

May, 2014

**Alon Tal**

**CURRICULUM VITAE AND LIST OF PUBLICATIONS**

**Personal Details:**

Alon Tal

Born 12.07.1960, U.S.A.

Date of Immigration: July 13, 1980

Regular Military Service: August 1980-August 1982

Nachal Paratroopers; Final Rank, First Sergeant

Reserve Military Service until discharge in 2010.

Address and telephone at work:

Mitrani Department of Desert Ecology

Ben Gurion University, Sede Boqer Campus.

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**Education**

B.A (1978-80) University of North Carolina, Chapel Hill, N.C. Phi Beta Kappa, Phi Eta Sigma,  
Major: Political Science, Minor: Economics

LL. B (1982-85) Hebrew University Law Faculty, Jerusalem, Israel Major Focus: Criminal and  
International Law

M.Sc. (1986-87) Harvard University School of Public Health, Boston MA Health Policy and  
Management Department, Major: Environmental Law, Advisor: Prof. Stephen Thomas.

M.Sc. Thesis: *Evaluating the Implementation of the Ambient Air Quality Standard for Ozone.*

Sc.D.. (1987-89) Harvard University School Of Public Health, BOSTON MA Environmental  
Health Policy. Advisor: Professor John Graham,

Sc.D. thesis: *Preventing Agricultural Pollution: An Evaluation of State Programs,*

**Employment History**

2005-2014 Associate Professor, Ben Gurion University of the Negev, Mitrani Department  
of Desert Ecology. Tenure, 2007.

1996-2005 Director, Arava Institute for Environmental Studies, Kibbutz Ketura, Founding  
Director of program for Middle Eastern and international university students  
with focus on regional environmental issues.

1991-1998 Adam Teva V'din, Israel Union Environmental Defense, Tel Aviv, Israel,  
founding director, oversaw litigation, lobbying, public affairs, administration,  
personnel and fundraising of public interest science and law organization  
Chairman: (1996-98)

1991, 1992 Visiting fellow, Harvard University School of Public Health.

1990 Legal Staff, Yael Solel law offices, Eilat, Israel. Private practice including tort,  
contract and criminal law (1990)

- 1987-1989 Research Associate, Harvard School Of Public Health Principal Researcher in review of Nitrate Drinking Water Standards and Report for Congressional Research Service on Waste Incineration.
- 1987 Director, Camp Tel Yehudah-Bet, Barryville, NV. Administer program staff and campers in Zionist educational summer camp for 200 high school youth .
- 1985-1986 Assistant, Office of Attorney General, Jerusalem Israel. Legal research, preparation of criminal prosecution files, participation in policy meetings and writing legal opinions involving administrative law and constitutional issues.
- 1983-1985 Legal Aid, Israel Ministry of the Interior. Assisted Legal Advisor in ongoing work, comparative legal research for legislation and review of by-laws.

**Professional Activities:**

(a) Positions in academic administration

- 2011, 2013-14 Stanford University, Visiting Professor in Conservation Policy (sabbatical)
- 2008-2013 Albert Katz International School for Desert Studies, Ben-Gurion University of the Negev, Chair, Teaching Committee, Environmental Studies Track. (2008-2011)
- 2009 Ben Gurion University, Representative of university on the Israel delegation to UK Day of Science, Manchester, London, England.
- 2005-2012 Chair, Organizing Committee, Drylands, Deserts and Desertification International Conference for 500 participants from 60 countries (2006, 2008, 2010, 2012); over 3 million shekels raised.
- 2005-2010 Member of university/ Israeli government delegation to the United Nations Convention to Combat Desertification, Conference of the Parties, Committee to Review Implementation of the Convention
- 1996-2005 Arava Institute for Environmental Studies, Founding Director, Director of Policy Research Center
- 2003-04, 2008 Otago University, Faculty of Law, Dunedin, New Zealand, Visiting Professor
- 1991-2005 Tel Aviv University, Faculty Of Law, Adjunct Lecturer in Environmental Law.
- 2000-2003 Hebrew University, Geography Department, Adjunct Lecturer in Environmental Politics and Policy.
- 1998 Otago University, Faculty of Law, Dunedin, New Zealand, Visiting Scholar.
- 1989-1997 Harvard University, School Of Public Health, Boston MA. Adjunct Lecturer in Environmental Health Policy.
- 1990-1994 Ben Gurion University of the Negev. Adjunct Lecturer in Environmental Law and Policy .
- 1985-1986 Lecturer, Jerusalem Institute, Mt. Scopus, Jerusalem. Courses in Israeli Law and Mid-East history to visiting college students.

(b) Professional functions outside universities/institutions

- 2002-2014 Keren Kayemet L'Yisrael, Board of Directors, Chairman, KKL Committee for Sustainable Development. Presently chairman of the Land Development Committee (MAPAK) that oversees National Forestry Policy for Israel.
- 1995-2014 Ecopace/Friends of the Earth, Middle East, Founding Board Member.
- 2012-2013 International Board Member, Young Judaea.

- 2005-2008 Member of Modi'in City Council Environment Committee (Public representative)
- 2008-2013 Chair, Green Movement of Israel, Israel Green Party, Deputy Chair, 2008-10.
- 1991-2008 Life and Environment, Umbrella Organization for Israeli Environmental NGOs, Board Member, Chairman (1999-2004).
- 1992-2000 Harvard University Center for Risk Analysis -- Advisory Board Member
- 1994-1998 Eilat Regional Council, Elected District Representative.
- 1993-1997 Israel's Green Seal, Eco Consumer Program -- Public interest representative
- 1990-2012 Israel Bar Association, Member Environmental Committee (1994-97).
- 2000-2005 Econet Israel, Public Organization, Chairman.
- 1998 U.S. EPA Member of the Office of Water's National Nonpoint Source Five Year Agenda Task Force.
- 1997-1998 Natural Resources Defense Council, Member of Nonpoint Source Publications Advisory Board.

(c) Significant professional consulting

- 1998, 1999, 2003-2004, Israel Ministry of Environment, Advisor to the Director General and Deputy Director General regarding Environmental Enforcement, International Environmental Agreements.
- 1987-1989 Program Analyst, U.S. EPA, Policy Office, Washington, D.C. Consultant to U.S. government in policy analysis about permit usage in trading systems, evaluation of state agricultural programs and legal opinions.

(d) Editor or member of editorial board of scientific or professional journal

- 2013-2014 Guest Editor, *Journal of Arid Environments, Special Issue, to be published 2014.*
- 2007-2009. Guest Editor, *Journal of Land Degradation and Development, Special Issue, vol.20 (1) 2009.*

(e) Ad-hoc reviewer for journals

Review of Articles for *Environmental Politics, Journal of Environmental Management, Environmental Science and Technology, Geography Research Forum, International Journal of River Basin Management, Ecology and Environment, Monographs of Jerusalem Institute.*

(f) Membership in professional/ scientific societies

- 1990-present, Israel Bar Association.
- 1992-present, Israel Association of Ecology and Environmental Sciences
- 1994-2004 IUCN, International Union for Conservation of Nature, Legal Committee -- Israeli Representative.

## **Educational Activities**

### **(a) Courses taught:**

1. Ecological Restoration: Lessons from Israel and the Middle East, Stanford University, Biology Department, Fall, 2013.
2. The Environment in Israel, Issues and Public Policy, Graduate. Albert Katz International School for Desert Studies, Ben Gurion University, Spring, 2013.
3. Desertification and Public Policy, Graduate. Albert Katz International School for Desert Studies, Ben Gurion University. 2005-2014.
4. Introduction to Environmental Policy and Law in Israel, Graduate/Undergraduate, Department of Geography, Ben Gurion University. 2005-2014.
5. Issues in Environmental Justice in Israel's Arab Sector, Graduate/Undergraduate, Department of Geography, Ben Gurion University, 2010.
6. Climate change and the law, Undergraduate and Graduate course taught at the University of Otago, Law Faculty Dunedin, New Zealand. 2008.
7. Seminar in Environmental Research, Graduate, Albert Katz School of Desert Studies, Ben Gurion University. 2005-2011.
8. Climate Change: Science and Policy, Graduate/Undergraduate. Department of Geography, Ben Gurion University. 2008.
9. International Environmental Law, undergraduate and graduate course taught at the University of Otago, Faculty of Law, Dunedin, New Zealand. 2004, 2013 (invited).
10. Introduction to Environmental Policy- Undergraduate and Graduate level, Arava Institute for Environmental Studies. 1996-2004.
11. Sustainable Development in an Arid Environment- undergraduate and graduate level, Arava Institute for Environmental Studies. 1996-2004.
12. Introduction to Environmental Law- undergraduate and graduate level, Tel Aviv University, Arava Institute for Environmental Studies. 1990-2005
13. Environmental Law and Advanced Environmental Tel Aviv University Law School,. 1990-2005

14. Environmental Politics, graduate course, Hebrew University, 2000-2003.
15. Water Management and Policy in the Middle East, undergraduate and graduate level, Arava Institute for Environmental Studies, 1996-2004.
16. History of Environment in Israel, undergraduate and graduate level, Arava Institute for Environmental Studies 2003.

