

**Daniel Rosenfeld**

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**EDUCATION**

BSc- 1977, HUJI;  
MSc- 1980, HUJI;  
PhD- 1986, HUJI;  
post-doc; 1986-88, NASA/Goddard Space Flight Center

**APPOINTMENTS**

**Other Institutions**

**Hebrew University: Lecturer-1988 , Senior lecturer-1991, Associate Professor-1998, professor—2001;**

**Administrative appointments (Hebrew U and others)**

**AWARDS AND HONORS**

- 1988: **Alon Fellowship**, awarded by the Israeli Council for Higher Education.
- 2000: The **R. Froind Award** for popular writing in sciences. Awarded by the Hebrew University of Jerusalem.
- 2001: The **Verner Suomi Medal**, of the American Meteorological Society, "*for key contributions to remote measurement and interpretation of rainfall, cloud optical properties, and cloud microphysical properties*".
- 2001: The **Thunderbird Award**, of the Weather Modification Association.
- 2003: **Fellow** of the American Meteorological Society.
- 2006: The **WMO/UAE Prize** for Excellence in Weather Modification "*for contributions to world-wide WM experiments and their advocacy of the aerosol pollution/precipitation link*".
- 2006: The **Michael Landau Prize for Sciences**, in the area of Ecology and Environment, granted by the Israeli Mifal-Hapayis to Israeli scientists *for outstanding achievements in their field and for the advancement of science in Israel*.
- 2007: The **Schaefer Award**, of the Weather Modification Association "*For scientific and technological discoveries that have constituted a major contribution to the advancement of weather modification*"
- 2009: The **Friendship Award**, of the People's Government of China, "*in appreciation to outstanding contribution to the economic construction and society development of China*", in recognition of the cooperation on cloud-aerosol interactions impacts on weather modification.

- 2013: Member of "**The European Academy of Sciences and Arts**".
- 2015: The **EMET prize** for sciences, art and culture, awarded "*for his leading research in the field of cloud and rain physics and the effect of natural and man-made aerosols on rainfall levels and distribution*".
- 2015: **Fellow** of the American Geophysical Union.

#### SELECTED PROFESSIONAL ACTIVITY

- 1988-2000: Member, Science team of NASA's Tropical Rainfall Measuring Mission satellite.
- 1990-1999: Provided scientific guidance to the U.S. Agency for International Development (USAID) on the design, conduct and evaluation of the Cloud Seeding Demonstration Project in Thailand..
- 1994-1996: Provided scientific guidance to the dynamic cloud seeding project, in west Texas, with cloud physics aircraft campaigns.
- 1996: Chairperson of the MEDREP (the Middle East and Mediterranean Rain Enhancement Program) steering committee.
- 1996-1999: Member of the American Meteorological Society's committee for Adverent and Inadvertent Weather Modification.
- 1996-2004: Member, Science team of NASDA (Japanese space agency) ADEOS-2 (Advanced Earth Observing Mission).
- 2000-Present: Member of the applications expert group on nowcasting and very short rang forecasting. EUMETSAT.
- 2003-Present: Member (honorary) of Integrated Land Ecosystem – Atmosphere Processes Study (iLEAPS) science steering committee.
- 2005: PI for the aircraft filed campaign in Texas, aimed at testing the impact of hygroscopic aerosols on precipitation development in convective clouds.
- 2005-2006: Representative of Israel in the COST office for Meteorology, the European Commission.
- 2005-2006: PI for the aircraft filed campaign SUPRECIP in February-March 2005 and 2006, validating the satellite inferences of air pollution suppressing precipitation in the Sierra Nevada.
- 2007-2011: A visiting member of the Chinese Academy of Meteorology, Beijing, China.
- 2007-Present: Co-initiated the Aerosol-Cloud-Precipitation-Climate initiative, which has been co-sponsored by iLEAPS, IGAC and GEWEX.
- 2009-2011: Lead scientist for the aircraft filed campaign CAIPEEX (Cloud-Aerosol Interactions and Precipitation Enhancement Experiment) during the 2009 and 2010 monsoon seasons in India, with the Indian Institute of Tropical meteorology.
- 2009-2012: Chair of the American Meteorological Society (AMS) Committee for planned and inadvertent weather modification. In this capacity lead the writing of policy statements, and convene the AMS conference on planned and inadvertent Weather Modification, held in Seattle on January 2011.

