### CV

### Hadar Heller

### *Education*

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| 1981 | B. Sc. in Soil Science at the Hebrew University of Jerusalem. |
| 1987 | M. Sc. in Soil Science at the Hebrew University of Jerusalem |
| 2002 | Dissertation toward Ph.D. from the Hebrew University of Jerusalem. Dissertation work performed at the Institute of Soils and Water, Volcani Center, ARO, Bet Dagan. |
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### *Relevant Positions*

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| 2008- present | Senior research engineer at the Institute of Soil, Water and Environmental Sciences, Volcani Center, ARO. Head of Science Oriented Youth Unit, Volcani Center, ARO. |
| 2004 - 2008 | Post Doctoral Fellow at the Department of Soil Environmental and Physical Chemistry, The Institute of Soils and Water, Volcani Center, ARO, Bet Dagan. |
| 1994 - 1999 | Research Fellow at the Department of Soil Environmental and Physical Chemistry, The Institute of Soils and Water, Volcani Center, ARO, Bet Dagan |
| 1984 - 1987 | Research Assistant at the Department of Soil and Water, Faculty of agriculture, the Hebrew University of Jerusalem.  Teaching assistant (Soil Science, Physics) |
| 1981- 1982 | Research Assistant at the Department of Soil Chemistry and Plant Nutrition, The Institute of Soils and Water, Volcani Center, ARO, Bet Dagan |

### *Research Interests*

* Colloid chemistry (Surface Chemistry, Adsorption, Rheology).
* Application of organic waste materials to agricultural fields and their effect on N C transformations.
* Greenhouse gases

### *Publications*

**Heller, H.,** and R. Keren. 2001. Rheology of Na-montmorillonite suspension as affected by electrolyte concentration and shear rate. Clays Clay Min. 49 (4). 286-291.

**Heller, H., and R. Keren. 2002.** Anionic polyacrylamide polymers effect on rheological behavior of sodium montmorillonite suspensions. Soil Sci. Soc. Am. J. 66 (1). 19-25.

**Heller, H**., and R. Keren. 2003. Anionic polyacrylamide polymers adsorption by pyrophyllite and montmorillonite. Clays Clay Min. 51 (3). 334-339.

**Hadar Heller**, Asher Bar-Tal, Guy Tamir, Paul Bloom, Rodney T. Venterea, Dong Chen, Yi Zhang, C. Edward Clapp,Pinchas Fine. 2010. Effects of Manure and Cultivation on CO2 and N2O Emissions from a Corn Field under Mediterranean Conditions. J. Environ. Qual. 39:437–448.

Tamir G., M. Shenker, **H. Heller**, P.R. Bloom, P. Fine, and A. Bar-Tal. 2011. Can soil carbonate dissolution lead to overestimation of soil respiration? Soil Sci. Soc. Am. J. 75:1388-1396.

Guy Tamir, Moshe Shenker, **Hadar Heller**, Paul R. Bloom, Pinchas Fine, Asher Bar-Tal. 2012. The effects of biological activities on dissolution and re-crystallization processes of active CaCO3 in soil developed on tufa. Soil Sci. Soc. Am. J. (accepted for publication).