(b) Research students:

M.A / M.Sc. Students

1. 1998-2000. M.A. Dorit Talitman, (jointly with Dr. Shmuel Brenner) "*Enforcement of Marine Pollution Prevention Legislation: A Quantitative Assessment of the Israeli Experience*" Tel Aviv University.  
(Current status: Lecturer, Tel Aviv University Department of Public Policy).
2. 1999-2001. M.A. Irit Sappir Gildor, (jointly with Dr. Avi Gottlieb) "*Evaluating Visitors Attitudes Towards KKL Forests in Israel*", Tel Aviv University.  
(Served as head of education in the Ashdod Regional Environmental Unit.)
3. 2000-2002. M.A. Michael Feuer, (jointly with Dr. Atilla Klein) "*Evaluating Effectiveness of Reservoir Policies in Israel*", Brandeis University.
4. 2001-2003. LL.M. Orr Karassin, (jointly with Dr. Shmuel Brenner) "*Restoring Contaminated Lands, a Legal Analysis*" Tel Aviv University Law School.  
(Senior Lecturer in Social Science, Open University, Ra'anana.)
5. 2002-2004. M.A. Florencia Bellesi (jointly with, Dr. Moshe Schwartz) "*Effect of ISO 24001 Environmental Certification on Exports*", Albert Katz International School for Desert Studies, Ben-Gurion University.
6. 2004-2006, M.A. Hila Tenne, (jointly with, Prof. Avraham Haim) "*The Biological Diversity Convention – Does the State of Israel Comply with the Treaty on Which It Has Signed?*" Haifa University, School of Natural Resources.  
(Partner in Israeli Law Firm, specializing in environmental and international law.)
7. 2004-2006. M.Sc. Ronit Justo-Hananin (jointly with, Prof. Tamar Dayan) "*Invasive Species in Israel's Terrestrial and Marine Environment – Ecological, Policy and Legal Aspects*" Tel Aviv University, Department of Zoology.  
(Completed doctorate at Tel Aviv University in 2013.)

8. 2004-2006. M.A. Noam Segel, *The Debate on Globalization and the Environment: What Can We Learn From the Textile Industry in Israel?* Haifa University, School of Natural Resources, Albert Katz International School for Desert Studies, Ben-Gurion University. (Doctoral student, Tel Aviv University Department of Sociology; Director of Policy, Israel Energy Forum.)
9. 2003-2006. M.A. Dana Rassas, (jointly with Moshe Schwartz) *"Stakeholders' Perspectives on the Feasibility of Seawater Desalination as a Solution to Water Scarcity in Israel: Economic and Environmental Ramifications of Using Desalinated Water in Agriculture in Israel."* Albert Katz International School for Desert Studies, Ben-Gurion University. (Counselor Official, U.S. Consulate in East Jerusalem.)
10. 2004-2006. M.Sc. Hila Ackerman, *"Water Quality Considerations in Israeli Stream Restoration: The Alexander Stream as a Case Study"*, Albert Katz International School for Desert Studies, Ben-Gurion University. (Director of Environmental Protection Department, City of Herzliyah.)
11. 2004-2007. M.Sc. Netta Nagouker, (jointly with Professor Yontan Laromme) *"Pollution fluxes from Non Point and Point Sources in the Besor River Basin."* Albert Katz International School for Desert Studies, Ben-Gurion University.
12. 2005-2007. M.Sc. Zein, Nsheiwat, (jointly with Professor Matti Berkovich) *"Hot Spots of Lead Exposure in Israel and Jordan: Blood Lead Levels (BLLs) in Highly Exposed Populations."* Albert Katz International School for Desert Studies, Ben-Gurion University. (Director of Sustainability studies in academic program Amman; Founder of NGO to address climate change in Jordan.)
13. 2005-2008. M.A. Zohara Efrat, *A comparison of Particulate Matter (PM 2.5  $\mu\text{m}$ ) patterns between the Eilat and Aqaba dust monitoring stations*, Albert Katz International School for Desert Studies, Ben-Gurion University. (Staffer, Israel Ministry of Planning, National Planning Administration.)
14. 2005-2007. M.A. Vered Balan, *"Institutional Barriers for Sustainable Agriculture In the Dead Sea Region: A Comparative Analysis Between Agriculture Communities In Israel and Jordan."* Albert Katz International School for Desert Studies, Ben-Gurion University. (Deputy Director, Heschel Center for Environmental Leadership, Tel Aviv, Environmental Radio show hostess.)
15. 2005-2008. M.A. Yael, Bar-Ilan (jointly with, Dr. David Pearlmutter) *"Policy Mechanisms for Promoting Energy-efficient Building Suitability, Application and Implementation in Israel."* Albert Katz International School for Desert Studies, Ben-Gurion University. (Professional Consultant for Green Building Construction and Design.)

16. 2005-2007. M.A. Na'amah Teschner, (jointly with, Dr. Yaakov Garb) *"The National-Strategic Plan for Developing the Negev –Negev 2015: An Old Prospect or a New Future?"* Albert Katz International School for Desert Studies, Ben-Gurion University. (Completed doctorate at University of Leeds; Presently senior staff researcher, Knesset.)
17. 2005-2008. M.Sc. Mousa Diabat, (jointly with Professor Eilon Adar) *"Watershed Modeling as an Assessment of Pollutant Transport from Point and Non-point Sources to Wadi Alexander."* Albert Katz International School for Desert Studies, Ben-Gurion University. (Received Fullbright Scholarship, Completing Doctorate at Oregon State University.)
18. 2005-2007. M.A. Marcia Fagnoli, (jointly with Moshe Schwartz) *"The Effectiveness Of The United Nations Convention To Combat Desertification In Southern Africa"*, Albert Katz International School for Desert Studies, Ben-Gurion University. (Director of NGO promoting sustainable development in Namibia.)
19. 2005-2007. M.A. Gonen Sagy, *Mapping Environmental Literacy in Israel's Education System and Identifying Factors that Contribute to Students' Environmental Literacy*, Albert Katz International School for Desert Studies, Ben-Gurion University. (Completed doctorate in environmental education, BGU; Presently heads national network of Jewish-Arab high schools for cooperative environmental education program.)
20. 2005-2007. M.A. Liz Wuerker, *"Herd No More: Grazing Policy in Israel Since 1948."* Albert Katz International School for Desert Studies, Ben-Gurion University.
21. 2005-2007, M.A. Maya Negev, *"Multicultural dimensions of a national environmental literacy survey."* Albert Katz International School for Desert Studies, Ben-Gurion University. (Completed doctorate at BGU; Presently, post-doctoral fellow, Tel Aviv University.)
22. 2006-2008. M.Sc.. Adam Abramson, (jointly with Professor Eilon Adar) *"Restoration of the Alexander and Besor Streams: A Cost Effectiveness Analysis"*, Albert Katz International School for Desert Studies, Ben-Gurion University. (Submitted doctoral dissertation at BGU, 2013. Post-doctoral Fellow, BGU.)
23. 2007-2009. M.Sc. Samer Eid (jointly with Dr. Shmuel Brenner), *"A Comparison of Particulate Matter (PM 2.5  $\mu$ m) Patterns Between East and West Jerusalem"*, Albert Katz International School for Desert Studies, Ben-Gurion University.
24. 2007-2009. M.Sc. Ofir Kfir, (jointly with Professor Eilon Adar) *"Performance Evaluation of Wastewater Storage and Treatment Reservoirs"*, Albert Katz International School for Desert Studies, Ben-Gurion University. (Environmental Consultant, Tel Aviv.)

25. 2007-2009, M.A. Yaara Aharon, “*Contrasting Criminal and Administrative Enforcement Efforts at Israel’s Ministry of Environment*”, Ben Gurion University, Department of Geography.  
(*Doctoral Student, University of Sydney.*)
26. 2007-2009, LL.M. Hadar Yudas, (jointly with Dr. David Schorr), “*Effectiveness of Administrative Enforcement of Environmental Violations*”, Tel Aviv University School of Law.  
(*Senior Attorney, Bar Ilan University, Environmental Law Clinic.*)
27. 2007-Present, M.A. Shiri Bass Spektor (jointly with Dr. Yodan Rofeh) “*Cities and Climate Change: What is to be Gained or Lost from Reframing an Urban Sustainability Agenda in Terms of Greenhouse Gas Emission Reductions?*” Albert Katz International School for Desert Studies, Ben-Gurion University.  
(*Staff researcher, Knesset.*)
28. 2008-2011, M.Sc., Lonia Friedlander, (jointly with Dr. Naftali Lazarovich) “*Drip Irrigation Technology Transfer in Sub-Saharan Africa: Lessons and applications for global smallholder development*”. Albert Katz International School for Desert Studies, Ben-Gurion University.  
(*Doctoral student, Stony Brook University.*)
29. 2008-2011, M.Sc. Lucy Wamuyu, (jointly with Dr. Elli Groner) “*The Ecological Impact of Past and Future Settlement in the Negev*”, The Albert Katz International School for Desert Studies, Ben-Gurion University.  
*Wildlife Researcher, Kenya Institute for Public Policy Research and Analysis*
30. 2008-2011, M. Sc. Omrat Lihod, “*Biodiversity effects of individual Farms in Israel*”, The Albert Katz International School for Desert Studies, Ben-Gurion University.
31. 2009-2011, M.A. Itai Trilnick, “*Empirical Assessment of the Effect of the Waste Burial Fee on Solid Waste Activities in Israel*, The Albert Katz International School for Desert Studies, Ben-Gurion University.  
(*Environmental correspondent, The Marker / Haaretz Economic Supplement*); *To begin doctoral program in Natural Resource Economics at UC Berkeley in the fall.*
32. 2009-2011, M.A. Ofer Arnon, *Plant dispersal through a stream network in a hyper-arid environment*, The Albert Katz International School for Desert Studies, Ben-Gurion University.  
(*Regulatory staff, Southern Region, Israel Ministry of the Environment.*)
33. 2009-2012, M.A. Naomi Lipstein, “*Evaluation of different international models of “Green New Deals” and their application in Israel*” The Albert Katz International School for Desert Studies, Ben-Gurion University.  
(*Director of English publications and web-site, Israel Ministry of the Environment.*)



