



银燕教授简介

银燕，男，1962年2月生，博士学位，教授。

一、教育与培训：

1996年3月至1999年10月：博士研究生，以色列特拉维夫大学地球物理和行星科学系

论文题目：On the Development of the Size Spectra of Precipitation

Particles in Natural and Seeded Convective Clouds

(自然和人工播撒对流云中降水粒子谱发展的研究)

导师：Zev Levin 教授和Shalva Tzivion 教授

1995年8月至1996年7月：以色列特拉维夫大学访问学者

1987年9月至1990年5月：硕士研究生，南京气象学院

论文题目：阻塞高压过程中谱能量的串级输送

导师：陈久康教授

1980年9月至1984年7月：南京气象学院本科生

二、工作经历：

2005年9月开始：教授，南京信息工程大学应用气象系

2004年1月至2005年8月：讲师(Lecturer)，英国威尔士大学阿波里斯特分校数理学院

(Institute of Mathematical and Physical Sciences, University

of Wales Aberystwyth, UK)

讲授课程：大气物理学、大气动力学、能源与环境、电磁学

1999年11月至2004年1月：研究员(Research Fellow)，英国利兹大学环境学院大气科学

研究所(Institute for Atmospheric Science, School of the Environment,

University of Leeds, UK)

研究方向：对流云输送对对流层顶大气成分的影响，气溶胶(包括沙尘粒子)-云-

大气化学相互作用及其对云宏观结构的反馈作用

1996年3月至1999年10月：研究助理(Research Assistant)，以色列特拉维夫大学地球

物理和行星科学系

1996年1月至1997年7月：高级工程师，内蒙古自治区气象研究所

1991年1月至1995年12月：工程师，内蒙古自治区气象研究所

1984年8月至1990年12月：助理工程师，内蒙古自治区气象局

三、科研项目：

英国自然环境基金委(NERC)项目“ACTIVE(Aerosol and chemical transport in tropical convection)”(2005-2008)的子项目主持人。

欧共体项目“PARTS(Particles in the upper troposphere and lower stratosphere)”(2002-2005)的主要完成人。

欧共体项目“TROCCINOX”(2003-2006)的主要参加者。

英国自然环境基金委(NERC)UTLS-OZONE主题项目“Aerosols and trace gases entering the upper troposphere and lower stratosphere through deep convection”(1999-2002)的主要完成人。

国家自然科学基金项目“人工播撒催化物的扩散”的主要参加者。

四、 其它与学术有关的活动和经历:

专业杂志审稿: Atmospheric Chemistry and Physics

Journal Geophysical Research

Geophysical Research Letters

Journal of Applied Meteorology

审阅美国国家研究基金委NSF和荷兰国家地球和生命科学基金委NOW项目申请书

合作召集和主持:

- EGS-AGU-EGU 2003 Assembly Sessions AS18 和WS2

- EGU 2004、2005 Assembly Session AS3.04

2000-2002年利兹大学环境学院内部系列学术讲座召集人

合作指导博士生: Gerard Devine, Hugo Recketts

五、 获奖情况:

1995-1996: 中国政府留学基金

1998: 以色列特拉维夫大学地球物理和行星科学系Shimon Carnavitz Miriam

Pustenberg 优秀学生奖

1985-1995期间获得内蒙古气象局和国家气象局奖励十数项

六、 近期发表学术论文:

Levin, Z., A. Teller, E. Ganor and Y. Yin, 2005: On the interactions of mineral dust, sea salt particles and clouds: A case study from the MEIDEX campaign, J. Geophys. Res., 已接受。

Cui, Z., K. S. Carslaw, and Y. Yin, 2005: A numerical study of aerosol effects on the dynamics and microphysics of a deep convective cloud in a continental environment, J. Geophys. Res., 已接受。

Yin, Y., K. S. Carslaw, and G. Feingold, 2005: Vertical transport and processing of aerosols in a mixed-phase convective cloud and the feedback on cloud development. Q. J. R. Meteorol. Soc., 131, 221-246.

Yin, Y., S. D. Wurzler, Z. Levin, and T. G. Reisin, 2002: Interactions of mineral dust particles and clouds: Effects on precipitation and cloud optical properties. J. Geophys. Res., 107(D23), 4724, doi:10.1029/2001JD001544.

