Academician Pao-Kuan Wang 王寶貫院士

Distinguished Visiting Chair
Research Center for Environmental Changes, Academia Sinica
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Education

Ph.D.(Atmospheric Sciences), 1978 -- University of California-Los Angeles
M.S.(Atmospheric Sciences), 1975 -- University of California-Los Angeles
B.S.(Atmospheric Sciences), 1971 -- National Taiwan University

Professional Society Membership

American Meteorological Society
American Geophysical Union
European Geophysical Union

Employment

2021-Date	Visiting Distinguished Chair Professor, Dept. of Aeronautics and Astronautics, National Cheng Kung University
2020-Date	Distinguished Visiting Chair, RCEC, AS
2013-2019	Director and Distinguished Research Fellow, Research Center for Environmental Changes, Academia Sinica
1988-2016	Professor, University of Wisconsin-Madison
1984-1988	Associate Professor, University of Wisconsin-Madison
1980-1984	Assistant Professor, University of Wisconsin-Madison
1980	Adjunct Assistant Professor, UCLA
1978-1980	Research Atmospheric Physicist, UCLA
1973-1978	Graduate Research Meteorologist, UCLA

University Administrative Positions

Chairman, Air Resources Management Program, UW-Madison (1998-2002)
Chairman, Fellowship Committee (Physical Sciences Division), UW-Madison (1997-2002)
Chairman, Dept. of Atmospheric and Oceanic sciences, UW-Madison (1994-1997)
Associate Chair, Undergrad. Affairs, Dept. of Meteorology, UW-Madison (1990-1992)

Associate Chair, Graduate Affairs, Dept. of Meteorology, UW-Madison (1986-1988)

Professional Associations

Advisory Committee, Research Center for Environmental Change, Academia Sinica

Principal Lecturer, EUMETSAT Deep Convective Storms Workshop, Istanbul, Turkey (May 2012)

Principal Lecturer, EUMETSAT Deep Convective Storms Workshop, Prague, Czech Republic (August 2010)

Research Chair Professor, National Taiwan University (summer 2005, 2007, 2008)

Chairman, Cloud Physics Committee, American Meteorological Society (1991-1993)

Visiting Professor, UCLA (Spring 1988)

Visiting Professor, J. Gutenberg University of Mainz-Germany (Spring 1993)

Visiting Professor, National Taiwan University (Fall 1993)

Visiting Professor, MIT (Fall 1997)

Visiting Professor, University of Ferrara-Italy (2001)

Visiting Professor, Max-Planck Institute for Chemistry-Germany (2003)

Advisory Committee, Interactions in Cosmic and Atmospheric Particle Systems (ICAPS), European Space Agency

Advisory Committee, Research Center of Ocean Margin (RCOM), University of Bremen, Germany

Advisory Committee, Center for Marine Environmental Sciences (MARUM), University of Bremen, Germany

Panelist, NSF Major Research Instrumentation Program

Panelist, EPA Scientific Review Panel - Atmospheric Physics & Chemistry (since 1982)

U.S. delegation, US-China Cooperation Program for Climate Studies, 1987.

NOAA Review Panel for Weather Modification Program

Technical Consultant (filtration technology), Nelson Industries/Fleetguard-Cummins Filtration

