to the Climate Change Summit in Paris 2015: Intended National GHG Emissions Reduction (With <u>P. Lev-On</u> , M Lev-On)	Oral presentation
27 September– 2 October 2015	SDEWES 2015 - The 10 <sup>th</sup> Conference on Sustainable Development of Energy, Water and Environment Systems	Dubrovnik, Croatia	An Economical- Environmental Assessment of Wind Power Generation in Israel (with # <u>O. Raviv</u> , R. Palatnik)	Oral presentation See item C.II 1

11–14 October 2015	2 <sup>nd</sup> international conference on Global Food Security 2015	Cornell University, Ithaca, NY, USA	Agricultural Produce Surplus Management- Means to Sustainability (with T. Eshet, #Y. Licht)	Oral presentation
7–10 December 2015	21 <sup>st</sup> Conference of the Parties (COP 21) to the United Nations Framework Convention on Climate Change	Paris, France	<b>Member of the Israeli Governmental delegation</b>	
21–22 April 2016	TI / ERC conference Combating Climate Change: Lessons from Macroeconomics, Political Economy, and Public Finance	Tinbergen Institute Amsterdam, The Netherlands	An Assessment of the Impact of Climate Change on the Insurance Market: Global and Local Analyses (with #A. Davidovitch, <u>M. Shechter</u> , R. Palatnik)	Oral Presentation See item G. 53
2–4 June 2016	Middle East Central Asia Conference for Sustainable Aquaculture	Izmir, Turkey	Sustainable Governance of Offshore Aquaculture in Israel (With <u>L. Kroeger</u> , D. Tchernov)	Oral Presentation See item C.I 32
9–11 June 2016	AERE Summer Conference	Beaver Run, Breckenridge, Colorado, USA	An Assessment of the Impact of Climate Change on the Insurance Market: Global and Local Analyses (with #A. Davidovitch, <u>M. Shechter</u> , R. Palatnik)	Oral Presentation
19–21 September 2016	International Solid Waste Association (ISWA) world congress	Novi Sad, Serbia	Agriculture- produce surplus management- reduction of waste, means to sustainability and food security (With <u>T. Eshet</u> )	Oral Presentation
5–7 September 2016	Food security 2016	Beijing, China	Lost and found – A preliminary assessment of food waste in Israel (with T. Eshet, #E. Elimelech)	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 (An international conference held in Israel)	Agro-tech and Climate Change – New Opportunities	Oral presentation See item G65
14–17 November 2016	6 <sup>th</sup> International Symposium on Energy from Biomass and Waste	Venice, Italy	The power of logistics: a regional optimization model for waste-to-energy generation using agricultural vegetative residuals (With <u>O. Raviv</u> , D. Broitman, I. Kan)	Oral Presentation and chair of session Environmental & economic drivers in waste management See item C. I 26
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 & Sustainability of Science Education Research & Practice”	San Antonio Texas	The influence of ‘green-school certification’ on pupils’ environmental literacy and adoption of sustainability by schools (With <u>Goldman, D.</u> , Baum, D., #Weiss, B.)	Oral Presentation See item C. I 27
22–23 May 2017	5 <sup>th</sup> International Symposium on Environment & Energy Finance Issues (ISEFI-2017)	IPAG BUSINESS SCHOOL – Paris, France	Economic and risk aspects of climate change implications on the insurance sector (With <u>A. Davidovitch</u> , M. Shechter, R. Palatnik)	Oral Presentation
21–24 June 2017	5 <sup>th</sup> International Conference On Sustainable Solid Waste Management	Athens, Greece	Reduction of waste, means to sustainability via economical management of agriculture produce surplus, in Israel. (With <u>T. Eshet</u> )	Oral Presentation

			Households' Food Waste Composition – Evidence from a Field Survey. (With <u>#E. Elimelech</u> , E. Ert)	Oral Presentation See Item C.I 28
			Absorbing shocks: Designing an agriculture vegetative waste management system resilient to final product price fluctuations. (With <u>D. Broitman</u> , O. Raviv, I. Kan)	Oral Presentation See item C.I 26
26–30 June 2017	World Aquaculture 2017	Cape Town, South Africa	Sustainable Governance of Offshore Aquaculture in Israel (With <u>#L.A. Kroeger</u> , D. Tchernov)	Oral Presentation See item C. I 32
11–12 September 2017	28 <sup>th</sup> Meeting of the International Expert Group (IEG) on LCA for waste management	Milan, Italy	Developments in waste management/ LCA in Israel	Oral Presentation (Joined by webinar)
10–11 October 2017	2017 AWMA Climate Change Conference	Arlington, Virginia, USA	What is Measured is Managed: Lessons Learned from the Operation of the Israeli Voluntary Greenhouse Gas Registry Since 2010 (With <u>P. Lev-on</u> , M. Lev-On)	Oral Presentation
15–17 December 2017	The 7 <sup>th</sup> International Conference on Solid Waste Management	Hyderabad, India	1. Preliminary comparison among recycling rates for developed and developing countries: The case of India, Israel, Italy and USA (With <u>F. Di Maria</u> , R. L. Mersky, S. Daskal, S. K. Ghosh)	Oral Presentation See item C.I 31

			2. The State of Municipal Solid Waste (MSW) Management in Israel (with # <u>S. Daskal</u> )	Oral Presentation See item C.I 33
*11–14 March 2018	The 33 <sup>rd</sup> International Conference on Solid Waste Technology and Management	Annapolis, MD (Washington DC), USA	Circular Economy in India, Italy & Israel. <u>S. Kumar Ghosh</u> , F. Di Maria, O. Ayalon	Oral Presentation
*21–23 May 2018	SUM 2018 4 <sup>th</sup> Symposium on Urban Mining and Circular Economy	Bergamo, Italy	1. The role of regulation in closing the municipal solid waste loop. # <u>S. Daskal</u> , O. Ayalon, M. Shechter 2. Different Approaches for Bio-Waste Management by Anaerobic Digestion: An Italian and Israeli Comparison. <u>F. Di Maria</u> , O. Ayalon, S. Daskal	Oral Presentation See item E18  Oral Presentation See item E17
*20–21 June 2018	46 <sup>th</sup> Annual conference of the ISEES	Weizmann Institute of Science, Rehovot (An international conference held in Israel)	Adaptation to Climate Change	Coordinator and Chair of Session
*11–12 October 2018	The International Forum on Ecological Civilization and the Second International Forum on Silk Road Development	Chongming Island, Shanghai, China	The Need Promotes Innovation & Development of Environmental Technologies.	<b>Invited Speaker-</b> Oral Presentation
*13–14 May 2019	World Congress on Recycling	Valencia, Spain	Does the Extended Producer Responsibility Ensure Recycling Rates- The Case of the Packaging Law in Israel	Oral Presentation
* 3–8 June 2019	European Committee for Energy Efficient Economics (ECEEE) – Summer Study	Belambra Presqu'île de Giens, France	Peak shaving from the middle out <u>Y. Parag</u> , T. Zohar, O. Ayalon	

* 6–7 June 2019	International Conference on New Pathways for Community Energy and Storage	Groningen, The Netherlands	The role of middle actors in the transition to a low carbon society. <u>T. Zohar</u> , Y. Parag, O. Ayalon	Oral Presentation See items C.I 36, C.I 42
* 26–29 June 2019	24 <sup>th</sup> Annual Conference of the European Association of Environmental and Resource Economists	Manchester, UK	30 Shades of grey and green of the Israeli electricity market.	Oral Presentation
* 3–12 December 2019	25 <sup>th</sup> Conference of the Parties (COP 25) to the United Nations Framework Convention on Climate Change	Madrid, Spain	<b>Member of the Israeli Governmental delegation</b>	
*14 September 2020	Advanced information Technology for Water and Agricultural Management: From the models to the fields	Virtual (An international conference held On-line due to Covid-19)		Coordinator and Chair of conference
*5–8 October 2021	ICEP 2021, International Conference on Environmental Psychology	Hybrid - Teatro Comunale, Siracusa, Italy	Contact with Nature and Wellbeing During COVID-19 Lockdown (With <u>Keren Kaplan Mintz</u> , Tzipi Eshet, Orly Nathan)	Virtual presentation
* 1–2 December 2021	Climate Change 2021: The push to carbon neutrality, adaptation and resilience	Air & Waste Management Association Virtual conference	Impact of Natural Gas Operations on Methane and Volatile Organic Compounds Emissions from Natural Gas Based Transportation Fuels in Israel. <u>M. Lev-On</u> , P. Lev-On, N. Shapira, O. Ayalon	Oral Presentation
* 4–8 July 2022	The 27 <sup>th</sup> conference of IAPS (International Association People-environment Studies)	Lisbon, Portugal, Hybrid	Social and Cultural Context of Restorative Experience in Forests. <u>Keren Kaplan Mintz</u> , Ofira Ayalon, Tzipi Eshet, Orly Nathan	Oral Presentation

*4 August, 2022	The role of waste management for the implementation of Circular Economy: legal aspects and case studies	AISA Impianti, loc. San Zeno, Arezzo, Italy	Waste management in Israel- why do we step into every pitfall?	<b>Conference organizer and speaker</b>
*10 November, 2022	Climate change and the city : Health ,Welfare and Economic Implications and Adaptation Measures	COP 27, Sharem El-sheikh, Egypt	It's all about the money- The climate crisis and its effect on the economy of the city, the municipality and the well-being of the residents in Tel Aviv-Yafo	Session chair + Oral presentation
*23-26 January, 2023	International ISF workshop	University of Haifa	Introducing a culture turn in households food waste research: implications for theory, method, and policy	<b>Organizing committee</b>
* 3-6 July, 2023	IMISCOE (MIGRATION & INEQUALITIES) annual conference	Warsaw	Time preferences panels Sustainable food and cultural diversity. <u>H. Segal</u> , N. Luz, O. <u>Ayalon</u>	Virtual Oral Presentation
* 12-13 July, 2023	ITISE2023 (International conference on Time Series and Forecasting)	Gran Canaria, Spain	The optimal share of solar energy in an energy island. <u>Ofira Ayalon</u> , Moshe Tzur, Yaniv Reingewertz	Virtual Oral Presentation



**b. Participation in Local Conferences (Past 10 years)**

<b>Date</b>	<b>Name of Conference</b>	<b>Place</b>	<b>Subject of Lecture/ Discussion/ Comments</b>	<b>Role</b>
4 June 2013	Israel Economy Society Conference	Tel Aviv	OECD Survey – Household Environmental Behavior Attitudes: Waste Generation, Recycling and Prevention (with M. Shechter, <u>R. Palatnik</u> and S. Brody)	Oral presentation See item D.9
17 June 2013	Business and Environment 2013	Tel Aviv	The Role of Academia in Environmental Studies	Oral presentation
9 September 2013	The 1 <sup>st</sup> International Conference- Technological innovations in waste management	Hiria, Tel Aviv	Environmental Taxation- The Case of MSW	Oral presentation
30 September 2013	Oil substitutes. MOEP and Prime Minister's office	Maale Ha-chamisha	Waste to Transport Fuel	Oral presentation See items G.56
7–9 October 2013	41 <sup>st</sup> Annual Conference of the ISEES	Rehovot	<b>Scientific and Organizing Committee</b>	
			1) Corporate GHG Emissions Reporting- Means for Efficiency and Transparency (With <u>M. Lev-On</u> , P. Lev-On)	Oral presentation
			2) Waste Generation, Recycling and Prevention- Findings of OECD Survey – Household Environmental Behavior Attitudes (with <u>M. Shechter</u> , <u>R. Palatnik</u> and S. Brody)	Oral presentation See item D.9
			3) Green School Accreditation and its Effect on Sustainable Culture and Environmental Literacy (with <u>#B. Weiss</u> , D. Goldman, D. Baum)	Oral presentation <i>[Awarded best lecture]</i> See item C.I 27