2010-Present: Co-chair the Remote Sensing Aerosol-Cloud-Precipitation-Climate initiative, which has been sponsored by the International Space Science Institute, Bern, Switzerland.

2010-Present: Science team of CALWATER, and flight scientist for the aircraft campaigns January-February 2011 and 2014, for measuring cloud-aerosol interactions and impacts on precipitation over California, for the California Energy Commission.

**TEACHING- general field and/or courses names if wishes**

Cloud physics, Climate change, Radar Meteorology, Synoptic meteorology

**LIST OF PUBLICATION or Google scholar site**

Google Scholar: <https://scholar.google.co.il/citations?user=9fiJbzUAAAAJ&hl=en>

Research Gate: [https://www.researchgate.net/profile/Daniel\\_Rosenfeld/contributions](https://www.researchgate.net/profile/Daniel_Rosenfeld/contributions)

**BOOKS/EDITED VOLUMES:**

**JOURNAL ARTICLES:**

1. Ralph F. M., K. A. Prather, D. Cayan, J.R. Spackman, P. DeMott, M. Dettinger, C. Fairall, R. Leung, D. Rosenfeld, S. Rutledge, D. Waliser, A. B. White, J. Cordeira, A. Martin, and J. Helly, J. Intrieri, 2015: CalWater Field Studies Designed to Quantify the Roles of Atmospheric Rivers and Aerosols in Modulating U.S. West Coast Precipitation in a Changing Climate. BAMS.
2. Zipori, A., Rosenfeld, D., Tirosh, O., Teutsch, N., & Erel, Y. (2015). Effects of aerosol sources and chemical compositions on cloud drop sizes and glaciation temperatures. *Journal of Geophysical Research: Atmospheres*.
3. Zheng Y., D. Rosenfeld, 2015: Linear relation between convective cloud base height and updrafts and application to satellite retrievals. GRL 2015.
4. Zhu Y., D. Rosenfeld, Xing Yu, Zhanqing Li. Separating aerosol microphysical effects and satellite measurement artifacts of the relationships between warm rain onset height and aerosol optical depth. JGR 2015.
5. Fan J., D. Rosenfeld, Y. Tang, C. Zhao, L. R. Leung, Z. Li, 2015: Substantial Contribution of Anthropogenic Air Pollution to the Catastrophic Floods in Southwest China. GRL 2015.
6. Goren T. and D. Rosenfeld, 2015: Extensive closed marine stratocumulus downwind of Europe – a large cloud radiative effect or forcing? *JGR Atmospheres* 120.12 (2015): 6098-6116.
7. Lynn, B., A. Khain, J. Bao, S. Michelson, T. Yulian, G. Kelman, D. Rosenfeld, J. Shpund, and N. Benmoshe, 2015: The sensitivity of Hurricane Irene to aerosols and ocean coupling: simulations with WRF spectral bin microphysics. *J. Atmos. Sci.* doi:10.1175/JAS-D-14-0150.1, in press.