Editorship

Associate Editor, *Atmospheric Research*

Editor, *European Physical Journal Plus*

Editor (Geophysics), *Il Nuovo Cimento C*

International Advisory Board, *Terrestrial, Atmospheric and Oceanic Sciences*

Editorial advisory board, Versita Publishing (*Environmental Studies*), UK

Consulting Editor, McGraw-Hill *Encyclopedia of Science and Technology*

Awards and Honors

Samuel C. Johnson Distinguished Fellowship, 1992

Teaching Excellence, Dept. of Meteorology, UW-Madison, 1992

Alexander von Humboldt Senior Research Award (Germany), 1993

Fellow, American Meteorological Society, 2005

Fellow, Taiwan (ROC) Meteorological Society, 2008

Academician, Academia Sinica, Taiwan (ROC), 2018

中國時報 1996 開卷十大好書（天與地，牛頓出版）, 1996

第一屆吳大猷科普著作獎佳作（洞察，天下文化）, 2002

行政院新聞局金鼎獎佳作（洞察，天下文化）, 2002

行政院新聞局金鼎獎佳作（微塵大千，經典雜誌）, 2005

Publications

Books

1. Wang, Pao K., 2002: Ice Microdynamics. *Academic Press*, 273pp.
2. Wang, Pao K., 2013: Physics and Dynamics of Clouds and Precipitation. *Cambridge University Press,* 467pp.
3. Wang, Pao K., 2021: Motions of Ice Hydrometeors in the Atmosphere Numerical Studies and Implications. *Springer Nature,* 176 pp. (ISBN 978-981-334-431-0)

Book Chapters

1. Wang, Pao K., 1985: Air Pollutant Measurements. Chap. 22 in *Handbook of Applied Meteorology*, Houghton, D. D., ed., *Wiley Interscience,* 667-678.
2. Wang, Pao K. and Zhang, De'er, 1991: Reconstruction of the 18th Century Precipitation of Nanjing, Suzhou, and Hangzhou using the Clear and Rain Records. in Climate Since 1500 AD, Bradley R. S. and Jones, P. D., Eds., *Routledge, London,* 184-209.
3. Winkler, M. and Wang, Pao K., 1994: The late Pleistocene and Holocene climate of China: A Review of Biogeologic Evidence and a Comparison with GCM Climate Simulations. in *Global Climates Since Last Glacial Maximum*, Wright et al., eds, *Univ. of Minnesota Press,* 221-264.
4. Wang, Pao K., 2003: Acid Rain and Precipitation Chemistry. *Encyclopedia of Water Science*, Marcel-Dekker.
5. Wang, Pao K., 2004: Atmospheric Water Vapor. McGraw-Hill Y*ear Book of Science & Technology, 2004*, 14-16. McGraw-Hill.
6. Wang, Pao K., 2005: Isentropic Modeling of Atmospheric Motions. in *2005 Yearbook of Science and Technology,* McGraw-Hill (in press)
7. Wang, Pao K., 2007: The Wisconsin Dynamical/Microphysical Model (WISCDYMM) and the Use of It to Interpret Satellite-observed Storm Dynamics, in *Measuring Precipitation from Space EURAINSAT and the Future.* Edited by Levizzani, V., Bauer, Peter and Turk, F. J., *Springer,* 435-446.

8. Wang, Pao K., 2009: Jumping Cirrus above Severe Storms. In *2009 Yearbook of Science and Technology, McGraw-Hill,* 187-190.

9. Wang, Pao K., Lin, Hsinmu, Liu, Hui-Chun, Mihai, Chiruta and Schlesinger, Robert E. 2009: Recent Advances in Research on Micro- to Storm-scale Ice Microphysical Processes in Clouds. In *Recent Progress in Atmospheric Sciences*, Liou, K. N. and Chou, M. D., Ed., 419-437.

Papers Published in Refereed Journals

1. Wang, Pao K. and Pruppacher, H. R., 1977a: Acceleration to Terminal Velocity of Cloud and Rain Drops. *J. Appl. Meteor., 16*, 275-280.

2. Wang, Pao K. and Pruppacher, H. R.,1977b: An Experimental Determination of the Efficiency with which Aerosol Particles Are Collected by Water Drops in Subsaturated Air. *J. Atmos. Sci., 34*, 1664-1669.

3. Wang, Pao K., Grover S. N. and Pruppacher, H. R., 1978: On the Effect of Electric Charges on the Scavenging of Aerosol Particles by Cloud and Small Rain Drops. *J. Atmos. Sci., 35*, 1735-1743.

4. Wang, Pao K., 1979a: Particular Solutions to the Steady-state Diffusion Equation and their Application to Aerosol Scavenging Problems. *Papers Meteor. Res., 2,* 37-42.

5. Wang, Pao K., 1979b: Meteorological Records from Ancient Chronicles of China. *Bull. Amer. Meteor. Soc., 60*, 313-317.

6. Martin, J. J., Wang, Pao K. and Pruppacher, H. R., 1980a: On the Efficiency with Which Aerosol Particles of Radius Larger than 0.1 Micron are Collected by Simple Ice Plates. *Pure Appl. Geophys., 118*, 1109-1129.