Yin, Y., K. S. Carslaw, and D. J. Parker, 2002: Redistribution of trace gases by convective clouds -- mixed-phase processes. Atmos. Chem. Phys., 2, 293-306.

Yin, Y., D. Parker, and K. Carslaw, 2001: Simulation of trace gas redistribution by convective clouds -- Liquid phase processes. Atmos. Chem. Phys., 1, 19-36.

Levin, Z., S. D. Wurzler, E. Ganor, Y. Yin, and A. Teller, 2001: On the modification of mineral dust particles based on their path of transport and the effect on mixed phase cloud and precipitation. Journal of Aerosol Science, 32, S201-S202.

Yin, Y., Z. Levin, T. G. Reisin and S. Tzivion, 2001: The response of radar-derived properties to

hygroscopic flare seeding. *J. Appl. Meteor.*, 40, 1654-1661.

Yin, Y., Z. Levin, T.G. Reisin, and S. Tzivion, 2000: Seeding convective clouds with hygroscopic flares: Numerical simulations using a cloud model with detailed microphysics. *J. Appl. Meteor.*, 39, 1460-1472.

Yin, Y., Z. Levin, T.G. Reisin, and S. Tzivion, 2000: The effects of giant cloud condensation nuclei on the development of precipitation in convective clouds --- A numerical study. *Atmos. Research*, 53, 91-116.

Yin, Y., T. G. Reisin, S. D. Wurzler, and Z. Levin, 2000: Modification of the size and composition of CCN by cloud processing of mineral dust particles and the effects on cloud microphysics. *Proceeding of 12th International Conference on Clouds and Precipitation*, Reno, Nevada, USA, 21-25 August 2000. 936-939.

Yin, Y., 1999: On the evolution of the size spectra of precipitation particles from natural and seeded convective clouds. PhD thesis, Department of Geophysics and Planetary Sciences, Tel Aviv University, Israel.

Yin, Y., Z. Levin, T.G. Reisin, and S. Tzivion, 1999: A numerical evaluation of seeding with hygroscopic flares: sensitivity to seeding time, seeding height, seeding amounts, size of particles and environmental shear. *Proceeding of 7th WMO Scientific Conference on Weather Modification*, Chiang Mai, Thailand, 69-72.

Levin, Z., Y. Yin, T.G. Reisin, and S. Tzivion, 1999: Comparison of the effects of hygroscopic and glaciogenic seeding on the evolution of spectra of cloud and precipitation particles in convective clouds: A numerical study. *Proceeding of 7th WMO Scientific Conference on Weather Modification*, Chiang Mai, Thailand, 73-74

Reisin, T., Y. Yin, Z. Levin, and S. Tzivion, 1998: Development of giant drops and high reflectivity cores in Hawaiian clouds: Numerical simulations using a kinematic model with detailed microphysics. *Atmos. Research*, 45, 275-297.

Yin, Y., Z. Levin, T.G. Reisin, and S. Tzivion, 1998: The South African seeding experiment: Numerical simulations on the sensitivity to particles spectra. *Proceeding of 14th Conf. On Planned and Inadvertent Weather Modification*, Everett, Washington, USA, 604-607.

Yin, Y., Z. Levin, T.G. Reisin, and S. Tzivion, 1998: Model simulation of the effect of cloud seeding on the evolution of radar-measured properties. *Proceeding of 14th Conf. on Planned and Inadvertent Weather Modification*, Everett, Washington, USA, 630-631.

Yin, Y., Z. Levin, T.G. Reisin, and S. Tzivion, 1998: On the influence of the size distribution of cloud condensation nuclei on the development of cloud and precipitation. *Proceeding of American Meteorological Society Conference on Cloud Physics*, Everett, Washington, USA, 530-533.

Reisin, T.G., Z. Levin, S. Tzivion, and Y. Yin, 1998: Numerical simulations of the formation of giant drops in Hawaiian clouds using a kinematic model with detailed microphysics. *Proceeding of American Meteorological Society Conference on Cloud Physics*, Everett, Washington, USA, 502-503.

Reisin, T., Y. Yin, Z. Levin, and S. Tzivion, 1996: Numerical simulations of the microphysical structure of Hawaiian clouds: Results for an idealized parcel model and a kinematic model

with detailed microphysics. `4th International Cloud Modeling Workshop, Clermont

Ferrand, France 12-16 August 1996, WMP report series 29, 13-18.