8. Zheng, Y., Rosenfeld, D., and Li, Z., 2015: Satellite Inference of Thermals and Cloud-Base Updraft Speeds Based on Retrieved Surface and Cloud-Base Temperatures. *J. Atmos. Sci.*, **72**, 2411–2428. doi: <http://dx.doi.org/10.1175/JAS-D-14-0283.1>
9. Freud, E., H. Koussevitzky, T. Goren, D. Rosenfeld, 2015: Cloud microphysical background for the Israel-4 cloud seeding experiment. *Atmospheric Research* doi:10.1016/j.atmosres.2015.02.007
10. Gross, A., T., Goren, C. Pio, J. Cardoso, O. Tirosh, M. Todd, D. Rosenfeld, T. Weiner, D. Custódio, & A. Angert, 2015: Variability in sources and concentrations of Saharan dust phosphorus over the Atlantic Ocean. *Environmental Science & Technology Letter*, DOI: 10.1021/ez500399z.
11. Rosenfeld D., M. O. Andreae, A. Asmi, M. Chin, G. de Leeuw, D. P. Donovan, R. Kahn, S. Kinne, N. Kivekäs, M. Kulmala, W. Lau, S. Schmidt, T. Suni, T. Wagner, M. Wild, J. Quaas, 2014: Global observations of aerosol-cloud-precipitation-climate interactions. *Reviews of Geophysics*, DOI 10.1002/2013RG000441
12. Rosenfeld D., B. Fischman, Youtong Zheng, T. Goren, D. Giguzin, 2014: Combined satellite and radar retrievals of drop concentration and CCN at convective cloud base. *GRL*, DOI:10.1002/2014GL059453
13. Bookman R., S. Filin, Y. Avni, D. Rosenfeld, S. Marco, 2014: Possible connection between large volcanic eruptions and level rise episodes in the Dead Sea Basin. *Quaternary Science Reviews*, 89, 123-128. <http://dx.doi.org/10.1016/j.quascirev.2014.02.009>
14. Rosenfeld D., S. Sherwood, R. Wood, L. Donner, 2014: Climate Effects of Aerosol-Cloud Interactions. *Science*, 343, 379-380.
15. Zhu Y., D. Rosenfeld, X. Yu, G. Liu, J. Dai, X. Xu, 2014: Satellite retrieval of convective cloud base temperature based on the NPP/VIIRS Imager. *Geophys. Res. Lett.*, 41, doi:10.1002/2013GL058970.
16. Goren T., and D. Rosenfeld, 2014: Decomposing aerosol cloud radiative effects into cloud cover, liquid water path and Twomey components in marine stratocumulus. *Atmospheric Research*, 113, 378-393. <http://dx.doi.org/10.1016/j.atmosres.2013.12.008>
17. Rosenfeld D., Liu G., Yu X., Zhu Y., Dai J., Xu X., and Yue Z., 2014: High resolution (375 m) cloud microstructure as seen from the NPP/VIIRS Satellite imager, *Atmos. Chem. Phys.*, 14, 2479–2496, 2014. doi:10.5194/acp-14-2479-2014
18. Fan J., L. R. Leung, D. Rosenfeld, Q. Chen, Z. Li, J. Zhang, H. Yan, 2013: Microphysical effects determine macrophysical response for aerosol impacts on deep convective clouds. *Proceedings of the National Academy of Sciences*, 110(48), E4581-E4590.
19. Feingold G., A. McComiskey, D. Rosenfeld, A. Sorooshian, 2013: On the relationship between cloud contact time and precipitation susceptibility to aerosol. *Journal of Geophysical Research: Atmospheres* 118.18 (2013): 10-544.
20. Daniel Rosenfeld, Rei Chemke, Kimberly Prather, Kaitlyn Suski, Jennifer Comstock, Beat Schmid, Jason Tomlinson, Haflidi Jonsson, 2013: Polluting of Winter Convective Clouds upon transition from ocean inland Over Central California: Contrasting Case Studies. *Atmospheric Research*, 135, 112-127.