34. 2011- 2013, M.A. Inna Filkobski, (jointly with Dr. Yodan Rofeh) *Community Gardens of Israel - An Evaluation of their Characteristics and Implementation on the Community Level*. The Albert Katz International School for Desert Studies, Ben-Gurion University.
35. 2010 – 2013, M.Sc. Waad Nasralah, *Utilization of International Aid for Improvement of Palestinian Water Infrastructure: A Program Evaluation*, The Albert Katz International School for Desert Studies, Ben-Gurion University.
36. 2010 - Present, M.Sc. Shira Leon, *Trends in Orientations and Strategies in Israel's Environmental Movement*. The Albert Katz International School for Desert Studies, Ben-Gurion University.
37. 2012 – Present, M.A. Nina Gordon Kirschman, "Strategies for Assessing Exposures to Endocrine Disrupting Chemicals", The Albert Katz International School for Desert Studies, Ben-Gurion University.
38. 2013-Present, Wa'd Odeh, *Evaluation of Water Quality in the Kidron and Hebron Streams*, The Albert Katz International School for Desert Studies, Ben-Gurion University.

#### Ph.D. students

1. 2000-2004. Ph.D. Dorit Kerret, (jointly with Dr. Shmuel Brenner) *Complementary Approaches to Environmental Enforcement – an Israeli Perspective: ISO 14001 and Air Emission Standards Covenant*, Tel Aviv University Department of Geography. (Lecturer, Tel Aviv University Department of Public Policy).
2. 2007-2011. Ph.D. Gonen Sagui, (jointly with Professor Nir Orion) *"Evaluating the Effectiveness of Environmental Education Programs in Israeli Public Schools"*. The Albert Katz International School for Desert Studies, Ben-Gurion University. (Completed doctorate in environmental education, BGU; Presently heads national network of Jewish-Arab high schools for cooperative environmental education program.)
3. 2007-2011. Ph.D. Maya Negev, (jointly with Dr. Nadav Davidovich and Yaakov Garb) *"Defining Environmental Literacy in a Multi-Cultural Society."* The Albert Katz International School for Desert Studies, Ben-Gurion University.
4. 2008- 2013 Ph.D. Lucy Michael, *Public Perceptions of Climate Change in Israel*, The Albert Katz International School for Desert Studies, Ben-Gurion University.

5. 2008-2013, Ph.D. (jointly with Professor Eilon Adar) Adam Abramson, *Decision support for multiple use rural water development in Sub-Saharan Africa: Water and horticultural development in Simango, Zambia as a case study*, Estimated Date of Completion, The Albert Katz International School for Desert Studies, Ben-Gurion University.  
(Received post-doctoral fellowship at Ben Gurion University.)
6. 2009-Present, Michal Bitterman, Ph.D., *Peace Parks as a Vehicle For Promoting Conflict Resolution* The Albert Katz International School for Desert Studies, Ben-Gurion University.
7. 2012- Present, Pniella Dotan, Ph.D. *Regulating and Recycling Sludge – A Feasibility Assessment*, The Albert Katz International School for Desert Studies, Ben-Gurion University.
8. 2012 – Present, Vivian Futran, Ph.D. *Evaluating Health Risk from Wastewater Reuse*, The Albert Katz International School for Desert Studies, Ben-Gurion University.

### **Awards and Fellowships**

#### (a) Honors, Citation Awards

- 2011, International Association of Hydraulic Engineering, Award for best article in Journal of River Basin Management, Awarded in Vienna.
- 2008 Israel Ministry of Environment, Life Achievement Award for Contribution to Environmental Protection in Israel, Sixtieth Independence Anniversary.
- 2006 Haim Shiva Award for Outstanding Academic Research, Ben Gurion Fund.
- 2006 Charles Bronfman Humanitarian Award for Young Leadership, 2006.
- 1999 Jewish National Fund (KKL) Lewis Award for Forestry Research, 1999.
- 1997 Henry Ford European Conservation Award.
- 1989 Harvard University, Willensky Award for Outstanding Research among Graduate Students in Health Policy, Graduate Student Award for Conducting Policy Research.
- 1980 Phi Beta Kappa, Phi Eta Sigma.

#### (b) Fellowships

- 2011 Oxford University, Kennedy Leigh Fellowship; Lodging and 800 pound (declined)
- 1987-1989 U.S. Environmental Protection Agency, Network for Environmental Management Studies Four Time Fellowship Recipient (\$24,000)
- 1987-1989 Monsanto Agricultural Company, Doctoral Fellowship (\$14,000)

### **Media Recognition**

- 2010 Selected by *The Marker*, Israel's National Economic Magazine, "100 Influential Israelis" list.
- 2010 Selected "Top Ten Israeli Environmentalists", Israel 21C.
- 2007 *HaAretz*, Israeli Daily Newspaper, Recognized as "Leading Israeli Environmentalist".

Scientific Publications (citations based on Google Scholar)

(a) authored books

1. Tal, Alon, 2002, *Pollution in a Promised Land – An Environmental History of Israel*, Berkeley, California, University of California Press, 2002. (546 pages).
2. Tal, Alon, 2006, *Speaking of Earth: Environmental Speeches that Moved the World*, New Brunswick, NJ, Rutgers University Press,. (255 pages)
3. Tal, Alon, 2006 *The Environment in Israel: Natural Resources, Crises, Campaigns and Policy from the Advent of Zionism until Twenty-first Century*, (in Hebrew) B'nei Brak, HaKibbutz HaMeuhad Press. (620 pages)
4. Bar-Ilan, Yael, Pearlmutter, David, Tal, Alon, 2010, *Building Green: Policy Mechanisms for Promoting Energy Efficiency in Buildings in Israel*, The Technion, Center for Urban and Regional Studies Press. (187 pages)
5. Tal, Alon, 2013, *All the Trees of the Forest, Israel's Woodlands from the Bible to the Present*, New Haven, Connecticut, Yale University Press, 2013 (320 pages)

Hebrew edition, Hakibutz Hameuchad/Hapoalim Press, at press (2014).

Selected Reviews for *Pollution in a Promised Land*:

- Gerstenfeld, Manfred. *Pollution in a Promised Land: An Environmental History of Israel* (review) *Shofar: An Interdisciplinary Journal of Jewish Studies* - Volume 24, Number 2, Winter 2006, pp. 198-200.
- Morton I. Teicher, "Israel's Environmental Wrongs", *Jerusalem Post*, October 2, 2002, reprinted in National Jewish Post and other syndicated American Jewish newspapers.
- Jonathan Drew, "Israeli Environmentalist Returns for Triangle Talks" *Durham Morning Herald*, August, 8, 2002.
- Tsafir Rinat, HaAretz "The Environmental Price of Zionism Threatens Zionism Itself" *Haaretz, Newspaper, Sfarim* (Hebrew and English feature) May 6, 2003, p. 7.
- Richard C. Foltz "Book Review, Pollution in a Promised Land", *Environmental History*, vol. 8 no. 3, [http://historycooperative.press.uiuc.edu/journals/eh/8.3/br\\_5.html](http://historycooperative.press.uiuc.edu/journals/eh/8.3/br_5.html)
- Paul Kay, "Making the Desert Bloom" *Alternatives Journal*, Spring, 2003, Vol. 9 No. 2 [http://www.alternativesjournal.ca/issues/292/review\\_kay\\_print.htm](http://www.alternativesjournal.ca/issues/292/review_kay_print.htm)
- Noga Morag-Levine, "Book Review, Alon Tal: Pollution in a Promised Land" *Ariel, The Israel Review of Arts and Literature*, vol. 115, 2003, p. 81.
- Stephen S. Anderson *Pollution in a Promised Land: An Environmental History of Israel - Books of Note*. Environment, July-August, 2003, [http://www.findarticles.com/p/articles/mi\\_m1076/is\\_6\\_45/ai\\_104772228](http://www.findarticles.com/p/articles/mi_m1076/is_6_45/ai_104772228).

Selected Review for *The Environment in Israel*

Dov Hanin, *HaAretz – Literature Supplement*, January 17, 2007.

Shmuel Hayn, "The Environmental Chronicles" *Ynet*, <http://www.ynet.co.il/articles/0,7340,L-3339974,00.html>

Selected Reviews for *All the Trees of the Forest*

- B. D. Orr, "All the Trees of the Forest," *Choice Reviews of the American Library Association*, April, 2014.
- Sharon Udasin, "An Extraordinary Story," *The Jerusalem Post, Books Section*, January 16, 2014.
- Sue Fishkoff, "He Can See Israel's Forest for the Trees – and the planet," *The J*, January 9, 2014.
- Michael Cohen, "Telling the Story of Israel's Trees," *The Forward*, February 4, 2014.

(b) Editorship of collective volumes

1. Tal, A. and Adleman, A. 2002, *Environmental and Policy*, Jerusalem, Jerusalem Institute for Israel Studies.
2. Tal, A., Abed- Rabbo, A. 2010, *Water Wisdom, a New Menu for Palestinian and Israeli Cooperation in Water Management*, New Brunswick, NJ, Rutgers University Press.
3. Miller, C. Orenstein, D. Tal, A. 2013, *Between Ruin to Restoration, An Environmental History of Israel*, University of Pittsburgh Press.