7. Martin, J. J., Wang, Pao K. and Pruppacher, H. R., 1980b: A Theoretical Determination of the Efficiency with Which Aerosol Particles Are Collected by Simple Ice Plates. *J. Atmos. Sci., 37*, 1628-1638.

8. Martin, J. J., Wang, Pao K. and Pruppacher, H. R., 1980c: A Theoretical Study of the Effect of Electric Charges on the Efficiency with which Aerosol Particles Are Collected by Ice Crystal Plates. *J Colloid Interf. Sci., 78*, 44-56.

9. Wang, Pao K., 1980: On the Possible Relationship between Winter Thunder and Climatic Changes in China over the Past 2,200 years. *Climatic Change, 3*, 37-46.

10. Wang, Pao K., 1980b: A Special Solution of the Classical Diffusion Equation for Fully Ionized Plasma. *IEEE Trans. Plasma Sci., PS-8,* 227-228.

11. Wang, Pao K. and Siscoe, G. L.,1980: The Ancient Chinese Observations on the Physical Phenomena Attending Total Solar Eclipse. *Solar Phys., 66*, 187-193.

12. Wang, Pao K. and Pruppacher, H. R., 1980a: The Effect of an External Eelectric Field on the Scavenging of Aerosol Particles by Clouds and Small Rain Drops. *J. Coll. Interf. Sci., 75*, 286-297.

13. Wang, Pao K. and Pruppacher, H. R., 1980b: On the Efficiency with Which Aerosol Particles of Radius Less Than One Micron Are Collected by Columnar Ice Crystals. *Pure Appl. Geophys., 118*, 1090-1108.

14. Walcek, C., Wang, Pao K., Topalian, J. H., Mitra, S. K. and Pruppacher, H. R. 1981: An Experimental Test of a Ttheoretical Model Designed to Determine the Rate at which Freely Falling Water Drops Scavenge SO2 in Air. *J. Atmos. Sci., 38*, 871-876.

15. Martin, J. J., Wang, Pao K., Pruppacher H. R. and Pitter, R. L., 1981: A Numerical Study of the Effect of Electric Charges on the Efficiency with which Planar Ice Crystals Collect Supercooled Water Drops. *J. Atmos. Sci., 38*, 2462-2469.

16. Wang, Pao K., 1982: Mathematical Description of the Shape of Conical Hydrometeors. *J. Atmos. Sci.*, *39*, 2615-2622.

17. Wang, Pao K. and Chu, J. H., 1982: Some Unusually Lightning Events Reported in Ancient Chinese Literature. *Weatherwise, 35*, 119-122.

18. Wang, Pao K., 1983a: On the Definition of Collision Efficiency of Atmospheric Particles. *J. Atmos. Sci., 40*, 1051-1052.

19. Wang, Pao K., 1983b: Collection of Aerosol Particles by Conducting Spheres in an External Electric Field - Continuum Regime Approximation. *J. Coll. Interf. Sci., 94*, 301-318.

20. Wang, Pao K. and Denzer, S. M., 1983: Mathematical Description of the Shape of Plane Hexagonal Snow Crystals. *J. Atmos. Sci., 40*, 1024-1028.

21. Wang, Pao K., 1984: An Investigation of the Relationship between Climatic Conditions and the Occurrence of Flying Locusts Infestation in China in Historical Time. *Abst. 10th Int. Congress Biometeor.,* Tokyo, Japan, July 26-30, 1984, 246.

22. Wang, Pao K., 1984: An Eulerian Variational Principle for Atmospheric Motions in Rotating Coordinates. *Atmosphere-Ocean, 22*, 387-392.

23. Wang, Pao K., 1984: Calculation of the Electrostatic Field Surrounding Finite Circular Cylindrical Conductors. IEEE Trans. *Atenna Propag., AP-32*, 956-962.

24. Rasmussen, R., C. Walcek, H. R., Pruppacher, S., Lew, Mitra, J., Levizzani, V., Wang, Pao K. and Barth, U., 1985: A Wind Tunnel Investigation of the Effect of an External, Vertical Electric Field on the Shape of Electrically Uncharged Rain Drops. *J. Atmos. Sci., 42*, 1647-1652.