21. DeFelice T P; Joe Golden; Don Griffith; William Woodley; Danny Rosenfeld; Dan Breed; Mark Solak; Bruce Boe, 2013: Extra Area Effects of Cloud Seeding - An Updated Assessment Atmospheric Research, 2013.
22. Fan J., L. R. Leung, P. J. DeMott, J. M. Comstock, B. Singh, D. Rosenfeld, J. M. Tomlinson, A. White, K. Prather, P. Minnis, J. K. Ayers, Q. Min. Aerosol Impacts on California Winter Clouds and Precipitation during CalWater 2011: Local Pollution versus Long-Range Transported Dust. *ACP*, 14, 81–101, 2014. doi:10.5194/acp-14-81-2014.
23. Daniel Rosenfeld and Thomas Bell, 2013: "Reply to "Comment on 'Why do tornados and hailstorms rest on weekends?' by D. Rosenfeld and T. Bell"." *Journal of Geophysical Research: Atmospheres* 118.13 (2013): 7339-7343.
24. Daniel Rosenfeld, Rei Chemke, Paul DeMott, Ryan C. Sullivan, Roy Rasmussen, Frank McDonough, Jennifer Comstock, Beat Schmid, Jason Tomlinson, Haflidi Jonsson, Kaitlyn Suski, Alberto Cazorla, Kimberly Prather, 2013. The Common Occurrence of Highly Supercooled Drizzle and Rain near the Coastal Regions of the Western United States. *JGR*. DOI: 10.1002/jgrd.50529.
25. Amir Givati and D. Rosenfeld, 2013. The Arctic oscillation, Climate change and the effects on precipitation in Israel. *Atmospheric Research* 132–133 (2013) 114–124.
26. Creamean J. M., K. J. Suski, D. Rosenfeld, A. Cazorla, P. J. DeMott, R. C. Sullivan, A. B. White, F. M. Ralph, P. Minnis, J. M. Comstock, J. M. Tomlinson, and K. A. Prather, 2013: Dust and Biological Aerosols from the Sahara and Asia Influence Precipitation in the Western US. *Science*, Vol. 339 no. 6127 pp. 1572-1578. DOI: 10.1126/science.1227279
27. Nilton O. Rennó, Earle Williams, Daniel Rosenfeld, David G. Fischer, Jürgen Fischer, Tibor Kremic, Arun Agrawal, Meinrat O. Andreae, Rosina Bierbaum, Richard Blakeslee, Anko Boerner, Neil Bowles, Hugh Christian, Ann Cox, Jason Dunion, Akos Horvath, Xianglei Huang, Alexander Khain, Stefan Kinne, Maria C. Lemos, Joyce E. Penner, Ulrich Pöschl, Johannes Quaas, Elena Seran, Bjorn Stevens, Thomas Walati, Thomas Wagner, 2013: CHASER: An Innovative Satellite Mission Concept to Measure the Effects of Aerosols on Clouds and Climate. *Bull. Amer. Meteor. Soc*, May 2013.
28. Goren, T., and D. Rosenfeld, 2012: Satellite observations of ship emission induced transitions from broken to closed cell marine stratocumulus over large areas. *J. Geophys. Res.*, doi:10.1029/2012JD017981.
29. Rosenfeld D., Wang H., and Rasch P. J., 2012: The roles of cloud drop effective radius and LWP in determining rain properties in marine stratocumulus. *Geophys. Res. Lett.*, 39, L13801, doi:10.1029/2012GL052028, 2012.
30. Zipori A., Rosenfeld D., Shpund J., Steinberg D. M., and Erel Y., 2012: Targeting and impacts of AgI cloud seeding based on rain chemical composition and cloud top phase characterization, *Atmospheric Research* (2012), doi: 10.1016/j.atmosres.2012.05.023
31. Konwar M., R.S. Maheskumar, J. R. Kulkarni, E. Freud, B. N. Goswami and D. Rosenfeld, 2012: Aerosol control on depth of warm rain in convective clouds. *J. Geophys. Res.* 117, D13204, doi:10.1029/2012JD017585