Selected Reviews of *Water Wisdom*

Haim Watzman, "Palestinians and Israelis talk water", *Nature* 4666, August 112, 2010, p. 820.

Dan Tamir, "Water Wisdom, a New Menu for Palestinian and Israeli Cooperation in Water Management" *Environmental History*, Oxford Journals, 16 (3) 556-557.

Selected for inclusion in the Global Foresight Books project, 2011.

<http://www.wfs.org/content/new-and-forthcoming-fallspring-2010-2011>

Selected Review for *Between Ruin and Restoration*

Zafir Rinat, "How Israel Internalized the Importance of Nature Preservation", *HaAretz*, April 28, 2013. <http://www.haaretz.co.il/literature/study/.premium-1.1999978>

Peter Collier, "Between Ruin and Restoration", *Environment and History*, 19(3) August, 2013. [http://www.whpress.co.uk/EH/reviews/44\\_Orstein.pdf](http://www.whpress.co.uk/EH/reviews/44_Orstein.pdf)

(c) Chapters in collective volumes

1. Rosenthal (Tal), A. 1991. "Nitrates in Drinking Water," in *Harnessing Science for Environmental Regulation*, Graham, J. ed., New York, Praeger, p. 159-192.
2. Tal, A. 1993. "Preventing Pollution from Ports and Maritime Activity in the Gulf of Aqaba, Current Practices in Israel," *Protecting the Gulf of Aqaba, A Regional Environmental Challenge*, Warburg, P., Sandler, D., ed. Washington, Environmental Law Institute, p. 259-283.

3. Tal, A. 1994. "Law of the Environment," *Israel Business Law*, Kaplan, ed. Boston, Kluwer, p. 241-353, (Book Reprinted, Second Edition 1995).ss
4. Tal, A. 1994. "Enmity in the Wind, Regulation of Transboundary Air Pollution in an Israeli-Palestinian Environmental Agreement, *Our Shared Environment*, Twite, R. Issac, J., ed. Jerusalem, IPCRI, p. 246-279.
5. Talitman, D. and Tal, A. 2002. "Self-Reporting, the Key to Environmental Enforcement," *Environmental Policy*, Tal, A., Adelman, A., ed., Jerusalem, Jerusalem Institute for Israel Studies, p. 79-94.
6. Marom-Albeck, O. And Tal, A.2002. "Improving Public Enforcement of Environmental Laws: Proposals for Reform," *Environment and Policy*, Tal, A., Adelman, A., ed Jerusalem, Jerusalem Institute for Israel Studies, p. 53-78.
7. Tal, A. 2002. "The Benefit of Noncompliance With Environmental Laws: The Role of Economic Analysis in the Determination of Penalties for Polluters," *Environment and Policy*, Tal, A., Adelman, A., ed Jerusalem Institute for Israel Studies, p. 11-32.
8. Tal, A. 2004. "Left Out - The Irrelevance of Political Ideology to Current Israeli Environmentalism," *Who's Left in Israel*,. Leon, D. ed., Sussex, Academic Press.
9. Tal, A. 2004. "Towards a More Coherent Regional Environment Agenda in the Middle East: Exploring The Role of Comparative Risk Assessment," *Developments in Comparative Risk Assessment*, Linkov, I. ed. Kluwer, p. 125-131.
10. Lipchin, C., Tal A. 2004. "Sustainable Development Indicators for Measuring Israel's Quality of Life," *Sustainable Development Indicators in Israel*, Feitelson, ed. Jerusalem Institute for Israel Studies, Jerusalem.
11. Tal, A, 2005. "Israel and Environmentalism," *The Encyclopedia of Nature and Religion*, Continuum International, London.
12. Tal, A, 2007. "International Water Law and Implications for Cooperative Israeli-Palestinian Transboundary Water Management", *Integrated Water Resources Management and Security in the Middle East* Lipchin, C. Pallant, E. ed. Springer, 213-236.
13. Asaf, L., Negaoker, N., Tal, A., Laronne, J., Al Khateeb, N.2007 "Transboundary Stream Restoration in Israel and the Palestinian Authority", *Integrated Water Resources Management and Security in the Middle East*, . C. Pallant, E. ed. Springer, 285-295.
14. Tal, A, 2010, "A Slow Crawl Forward in the Dust: Desertification, The Environmental Orphan", *The Turning Points of Environmental History* C. Mauch, C., Jo. Radkau, F. Uekötter, ed. Pittsburgh, University of Pittsburgh Press 146-162.
15. Tal, A, 2010. "Restoration of Desertified Ecosystems", *Encyclopedia of Soil Science*, Lal, R., ed. Oxford, UK., Taylor and Francis.
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19. Tal, A. 2012, Comparative Review of Greywater Laws: Resolving Competing Legislative Messages”, *Greywater Systems* (Gross Freidlander, Ed.) (In Hebrew).
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21. Tal, A. 2013, “From Dogma to Deeds: Judaism’s Environmental Challenge”, *Religious Leadership*, (Sharon Callahan, Ed.) Thousand Oaks California, Sage Press, 531-543.
22. Katz, D., Tal, A., 2013 “Israel’s Stream Restoration Experience,” *Water Policy in Israel, Context, Issues and Options* (Nir Becker Ed.) Dordrecht, Springer, 65-82.
23. Tal, A. “Of Causes and Symptoms: Israeli Environmentalism at a Crossroads” in *Global Perspective In Environmentalism* (Doyle and MacGregor, Ed.) West Port Ct., Praeger at press.
24. Tal, A. "Natural Heritage: Leisure Services in Israel's National Parks, Forests and Nature Reserves," *Inside Israel: Israeli Life and Leisure in the 21<sup>st</sup> Century*, (Leitern, M. Ed.), Urbana IL, Sagamore, expected publication, 2014.

(d) Refereed Articles in Peer Reviewed Journals (h-index / google scholar =13)

1. Rosenthal (Tal), A. 1985. Measuring Noise: Towards an Optimal Judicial Policy, *Israel Law Review*, 20, (1): 4-98.
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3. Rosenthal (Tal), A. 1988. USDA's Dubious Commitment to Water Quality, *Environmental Forum*, 5: 18-22.  
(Rosenthal (Tal) A. 1990. State Agricultural Pollution Regulation, A Quantitative Assessment," *Water Environment and Technology*, 2,(8): 50-58.
4. Rosenthal (Tal), A. Gray G., and Graham, J.1992. Legislating Acceptable Risk From Exposure to Toxic Chemicals, *Ecology Law Quarterly*, 19 (2): 269- 362. .  
Reprinted in *An Environmental Law Anthology*, Fischman et. al., Ed. Cincinnati, Anderson, 1996
5. Tal, A. 1992. On Protected Societal Values and the Criminality of Environmental Offenses, *Ha Praklit, Journal of the Israel Bar Association*,. 40 (3): 413-420.
6. Tal, A. 1995. Citizen Suits to Improve Sewage Treatment, The Limitations and Potential of Legal Actions Against Polluting Municipalities, *Ecology and Environment*, 2: 151-155.
7. Tal, A. 1997. A Failure to Engage: Public Interest Activism and Environmental Health Risk Assessment, *Environmental Forum*, 14 (1): 13-21.

8. Tal, A. 1997. An Imperiled Promised Land, The Antecedents of Israel's Environmental Crises and Prospects for Change, *Journal of Developing Societies*, 13 (1):116-134.
9. Tal, A. 1997. Assessing the Environmental Movement's Attitudes Towards Risk Assessment, *Environmental Science and Technology*, 30 (10): 470-476.
10. Tal, A. 1998. Enforceable Standards to Abate Agricultural Pollution: The Potential of Regulatory Policies in the Israeli Context," *Tel Aviv University Studies in Law*, 14: 223-286.
11. Tal, A. 1998. Beyond the Rhetoric of Statistical Murder, Toward a Rational and Compassionate Environmentalist Perspective about the Ethics of Risk Assessment," *Ecosystem Health*, 4 (3):70-176.
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16. Tal, A., Linkov, I. 2004. The Role of Comparative Risk Assessment in Addressing Environmental Security in the Middle East, *Risk Analysis*, 24 ( 5): 1243-1248.
17. Bellesi, F., Lehrer, D. and Tal, A. 2005. Comparative Advantage, The Impact of ISO 14001 Environmental Certification on Exports, *Environmental Science and Technology*, 39 (7): 1943-1953.
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19. Tal, A. 2006. Seeking Sustainability: Israel's Evolving Water Management Strategy", *Science*, 313:1081-1084.
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27. Negev, M. Sagui, G. Garb, Y., Salzberg, A., Tal, A. 2008. Evaluating the Environmental Literacy of Israeli Elementary and High School Students, *The Journal of Environmental Education* 39 (2): 3-20.
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38. Nsheiwat, Z., Kozer, E., Berkovich, M., Tal, A. 2010. Comparison of Lead Exposures in Industrial "Hot Spots" in Jordan and Israel, *Journal of Toxicology and Environmental Chemistry* 92(4) 669-682.
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40. Justo-Hanani, R., Dayan, T. Tal. A., 2010, The Role of Regulatory Decision-Making on Non-Indigenous Species Introductions, *Biological Invasions* 12(8) 2815-2824.