25. Wang, Pao K., 1985: Air Pollutant Measurements. in *Handbook of Applied Meteorology*, D. D. Houghton, Ed., Chap.22, 667-678. Wiley Interscience, New York.

26. Wang, Pao K., 1985a: A Potential and Stream Function Analysis of Two-dimensional Steady-state Convective Diffusion Equations Involving Laplace Fields. *Int. J. Heat Mass Transfer, 28*, 1089-1095.

27. Wang, Pao K., 1985b: A Convective Diffusion Model for the Scavenging of Submicron Particles by Snow Crystals of Arbitrary Shapes. *J. de Rech. Atmos., 19*, 185-191.

28. Wang, Pao K., 1985c: Brownian Diffusion of Charged Fine Particles Surrounding a Conducting Cylinder in the Presence of an External Electric Field. *J. Aerosol Sci., 17*, 201-209.

29. Wang, Pao K., Chuang, C. H. and Miller, N. L., 1985: Electrostatic, Temperature and Vapor Density Fields Surrounding Stationary Columnar Ice Crystals. *J. Atmos. Sci., 42*, 2371-2379.

30. Wang, Pao K., 1987: Two Dimensional Characterizations of Polygonally Symmetric Particles. *J. Colloid Interf. Sci., 117*, 271-281.

31. Wang, Pao K., Greenwald T. J. and Wang, Jianlu, 1987: A Three Parameter Representation of the Shape and Size Distributions of Hailstones - A Case Study. *J. Atmos. Sci., 44*, 1062-1070.

32. Wang, Pao K., 1988: A Convective Diffusion Model for the Scavenging of Submicron Particles by Snow Crystals of Arbitrary Shapes- some Comments and Corrections. *Atmos. Res. 23*, 195-198.

33. Wang, Pao K. and Zhang, De'er, 1988: An Introduction of some Historical Governmental Weather Records in the 18th and 19th centuries of China. *Bull. Amer. Meteor. Soc., 69,* 753-758.

34. Wang, Pao K., with COHMAP Members, 1988: Climatic Changes of the Last 18,000 years: Observations and Model Simulations. *Science, 241,* 1043-1052.

35. Ji, Wusheng and Wang, Pao K., 1989: Numerical Simulation of Three Dimensional Unsteady Viscous Flow Past Hexagonal Ice Crystals in the Air-Preliminary Results. *Atmos. Res. 25,* 539-557

36. Miller, N. L. and Wang, Pao K., 1989: A Theoretical Determination of the Efficiency with which Aerosol Particles are Collected by Falling Columnar Ice Crystals. *J. Atmos. Sci., 46*, 1656-1663.

37. Peng, G. and Wang, Pao K., 1989: Influence of the Antarctic Sea-ice on the Northwest Pacific Subtropical High and its Ocean-atmosphere Circulation Background. *Kexue Tongbao, 1989*, *1*, 56-58.

38. Sauter, D. P. and Wang, Pao K., 1989: An Experimental Study of the Scavenging of Aerosol Particles by Natural Snow Crystals. *J. Atmos. Sci., 46,* 1650-1655.

39. Zhang, De'er and Wang, Pao K., 1989: Reconstruction of the 18th Century Summer Precipitation Series of Nanjing, Suzhou, and Hangzhou using the Clear and Rain Records of Qing Dynasty. *Acta Meteor. Sinica, 3,* 261-278.

40. Wang, Pao K. and Zhang, De'er, 1990: Use of Historical Documents of China to Reconstruct Past Climate. *World Resource Rev., 2*, 1-14.

41. Ji, W. and Wang, Pao K., 1991: Numerical Simulation of Three-dimensional Unsteady Viscous Flow Past Finite Cylinders in an Unbounded fluid at Low Intermediate Reynolds Numbers. *Theor. Compu. Fluid Dynam*., *3,* 43-59.

42. Miller, N. L. and Wang, Pao K., 1991: Comparison of the Efficiencies with which Aerosol Particles are collected by Planar and Columnar Ice Crystals. *Atmos. Environ., 25A*, 2593-2606.