32. Fan, J., D. Rosenfeld, Y. Ding, L. R. Leung, and Z. Li, 2012: Potential aerosol indirect effects on atmospheric circulation and radiative forcing through deep convection. *Geophys. Res. Lett.*, doi:10.1029/2012GL051851.
33. Rosenfeld D., Wood R., Donner L, Sherwood S., 2013: [Aerosol cloud-mediated radiative forcing: highly uncertain and opposite effects from shallow and deep clouds](#). In "Climate Science for Serving Society: Research, Modelling and Prediction Priorities", G. R. Asrar and J. W. Hurrell, Eds. Springer.
34. Rosenfeld D., E. Williams, M. O. Andreae, E. Freudl, U. Pöschl, and N. O. Rennó, 2012: The scientific basis for a satellite mission to retrieve CCN concentrations and their impacts on convective clouds. *Atmos. Meas. Tech.*, 5, 2039–2055, 2012, [www.atmos-meas-tech.net/5/2039/2012/](http://www.atmos-meas-tech.net/5/2039/2012/) doi:10.5194/amt-5-2039-2012.
35. Rosenfeld D., W.L. Woodley, A. Khain, W.R. Cotton, G. Carrió, I. Ginis, J.H. Golden, 2012: Aerosol effects on Microstructure and Intensity of Tropical Cyclones. *Bul. Amer. Meteor. Soc.*, 93, 2012, 987-1001.
36. Freud E., and D. Rosenfeld, 2012: Linear relation between convective cloud drop number concentration and depth for rain initiation. *J. Geophys. Res.*, 117, D02207, doi:10.1029/2011JD016457.
37. Li Z., F. Niu, J. Fan, Y. Liu, D. Rosenfeld and Y. Ding, 2011: Long-term impacts of aerosols on the vertical development of clouds and precipitation. *Nature Geoscience*, 2011, doi:10.1038/ngeo1313
38. Rosenfeld, D., X. Yu, G. Liu, X. Xu, Y. Zhu, Z. Yue, J. Dai, Z. Dong, Y. Dong, and Y. Peng (2011), Glaciation temperatures of convective clouds ingesting desert dust, air pollution and smoke from forest fires, *Geophys. Res. Lett.*, 38, L21804, doi:10.1029/2011GL049423, 2011.
39. Kulmala M. et al., 2011: General overview: European Integrated project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) – integrating aerosol research from nano to global scales. *Atmos. Chem. Phys. Discuss.*, 11, 17941–18160, 2011.
40. Freud E., D. Rosenfeld, and J. R. Kulkarni, 2011: Resolving both entrainment-mixing and number of activated CCN in deep convective clouds. *Atmos. Chem. Phys.*, 11, 12887-12900, doi:10.5194/acp-11-12887-2011.
41. Rosenfeld, D., and T. L. Bell (2011), Why do tornados and hailstorms rest on weekends?, *J. Geophys. Res.*, 116, D20211, doi:10.1029/2011JD016214.
42. Rosenfeld D., M. Clavner and R. Nirel, 2011: Pollution and dust aerosols modulating tropical cyclones intensities. *Atmospheric Research*, 102, 66-76.
43. William R. Cotton W.R., W. L. Woodley, I. Ginis, J.H. Golden, A. Khain , D. Rosenfeld, 2011: The rise and fall of HAMP. *Journal of Weather Modification*, 43, 89-96.
44. Khain, A., D. Rosenfeld, A. Pokrovskya, U. Blahakb and A. Ryzhkovc, 2011: The role of CCN in precipitation and hail in a mid-latitude storm as seen in simulations using a spectral (bin) microphysics model in a 2D dynamic frame. *Atmos. Res.* 99, 129-146.
45. Drofa A. S., V. N. Ivanov, D. Rosenfeld, and A. G. Shilin, 2010: Studying an effect of salt powder seeding used for precipitation enhancement from convective clouds. *Atmos. Chem. Phys.*, 10, 8011–8023, 2010, [www.atmos-chem-phys.net/10/8011/2010/](http://www.atmos-chem-phys.net/10/8011/2010/) doi:10.5194/acp-10-8011-2010