19–20 November 2013	Israel Energy & Business Convention 2013	Tel Aviv	The Environmental Aspects of Natural Gas Use in Power Plants	Oral presentation
9 July 2014	4 <sup>th</sup> Annual conference on future industries- Natural Gas for industrial prosperity	Rupin, academic college	The role of Academia in the Developing Energy Sector in Israel- Emphasis on Natural Gas Market	Oral presentation
16–18 September 2014	42 <sup>nd</sup> Annual conference of the ISEES	Bar Ilan University	1) An Innovative Approach for Dynamic-Active Electricity Demand Side Management for households in Smart Grids (with <u>#Z. Baum</u> , R. Palatnik, D. Elmakis)	Oral Presentation
			2) The Effects of the Carmel Tunnels on Air Quality in the City of Haifa (with <u>Y. Hashko</u> , B. Flicstein)	Oral Presentation <i>[Awarded best lecture]</i>
			3) The Implications of Climate Change on the Insurance Industry and the Israeli Economy (with <u>#A. Davidovitch</u> , M. Shechter, R. Palatnik)	Oral Presentation
			4) Agriculture Surpluses in Israel (with <u>T. Eshet</u> , <u>#Y. Licht</u> )	Oral Presentation and session chair
			5) Waste-Derived Oil Substitutes (with <u>D. Gabay</u> , I. Liebes, G. Rosenthal)	Oral Presentation and session chair
20 November 2014	1 <sup>st</sup> conference of the environment and the sociological society in Israel	Tel Aviv University	Analysis of the Israeli Public's Attitudes Regarding Consumption and Energy Saving (with <u>#T. Zohar</u> , Y. Parag)	Oral Presentation
24 February 2015	Israel-Germany Twinning project	Peres Center, Tel Aviv	GHG Reduction Analysis and Verification (with <u>M. Lev-On</u> , P. Lev-On)	Oral Presentation
10 March 2015	The annual conference of fish growers in Israel	Nir Etzion	Sustainable Development of Marine Aquaculture in Israel's Mediterranean Sea (with <u>N. Moses</u> )	Oral Presentation See item G.59
11 March 2015	Characteristics of the " Prosumer "in	IDC, Herzelia	An Innovative Approach to Promote	Oral Presentation See item C. I 30

	the Future Energy Markets”		Implementation of Renewable Energy in a Smart Grid. (with <a href="#">#Z. Baum</a> , R. Palatnik, D. Elmakis)	
24–26 March 2015	Austria- Israel Workshop on Climate Change Adaptation Indicators	Jerusalem	Knowledge Gaps in Climate Change Adaptation Research	Oral Presentation
26 August 2015	Cleantech Summit, 2015	Airport City	Sustainable waste management in Israel	Oral Presentation
12–14 October 2015	43 <sup>rd</sup> Annual conference of the ISEES	Jerusalem	1) Internalizing External Costs into the Cost of Energy – Analysis of Seven Planned Wind Farms in Israel (with <a href="#">#O. Raviy</a> , R. Palatnik)	Oral Presentation See item C.II.1
			2) Life Cycle Assessment of Waste Derived Oil Substitutes. (With <a href="#">I. Liebes</a> , Kivun Ltd.)	Oral Presentation See item G.56
24 November 2015	3 <sup>rd</sup> Annual conference on management and economics Western Galilee College	Acre	Waste as a Resource	Oral Presentation
15 December 2015	Deep Med. Laboratory Retreat	University of Haifa	Sustainable Governance of Offshore Aquaculture in Israel (with <a href="#">#L. Kroeger</a> , D. Tchernov)	Poster
24 December 2015	Porter School of Environmental Studies. Tel Aviv University	Tel Aviv	Who's Afraid of the Deposit Law?	Oral Presentation
25 February 2016	How to feed 9 billion?	IDC, Herzliya	The Shameful Third: How to Measure and How Change Consumer Behavior? (with <a href="#">#E. Elimelech</a> )	Oral Presentation & Session Manager
18 April 2016	16 <sup>th</sup> Annual Conference of Environmental Education: What's the Point? Food,	Kibbutzim Seminar, Tel Aviv	Not by Bread Alone: The Reasons for Food Waste in Households (With <a href="#">#E. Elimelech</a> )	Oral Presentation See item C.I 28

	Sustainability and Education			
20–21 June 2016	Sustainable Food Systems. Manna Center Program for Food Safety & Security	Tel Aviv University	Food Waste: Barriers and Regulation What is Missing in Order to Create Effective Regulation?	Chair of Panel
21–23 June 2016	The 44 <sup>th</sup> Annual conference of Science and Environment of the Israeli Society for Ecology and Environmental Science	Tel Aviv University	The Role of Science in Decision Making	Panelist
			5 Years of the Voluntary GHG Reporting Scheme in Israel (With <u>M. Lev-On</u> , P. Lev-On)	Oral presentation See item G.67
27 October 2016	Academia– Industry link to promote green building	Tel Aviv	The role of academia in green building education	Oral presentation
20 December 2016	Environment and Local Authorities	University of Haifa	Waste management in local authorities	Oral presentation and panelist
24 May 2017	The First Israeli Academic Smart Energy Conference	Tel Aviv University	A Novel Dynamic-Active Demand Response Method for application of a Smart Grid in Households (With <u>#Z. Baum</u> , R.R. Palatnik)	Oral presentation
7 June 2017	The 33 <sup>rd</sup> conference of the Israel Economic Association	Open University Raanana	Designing an agriculture vegetative waste management system under risk conditions. (With <u>D. Broitman</u> , I. Kan, O. Raviv)	Oral presentation
			RIA of the waste sector of Israel (with <u>#S. Daskal</u> , M. Shechter)	Oral presentation
10–11 July 2017	The 45 <sup>th</sup> Annual conference of Science and Environment of the Israeli Society for Ecology and Environmental Science	IDC, Herzelia	1) Wasted food- Evidence from the waste bin (With <u>#E. Elimelech</u> , E. Ert)	Oral presentation
			2) The economic value of desalination (With <u>Z. Baum</u> , R. Palatnik)	Oral presentation
			3) RIA of the waste sector of Israel (With <u>#S. Daskal</u> , M. Shechter)	Oral presentation

			4) Evaluating Market Benefits of Transportation Tunnels—The Carmel Tunnels as a Case Study (With <u>L. Shmueli</u> , S. Freund Koren, M. Zarbiv Zion)	Oral presentation See item C.I 24
			5) Agricultural vegetative residuals as a valuable resource (With <u>O. Raviv</u> , D. Broitman, I. Kan)	Oral presentation
			6) Does it worth to be green? A cost-benefit analysis of green schools in Israel (with <u>R. Palatnik</u> , A. Davidovitch, T. Trop)	Oral presentation
			7) Methane leaks from oil and gas infrastructure and best estimation techniques. (with M. Lev-On, P. Lev-On, M. Zarbiv Zion)	Oral presentation
*6 March 2018	The Israel - Sderot Conference on Society	Sapir Academic College	(Non) adaptation of local authorities to climate change	Oral presentation and panelist
*25 March 2018	Bio Economy	The Max Stern Jezreel Valley College	Energy from Agricultural Waste	Oral presentation
*19–20 June 2019	The 47 <sup>th</sup> Annual conference of Science and Environment of the Israeli Society for Ecology and Environmental Science	Tel Aviv University- Tel Aviv	It costs us more- Cost/ Benefit Analysis of Waste Management # <u>S. Daskal</u> , O. Ayalon	Oral presentation
*19 December 2019	Interactions Complex: Health and Environment	Tel Aviv	The willingness of the Israeli consumer to pay extra price for fruits and vegetables that are significantly reduced in pesticides. # <u>O. Maoz</u> , O. Ayalon, T. Eshet	Poster presentation
*12–13 October 2020	The 48 <sup>th</sup> Annual conference of Science and Environment of	Virtual	1. Economic value to outreach recycling activities. # <u>R. Waldman</u> , O. Ayalon, T. Eshet.	<b>Co-chair of the conference and</b> Oral presentations (1-2)

	the Israeli Society for Ecology and Environmental Science		<p>2. Building personal resilience through contact with nature in the days of dealing with the Covid-19. <u>O. Ayalon</u>, K. Kaplan-Mintz</p> <p>3. Willingness of Israeli Public to pay for fruits and vegetables with reduced pesticide #<u>O. Maoz</u>, O. Ayalon, T. Eshet</p> <p>4. Impact of creative project-based learning using media tools - photography and graphic design, on the environmental literacy characteristics of high school and college students #<u>O. Schrire</u>, O. Ayalon, T. Eshet</p> <p>5. The effect of expiry dates terminology on consumer's behavior to reduce food waste. #<u>A. Litman</u>, O. Ayalon, K. Or Chen</p>	<p>Poster presentations (3-5)</p> <p>5- See item C.II.2</p>
*6-7 July 2022	50 <sup>th</sup> Annual conference of the ISEES	Expo Tel-Aviv	<p>1. The President's climate initiative. The answer is in the big mass. Management of organic waste from institutional organizations. <u>O. Ayalon</u></p> <p>2. Developing an optimal electrical system for an energy island such as Israel. #<u>Moshe Tsur</u>, Yaniv Reingewertz, Ofira Ayalon.</p> <p>3. Economic analysis of the feasibility of advocacy for waste separation in households. #<u>Riva Waldman</u>, Ofira Ayalon, Tzipi Eshet</p>	1-4 Oral presentations

			<p>4. Why is it so filthy here? Characterization of the causes of waste dumping at nature sites and open parks in Israel. <u>#Naama Lev</u>, Ofira Ayalon, Maya Negev</p> <p>5. Damage to agricultural areas in Israel by off-road vehicles: can better understanding of the phenomenon improve management efforts? <u>#Aya Shalmon</u>, Ofira Ayalon, Moshe Gish</p> <p>6. The carbon footprint of street-cat feeding in Israel. <u>#Adava Shaider</u>, <u>#Alon Feldman</u>, Ofira Ayalon, Moshe Gish</p>	5-6 Poster presentations
*22 November, 2022	Nature and the Environment in Old Age: Challenges and Opportunities in the Era of Sustainability	University of Haifa	“The Green Pill”- the effect of nature on elderly people- in regular times and during Covid-19 pandemic. <u>Tzipi Eshet</u> , Ofira Ayalon, Keren Kaplan Mintz	Oral Presentation
* 22 February, 2023	The 6 <sup>th</sup> conference honoring Dani Shterenberg, Hiriya	Hiriya recycling park, Tel Aviv	A retrospect on waste management in Israel 2007-2022	<b>Keynote Speaker</b>
* 13 March, 2023	Bio-waste Forum 2023	The Galilee Society - Shefa Amr	The vision of organic waste management	Oral Presentation
* 12-13 July, 2023	50 <sup>th</sup> Annual conference of the ISEES	Expo Tel-Aviv	<p>1. Analyzing the economic consequences arising from climate warming in Tel Aviv-Yafo. <u>O. Ayalon et al.</u></p> <p>2. The Effect of Financial Information Presentation on the Intention to Adopt Residential Photovoltaic Systems. <u>D. Boaz</u>, R. Palatnik, O. Ayalon</p>	<p>1-3 Oral presentations</p> <p>4- Panel member</p> <p>And chair of session</p>