银燕, 达布和申乙鸣, 1996: 风速切变对垂直线源播撒物扩散的影响, 北京气象学院学报, 第11期。

申乙鸣, 周林和银燕, 1996: 层状云的湍流扩散, 北京气象学院学报, 第11期。

国际会议报告(部分):

1. Reisin, T., Y. Yin, Z. Levin, and S. Tzivion, 1996: Numerical simulations of the microphysical structure of Hawaiian clouds: results for an idealized parcel model and a kinematic model with detailed microphysics. `4th International Cloud Modeling Workshop, Clermont Ferrand, France 12-16 August 1996.
2. Yin, Y., Z. Levin, S. Tzivion, and T. Reisin, 1997: On the sensitivity of the size distribution of cloud condensation nuclei on the development of cloud and precipitation. `Research Workshop of the Israeli Science Foundation on Trends and Advances in Numerical Modeling of Clouds and Precipitation, Kibbutz Ginosar, November 17-20, 1997, Israel.
3. Yin, Y., Z. Levin, S. Tzivion, and T. Reisin, 1997: A numerical study of the influence of the size distribution of cloud condensation nuclei on the development of cloud and precipitation. `Israeli Association for Aerosol Research Eleventh Annual Meeting, Technion, Haifa, December 29 1997 Israel.
4. Yin, Y., Z. Levin, T.G. Reisin, and S. Tzivion, 1998: The South African seeding experiment: numerical simulations on the sensitivity to particles spectra. `14th Conf. on Planned and Inadvertent Weather Modification, Everett, Washington, USA.
5. Yin, Y., Z. Levin, T.G. Reisin, and S. Tzivion, 1998: Model simulation of the effect of cloud seeding on the evolution of radar-measured properties. `14th Conf. on Planned and Inadvertent Weather Modification, Everett, Washington, USA.
6. Yin, Y., Z. Levin, T.G. Reisin, and S. Tzivion, 1998: On the influence of the size distribution of cloud condensation nuclei on the development of cloud and precipitation. `American Meteorological Society Conference on Cloud Physics, Everett, Washington, USA.
7. Reisin, T.G., Z. Levin, S. Tzivion, and Y. Yin, 1998: Numerical simulations of the formation of giant drops in Hawaiian clouds using a kinematic model with detailed microphysics. `American Meteorological Society Conference on Cloud Physics, Everett, Washington, USA.
8. Yin, Y., Z. Levin, T.G. Reisin, and S. Tzivion, 1999: A numerical evaluation of seeding with hygroscopic flares: sensitivity to seeding time, seeding height, seeding amounts, size of particles and environmental shear. `7th WMO Scientific Conference on Weather Modification, Chiang Mai, Thailand.
9. Levin, Z., Y. Yin, T.G. Reisin, and S. Tzivion, 1999: Comparison of the effects of hygroscopic and glaciogenic seeding on the evolution of spectra of cloud and precipitation particles in convective clouds: A numerical study. `7th WMO Scientific Conference on Weather Modification, Chiang Mai, Thailand.
10. Yin, Y., D. Parker, and K. Carslaw, 2000: The venting of trace gases and aerosols by deep

convective clouds. XXV General Assembly of the European Geophysical Society, Nice, France, 25-29 April 2000.

11. Yin, Y., T. G. Reisin, S. D. Wurzler, and Z. Levin, 2000: Modification of the size and composition of CCN by cloud processing of mineral dust particles and the effects on cloud microphysics. ICCP 2000, Reno, Nevada, USA, 21-25 August 2000.

12. Yin, Y., D. Parker, and K. Carslaw, 2001: A numerical study of the redistribution of trace gases by deep convective clouds. XXVI General Assembly of the European Geophysical Society, Nice, France, 25-30 March 2001.

13. Yin, Y., D. Parker, and K. Carslaw, 2001: On the venting of aerosols and trace gases by mixed-phase convective clouds -- A numerical study using a cloud model with detailed microphysics and chemistry. IAMAS2001 Assembly, Innsbruck, Austria, 10-18 July 2001.

14. Levin, Z., S. D. Wurzler, E. Ganor, Y. Yin, and A. Teller, 2001: On the modification of mineral dust particles based on their path of transport and the effect on mixed phase cloud