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46. Tal, A., Gordon, J. 2010, Carbon Cautious: Israel's Afforestation Experience and Approach to Sequestration, *Small-scale Forestry*, 9(4) 409-420.
47. Tal, A. 2011, The Desalination Debate – Lessons Learned Thus Far, *Environment* 53(5) 35-49.
48. Teschner, N., Garb, Y, Tal, A., 2012, "Environmental Aspects of Planning Development for the Negev," *Ecology and Environment* 3(1) 73-77.
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50. Kfir O, Tal, A. Gross, A. Adar, E. 2012, Assessing the effectiveness of waste water reuse reservoirs in Israel: Results of a National Survey. *Resources, Conservation and Recycling* 68 76-87.
51. Groner, E., Orenstein, D. Lihod, O. Muotu, W., Arnon, O., Tal, A. 2012, The Effect of Single Family Homesteads in the Negev on Biodiversity. *Ecology and Environment*, 3(4) 320-330 (In Hebrew).
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54. Negev, M., Garb, Y., Davidovich, N., Tal, A., 2013, "Stakeholder participation in health impact assessment: a multicultural approach", *Environmental Impact Assessment Review*, 43 112-120.
55. Tal, A., Zchout, S., Oshri, L., Greenspoon, I., Akov, S., 2013, Israel's environmental movement: strategic challenges, *Environmental Politics*, 22(5), 779-791.
56. Trilnick, I., Tal, A., 2013, "Should we blame the rich for clogging our landfills?" *Waste Management & Research* 20(10) 1-6.

58. Tal, A., 2013, "Shifting Sands, Land and Water Management in the Middle East, *Harvard International Review*, 35(2) 37-41.
59. Tal, A., Israel's Environment, 2013, Characterizing Present Challenges in Environmental Education, *Ecology and Environment*, at press.
60. Trilnick, I., Tal, A , " What Drives Municipal Solid Waste Policy Making? An Empirical Assessment of the Effectiveness of Tipping Fees and Other Factors in Israel," *The Journal of Solid Waste Technology and Management*, accepted for publication.
61. Tal, A., "The Implications of Environmental Trading Mechanisms on a Future Zero Net Land Degradation Protocol", accepted to *Journal of Arid Environments*.

#### Hebrew Peer Reviewed Monographs

1. Tal, A. 2002. *Air Pollution from Transportation*, Jerusalem Institute for Israel Studies, peer reviewed monograph in policy publication series, 1-49.
2. Tal, A. 2005. *Policy Options for Improving the Longevity and Effectiveness of Catalytic Converters in Israel*," monograph, the Jerusalem Institute for Israel Studies series on environmental policy 1-60.

#### Book Reviews in Peer Reviewed Journals

1. Tal, A., 2006. The Natural History of the Bible: An Environmental Exploration of the Hebrew Scriptures. *The Journal of Environmental History*. 11: 630-632.
2. Tal, A 2008. "Rethinking the Eradication of Malaria in Israel" (Book Review) *Bulletin for the History of Medicine*, 82 (4):964-966.
3. Tal, A, 2009. Water and Power in the Middle East, *Israel Journal of Foreign Affairs*. 3(3):117-121.
4. Tal, A. 2010, Arab American: Landscape, Culture and Cuisine in Two Great Deserts, *Journal of Agricultural History*.83(3) 413-419.

#### e) Published scientific and government reports, technical papers

1. Rosenthal (Tal), Alon and Sawey, Mary and Graham, John, 1989, *Controlling Emissions from Municipal Waste Incineration*, Report published by the U.S. Congressional Research Service, Washington, D.C.(159 pages) March 1989.
2. Rosenthal (Tal), Alon, 1989 "Permitting Nonpoint Sources," Report to U.S. EPA Office of Policy Program and Evaluation, Washington, D.C..
3. Rosenthal (Tal), Alon. 1988, *Conservation Districts Role in Nonpoint Source Regulation*, U.S. EPA, Office of Water, Washington, D.C. 1988.
4. Rosenthal (Tal), Alon. *BMP Longevity, A Pilot Study*, U.S. EPA Technical Report, Washington, D.C.
5. Tal, Alon, Ed. 1992, *Recycling Legislation Around the World*, A Report Commissioned by the Knesset Interior and Environment Committee, Jerusalem.
6. Tal, Alon, Lopatin, Shoshan, and Bromberg, Gidon.1995, *Sustainable Energy-related Development Projects in the Middle East Peace Region*, Submitted to U.S. AID, Washington D.C. (29 pages).

7. Bar-David Shirli and Tal, Alon. *Harnessing Activism to Protect Israel's Environment, A Survey of Public Interest Activity and Potential*, Prepared for the CRB Foundation, Tel Aviv, Adam Teva V'din, 1996.
8. Tal, Alon and Talitman, Dorit. *Environmental Enforcement in Israel*, Ministry of Environment, Jerusalem, 2000.
9. Tal, Alon and Reiter, Idit, *Recommendations for Israeli Clean Air Law*, Submitted to the Ministry of Environment, Israel, 2000.
10. Tal, Alon. *The Herem Model – A Guidance for Calculating Pollution Revenues*, Jerusalem, Ministry of Environment Internal Document, Jerusalem, 2001.
11. Alon Tal, *Evaluating the Adequacy of Israel's Fuel Standards* prepared for the General Motors Foundation, Rishon L'Tsion, 2004.
12. Alon Tal, Alon Ben-Gal, Phoenix Lawhon, Dana Rassass, *Sustainable Water Management in the Drylands: Recent Israeli Experience*, Israel Ministry of Foreign Affairs, October, 2005.
13. Alon Tal, 2006, *National Report of Israel, 2003-2005*, Submitted to the United Nations Convention to Combat Desertification (UNCCD).
14. Environmental Challenges, A Report to the Southern Region of Israel's Ministry of Environmental Protection, (Tal, A. Ed.) Ben Gurion University, July, 2007.
20. Tal, A., Garb, Y. Sagui, G. Negev, M. Salzburg, A. 2007, *Environmental Literacy in the Educational System of Israel, Israel, An Empirical Assessment of 6<sup>th</sup> and 12<sup>th</sup> Grade Public School Children*. Submitted to the Knesset Education Committee, July 17, 2007.
21. Tal, A., Al Hmaid, M.S., 2007, *Draft Agreement on Environmental Cooperation between the Governments of the State of Israel and the Palestinian National Authority*, Friends of the Earth Middle East, November, 2007.
22. *Legal Strategies For Controlling Greenhouse Gas Emissions in New Zealand*, 2008, (Tal, A. Ed.) University Of Otago, Law Faculty, February.
23. Alon Tal, 2008. "Desertification", *Israel National Sustainable Development National Report*, The United Nations Commission on Sustainable Development, (CSD 16/17).
24. Tal, A., Aharon, Y., Yuhas, H., 2009, *Effectiveness of Environmental Enforcement: Administrative versus Criminal Enforcement*, Jerusalem, Ministry of Environment, May, 2009.
25. Tal, A. 2009, *Improving Water Management and Policy in Israel*, Written testimony submitted to the Official National Panel of Inquiry Regarding Israel's Water Situation, January 14, 2009.
26. Orenstein, D., Groner, E., Lihod, O., Muithui, W.L., Krukowski, E. Arnon, O., Tal, A., 2009, *Ecological Impacts of Homestead Settlements in the Negev: Final Report*, submitted to the Ministry of Environment, Jerusalem, November, 2009.
27. Tal, A., Mingelgreen U., Kaplan, M., 2011, *Assessment of the Environmental Impact of Long-Term Alternatives for Protection of the Dead Sea Coast, Final Report*, Submitted to the Ministry of Tourism, Government Corporation for Protection of the Dead Sea, May, 2011.
28. Tal, A., Leon-Zchut, S., Frankel-Oshri, L., Greenspan, I. Akov, S. 2011, *Israel's Environmental Movement: Trends, Needs and Potential*, JGM Foundation, Submitted

to the Chairman of the Knesset and the Knesset Environmental Committee, June 21, 2011.