46. Rosenfeld D., D. Axisa, W.L. Woodley and R. Lahav, 2010: A Quest for Effective Hygroscopic Cloud Seeding. *Journal of Applied Meteorology and Climate*, 49, 1548-1562.
47. Bell, T. L., D. Rosenfeld, and K.-M. Kim, 2009: Weekly cycle of lightning: Evidence of storm invigoration by pollution. *Geophys. Res. Lett.*, 36, L23805, doi:10.1029/2009GL040915
48. Rosenfeld D., J. Peterson, A. Gingis, 2009: Comment on “Air pollution and precipitation suppression over SE Australia: critical review of evidence presented by Rosenfeld (2000) and Rosenfeld (2006)” by Greg Ayers. *Tellus*, **61B**, 694–700.
49. Kolodny Y., R. Calvo, D. Rosenfeld, 2009: "Too low"  $\delta^{18}\text{O}$  of paleo-meteoric, low latitude, water; do paleo-tropical cyclones explain it? *Paleogeography, Plaeoclimatology, Paleoecology* **280**, 387-395.
50. Givati A., D. Rosenfeld, 2009: Comment on Alpert P., N. Halfon, and Z. Levin, 2008: Does air pollution really suppress precipitation in Israel? *J. Appl. Meteor. Clima.*, **48**, 1733-1750.
51. Rosenfeld D., U. Lohmann, G.B. Raga, C.D. O’Dowd, M. Kulmala, S. Fuzzi, A. Reissell, M.O. Andreae, 2008: Flood or Drought: How Do Aerosols Affect Precipitation? *Science*, 321, 1309-1313.
52. Rosenfeld D., W.L. Woodley, D. Axisa, E. Freud, J.G. Hudson, A. Givati, 2008: Aircraft measurements of the impacts of pollution aerosols on clouds and precipitation over the Sierra Nevada. *J. Geophys. Res.*, 113, D15203, doi:10.1029/2007JD009544.
53. Bell T.L., D. Rosenfeld, 2008: Comment on “Weekly precipitation cycles? Lack of evidence from United States surface stations” by D. M. Schultz et al. *Geophys. Res. Lett.*, 35, L09803, doi:10.1029/2007GL033046.
54. Andreae M.O. and D. Rosenfeld, 2008: Aerosol–cloud–precipitation interactions. Part 1. The nature and sources of cloud-active aerosols. *Earth-Science Reviews* 89, (2008) 13–41.
55. Lensky, I. M. and Rosenfeld, D.: Clouds-Aerosols-Precipitation Satellite Analysis Tool (CAPSAT), *Atmos. Chem. Phys.*, 8, 8, 6739–6753, 2008.  
<http://www.atmos-chem-phys.net/8/6739/2008/acp-8-6739-2008.pdf>
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60. Rosenfeld, D., 2007: New insights to cloud seeding for enhancing precipitation and for hail suppression. *The Journal of Weather Modification*, **39**, 61-69.

61. Rosenfeld D., A. Khain, B. Lynn, W.L. Woodley, 2007: Simulation of hurricane response to suppression of warm rain by sub-micron aerosols. *Atmos. Chem. Phys.*, **7**, 3411-3424.  
<http://www.atmos-chem-phys.net/7/3411/2007/acp-7-3411-2007.pdf>
62. Freud, E., Ström, J., Rosenfeld, D., Tunved P., and Swietlicki E. Anthropogenic aerosol effects on convective cloud microphysical properties in southern Sweden. *Tellus* (2008), 60B, 286–297.
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74. D. Rosenfeld, W. L. Woodley, T. W. Krauss, V. Makitov, 2006: Aircraft Microphysical Documentation from Cloud Base to Anvils of Hailstorm Feeder Clouds in Argentina. *J. Appl. Meteor.*, **45**, 1261–1281, September 2006.
  75. **D. Rosenfeld**, Y. Kaufman, and I. Koren, 2006: Switching cloud cover and dynamical regimes from open to closed Benard cells in response to aerosols suppressing precipitation. *Atmos. Chem. Phys.*, **6**, 2503-2511.  
<http://www.atmos-chem-phys.net/6/2503/2006/acp-6-2503-2006.pdf>
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  80. Freud, E., Rosenfeld, D., Andreae, M. O., Costa, A. A., and Artaxo, P.: Robust relations between CCN and the vertical evolution of cloud drop size distribution in deep convective clouds, *Atmos. Chem. Phys.*, **8**, 1661-1675, 2008.  
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  82. Y. J. Kaufman, I. Koren, L. A. Remer, D. Rosenfeld, Y. Rudich, 2005: The effect of smoke, dust, and pollution aerosol on shallow cloud development over the Atlantic Ocean. *Proceedings of the National Academy of Sciences*, **102**, 11207-11212.
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#### BOOK CHAPTERS:

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