			3. Prioritizing Location Alternatives for Semi-Public Charging Stations in Order to Expand the Public Charging Framework for Electric Vehicles. <u>E. Levin</u> , D. Mahalel, O. Ayalon	
			4. Panel: Opening Doors to Research – A Lookout on the Environment	

### **c.1 Invited Scholarly Lectures (other than in conferences)**

#### **c.1 Abroad**

<b>Date</b>	<b>Name of Forum</b>	<b>Place of Lecture</b>	<b>Subject of Lecture</b>
12–14, September 2016	<b>Invited Course</b>	School of Business Administration ECNU, Shanghai, China	Corporates Environmental Management Systems

#### **c.2 In Israel**

<b>Date</b>	<b>Name of Forum</b>	<b>Place of Lecture</b>	<b>Subject of Lecture</b>
17 June 2013	The Israel Business Conference 2013	Tel Aviv, Israel	Round Table Discussion- The role of academia in Environmental Studies and Green Jobs Promotion
19–20 November 2013	The 11 <sup>th</sup> annual Energy & Business summit	Tel Aviv, Israel	On the Environmental Benefits of Converting Coal Fired Power Plants to Gas
18 November 2014	The 20 <sup>th</sup> National Quality Conference- Israel Society for Quality	Tel Aviv, Israel	The Impact of Climate Change on Organizations and Their Supply Chain
26–28 October 2015	The 14 <sup>th</sup> World Wind Energy Conference	Jerusalem, Israel	Keynote- Who Kills Wind Turbines?
5 June 2016	Talkhouse – Climate Change and its Effects	Tel Aviv, Israel	Means to Reduce GHG and Regulation for Adaptation to Climate Change
*29 September 2022	Zavit in Education	On-line	The juice box and the carrier plastic bag- is this the right waste policy?



#### d. Colloquium or Seminar Talks

<b>Date</b>	<b>Name of Forum</b>	<b>Place of Lecture</b>	<b>Subject of Lecture</b>
14 December 2014	Colloquium on Alternative Energy	Weizmann Institute of Science	GHG Emission Mitigation Plan for the State of Israel: Strategies, Incentives and Reporting
3 June 2015	University of Haifa, 43 <sup>rd</sup> Board of Governors Session on Israel and North America	University of Haifa	Challenges of Climate Change for Israel and the US
31 January 2017	Volcani Institute professional seminars	Neve Ya'ar research station, Israel	Agro-technologies in light of climate change
27 September 2017	Special Seminar to students and faculty members	School of Public Economics & Administration Shanghai University of Finance & Economics, China	Don't waste a bite - On the link between hunger and waste management. Avoiding food waste- a means to achieve sustainability goals

#### e. Organization of Conferences or Sessions (past 10 years)

<b>Date</b>	<b>Name of Conference</b>	<b>Place of Conference</b>	<b>Role</b>
16–18 October 2012	40 <sup>st</sup> Annual Conference ISEES	Tel Aviv	<b>Scientific and Organizing Committee</b>
			<b>Chair of Climate Change session</b>
			<b>Keynote Speaker</b> Adaptation to Climate Change: The Case of Israel (With M. Shechter, R. Palatnik, #A. Davidovitch)_
1–3 March 2013	Modeling EU Agriculture with Climate Change Food Security- MACSUR Workshop	University of Haifa	<b>Scientific and Organizing Committee</b>
21 May 2013	Hit the Gas! The Contribution of Natural Gas to Economy, Society and Environment	University of Haifa	<b>Scientific and Organizing Committee</b>

16–19 July 2013	26 <sup>th</sup> International Conference - ECOS, 2013. On Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems	Guilin, China	<b>Organizing Committee &amp; Member of Scientific Advisory Board</b>
22–27 September 2013	The 8 <sup>th</sup> Conference on Sustainable Development of Energy, Water and Environment Systems	Dubrovnik, Croatia	<b>Member of Scientific Advisory Board</b>
7–9 October 2013	41 <sup>st</sup> Annual Conference ISEES	Rehovot	<b>Scientific and Organizing Committee</b>
March 30–April 2 2014	The 29 <sup>th</sup> International Conference on Solid Waste Technology and Management	Philadelphia, PA USA	<b>Member of Scientific Advisory Board</b>
29 June–3 July 2014	1 <sup>st</sup> South- East European Conference on Sustainable Development of Energy, Water and Environment Systems – SEE SDEWES	Ohrid, Republic of Macedonia	<b>Member of Scientific Advisory Board</b>
11 November 2014	Health and Environment. 1 <sup>st</sup> conference in memory of Dr. J. Krikon	Haifa	<b>Scientific and Organizing Committee</b>
9 February 2015	NRERC Annual Conference	University of Haifa	<b>Scientific and Organizing Committee</b>
24 February 2015	Securing Food Using Non-Conventional Water Sources	University of Haifa	<b>Scientific and Organizing Committee</b>
21 June 2015	Natural Gas and Israeli Society	University of Haifa	<b>Scientific and Organizing Committee</b>

29 June–3 July 2015	28 <sup>th</sup> ECOS International Conference	Pau, France	<b>Member of Scientific Committee</b>	
7 September 2015	Adaptation to Climate Change with the Ministry of Environmental Protection	Bar Ilan University	<b>Scientific and Organizing Committee, Chair of Ministerial Session Keynote Speaker</b>	
19–23 June 2016	29 <sup>th</sup> ECOS International Conference	Portorož, Slovenia	<b>Member of Scientific Committee</b>	
20–21 June 2016	The Batsheva de Rothschild Workshop on Climate Changes and their Effect on Agriculture, Economics and the Environment	Ein Zurim, Israel	Agrotech and Climate Change - New Opportunities	<b>Organizing Committee</b> and oral presentation See item G65
19–22 March 2017	The 32 <sup>nd</sup> International Conference on Solid Waste Technology and Management	Philadelphia, PA, USA	Don't Waste a Bite - On the Link between Hunger and Waste Management	<b>Keynote Speaker &amp; Member of Scientific Advisory Board</b>
2–6 July 2017	30 <sup>th</sup> ECOS International Conference	San Diego, California	<b>Member of Scientific Committee</b>	
*11–14 March 2018	The 33 <sup>rd</sup> International Conference on Solid Waste Technology and Management	Washington, DC, USA	<b>Member of Scientific Advisory Board</b>	
*17–21 June 2018	31 <sup>st</sup> ECOS International Conference	Guimarães, Portugal	<b>Member of Scientific Committee</b>	
*26 February 2020	Role of Academia in Combating Climate Change	Technion	<b>Chair of conference, Scientific and Organizing Committee</b>	
*30 June–4 July 2020; cancelled due to Covid-19	33 <sup>rd</sup> ECOS International Conference	Osaka, Japan	<b>Member of Scientific Committee</b>	
*12–13 October 2020	48 <sup>th</sup> Annual Conference ISEES	Virtual	<b>Co-chair and Scientific and Organizing Committee</b>	

*12–13 October 2021	16 <sup>th</sup> Corporate Responsibility Research Conference (CRRC)	Virtual, organized by the Open University of Israel in association with Kedge Business School (France) and the Sustainability Research Institute at the Univ. of Leeds (UK)	<b>Member of Scientific Committee and chair of session</b>
*27 April 2022	Models for Environmental and Energy Policy Analysis	IIASA and the department of environmental and natural resources management & the Natural Resources and Environmental Research center University of Haifa	<b>Member of Scientific Committee and chair of session</b>
* 23-25 May, 2023	Global Space Conference on climate change 2023	Oslo, Norway	<b>Member of Scientific Committee</b>
* 25-30 June, 2023	36 <sup>th</sup> International Conference - ECOS, 2013. On Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems	Las Palmas, Gran Canaria, Spain	<b>Member of Scientific Committee and chair of session</b>

## **8. Research Grants**

### **a. Grants Awarded**

V= "VATAT" (The Council for Higher Education)

C= Competitive Grant

<b>Years</b>	<b>Role in Research</b>	<b>Other Researchers</b>	<b>Topic</b>	<b>Funded by</b>	<b>Budget</b>
1998–2001	Co-PI	Avnimelech Y. (Co-PI)	Source Separation Demonstration Project in Kiriat Tivon	LIFE 3 <sup>rd</sup> Countries C	NIS400,000
2000–2003	CI	Katz A., Bentur A., Shechter M., Avnimelech Y. (PIs)	An Integrated Approach Towards the Reduction of Waste Production	The Ministry of Science and Technology V	NIS150,000
2001–2003	Co-PI	Galil N. (Co-PI), Hamer M. (Research Assist.)	On the Environmental and Economic Aspects of the Use of Waste Disposers	Ministry of Environment C	NIS100,000
2000–2005	CI	Avnimelech Y. (PI) Zaban H., Amdor L., (Research Assist.)	Agriculture and the Environment	SNI and Sapir Foundation-Mifaal Hapais C	NIS125,000
2005	Co-PI	Kan I. (Co-PI), Federman R. (Research Assist.)	Economic Analysis of Organic Wastes Disposal through Compostation: The Case of Israel	Ministry of Environment C	NIS 65,000
2006–2007	Co- PI	Avnimelech Y., Novik A. (Co-PIs)	Separation of Waste in Haifa- a Feasibility Study	Ministry of Environment and Haifa Municipality C	NIS 80,000
2008–2009	Co-PI	Kan I. (Co-PI) Broitman D. Segev T. (Research Assist.)	Economic Modeling and LCA of MSW Management in Israel	Ministry of Environmental Protection C	NIS135,000
2009	PI	Goldrath T., Nachmany M., Lev-On Group Ltd. (CIs)	Development of a GHG Voluntary Registry Mechanism in Israel	Ministry of Environmental Protection C	NIS300,000