(f) Selected Unrefereed Publications

1. Tal, A. and Schwartz, E. 1993. The Environmental Crises as a Function of the Relationships in Human Society," *Skira Chodshit*, June 1993, 34-39.
2. Tal, A., 1993. Six Reasons for a Acute Crisis *Politica*. 47: 48-51.
3. Tal, A. 1993. Reforms in Mobile Source Air Pollution Prevention: Towards the Catalytic Converter Era," *Biosphera*, . 22, (7) 4-11.
4. Tal, A. 1996. Whose Coast is it Anyway?" *Jerusalem Report*, June 1996.
5. Tal, A. 1997. "Environmental Organizations and risk Assessment: Rethinking the "Environmental Interest", Guest Columnist, *Inside U.S. EPA's Risk Policy Report*, June, 1997, 36-37.
6. Tal, A. 1999. The Air is Free, *Eretz V'Tevah*, September-October, 1999
7. Tal, A. 1999. Silent Spring at Forty – Assessing Rachel Carson's Legacy, *Eretz V'Tevah*, November-December, 1999.
8. Tal, A. 1999. "A Brief Environmental History of Israel," (lead article) *Hiriyah in the Museum, Artists' and Architects' Proposals for Rehabilitation of the Site*, Tel Aviv Museum of Art. Republished in *Jewish Lights*, 2000.
9. Tal, A. 2000. Green Versus Greenbacks: Should We Buy into Environmental Economics? *Eretz-Magazine*, June, 2000.
10. Tal, A. "Access to Environmental Information: The View from Israel's Public Interest Groups," *Israel Environmental Bulletin*, Winter, 2004.
11. Belessi, F., Tal, A., 2005. "Do Environmental Management Systems Pay? ISO 14001 and Competitiveness among Israeli Exporting Companies, *ISO Management Systems*, (19 pages) summer, 2005.
12. Tal, A. 2005. The Greening of the Jewish National Fund", *Tikkun Magazine*, June, 2005.
13. Tal, A. 2006. Nature... for a Price, *Jerusalem Report*, June, 2006.
14. Tal, A. 2006. Paying for Nature, *Haaretz*, July, 2006.
15. Tal, A., 2006. Stopping Desertification, *HaAretz*, December 26, 2006.
16. Tal, A. 2007. Combating Desertification – The Forgotten Environmental Commitment, *Israel Environmental Bulletin*, Spring, 2007.
17. Tal A. 2007, "The Environment", *The Lonely Planet, Israel and the Palestinian Authority*, 2007.
18. Tal, A. 2007. "Hot Times in the Holy Land: Israel and Global Warming", *Zeek Journal*, April 2007.
19. Tal, A. 2008. "The Dead Sea" in *The Lonely Planet Jordan*, (Sydney, Lonely Planet).
20. Tal, A. 2008. "An Agenda for Israel's Minister of Environment", *Shma* May, 2008.
21. Tal, A. 2008., "A Sixty Year Environmental Learning Curve" *Tikun Magazine*, May/June, 2008.
22. Tal, A. 2008, "Damage to the Dead Sea, Developers Won't Wait", *Y-Net*, June 24, 2008.
23. Tal, A. 2009, "Building a Hydrological Future", *HaAretz*, May 22, 2009.
24. Tal, A. 2009, "This Land Was Made for You and Me", *HaAretz*, July 26, 2009.\

25. Tal, A. 2009, "An Additional Coal-Fired S Plant Will Leave Israel Behind", *Y-Net*, August 10, 2009.
26. Tal, A. 2011, "Learning from a Disaster", *HaAretz*, March 17, 2011.
27. Tal, A. 2011 "The Case for a New Environmental Ethos", *HaAretz*, April 11, 2011.
28. Tal, A. 2012, "The Road to Rio Goes Through the Yitlah Valley", *NRG*, June 26, 2, 12.
29. Tal, A. 2012, "The Next Ecological Disaster", *HaAretz*, August 4, 2012.
30. Tal, A. 2012, "When Pollution Abounds, Talking to the Air", *Maariv / NRG* September 15, 2012.
31. Tal, A. "Ignoring the Perils of Offshore Gas", *HaAretz*, August, 26, 2012.
32. Tal, A. "Big Promises, Little Action on Climate Change", *Haaretz*, October 5 2012.
33. Tal, A. "The Truth About the Price of Food", *HaAretz*, October 24, 2012.
34. Tal, A. "Sins of Emission in the 2013 Budget", *Times of Israel*, May, 12, 2012.
35. Tal, A., "Natural-gas Exports: A Debate Over Values, Not Numbers, *Jerusalem Post*, May 16, 2013.
36. Tal, A., "The Ministry of Finance against the Environment", *HaAretz*, June 4, 2013.
37. Tal, A., "Quarrying in Berir Fields, Superfluous and Hazardous", *The Marker*, July 29, 2013.
38. Tal, A., "Natural-gas Exports: A Debate Over Values, Not Numbers, *Jerusalem Post*, May 16, 2013.
39. Tal, A., "Overpopulation is Still the Problem," *The Huffington Post*, September 27, 2013.
40. Tal, A. Abu Maya, Y. "Gaza Need Not Be a Sewer," *New York Times*, December 3, 2013.
41. Tal, A., "New Israeli-Jordanian-Palestinian Water Agreement Will Not Solve Shortages," *The Huffington Post*, December 15, 2013.

(g) Classified articles and reports

1. Tal, A. 2003, *Review of International Air Quality Laws and Recommendations for Reform*, internal series of reports to Ministry of Environment 1-301.
2. Tal, A. 2004. *The Bible of Enforcement*, Israel Ministry of Environment 1-42.

**Selected Lectures and Presentations at Meetings and Invited Seminars not followed by**

(a) Invited keynote lectures at conferences/meetings

- 2000 "Environmental Awareness in Israel – Where We Are and Where We're Going," Keynote Address, *IPCRI Israeli/Palestinian Environmental Conference*, Jerusalem, January 18, 2000.
- 2001 "Moving Towards a Sustainable Water Strategy in Israel," Key Note Address at Conference on Sustainability and the Middle East, University of Goettingen, Germany, May 18-19, 2001.
- 2003 "Landmarks in the Struggle for a Healthy Haifa: The Evolution of Israel's Environmental Movement", Resnick Memorial Lecture, The Technion, Israel April, 2003.
- 2003 "Water Wise, - Learning from the Israeli Experience," *Prime Minister Bob Hawke Prime Ministerial Centre Australia-Israel Annual Lecture*, University of South Australia, Adelaide, October, 30, 2003,

[http://www.hawkecentre.unisa.edu.au/events/lectures/WaterWise\\_AIHawkeLecture2003.htm](http://www.hawkecentre.unisa.edu.au/events/lectures/WaterWise_AIHawkeLecture2003.htm)

- 2004 “Health, Environment and the Law – Compatible Tools?” Keynote presentation, National Conference on the Environment and Health, Tel Aviv, June, 8, 2004.
- 2005 "Taking Responsibility for the Environment, A Model for Environmental Education", Keynote Address, Fifth Annual Conference on Environmental Education, Western Galilee College, October 26, 2005.
- 2006 "The Role of Local Government in Addressing Global Environmental Problems", Keynote Address, Healthy Cities Association, Annual Meeting, Dimona, Israel, June 12, 2006.
- 2007 “What’s Jewish about Jewish Environmentalism?” Keynote lecture, Creighton University Symposium on Jews and the Environment, Omaha, Nebraska, October 28-29, 2007.
- 2008, “The Evolution of the Environmental Movement in the Land of Israel”, *Keynote Address, Jerusalem International Conference for Environment and Nature Protection*, Jerusalem, May, 2008.
- 2008, “Water Management in Israel: The Conspicuous Absence of Water Markets”, Keynote Lecture, *Water Economics and Financing*, Water Expo 2008, Zaragosa Spain, July 30, 2008.
- 2008 “Judaism and the Environment, an Israeli Perspective”, *Keynote Presentation, Coalition for the Advancement of Jewish Education National Conference*, August 10-14, 2008, Burlington, Vermont.
- 2009 “Deserts, Desertification and Sustainability in the Eilat-Eilot Region: Lessons from the Planet”, Keynote lecture, *Man and Desert Conference, Eilat, Israel*. March 17, 2009.
- 2009 Tal, A. “On Environmentalism, Conservation, & Science: Ten Observations from Recent Israeli History”, *Keynote lecture at the 7<sup>th</sup> Conference on Active Research by Environmental Science Students*, Weizmann Institute Israel, June 8, 2009.
- 2009 “Making Forestry Sustainable: Recent Israeli Innovations in Eucalyptus Farming and Carbon Sequestration”, Keynote Address at *Seeing the Forest Beyond the Trees: New possibilities and expectations for products and services from small-scale forestry*, Conference of IUFRA, International Union of Forestry Researchers Association, Morgantown, West Virginia, June 7-11, 2009.
- 2010, “Sustainable Forestry in Israel”, Keynote address at *Inclusive Sustainable Development: Sharing Regional and Local Best Practices*, The Weitz Center for Development Studies at the Hebrew University, Rehovoth, December 5-7, 2010.
- 2011, “Modern Environmentalism: Voices from the Planet” Keynote Speech, Year of Global Citizenship Series, Allegheny College, February 2, 2011.
- 2011, “Technical Optimism as an Antidote to Water Scarcity”, Keynote address, *Out of Water, Sustaining Development in Arid Climates*, University of Toronto, April 1-2, 2011.
- 2013 "Israel's Environment 2013: Educational Challenges and an Agenda for the Future" Keynote Address, *National Environmental Education Conference*, Beit Berl College, Israel, March 20, 2013.
- 2013, "Between Quantity and Quality of Life", Commencement Address, Cyprus International Institute for Environmental and Public Health. July, 25, 2013.