2009	PI	Goldrath T., Nachmany M., Kivun Ltd., (Research Assist.) Shechter M. (Co-PI)	Packaging Law in Israel- Policy Barriers and Measures	Ministry of Environmental Protection C	NIS100,000
2010–2013	PI	1. Ernst & Young (coordinator) 2. Better Place (PI) 3. Renault (PI) 4. RWTH Aachen University (PI) 5. KEMA Nederland BV (PI) 6. Fraunhofer IPA (PI) 7. Danish Technological Institute (PI) 8. TÜV Rheinland (PI) 9. Technische Universität Munchen (PI) And Flicstein B. (CI) Shtibelman A. (Research Assist.)	Generic Battery Prototype Integrated with Electric Vehicle Infrastructure and Utilities Interfaces	FP7- STREP V	EUR70,000
2011–2012; 2015	PI, Director of ICCIC	Co-PIs: Schechter M., Kutiel H., Kliot N., Green M., Sterenberg M., Capeluto G.	Establishment of Israeli Climate Change Information Center (ICCIC)	Ministry of Environmental Protection C	NIS2M; additional NIS200,000 allocated in 2015
2011- June 2013	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	NIS183,000
2011–2012	Co-PI	Schechter M., Palatnik R. (Co-PIs) Brody S. (Research Assist.)	Household Environmental Behaviour and Attitudes: Waste Generation, Recycling and Prevention	OECD C	EUR36,000
2012	PI	Eshet T. (Researcher) Shtibelman A. (Research Assist.)	Cost- Benefit and Life Cycle Assessment of Plastic Waste in Israel	Ministry of Environmental Protection C	NIS50,000

2012– 2015	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 V	NIS990,000
2014– 2016	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	NIS690,000
2015– 2017	PI	Palatnik R. Trop T. (Co-PIs) Davidovitch A. (Research Assistant)	Financial and Economic Viability of Green Building in Educational Buildings, For the Consumer and the Israeli Economy	Ministry of Environmental Protection C	NIS198,260
2016– 2018	Co-PI	Porat R. (PI) E. Elimelech and T. Eshet (research assistants)	Ministry of Agriculture Excellence Centre- Minimizing Food Loss along the Supply Chain	Ministry of Agriculture C	NIS480,000
2017– 2018	PI	Lev-On M. (CI)	Assessment of Natural Gas Loss from the Well-to-Tank Value Chain of Natural Gas Based Transportation Fuels: CNG and Methanol	Ministry of Environmental Protection C	NIS158,000
2017	PI	Lev-On M., (CI) Madar D. (CI)	Comparative study of the feasibility of carbon dioxide capture in the production of natural gas-based transportation fuels	Ministry of Environmental Protection C	NIS100,000

2017	PI	"EV- Consult" (consulting) Idan Liebes (CI)	Electric Vehicles Charging Infrastructure in Israel - Implementation Policy and Technical Guidelines	Ministry of National Infrastructure, Energy and Water C	NIS350,000
2017– 2018	Co-PI	Tali Tal, Keren Kaplan Mintz (Co-PIs)	Evaluation of the Ministry of Energy education program: "Energia BeRosh Acher" (Energy in a Different Spirit)	Ministry of Energy C	NIS220,000
2017– 2018	Co-PI	D. Madar, A. Wolfson (Co-PIs)	Assessment of R&D Activities, Infrastructure and Manpower in the Field of Environmental Protection in Israeli Industry and Academy	Ministry of Science V	NIS392,000
*2018	PI	D. Mahalel, M. Lev On (CI)	Lessons Learned from Select Countries Policy Measures Including Market Incentives and Regulatory Tools to Reduce Air Pollution from the Transportation Sector	Ministry of Environmental Protection C	NIS100,000
*2019– 2021	*Co-PI	Y. Gerchman, H. Mamman (Co-PIs) O. Raviv (research assistant)	Ozonation as pretreatment for ethanol as transportation fuel replacement – optimization and life cycle analysis	Ministry of Environmental Protection C	NIS519,225



*2019	PI	M. Lev On (CI)	Review of Air Quality Impact of Production, Processing, Storage, Transmission and Distribution of Natural Gas Based Transportation Fuels	Ministry of Environmental Protection C	NIS99,000
*2019–2020	Co-PI	K. Kaplan- Mintz, T. Eshet (Co-PIs)	Ancillary Benefit Assessment of JNF Forests: Physical and Psychological Well-being, Cultural Services and Economic Aspects	JNF C	NIS337,000
*2020–2022	Co-PI	D. Broitman, M. Portman - Technion (Co-PIs)	Identification of optimal solutions for integrated runoff management in watersheds with diverse land uses and multiple stakeholders	Ministry of Agriculture C	NIS345,000
*2020–2022	Co-PI	K. Kaplan-Mintz (Co-PI)	Identifying factors that influence farmers' willingness to implement environmental practices on the Golan Heights	Ministry of Science V	NIS170,000
*2020	Co-PI	K. Kaplan-Mintz Tzipi Eshet (Co-PI)	Building a personal resilience through contact with nature in the times of Corona	Ministry of Science V	NIS45,000
*2021	Co-PI	M. Negev (Co-PI)	Characterization of the causes of waste disposal in JNF forests	JNF C	NIS120,000
*2020–2023	Co-PI	T. Katz-Gerro K. Kaplan-Mintz (Co-PIs)	The effect of culture and religion on the dynamics of food waste in households	ISF V	NIS585,000

*2022-2023	Co-PI	Alex Golberg Ruslana Palatnik Michael Gozin (Co-PIs)	Meir hospital waste-to-energy	NOGA - Israel Independent System Operator C	NIS750,000
*2022	Co-PI	T. Katz-Gerro K. Kaplan-Mintz (Co-PIs)	The effect of culture and religion on food waste behavior	ISF workshop V	NIS69,980
*2023-2024	Co-PI	K. Kaplan-Mintz (Co-PIs)	The contribution of community forests to wellbeing	JNF C	NIS295,460
*2023-2026	Co-PI	M. Negev	The effect of interventions undertaken by JNF to minimize waste discarding by visitors and the level of cleanliness at JNF sites	JNF C	NIS287,000

**b. Grants Awarded**

O= Other funds

I = Internal funds

<b>Years</b>	<b>Role in Research</b>	<b>Other Researchers</b>	<b>Topic</b>	<b>Funded by</b>	<b>Budget</b>
1999–2009	Co-PI	SNI, Avnimelech Y. (Co-PI)	National Priorities in Environmental Policy	Samuel Neaman Institute (SNI) I	NIS150,000
2003–2004	PI	Goren Y., Pareto Ltd (Co-PI)	The Global Environmental Market and Business Opportunities for Israel	Ministry of Environment and SNI O	NIS120,000
2004	Co-PI	Hirsch M., Grossman G., Schitzer A., (Co-PIs)	Air Conditioner Survey in Israel- Conservation Potential and Policy Measures	Ministry of Environment and SNI O	NIS90,000
2004–2005	PI	Assif LTD. Garb Y., Pareto Ltd. (Research Assist.)	Policy Towards Reducing Transportation-Related Air-Pollution in Dan Region	The Dan Association of Towns for Sewage and Environment O	NIS190,000
2005	PI	Shechter M., Kivun Ltd (Co-PIs)	Introducing a Packaging Law in Israel – Potential and Possibilities for Application	ELA – The Recycling Corporation O	NIS135,000

2006	PI	Elimelech E. (Research Assistant)	International Collaboration on Energy- Israel New Jersey Solar Energy Project	New Jersey Meadowland Commission (NJMC) and Rutgers University O	USD4,000
2006– 2007	PI	Assif Strategies Ltd. (Research Assistant)	Between Technology Development and Public Transparency: Creating Tools for Public Discussion on Business Ventures and Technological Alternatives for Treating Solid Waste	Ministry of Environment and Neshar Cement Industries O	NIS105,000
2009	PI	Goldrath T., Nachmany M. Palatnik R., Kivun Ltd., Lev-On Group Ltd. (CIs)	Economic Analysis of GHG Reduction Alternatives in Israel and Policy Measures Required	Ministry of Environmental Protection & SNI O	NIS600,000
2013– 2015	Co-PI	Shechter M., Palatnik R., Shamir- Zemach S. (Co-PIs)	The Mediterranean Sea and the Israeli Society	Philanthropic Fund O	NIS1.42M
2014	PI	Eshet T. (CI) Licht Y. (Research Assistant)	Agricultural Produce Surplus and Its Most Effective Utilization	Leket Israel O	NIS70,000
2014– 2015	Co-PI	Eshet T., (CI) Trop T., (CI) Tchernov D., (CI) Tandler A., (CI) Moses N. (CI)	Sustainable Development of Marine Aquaculture in Israel's Mediterranean Sea	Philanthropic Fund O	NIS305,000
2016– 2017	Co-PI	Shechter M., Palatnik R., Shamir- Zemach S. (Co-PIs)	The Mediterranean Sea and the Israeli Society (Phase 2)	Philanthropic fund O	NIS1.14M

*2018	Co- PI	Mashor Housh (Co-PI)	Cyber-Security of Water Distribution Systems: Attacks' Detection Algorithms and Policy Implications	The Center for Cyber, Law and Policy O	NIS40,000
*2019	Co-PI	T. Trop, T. Eshet, (Co- PIs) N. Shapira (Research assistant)	The River Restoration Administration Activity Assessment	Philanthropic fund O	NIS125,000
*2022	Co-PI	Dr. Ruslana Palatnik, (Co-PI) David Boaz (Research assistant)	Revenue stream presentation of PV systems to promote their adoption	U. of Haifa, Rector 2021 SDG award I	NIS25,000

## **9. Scholarships, Awards and Prizes**

<b>Years</b>	<b>Name of Award</b>	<b>Other Awardees</b>	<b>Purpose of Award or Achievement</b>	<b>Source</b>
2010	Excellence in Teaching		Special award of the Academic of Israel's Planning and Budgeting	Council for Higher Education
2017	In recognition of my contribution to the field of solid waste technology and management	-	The Iraj Zandi Award	The International Conference on solid waste Technology and Management, Philadelphia, USA
*2018	Michael Landau Prize	<i>Other awardees not in the field of sustainability</i>	Excellence in Sciences and Research in the field of sustainability	The Mifal Hapais

## **10. Teaching**

### **a. Courses Taught (last 10 years)**

<b>Year</b>	<b>Name of Course</b>	<b>Type of Course</b>	<b>Degree</b>	<b>Cumulative Number of Students</b>
2010– present	Waste Management	Lecture – elective	MA	200
2010–2021	Energy and Environment	Lecture – mandatory	MA	350

	(Taught with Prof. (Amer.) Noam Greenbaum			
2014–2015	Adaptation of Energy and Environment to special IEC group	Lecture – mandatory	MA	50
2021– present	Earth wind and fire-Sustainability challenges of the 21 <sup>st</sup> century	Lecture – mandatory	MA	60
2010– present	Environmental Management Systems	Seminar – mandatory to one program	MA	200
2012–present	Environmental Management Systems	Seminar – mandatory, English	Global Green MBA	120
2015–2018	CSR- corporate social responsibility	Seminar – mandatory for MBA students	MBA	100
2010–present	Renewable Energy	Seminar – mandatory to one program	MA	250
2014–2015	Adaptation of Renewable Energy to special IEC group	Lecture – mandatory		50
2010–present	On site energy/ waste campus	Seminar – elective	MA	100
2010–present	The environmental management in Israel	Seminar – elective	MA	150
*2019	The Mediterranean Sea as a National Resources	Lecture – elective	BA-Naval officers' program	35
2010–present	Applied projects	Annual Seminar-mandatory	MA	320
2010–present	Departmental seminar	Annual Seminar-mandatory	MA	350
*2022	Earth, Wind, and Fire-Sustainability challenges of the 21 <sup>st</sup> century	Lecture- mandatory	MA	50
*2023	The environmental crisis	The Ofakim honors program	BA	10