2014 "Israel and Water: Scarcity, Innovation and Cooperation", Keynote Address, American University, March 4, 2015

(b) Selected Oral Presentation of papers at conferences/meetings

- 1989 Rosenthal, A. "Conservation Districts, Enforcement and Agricultural Pollution," *National Nonpoint Conference*, St. Louis, June, 1989.
- 1992 Tal, A. "Peace and the Environment in the Middle East, an Activist's Perspective," *National Public Interest Law Conference*, Eugene Oregon, 1992.
- 1992 Tal, A. "Increasing Demand for Recyclable Wastes and Recycled Products: The Limitations and Potential of Statutory Solutions," *Environmental Quality and Ecosystem Stability*, Proceedings in Adin, et. al, Ed. Jerusalem, ISEEQS, 1992.
- 1994 Tal, A. "Confronting Pollution from Municipal Sewage, A Strategic Assessment of NGO Legal Options," International Conference on "The Role of Non Governmental Organizations in Protecting the Environment," Eilat, Israel, March 23, 1994.
- 1994 Tal, A. "Environmental Law in Israel and its Enforcement," *Our Shared Environment*, Jerusalem, December, 1994.
- 1995 Tal, A. "International Cooperation to Protect the Gulf of Aqaba: Theory and Practice," *The Ecosystem of the Gulf of Aqaba in Relation to the Enhanced Economic Development and the Peace Process*, Eilat, February, 1995.
- 1995 Tal, A. "The Role of Law in Environmental Protection and Planning," *Our Shared Environment*, Jerusalem, Israel, December, 1995.
- 1995 Tal, A. "The Role of Public Involvement in Preserving Eilat's Coast," *Tel Aviv University Conference on the Environment and Peace*, June, 1995.
- 1995 Tal, A. "Revisiting Israel's Land Based Source Discharges to the Mediterranean, Israel's Commitment to the Barcelona Convention," *National Ecology and Environmental Quality Conference*, Haifa, July 1995.
- 1995 Tal, A. "Legal Proceedings Against Sewage Discharges in Ra'ananah to the Poleg Stream, Lessons Learned," *Israel Rivers Conference, 1995*, (proceedings), Rachel Einav and Avital Gazit Ed. Tel Aviv University, February 21, 1995.
- 1996 Tal, A. "Multi-National Schemes for Groundwater Protection," *Our Shared Environment*, Jerusalem, Israel Palestine Center for Research and Development, December, 1996.
- 1999 Tal, A., "Zionism's Environmental Paradox: The Ecological Price of Modern Jewish Nationalism," *The Regional Conference of the International Water Resources Association*, Jerusalem, June, 1999.
- 2001 Tal, A. "Public Campaigns Against Environmentally Related Transportation Hazards: Lessons from Israel and the World," *Conference on Transportation in Haifa, Quality of Life or Dead End?* Haifa University, March 6, 2000.
- 2001 Tal, A. "Public Attitudes Towards Forestry in Israel – an Empirical Study," *KKL Research Symposium*, Hebrew University School of Agriculture, Rehovoth, December 19, 2001
- 2003 Tal, A, "Improving Enforcement Against Mobile Source Air Pollution", *Transportation and the Environment*, Jerusalem Institute, April, 2003.
- 2004 Tal, A, "Improving Israel's Water Law – Proposals for Reform," *National Ecology and Environmental Quality Conference*, Ganei Taarucha, Tel Aviv, June 10, 2004.

- 2004 Tal, A, "Recent Changes in Israel's Water Legislation, Implications for Cooperative Management Strategies", *2<sup>nd</sup> Israeli-Palestinian-International Conference on "Water for Life in the Middle East"*, Antalya, Turkey, October 12, 2004.
- 2006 Tal, A, "Exploring Israel's Experience in Combating Desertification", *The Annual Conference of the U.S. Society for Environmental History*, St. Paul Minnesota, April, 1, 2006.
- 2006 Tal, A. Braverman A. Hasid, N. Zohar, A, "Regulating Ramat Hovav's Industrial Effluents: The Anatomy of a Mediation", *National Ecology and Environmental Quality Conference*, Haifa Convention Center., June 26, 2006.
- 2006 Tal, A. "Entrance Fees to Nature Reserves: An International Survey, Social, *Economic and Environmental Considerations in Managing Nature Reserves, Conference*, Tel Hai College, June 28, 2006.
- 2006 Negev, M. Sagui, G. Tal, A. "Evaluating Environmental Literacy in Israel" presented at *American Association of Environmental Education Annual Meeting*, St. Paul Minnesota, October 10-14, 2006.
- 2006 Tal, A. Combatting Desertification through Legislation – from Bottom Up to Top Down, *Deserts and Desertification*, Sede Boqer, November 7, 2007.
- 2006 Tal, A. "Israel's Role in the International Environmental Community", *Limud Conference*, University of Nottingham, England, December 26, 2006.
- 2007 Teschner, N. Garb, Y. and Tal, A. "The 2015 Strategic National Plan for Southern Israel: Politics, Governance and Participation", *Association of European Schools of Planning*, Naples Italy, July 11, 2007.
- 2007 Justo-Hanani, R. Dayan, T., Tal, A, "Commercial Activities as a Source of Invasive Species in Israel", *National Ecology and Environmental Quality Conference*, Weitzman Institute, June 12, 2007.
- 2008 Tal, A., "The State of Environmental Education in Israel", *Coalition for the Advancement of Jewish Education, National Conference*, August 10-14, 2008, Burlington, Vermont.
- 2008 Bass Spektor, S., Rofè, Y. Tal, A. "Cities and Climate Change: What is to be Gained or Lost from Reframing an Urban Sustainability Agenda in Terms of Greenhouse Gas Emission Reductions?" *Climate Change and Urban Design, Council for European Urbanism*, Oslo, Norway, September 14-16, 2008.
- 2009 Tal, A. "Israel's Water Management: Responding to a New Climate Reality" at *Israel Day of Science Conference*, Science Museum of London, March 5, 2009.
- 2009 Tal, A. "Mechanisms of Enforcement – Israel's Clean Air Act", *Conference on the Clean Air Act*, Tel Aviv University Law School, April 6, 2009.
- 2009 Tal, A. "Between Water Rights and Efficiency", *Jerusalem Conference on Nature and the Environment*, May 27, 2009.
- 2009 Bass Spektor, S., Rofe, Y., Tal, A. "Cities for Climate Protection initiative in Israel: Assessing the impact of urban, economic, and socio-political factors on program implementation". *Low Carbon Cities: 45th ISOCARP Congress*, Porto, Portugal, 18-22nd 2009.
- 2010 Tal, A. "Land, Nature and Open Spaces in Israel in 2050", *Fortieth Anniversary Conference of the Technion Faculty of Planning and Architecture*, Haifa, June 3, 2010.



- 2010 Tal, A. "Ecological Corridors: Open Spaces Role in Preserving Biodiversity", *Modi'in Conference on Heritage, Environment and Landscape*, December 7, 2010.
- 2011 Trilnick, I., Tal, A. "The Influence of the Landfill Fee on Solid Waste Policy on Israel's Municipalities", *National Ecology and Environmental Quality Conference*, June 27, 2011.
- 2011 Tal, A. "Israel's Battle with Desertification, A Historical Review", *National Ecology and Environmental Quality Conference*, June 27, 2011.
- 2012 Tal, A., "Biodiversity and Dryland Forestry Real and False Dilemmas", *International Conference on Drylands, Deserts and Desertification*, November 13, 2012.
- 2012 Tal, A. "National Parks in Israel, Considerations for Management and Planning", Conference", *Planning National Parks*, Haifa, The Technion, Faculty of Architecture Town Planning, December 20, 2012.
- 2013 Tal, A. "Regulatory Drivers of Technological Innovation", *The Sustainability Summit*, Red Rock Canyon, Nevada, April 28, 2013.
- 2014 Tal, A. "Water Across Borders: The Politics of Peace and Collaboration" Conference on Israeli and Palestinian Waterways", March 11, 2014

(c) Presentations at informal international seminars and workshops

- 1994 Tal, A. "Pollution Prevention in the Kinneret Watershed Through Regulation of Animal Feedlots," Israeli Presentation at the *Pollution Prevention NGO Conference*, Sfax Tunisia, September, 1994.
- 2009 Tal, A. "A Final Environmental Agreement between Israel and the Palestinians", *Regional Sustainability Forum*, Van Leer Institute, Jerusalem, March, 2009.
- 2009 Tal, A. "Israel's Experience with Waste Water Reuse -- Related Environmental Issues" *Arizona, Israeli, and Palestinian Water Management and Policy Workshop* Tucson, Arizona, August 31 – September 2, 2009.
- 2010 Tal, A. "Climate Change and the Problem of Water and Food Production in the Middle East", European Parliament, Brussels, June 8, 2010.
- 2010, Tal, A. "Critical Issues for Development of the Jordan River Valley: An Israeli Perspective", *Jordan River and Dead Sea Forum*, November 30-December 3, 2010, Oxford University.
- 2011 Tal, A. "Environmental matters as part of a final status agreement – shared concerns and mutual commitment" *The role of water and environment in the Israeli-Palestinian peace process*, Clingendael Institute, Netherlands Institute for International Relations, The Hague, March 2, 2011.
- 2014 Tal, A. "Will the Environment Survive a Renewed Middle East Peace Process? A Blueprint for Progress" Ostrum Workshop, Keynote Speaker, University of Indiana, Bloomington, Indiana, February 3, 2014.
- 2014 Tal, A. "Israeli Water Resources at the Crossroads," Weston Roundtable, University of Wisconsin, Energy Institute, Madison Wisconsin, February 13, 2014.

(d) Selected Seminar presentations / lectures at universities and institutions

1. 1992, Geography Department, Tel Aviv University.
2. 1994, Geography Department, Bar Ilan University.
3. 1991, 1993, 1995, School of Public Health, Harvard University.
4. 1996, Environmental Studies Department, Brown University.