**b. Supervision of Graduate Students (for Full Professor – only past 10 years)**

Student's Name	Co- supervisors	Title of Thesis / Dissertation	Date of Completion / in Progress	Forum of Publication
<b>M.A. Students</b>				
During 2002-2011, I supervised 12 M.A students				
Shay Hacham	Dr. D. Goldman & Dr. D. Baum	The political views of students exposed to environmental studies	2012	Oral presentation at Environmental Education at Academic Institutions in Israel, Technion, 2012 Poster presentation at 40 <sup>th</sup> Annual Conference ISEES, 2012 Article published: See item C.I.22
Hadas Yelenik	Dr. M. Yuval	Sustainability aspects of the home composting project in Beit-Hakerem, Jerusalem. From a local to a national project	2013	
Uri Ben Haim	Prof. Y. Hayuth	Perceptions of Haifa citizens concerning the Haifa Port	2013	
Shiri Hefer	Dr. T. Eshet	Analysis of alternatives to reduce plastics bags use	2013	Oral presentation at 40 <sup>th</sup> Annual Conference ISEES, 2012
Amos Shtibelman	Dr. T. Eshet	Cost-benefit and life cycle assessment of plastic waste in Israel	2013	Oral presentation at 40 <sup>th</sup> Annual Conference ISEES, 2012
Iddo Grinberg	Dr. D. Lavee	Personal preferences in investing in green companies	2013	
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	2013	Oral presentation at 41 <sup>st</sup> Annual Conference ISEES, 2013 <b><i>Lecture selected as the best presentation of the conference</i></b> Oral presentation at 11 <sup>th</sup> ESERA conference, 2015 Oral presentation Administrative Symposium, Texas, 2017

				Article published: C.I 27
Tali Zohar	Dr. Y. Parag	Israeli public opinion analysis on consumption and saving energy	2014	
Yitshak Hashko	Dr. B. Flicstein	The effects of the Carmel Tunnels on air quality in the city of Haifa	2015	Oral presentation at 42 <sup>nd</sup> Annual Conference ISEES, 2015 <b><i>Lecture selected as the best presentation of the conference</i></b>
Orna Raviv	Dr. R. Palatnik	Economic-environmental assessment of wind turbines in Israel	2015	Oral presentation at SDEWES 2015 Oral presentation at 43 <sup>rd</sup> Annual Conference ISEES, 2015 Oral presentation at 14 <sup>th</sup> World Wind Energy Conference, 2015. Article published: See item C.II 1
Ohad Levi	Dr. K. Or-Chen	Environmental attitudes and their impact on the willingness to accept electricity smart grid	2015	
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)	2016	Oral presentation at Health & Environment. The 1 <sup>st</sup> conference in memory of Dr. J. Krikon
Yaarit Licht	Dr. T. Eshet	Agricultural produce surplus and its most effective utilization	2016	Oral presentation at 42 <sup>nd</sup> Annual Conference ISEES, 2014 Oral presentation at 2 <sup>nd</sup> Intl. Conference on Global Food Security, 2015
Idan Liebes	Dr. R. Palatnik	Economic implications of natural gas exports: A case study analysis for Israel	2016	Oral presentation NRERC Annual Conference, 2015
Moshe Tsur	Prof. M. Shechter	Cost benefit analysis of subsidies to renewable energy projects	2016	
*Oded Agmon	Dr. R. Palatnik	Analyzing the elasticity of electricity demand in	2018	



		the Israeli industrial sectors		
*Ori Lutzki	Dr M. Housh	Vulnerability of energy systems to cyber attacks	2019	
*Omer Chotkowsky	Dr Orr Karrasin	Evaluation of UN climate change agreements	2019	
*Oded Maoz	Dr Tzipi Eshet	Willingness of Israeli Public to pay for fruits and vegetables with reduced pesticides.	2020	Poster presentation at EHF Annual Conference 2019 Poster presentation 48 <sup>th</sup> Annual Conference ISEES, 2020
*Almog Litman	Dr Keren Or Chen	The effect of expiry dates terminology on consumer's behavior to reduce food waste	2020	Poster presentation 48 <sup>th</sup> Annual Conference ISEES, 2020  Article published: C.II 7
*Odelia Schrire	Dr. Tzipi Eshet	Impact of creative project-based learning using media tools - photography and graphic design, on the environmental literacy characteristics of high school and college students	2020	Poster presentation 48 <sup>th</sup> Annual Conference ISEES, 2020
*David Boaz	Dr. Ruslana R., Palatnik	Presenting electricity generation cashflow to promote residential solar systems	2022	Oral presentation 51 <sup>st</sup> 50 <sup>th</sup> annual Conference ISEES (2023)
*Aya Shalmon	Dr. Moshe Gish	Spatial and environmental aspects of damage to agricultural areas in Israel by off-road vehicles	2022	Poster presentation at 50 <sup>th</sup> Annual Conference ISEES, 2022  Article published: C.I 49
*Micky Carmel	Dr. Moshe Tshuva	Roadmap for industry greenhouse gas emissions reduction until 2030		
<b>Ph.D. Students</b>				
Tal Goldrath	Prof. M. Shechter	Sustainability indices of electricity efficient measures In Israel's electricity market	2016	Poster presentation in Guilin, China 2013 See Item E9 (ECOS2013 makes no scientific quality distinction between oral and poster presentation)

				Article published: See item C.I 23
Zvi Baum	Dr. D. Elmakis Dr. R. Palatnik	A new approach for dynamic electricity demand side management for residential sector	2016	Oral presentation at 42 <sup>nd</sup> Annual Conference ISEES, 2014 Oral presentation at Characteristics of the “Prosumer” in Future Energy Markets, 2015 Article published: C.I 30
Ayelet Davidovitch	Prof. M. Shechter Dr. R. Palatnik	The implications of climate change on the insurance industry and the Israeli Economy	2017	Oral presentation at 40 <sup>th</sup> Annual Conference ISEES, 2012 Oral presentation and session chair- 5 <sup>th</sup> World Congress of Environmental and Resource Economists Istanbul, Turkey, 2014 See item E.11 Oral presentation at 42 <sup>nd</sup> Annual Conference ISEES, 2014 Oral presentation at Conference on Environment and Natural Resources Management in Developing and Transition Economies, Clermont-Ferrand, France, 2014 See item G.53 Oral presentation 42 <sup>nd</sup> Annual Conference ISEES, 2014 Oral Presentation AERE Summer Conference, 2016 Oral presentation ISEFI-2017 Article published: See Item C.II 5
*Shira Daskal	Prof. M. Shechter	Regulation of the waste sector in Israel	2018	Oral presentation. 45 <sup>th</sup> Annual Conference ISEES Oral presentation. 33 <sup>rd</sup> Conference Israel Economic Association Oral presentation. 7 <sup>th</sup> Intl. Conference on Solid

				Waste Management, Hyderabad, India. Proceedings see E.15, E.16 Oral presentation 4 <sup>th</sup> SUM Conference, Bergamo, Italy Proceedings see E17, E18 Articles published: C.I.29; C.I.33; C.II.6
*Efrat Elimelech	Dr. E. Ert	Households Food Waste: Quantification, Characterization and Drivers	2020	Oral presentation at IDC Herzliya, 2016 Oral presentation- 16 <sup>th</sup> Annual Conference of Environmental Education, 2016 Oral presentation- 5 <sup>th</sup> Intl. Conference On Sustainable Solid Waste Management, Athens, Greece, 2017 Oral presentation. 45 <sup>th</sup> Annual Conference ISEES, 2017 Articles published: C.I.28; C.I.34; C.I.35
*Hala Abu-Kala	Prof. M. Shechter Dr. R. Palatnik	Integrational Allocation of Perishable Natural Resources	2020	Article published: C.I.41
*Leigh Kroeger	Prof. Dan Tchernov	Sustainable governance of offshore aquaculture in Israel	2020	Oral presentation. Middle East Conference on Central Asian Aquaculture Oral presentation. WAS, 2017 Articles published: C.I.32; C.I.37
*Riva Waldman	Dr. T. Eshet	Model for waste management including assignment of an economic value to outreach activities and its assimilation within the MSW management system – Tel Aviv Metropolitan Area Test Case	2021	Oral presentation, 48 <sup>th</sup> and 50 <sup>th</sup> Annual conference of the ISEES, (2020, 2022 respectively) Articles published: C.II.8

*Tali Zohar	Dr. Y. Parag	Middle out approach for sustainable transition to a low carbon society	2022	Oral presentation 1 <sup>st</sup> Conference Environment & Sociological Society in Israel, 2014 Articles published: C.I.36; C.I.42; C.I.46
*Ehud Levin	Prof. D. Mahalel	Prioritizing location alternatives for semi-public charging stations in order to expand the public charging framework for electric vehicles	2022	Oral presentation 51 <sup>st</sup> 50 <sup>th</sup> annual Conference ISEES (2023)
*Moshe Tsur	Dr. Yaniv Reingewertz	Optimal electricity system for an energy island such as Israel	Level B In progress	Oral presentation 50 <sup>th</sup> Annual Conference ISEES, 2022.
*Naama Lev	Dr. Maya Negev	Littering in parks and nature sites	Level B In progress	Oral presentations 49 <sup>th</sup> and 50 <sup>th</sup> annual Conference ISEES (2021, 2022 respectively)
*Shahar Heller		The effect of climate change on the future military ground maneuvering area	Level B In progress	
*Moria Netzer	Dr. Dafna Gan	The social-environmental basis for the proliferation of forest kindergartens in urban Israel, in the context of adaptation to climate change	Level B In progress	
*Hila Segal-Klein	Prof. Nimrod Luz	Emotions and Food Waste Attitudes among Israeli Households and Policy Implications	Level B In progress	IMISCOE annual conference 2023
*Gabriella Apple	Prof, Noga Collins-Kreiner	Reducing food waste in the hospitality sector	Level A	
Post-Doc Students				
* Bar Zilberman		Waste management	Mimshak Fellow	

## PART B: PUBLICATIONS

### H-index and Citations:

<b>H-index (2022)</b>	H-index: 22	<b>Source:</b> Google Scholar
<b>Citation index:</b>	Citations:1482	<b>Source:</b> Google Scholar
<b>Google Scholar link:</b>	<a href="https://scholar.google.com/citations?user=vkoS6DwAAAAJ&amp;hl=en">https://scholar.google.com/citations?user=vkoS6DwAAAAJ&amp;hl=en</a>	

### A. Ph.D. Dissertation

<b>Title:</b>	Environmental accounting as a means for the development of solid waste management policy in Israel.
<b>Date of submission:</b>	September 2000
<b>Number of pages:</b>	98
<b>Language:</b>	English
<b>Name of supervisor:</b>	Prof. Y. Avnimelech, Technion and Prof. M. Shechter, University of Haifa
<b>University:</b>	Technion
<b>Publications:</b>	C.I.2, C.I.3, C.I.4, D2, D3, D4, D5, D6, D7

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

### Abbreviations:

- IF = Impact Factor (ISI, Year of Publication) when available, or (SJR, Year of Publication)
- V = Vatat List (The Council for Higher Education)
- R = Ranking (ISI, Year of Publication) when available, or (SJR, Year of Publication)
- # = My student
- Q = Quartile according to the JCR (Year of publication)

### B. Scientific Books (Refereed)

#### a. **Authored Books**

- 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)

#### b. **Monographs**

None

#### c. **Edited Books and Special Journal Issues**

- \* 2021. Editor of a Special Issue "Meeting Sustainable Development Goals by Reducing Food Loss". Sustainability, 21
- \* 2022. Guest editor of a special issue on greenhouse gases mitigation. Ecology and Environment (Hebrew)

### **C. 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)

IF 1994= N/A [available: 1997-]

IF 1997= 0.580

R 1997= AGRICULTURE, SOIL SCIENCE 16/31 Q3

SJR 1994= N/A

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. Environmental Science and Policy, 3 (2): 135–144.