5. 1996, Ecology Department, Cornell University.
6. 1997, International Relations Department, Columbia University.
7. 1998, Forestry School, Yale University.
8. 1998, Department of History, Otago University.
9. 1999, Department of Urban Planning, University of Michigan.
10. 1999, Energy and Environmental Program, University of California at Berkeley.
11. 2001, Department of Environmental Sciences, University of North Carolina.
12. 2001, Geography Department, Hebrew University.
13. 2003, Ecology Department, Otago University..
14. 2003, Land Restoration Center, University of Melbourne.
15. 2004, Department of Sociology, Tel Aviv University.
16. 2005, Department of Ecology, Stanford University.
17. 2005, Energy & Environment, University of California, Berkeley,
18. 2005, Environmental Science Department, University of San Francisco.
19. 2005, Agrarian Studies Program, Yale University.
20. 2006, The Natural Resources Defense Council, National Headquarters, New York.
21. 2006, Environmental Defense, Washington Headquarters.
22. 2006, Watson School of International Studies, Brown University.
23. 2006, Environmental Studies Program. University of North Carolina,
24. 2007, Nicholas School of the Environment, Duke University.
25. 2007, The Environmental Law Institute, Washington, D.C.
26. 2008, New York University, Joint Presentation
27. 2008, Environmental Science Department. Creighton University, Omaha Nebraska
28. 2008, Oriel College, Oxford University.
29. 2008, Porter School of the Environment, Tel Aviv University.
30. 2009, Department of Ecology, Hebrew University.
31. 2010, Seminar to Social Science Doctoral Students, Hebrew University
32. 2010, Middlebury College, Vermont, University Speaker's Forum.
33. 2011, University of California, Santa Cruz, Environmental History Program.
34. 2011, Zuckerg Institute for Water Research, Israel, Seminar Series.
35. 2011, Stanford University, Center for Conservation Biology, Seminar Series.
36. 2012 University of California, Berkeley, Law School, Speaker Series.
37. 2012, University of Nebraska, Water Seminar Series.
38. 2012, Arizona State University, School of Sustainability, Invited Lecture.
39. 2013, Nelson Mandella Institute of Science and Technology, Tanzania, Invited Lecture.
40. 2013, Tel Aviv University/ Columbia University Earth Institute, Invited Lecture
41. 2013, Harvard University, Law School, Negotiations Program, Invited Lecture
42. 2013, Mount Holyoke College, Department of Politics, Invited Lecture
43. 2013, Harvard University Law School, Negotiations Colloquium, Invited Lecture.
44. 2013, Rutgers University, School of the Environment, Dean's Lecture.
45. 2013, University of Arizona, Water Resources Research Center, Invited Lecture
46. 2014, University of Washington, Jackson School of International Relations
47. 2014 Texas Tech University, Natural Resource Management
48. 2014, Duke University, Nicholas School of the Environment

49. 2014, North Carolina State University, Department of Ecology
50. 2014, University of California, Los Angeles, Law School
51. 2014, University of Michigan, Ann Arbor, School of Natural Resources
52. 2014, Columbia University, Institute for Israel and Jewish Studies

## **Patents**

None

## **Grants for Research**

1. 1988-1989 – Congressional Research Service to John Graham, Jean Sawey Alon Rosenthal (Tal), Evaluating the Health Hazards from Solid Waste Incineration. \$25,000 for six months.
2. 1988 – Harvard School of Public Health to Alon Rosenthal (Tal). Subject: Health Impacts of Nitrate and Role of Scientific Review in Standard Setting. \$10,000 for one year.
3. 1987-89 – U.S. EPA – NEPS grant to Alon Rosenthal (Tal). Agricultural Nonpoint Source Policy State Evaluation. \$24,000 for two years.
4. 1988-89 – Monsanto Corporation grant to Alon Rosenthal (Tal). Subject: Dissertation Research in Farmers' Attitudes to Conservation Practices. Period of Grant, \$15,000 for one year.
5. 1990 – The Harvard Center for Risk Analysis to Alon Tal (PI) Risk-Based Legislation, a Comparative Study. \$10,000 for three months.
6. 1994 - The Ford Foundation to Alon Tal (PI) and Alfred Abed Rabbo (PI). Evaluating the Contamination to the Mountain Aquifer and Strategies for Israeli/Palestinian Pollution Prevention Strategies. Amount: Two years at \$200,000 for two years
7. 1995 – U.S. AID, Washington, D.C. to Alon Tal (PI) and Shoshana Lopatin . Subject: Evaluating the Cost-Effectiveness of Regional Energy Projects in the Middle East. Amount: \$5,000 for one month.
8. 1997-1998, The Conanima Foundation to Alon Tal (PI) Subject: Researching Israel's Environmental History. \$25,000 for one year.
9. 1998-1999, The Charles Revson Foundation to Alon Tal (PI) Subject: Environmental Economics and Legal Research. \$60,000 for one year.
10. 1999/2000 – The Jewish National Fund to Alon Tal. Subject: Evaluating Environmental Attitudes of Visitors to Israeli Forests. \$10,000 for two years.
11. 1999 – Israel Ministry of Environment to Alon Tal (PI). Improving Environmental Enforcement: A Proposal for Institutional Changes.\$30,000 for one year.
12. 2000 – The Jerusalem Institute for Israel Studies to Alon Tal (PI). Enforcement and Air Pollution Reduction \$70,000 for one year.
13. 2001 – The Ministry of Environment to Alon Tal (PI). Subject: Comparative Legal Analysis of Clean Air Legislation. \$15,000 for nine months.
14. 2001/2002 – The CRB Foundation/Jerusalem Institute to Alon Tal (PI) Amending Israel's Water Law. \$50,000 for one year.
15. 2003 – The General Motors Foundation. To Alon Tal, Improving Catalytic Converter Effectiveness and Fuel Quality in Israel. \$18,000 for two years.
16. 2004,U.S. AID, MERC grant to Alon Tal (PI) and Nader el-Khateeb (PI). Subject: Transboundary Stream Restoration Strategies. \$880,000 for three years.

17. 2004, The General Motors Foundation to Alon Tal (PI). An Empirical Evaluation of the Effectiveness of Environmental Education in Israel: \$25,000 for two years.
18. 2005-2006, Friedman Foundation to Alon Tal (PI), An Empirical Evaluation of the Effectiveness of Environmental Education in Israel. \$10,000 for one year.
19. 2006-2008 Yad HaNadiv Foundation to Alon Tal (PI) Alfred Abed-Rabbo, Water Wisdom, Assessing Prospects for Resolving Israeli and Palestinian Water Disputes, \$40,000 for two years.
20. 2007-2008, Israel Ministry of Environment, Results Count: A Retroactive Assessment of the Effectiveness of Administrative versus Criminal Enforcement Strategies, \$20,000 for one year.
21. 2007-2009 Israel Ministry of Environment to Alon Tal, (PI) Daniel Orenstein, Elli Groner, the Ecological Impact of Past and Future Settlement in the Negev. \$20,000 for two years.
22. 2007-2009, Keren Kayemeth L'Yisrael to Eilon Adar, (PI), and Alon Tal, A.(PI), Performance Evaluation of Wastewater Storage and Treatment Reservoirs. \$50,000 for three years.
23. 2008-2010 present. Netafim Corporation to Alon Tal (PI). From Flood and Furrow to Drip Irrigation: Evaluation of the African Experience, \$12,000 for two years.
25. 2010 – 2011, the Goldsmith Foundation to Alon Tal (PI) Mapping of Israel's Environmental Movement 25,000 pound sterling – for one year.
24. 2012-2014, MERC, To Alon Tal (PI) Alfred Abed Rabbo (PI), Shai Arnon (PI) and Arnon, S. Monitoring Endocrine Disrupting Chemicals, \$556,000 in conjunction with WEDO.

### **Grants for Academic Conferences**

25. 2005-2006 Chaired and organized academic conference that generated support First Conference on Drylands, Deserts and Desertification at Sede Boqer Campus, \$160,000 raised.
26. 2007-2008 Chaired and organized academic conference that generated support from 18 government and private donors to support Second Conference on Drylands, Deserts and Desertification at Sede Boqer Campus, \$220,000 raised.
27. 2009-2010 Chaired and organized academic conference that generated support from government and private donors to support Third Conference on Drylands, Deserts and Desertification at Sede Boqer Campus, \$230,000 raised.
28. 2011-2012 Chaired and organized academic conference that generated support from government and private donors to support Fourth Conference on Drylands, Deserts and Desertification at Sede Boqer Campus, \$300,000 raised.

### **Present Academic Activities**

#### Research in progress

*Water policy research:* Due to the recent findings in Hadassah hospital of a precipitous drop in sperm counts among Israeli male, a three year research grant was received with co-PI Dr. Shai Arnon from the Water Institute at Ben Gurion University and Palestinian partners to focus on the monitoring of endocrine disruptors in water supply and strategies for reducing associated health insults.

*Transboundary Water/ Environmental Management:* Two new research initiatives are in different stages of completion. A study evaluating the utilization of international aid funding to support water infrastructure in the Palestinian National Authority is recently completed. A new study of transboundary peace parks in the world and the lessons they hold for peace building nature reserves locally has begun and will be completed in two years.

*Demography and the Environment in Israel,* Preparation of English and Hebrew book evaluating the effect of population rise on Israel's Environment, the evolution of local demographic policies and strategies for a sustainable future.

#### Books and Articles in Preparation

##### Book:

Tal, A, *The Land is Full: Addressing Overpopulation in Israel*, final stages of review, expected publication, 2015.

##### Articles:

1. Sagui, G., Tal, A., Current Trends in Environmental Education in Israel, In preparation.
2. Filkobski I., Tal, A., Agrarian Urban Renewal: An Empirical Assessment of Israel's Community Gardens, *In preparation*.
3. Tal, A., False Dilemmas: Of Biodiversity and Dryland Afforestation, *In preparation*.
4. Zchout, L., Tal, A. In or Out? Strategic Orientation of Environmental NGOs in Israel, *In preparation*.