IF 2000= N/A [available: 2005-]

SJR 2000= 0.441

R 2000= MANAGEMENT, MONITORING, POLICY AND LAW 39/159 Q2; GEOGRAPHY, PLANNING AND DEVELOPMENT 83/528

3) **Ayalon O.**, Avnimelech Y., Shechter M., 2000. Alternative MSW treatment options to reduce global greenhouse gases emissions—The Israeli example. Waste Management and Research, 18: 538–544

IF 2000= 0.466

R 2000= ENGINEERING, ENVIRONMENTAL 18/36 Q2; ENVIRONMENTAL SCIENCES 93/127 Q3

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.

IF 2001= 0.787

R 2001= ENVIRONMENTAL SCIENCES 65/129 Q3

SJR 2001= 0.750

R 2001= ECOLOGY 59/220 Q2; GLOBAL AND PLANETARY CHANGE 13/35 Q2; POLLUTION 19/79 Q1

5) # Palatnik, R., **Ayalon, O.**, Shechter, M., 2005. Household demand for waste recycling services. Environmental Management, 35(2): 121–129

IF 2005= 0.911

R 2005= ENVIRONMENTAL SCIENCES 90/140 Q3

SJR 2005= 0.650

R 2005= ECOLOGY 75/231 Q2; GLOBAL AND PLANETARY CHANGE 15/38 Q2; POLLUTION 27/94 Q2

6) # Eshet, T., **Ayalon, O.**, Shechter, M., 2005. A critical review of economic valuation studies of externalities from incineration and landfilling. Waste Management and Research, 23 (6): 487–504.

IF 2005= 0.396

R 2005= ENGINEERING, ENVIRONMENTAL 35/37 Q4; ENVIRONMENTAL SCIENCES 131/140 Q4

SJR 2005= 0.501

R 2005= ENVIRONMENTAL ENGINEERING 29/85 Q2; POLLUTION 37/94 Q2

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), 1 (2): 190–210.

IF= N/A

SJR 2005= N/A [available: 2018-2021]

8) **Ayalon, O.**, Becker, N., # Shani, E., 2006. Economic aspects of the rehabilitation of the Hiriya landfill. Waste Management, 26 (11): 1313–1323

**(The authors have contributed equally)**

IF 2006= 1.223

R 2006= ENGINEERING, ENVIRONMENTAL 13/35 Q2; ENVIRONMENTAL SCIENCES 68/144 Q2

9) # Eshet, T., **Ayalon, O.**, Shechter, M., 2006. Valuation of externalities of selected waste management alternatives: A comparative review and analysis. Resources, Conservation and Recycling, 46 (4): 335-364

IF 2006= 1.085

R 2006= ENGINEERING, ENVIRONMENTAL 14/35 Q2; ENVIRONMENTAL SCIENCES 79/144 Q3

10) # Eshet, T., Baron, M. G., Shechter, M., **Ayalon, O.** 2007. Measuring externalities of waste transfer-stations in Israel, using hedonic pricing. Waste Management, 27 (5): 614–625.

IF 2007= 1.338

R 2007= ENGINEERING, ENVIRONMENTAL 13/37 Q2; ENVIRONMENTAL SCIENCES 76/160 Q2

11) **Ayalon O.**, Avnimelech Y., 2007. The role of an academic institute in setting national environmental policy: The case of Israel. Energy, 32: 927–934

IF 2007= 1.172

R 2007= ENERGY & FUELS 22/64 Q2; THERMODYNAMICS 13/43 Q2

12) **Ayalon, O.**, Lavee, D. 2007. Promoting the role of Israel's environmental technologies in the international market. The International Journal of Business Environment (IJBE), 1 (4): 428–441

IF= N/A

SJR 2007= N/A [available: 2018-2021]

13) **Ayalon, O.**, Goldrath, T., Rosenthal, G., Grossman, M. 2009. Reduction of plastic carrier bag use: An analysis of alternatives in Israel. Waste Management, 29 (7): 2025–2032

IF 2009= 2.443

R 2009= ENGINEERING, ENVIRONMENTAL 11/42 Q2; ENVIRONMENTAL SCIENCES 49/181 Q2

14) Kan, I., **Ayalon, O.**, # Federman, R. 2010. On the efficiency of composting organic wastes. Agricultural Economics, 41: 151–163

IF 2010= 1.329

R 2010= AGRICULTURAL ECONOMICS & POLICY 2/14 Q1; ECONOMICS 74/305 Q1

15) # Elimelech, E., **Ayalon, O.**, Flicstein, B. 2011. Hazardous waste management and weight-based indicators—The case of Haifa Metropolis. Journal of Hazardous Materials, 185: 626–633

IF 2011= 4.173

R 2011= ENGINEERING, ENVIRONMENTAL 6/45 Q1; ENVIRONMENTAL SCIENCES 17/205 Q1; ENGINEERING, CIVIL 1/118 Q1

- 16) # Broitman, D., **Ayalon, O.**, Kan, I. 2012. One size fits all? An assessment tool for solid waste management at local and national levels. Waste Management, 32: 1979–1988  
 IF 2012= 2.485  
 R 2012= ENGINEERING, ENVIRONMENTAL 13/42 Q2; ENVIRONMENTAL SCIENCES 67/210 Q2
- 17) Paz, S., **Ayalon, O.**, # Haj, A. 2012. The potential conflict between traditional perceptions and environmental behavior: compost use by Muslim farmers. Environment, Development and Sustainability, 15 (4): 967–978  
 IF 2012= N/A [available: 2017-2021]  
 SJR 2012= 0.398  
 R 2012= ECONOMICS AND ECONOMETRICS 306/631 Q3; MANAGEMENT, MONITORING, POLICY AND LAW 122/302 Q2; GEORAPHY, PLANNING AND DEVELOPMENT 210/688 Q2
- 18) Steinhart, Y., **Ayalon, O.**, # Puterman, H. 2013. The effect of an environmental claim on consumers' perceptions about luxury and utilitarian products. Journal of Cleaner Production, 53: 277–286  
 IF 2013= 3.590  
 R 2013= ENGINEERING, ENVIRONMENTAL 9/46 Q1; ENVIRONMENTAL SCIENCES 29/216 Q1
- 19) **Ayalon, O.**, Flicstein, B., Shtibelman, A. 2013. Benefits of improving air quality – replacing conventional car-based transportation to electric mobility. Journal of Environmental Protection, 4 (10): 1035–1043  
 IF=N/A  
 Google Impact Factor: 1.35
- 20) **Ayalon, O.**, Lev-On, M., Lev-On, P., Goldrath, T. 2014. Greenhouse gas emissions reporting in Israel: Means to manage energy use. Energy Conversion and Management, 85: 612–618  
 IF 2014= 4.380  
 R 2014= ENERGY & FUELS 14/89 Q1; MECHANICS 3/137 Q1; THERMODYNAMICS 3/55; PHYSICS, NUCLEAR 3/21 Q1
- 21) **Ayalon, O.**, Lev-On, M., Lev-On, P. 2014. Greenhouse gas emission mitigation plan for Israel: Strategies, incentives, and reporting. Climate Policy, 15:6, 784–800  
*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*  
 IF 2014= 1.675  
 R 2014= ENVIRONMENTAL STUDIES 35/100 Q2; PUBLIC ADMINISTRATION 9/46 Q1
- 22) Goldman, D., **Ayalon, O.**, Baum, D., #Hacham, S. 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): 671–693  
 IF=N/A  
 SJR 2015= 0.323



R 2015= ENGINEERING (MISCELLANEOUS) 171/658 Q2; ENVIRONMENTAL SCIENCE (MISCELLANEOUS) 147/331 Q3; EDUCATION 539/1307 Q3

23) # Goldrath, T., **Ayalon, O.**, Shechter, M. 2015. A combined sustainability index for electricity efficiency measures. Energy Policy, 86: 574–584  
IF 2015= 3.045  
R 2015= ENERGY & FUELS 29/88 Q2

24) **Ayalon, O.**, 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  
IF=N/A  
Google Impact Factor: 1.35

25) Raviv, O., Broitman, D., **Ayalon, O.**, Kan, I. 2017. A regional optimization model for waste-to-energy generation using agricultural vegetative residuals. Waste Management, 73: 546–555  
IF 2017= 4.723  
R 2017= ENGINEERING, ENVIRONMENTAL 9/50 Q1; ENVIRONMENTAL SCIENCES 25/242 Q1

26) Broitman, D., Raviv, O., **Ayalon, O.**, Kan, I. 2018. Designing an agricultural vegetative waste-management system under uncertain prices of treatment-technology output products. Waste Management, 75: 37–43  
IF 2018= 5.431  
R 2018= ENGINEERING, ENVIRONMENTAL 9/52 Q1; ENVIRONMENTAL SCIENCES 31/251 Q1

27) Goldman, D., **Ayalon, O.**, Baum, D., # Weiss, B. 2018. Influence of ‘green school certification’ on students' environmental literacy and adoption of sustainable practice by schools. Journal of Cleaner Production, 183: 1300–1313  
IF 2018= 6.395  
R 2018= ENGINEERING, ENVIRONMENTAL 8/52 Q1; ENVIRONMENTAL SCIENCES 18/251 Q1; GREEN & SUSTAINABLE SCIENCE & TECHNOLOGY 6/35 Q1

28) # Elimelech, E., **Ayalon, O.**, Ert, E. 2018. What gets measured gets managed: A new method of measuring household food waste. Waste Management. 76: 68–81  
IF 2018= 5.431  
R 2018= ENGINEERING, ENVIRONMENTAL 9/52 Q1; ENVIRONMENTAL SCIENCES 31/251 Q1

29) # Daskal S, **Ayalon O.**, Shechter M. 2018. The state of municipal solid waste management in Israel. Waste Management & Research. 36 (6): 527–534  
IF 2018= 2.015  
R 2018= ENGINEERING, ENVIRONMENTAL 33/52 Q3; ENVIRONMENTAL SCIENCES 135/251 Q3  
SJR 2018= 0.527

R 2018= Environmental Engineering 53/261 Q2; Pollution 55/186 Q2

\*30) # Baum, Z., Palatnik, R. R., **Ayalon, O.**, Elmakis, D., Frant, S. 2018. Harnessing households to mitigate renewables intermittency in the smart grid. Renewable Energy, 132: 1216–1229

IF 2018= 5.439

R 2018= ENERGY & FUELS 17/103 Q1; GREEN & SUSTAINABLE SCIENCE & TECHNOLOGY 7/35 Q1

\*31) Di Maria, F., **Ayalon, O.**, Daskal, S. 2018. Biodegradable waste management by anaerobic digestion: A comparison between policy approaches and regulation in Italy and Israel. Detritus, 3: 58–67

IF= N/A [available: JCI 2020-2021]

SJR 2018= N/A [available: 2020-2021]

SJR 2020= 0.279

R 2020= ENVIRONMENTAL CHEMISTRY 96/136 Q4; ENVIRONMENTAL ENGINEERING 96/230 Q3; WASTE MANAGEMENT AND DISPOSAL 75/154 Q3

\*32) # Kroeger, L. A., Tsemel, A., Tchernov, D., **Ayalon, O.** 2019. A theoretical approach concerning nutrient emissions to inform monitoring and management of mariculture farms. Journal of Aquatic Research and Marine Sciences, 2019: 125–133

N/A

\*33) # Daskal, S., **Ayalon, O.**, Shechter, M. 2019. Closing the loop: The challenges of regulation in municipal solid waste management. Detritus, 5: 3–1

IF= N/A [available: JCI 2020-2021]

SJR 2019= N/A [available: 2020-2021]

SJR 2020= 0.279

R 2020= ENVIRONMENTAL CHEMISTRY 96/136 Q4; ENVIRONMENTAL ENGINEERING 96/230 Q3; WASTE MANAGEMENT AND DISPOSAL 75/154 Q3

\*34) # Elimelech, E., Ert, E., **Ayalon, O.** 2019. Bridging the gap between self-assessments and measured household food waste: A hybrid valuation approach. Waste Management, 95: 259–270

IF 2019= 5.448

R 2019= ENGINEERING, ENVIRONMENTAL 11/53 Q1; ENVIRONMENTAL SCIENCES 35/265 Q1

\*35) # Elimelech, E., Ert, E., **Ayalon, O.** 2019. Exploring the drivers behind self-reported and measured food wastage. Sustainability 11 (20): 5677

IF 2019= 2.576

R 2019= ENVIRONMENTAL SCIENCES 120/265 Q2; ENVIRONMENTAL STUDIES 53/123 Q2; GREEN & SUSTAINABLE SCIENCE & TECHNOLOGY 6/8 Q3; GREEN & SUSTAINABLE SCIENCE & TECHNOLOGY 26/41 Q3

\*36) # Zohar, T., Parag, Y., **Ayalon, O.** 2020. Strategizing demand management from the middle out: Harnessing middle actors to reduce peak electricity consumption. Energy Research & Social Science, 61: 101360  
IF 2020= 6.834  
R 2020= ENVIRONMENTAL STUDIES 10/125 Q1

\*37) # Livne, L., Grossowicz, M., Tchernov, D., **Ayalon, O.** 2020. Predicting impacts of offshore monoculture farm expansion in ultra-oligotrophic waters of the Levantine Basin. Frontiers in Marine Science, 7: 566.  
IF 2020= 4.912  
R 2020= MARINE & FRESHWATER BIOLOGY 6/110 Q1

\*38) Di Maria, F., Daskal, S., **Ayalon, O.** 2020. A methodological approach for comparing wastewater effluent's regulatory and management frameworks based on sustainability assessment. Ecological Indicators, 118: 106805.  
IF 2020= 4.958  
R 2020= ENVIRONMENTAL SCIENCES 72/274 Q2

\*39) Wolfson, A., **Ayalon, O.**, Tal, A. 2020. A strategic analysis of national electricity generation alternatives: A perspective from the future. Journal of Environmental Science and Public Health, 4 (3): 244–257.  
N/A

\*40) Wolfson, A., **Ayalon, O.**, Madar, D. 2020. National strategy for framing and prioritizing environmental protection research and development topics. Sustainability, 12 (18): 7420.  
IF 2020= 3.251  
R 2020= ENVIRONMENTAL SCIENCES 124/274 Q2; ENVIRONMENTAL STUDIES 59/125 Q2; GREEN & SUSTAINABLE SCIENCE & TECHNOLOGY 6/9 Q3; GREEN & SUSTAINABLE SCIENCE & TECHNOLOGY 30/44 Q3

\*41) # Abu-Kalla, H., Palatnik, R. R., **Ayalon, O.**, Shechter, M. 2020. Hoard or exploit? Intergenerational allocation of exhaustible natural resources. Energies, 13 (24): 6657.  
IF 2020= 3.004  
R 2020= ENERGY & FUELS 70/114 Q3  
SJR 2020= 0.598  
R 2020= ENERGY ENGINEERING AND POWER TECHNOLOGY 77/920 Q2; ENERGY (MISCELLANEOUS) 30/128 Q2; FUEL TECHNOLOGY 40/249 Q2; RENEWABLE ENERGY, SUSTAINABILITY AND THE ENVIRONMENT 83/499 Q2; ELECTRICAL AND ELECTRONIC ENGINEERING 207/2051 Q2; CONTROL AND OPTIMIZATION 40/893 Q2

- \*42) # Zohar, T., Parag, Y., **Ayalon, O.** 2021. Of agency, action, and influence: The middle-out mechanism for promoting a low-carbon energy transition. Energy Research & Social Science, 72: 101900.  
IF 2021= 8.514  
R 2021= ENVIRONMENTAL STUDIES 11/127 Q1
- \*43) Kaplan Mintz, K., Tal, T., **Ayalon, O.** 2021. Motivation to teach a non-mandatory learning-unit on energy efficiency and renewable energy. International Journal of Science Education, 43 (8): 1228–1249.  
IF 2021= 8.634  
R 2021= ENERGY & FUELS 25/119 Q1; GREEN & SUSTAINABLE SCIENCE & TECHNOLOGY 14/47 Q2
- \*44) Shapira, N., **Ayalon, O.**, Ostfeld, A., Farber, Y., Housh, M. 2021. Cybersecurity in water sector: Stakeholders perspective. Journal of Water Resources Planning and Management, 147 (8): 05021008  
IF 2021= 3.457  
R 2021= ENGINEERING, CIVIL 54/138 Q2; WATER RESOURCES 38/100 Q2
- \*45) Kaplan Mintz, K., **Ayalon, O.**, Nathan, O., Eshet, T. 2021. See or be? Contact with nature and well-being during COVID-19 lockdown. Journal of Environmental Psychology, 78: 101714.  
IF 2021= 7.649  
R 2021= ENVIRONMENTAL STUDIES 15/127 Q1; PSYCHOLOGY, MULTIDISCIPLINARY 14/147 Q1
- \*46) # Zohar, T., Parag, Y., **Ayalon, O.** 2022. Weaving an innovation network from the middle out: The case of the renewable energy ecosystem. Energy, Sustainability and Society, 12: 37.  
IF 2021= 4.494  
R 2021= ENERGY & FUELS 68/119 Q3; GREEN & SUSTAINABLE SCIENCE & TECHNOLOGY 30/47 Q3  
SJR 2021= 1.025  
R 2021= ENERGY ENGINEERING AND POWER TECHNOLOGY 52/239 Q1; RENEWABLE ENERGY, SUSTAINABILITY AND THE ENVIRONMENT 60/203 Q2; DEVELOPMENT 28/273 Q1
- \*47) Elimelech, E., Mintz, K. K., Katz-Gerro, T., Segal-Klein, H., Hussein, L., & **Ayalon, O.** (2023). Between perceptions and practices: The religious and cultural aspects of food wastage in households. Appetite, 180, 106374.  
IF 2021=5.016  
R 2021= BEHAVIORAL SCIENCES 5/53 Q1;
- \*48) Daskal, S., Asi, O., Sabbah, I., **Ayalon, O.**, & Baransi-Karkaby, K. (2022). Decentralized Composting Analysis Model—Benefit/Cost Decision-Making Methodology. Sustainability, 14(24), 16397.  
IF 2021= 3.889

R 2021= ENVIRONMENTAL SCIENCES 133/279 Q2; ENVIRONMENTAL STUDIES 57/128 Q2; GREEN & SUSTAINABLE SCIENCE & TECHNOLOGY SSCI 7/9 Q4; GREEN & SUSTAINABLE SCIENCE & TECHNOLOGY SCIE 35/47 Q3

\*49) Gish, M., #Shalmon, A., **Ayalon, O.** The Destructive Effects of Recreational Off-Highway Vehicles on Farmer Well-Being: Mental Health Consequences Outweigh Economic Losses. Int. J. Environ. Res. Public Health 20, 4117. <https://doi.org/10.3390/ijerph20054117>

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IF 2021= 4.614

R 2021= ENVIRONMENTAL SCIENCES 100/279 Q2; PUBLIC, ENVIRONMENTAL & OCCUPATIONAL HEALTH SCIE 71/210 Q2; PUBLIC, ENVIRONMENTAL & OCCUPATIONAL HEALTH SSCI 45/182 Q1

\*50) **Ofira Ayalon.** Reducing Food Waste Saves Money and Helps Our Planet.

Frontiers Kids. DOI: [10.3389/frm.2023.1210806](https://doi.org/10.3389/frm.2023.1210806)

N/A

## **C. II. Articles in Refereed Journals (in Hebrew)**

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1) # Raviv, O., **Ayalon, O.**, Palatnik, R. R. 2015. Economic evaluation of wind power generation in Israel. [Ecology and Environment 6 \(3\): 167–173.](#) [Hebrew] *V*

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

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

4) Palatnik, R. R., Davidovitch, A., **Ayalon, O.**, Trop, T. 2018. Is green profitable? Cost benefit analysis of green schools in Israel. [Ecology and Environment 9 \(1\): 50–57.](#) [Hebrew] *V*.

5) # Davidovitch, A., Palatnik, R. R., Shechter, M., **Ayalon, O.** 2019. How will climate change affect the insurance industry and the Israeli economy? [Ecology and Environment 10 \(4\): 58–59.](#) [Hebrew] *V*.

\*6) # Daskal, S., **Ayalon, O.** 2020. Treatment of municipal solid waste in Israel: barriers, removal of barriers and value accelerators. [Ecology and Environment 11 \(4\):](#) [Hebrew] *V*.

\*7) # Litman, A., **Ayalon, O.**, Elimelech, E., Or-Chen, K. 2020. The effects of expiration date terminology on consumer behaviour to reduce food waste. [Ecology and Environment 11 \(4\).](#) [Hebrew] *V*.

\*8) Waldman, R., **Ayalon, O.**, Eshet, T. 2020. Personal or social? Effective interventions motivating separation of source behaviour in an urban environment. [Ecology and Environment 11 \(4\)](#). [Hebrew] *V*.

\*9) **Ayalon, O.**, Salinger-Snir, H., Saldinger-Eyal, V., Shapira, N. 2020. Identification of barriers and factors that influence the implementation of industrial symbiosis in Israel. [Ecology and Environment 11 \(4\)](#). [Hebrew]. *V*

\*10) Kaplan Mintz, K., **Ayalon, O.**, Nathan, O., Eshet, T., Kroani, A. 2021. The effects of forests and open spaces on well-being. KKL Yaar Journal.  
[https://www.kkl.org.il/forest\\_online\\_journal\\_yaar20\\_open\\_forests\\_mental\\_health/](https://www.kkl.org.il/forest_online_journal_yaar20_open_forests_mental_health/) [Hebrew] *V*

\*11) **Ayalon, O.**, Snir-Salinger, H., Eyal-Saldinger, V., Shapira, N. Industrial symbiosis – Barriers to implementation in Israel. Regulation Studies (4).  
<https://www.colman.ac.il/media/uurmvq5i/ailon.pdf> [Hebrew]

\*12) D. Shtauber, O. Sharon, N. Shapira, **O. Ayalon**, O. Perez, N. Nachmani, O. Haubenstock. 2022 Less but still hurts: insights from legislation in the field of reducing greenhouse gas emissions in preparation for Israel's climate law. [Ecology and Environment 13\(3\)](#) [Hebrew]. *V*

#### **D. Articles or Chapters in Scientific Books (Refereed)**

1) **Ayalon, O.**, Nishri A., Avnimelech Y. 1991. Distribution of soluble iron and zinc in leachates of municipal wastes. *In*: Chen, Y., Hadar, Y. (Eds.), [Iron Nutrition and Interactions in Plants](#). Kluwer Academic Publ. pp. 53–56

2) **Ayalon, O.**, Avnimelech, Y., 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. pp. 389–406

3) **Ayalon, O.** 1999. Priorities in municipal solid waste treatment. *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. *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., Shechter, M. (Eds.), Climate Change and the Mediterranean: Socio-economic Perspectives of Impacts, Vulnerability and Adaptation. Edward Elgar, UK. pp. 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., Mor, A. (Eds.), Renewable Energy in the Middle East: Enhancing Security through Regional Cooperation. Springer Science: Berlin. pp. 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. pp. 219–243. <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. <http://dx.doi.org/10.1787/5jxrclmxnfr8-en>
- 11) **Ayalon, O.** Economic aspects – Landfill externalities. 2018. *In*: Cossu, R., Stegmann, R. (Eds.), Solid Waste Landfilling: Concepts, Processes, Technology. 1<sup>st</sup> Edition, 1174 pp. ISBN: 978-0-12-818336-6
- \*12) #Daskal, S., **Ayalon, O.** 2020 Circular economy—Situation in Israel. *In*: Ghosh, S. K. Circular Economy: Global Perspective. Springer. pp. 187–200
- \*13) #Livne, L., Grossowicz, M., Tchernov, D., **Ayalon, O.** 2021. Predicting impacts of offshore monoculture farm expansion in ultra-oligotrophic waters of the Levantine Basin. *In*: Casadevall, M., Rodríguez-Prieto, C., Torres, J., Eira, C., Marengo, M., Lejeune, P., ... & Richir, J. Marine Aquaculture Impacts on Marine Biota. *Frontiers in Marine Science*, 8, 162.
- \*14) Wolfson, A., **Ayalon, O.**, Sappir, Y. 2022. The need for deeds: A call for proactivism in Israel's climate policy. *In*: Luther, S. (Ed.). Climate Change and Sustainable Development – The Need for International Cooperation. ISBN 978-3-88795-610-3. <https://www.hss.de/publikationen/climate-change-and-sustainable-development-pub2176/>

## 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.
  
- 2) **Ayalon, O.**, Avnimelech, Y. 2005. Setting national environmental priorities – The Israeli case study. The 3<sup>rd</sup> Dubrovnik Conference on Sustainable Development of Energy, Water and Environment Systems.
  
- 3) Eshet, T., Baron, M. G., Shechter, M., **Ayalon, O.** 2005. Measuring externalities of waste transfer-stations using hedonic prices: Case study, Israel. 14<sup>th</sup> Annual Conference, European Association of Environmental and Resource Economists, Bremen, Germany.
  
- 4) Kan, I., **Ayalon, O.** 2006. Economic analysis of compost production in Israel. Proceedings of ISWA World Environment Congress and Exhibition, Copenhagen Denmark.
  
- 5) Elimelech, E., **Ayalon, O.**, Flicstein, B. 2008. Management of hazardous waste in Israel – The case study of Haifa region. Proceedings of 1<sup>st</sup> International Conference of Hazardous Waste Management, Crete, Greece.
  
- 6) **Ayalon, O.**, Goldrath, T., Nachmany, M., Lev-On, M., Lev-On, P. 2011. Greenhouse gas emission reductions action plan for the State of Israel. Proceedings of the Air & Waste Management Association (A&WMA), San Francisco, California.
  
- 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.
  
- 8) **Ayalon, O.**, Lev-On, M., Lev-On, P. 2013. Greenhouse gas emissions reporting in Israel: Means to manage energy use. Proceedings of 26<sup>th</sup> International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy System. Guilin, China.
  
- 9) Goldrath, T., **Ayalon, O.**, Parag, Y., Shechter, M. 2013. Israel's electricity market sustainability indices. Proceedings of 26<sup>th</sup> International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy System. Guilin, China.
  
- 10) Regev, L., Mersky, R. L., **Ayalon, O.** 2014. Economic feasibility of waste separation at source: Case study of neighborhoods in Haifa, Israel. Proceedings of the 29<sup>th</sup> International Conference on Solid Waste Technology and Management. Philadelphia, PA USA.
  
- 11) Davidovitch, A., Shechter, M., **Ayalon, O.**, Palatnik, R. 2014. The implications of climate change phenomenon on the insurance industry and the Israeli economy. Proceedings of the 5<sup>th</sup> World Congress of Environmental and Resource Economists. Istanbul, Turkey



- 12) **Ayalon, O.**, Lev-On, M., & Lev-On, P. P. (2014, October). On the link between using low carbon fuels and energy efficiency improvements for attaining greenhouse gas emissions reduction goals. In Sustainable Energy Policy and Strategies for Europe, 14th IAEE European Conference, October 28-31, 2014. International Association for Energy Economics.
- 13) Davidovitch, A., Palatnik, R., **Ayalon, O.**, Shechter M. 2015. An assessment of the impact of climate change on the insurance market: Global & local analyses. The 21<sup>st</sup> Annual Conference of the European Association of Environmental and Resource Economists EAERE. Helsinki, Finland.
- 14) Raviv, O., Broitman, D., **Ayalon, O.**, Kan, I. 2016. The power of logistics: A regional optimization model for waste-to-energy generation using agricultural vegetative residuals. The 6<sup>th</sup> International Symposium on Energy from Biomass and Waste. Venice, Italy
- 15) Broitman, D., Raviv, O., **Ayalon, O.**, Kan, I. 2017. Absorbing shocks: Designing an agriculture vegetative waste management system resilient to final product price fluctuations. The 5<sup>th</sup> International Conference on Sustainable Solid Waste Management. Athens, Greece.
- 16) # Daskal, S, **Ayalon, O.**, Shechter, M. 2017. The state of municipal solid waste (MSW) management in Israel. The 7<sup>th</sup> IconSWM, Hyderabad, India.
- 17) Di Maria, F., Mersky, R. L., Daskal, S., **Ayalon, O.**, Ghosh, S. K. 2017. Preliminary comparison among recycling rates for developed and developing countries: The case of India, Israel, Italy and USA. Proceedings of the 7<sup>th</sup> IconSWM, Hyderabad, India.
- 18) Di Maria, F., **Ayalon, O.**, Daskal, S. 2018. Different approaches for biodegradable waste management by anaerobic digestion: An Italian and Israeli comparison. Proceedings of the 4<sup>th</sup> SUM conference, Bergamo, Italy
- 19) # Daskal, S., **Ayalon, O.**, Shechter, M. 2018. The Role of Regulation in Closing the Municipal Solid Waste Loop. Proceedings of the 4<sup>th</sup> SUM conference, Bergamo, Italy
- \*20) # Abu-Kalla, H., Palatnik, R. R., **Ayalon, O.**, Shechter, M. 2020. Intergenerational allocation of exhaustible natural resources: the case of natural gas in Israel. Proceedings of the 33<sup>rd</sup> International Conference – ECOS, 2020. On Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems, Osaka, Japan. (The conference was cancelled due to Covid-19)

#### **F. Entries in Encyclopedias**

**Ayalon, O.** in Olympiyeda 2005. The National Museum of Science, Technology and Space. Chapter: Energy and Environment. 32pp. Published on a CD.

#### **G. Other Scientific Publications**

##### **Policy papers**

- 1) Green, M., **Ayalon, O.**, Kochba, M., Ravina, I. 1994. Characterization of sanitary landfill leachates. Final report No.152-744, Ministry of the Environment (Hebrew)
- 2) Shechter, M., **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.**, 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., Avnimelech, Y. 2000. Life cycle analysis as a means for the development of solid waste management policy in Israel – The case of soft drink bottles. Final report, Ministry of the Environment. 35 pp. (Hebrew)
- 6) **Ayalon, O.**, Shechter, M., 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.**, Kan, I. 2001. The influence of solid waste treatment on land utilization. Karka 51: 130–153 (Hebrew)
- 8) Gavish, I., **Ayalon, O.** 2003. Economic-environmental perspectives on the application of the Packaging Law in Israel. Studies in Management of environmental and natural resources. pp. 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)
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#### **H. Other Works and Publications**

Personal columns (~60%) and invited articles (~40%) for the Globes and The Marker financial and business newspapers, and NRG and YNET, leading news portals, in the fields of energy and environment. Enclosed, *selected* articles published **since 2010**.

#### **Columns referring to Energy and Climate Change:**

<http://www.nrg.co.il/online/1/ART2/076/420.html> (7/3/2010)  
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### **Columns referring to Environmental Aspects of Consumption:**

<http://www.nrg.co.il/online/1/ART2/095/097.html> (15/4/2010)

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### **I. Submitted for Publication**

\* #Naama Lev, Maya Negev, Ofira Ayalon. 2022. Sometimes littering is acceptable – perceptions on littering in parks and open spaces.

Submitted to Environment and Behavior

(2021 IF=6.548, Q1)

\*Keren Kaplan Mintz, Ofira Ayalon, Tzipi Eshet, Orly Nathan. 2023. The influence of social context and activity on the emotional well-being of forest visitors: A field study.

Submitted to Journal of Environmental Psychology

(2021 IF=7.649, Q1)

### **J. Publications in Preparation**

#### **Articles**

\* #Riva Waldman, Tzipi Eshet, **Ofira Ayalon**. Personal factors or social visibility? Effective interventions motivating waste source separation in an urban environment.

\*Yaniv Reingewertz, **Ofira Ayalon**. What's in it for me? - A discrete choice experiment to identify the determinants of the willingness of households to sort waste