43. Wang, Pao K. and Zhang, De'er, 1991: Reconstruction of the 18th Century Precipitation of Nanjing, Suzhou, and Hangzhou Using the Clear and Rain Records.

in *Climate Since 1500 AD*, Bradley, R. S. and Jones, P. D., *Eds., Routledge, London,* 184-209.

44. Wang, Pao K. and Jaroszczyk, T., 1991: The Grazing Collision Angle of Aerosol Particles Colliding with Infinitely Long Circular Cylinders, *Aerosol Sci. Tech.*, *15,* 149-155.

45. Zhang, De'er and Wang, Pao K., 1991: A Study on the Reconstruction of the 18th Century Meiyu (plum rains) Activity of Lower Changjiang (Yangtze) Region of China. *Science in China (B), 34,* 1237-1245.

46. Wang, Pao K., 1992: Theoretical Studies on the Convective Diffusion around Two- and Three-dimensional Objects. *Trends in Heat and Mass Transfer, 2, J. Menon,* ed., 173-186.

47. Wang, Pao K. and Zhang, De'er, 1992: Recent Studies of the Reconstruction of East Asian Monsoon Climate in the Past Using Historical Literature of China. *J. Meteor. Soc. Japan, 70*, 423-446.

48. Johnson, D. E., Wang, Pao K. and Straka, J. M., 1993: Numerical Simulation of the 2 August 1981 CCOPE Supercell Storm with and without Ice Microphysics. *J. Appl. Meteor., 32*, 745-759.

49. Winkler, M. and Wang, Pao K., 1994: The Late Pleistocene and Holocene Climate of China: A Review of Biogeologic Evidence and a Comparison with GCM Climate Simulations. in *Global Climates Since Last Glacial Maximum, Wright et al., eds, Univ. of Minnesota Press*, 221-264.

50. Johnson, D. E. and Wang, Pao K. and J. M. Straka, 1995: A Study of Microphysical Processes in the 2 August 1981 CCOPE Supercell Storm. *Atmos. Res. 33*, 93-123.

51. Magradze, G. J. and Wang, Pao K., 1995: A Note on the Closed-form Mathematical Description of the Volume of Conical Hydrometeors. *Atmos. Res. 39*, 275-278.

52. Wang, Pao K. and G. L. Siscoe, 1995: Some Early Descriptions of Aurorae in China. *Annal. Geophis., 13,* 517-521

53. Wang, Pao K. and Lin, Ho, 1995: Comparison between the Collection Efficiency of Aerosol Particles by Individual Water Droplets and Ice Crystals in a Subsaturated Atmosphere. *Atmos. Res. 38*, 381-390.

54. Liu, G. Z. and Wang, Pao K., 1996: Numerical Investigation of Viscous Flow Fields around Multi-fiber Filters. *Aerosol Sci. and Tech*., *25*, 375-391.

55. Liu, G. Z. and Wang, Pao K., 1997: Pressure Drop and Interception Efficiency of Multi-fiber Filters. *Aerosol Sci. and Tech*., *25*, 375-391.

56. Lin, Hsin-Mu and Wang, Pao K., 1997: A Numerical Study of Microphysical Processes in the 21 June 1991 Northern Taiwan Mesoscale Precipitation System. *Terres. Atmos. Oceanic Sci*., *8*, 385-404.

57. Wang, Pao K., 1997: Characterization of Ice Particles in Clouds by Simple Mathematical Expressions Based on Successive Modification of Simple Shapes. *J. Atmos. Sci. 54*, 2035-2041.

58. Wang, Pao K. and Ji, Wusheng, 1997: Simulation of Three-dimensional Unsteady Flow Past Ice Crystals *J. Atmos. Sci., 54*, 2261-2274.

59. Ji, Wusheng and Wang, Pao K., 1998: On the Ventilation Coefficients of Falling Ice Crystals at Low-intermediate Reynolds Numbers. *J. Atmos. Sci*., *56*, 829-836.

60. Wang, Pao K., 1999: Three-dimensional Representations of Hexagonal Ice Crystals and Hail Particles of Elliptical Cross-sections, *J. Atmos. Sci*., 56, 1089-1093.

61. Wang, Pao K. and Ji, Wusheng, 2000: Collision Efficiencies of Ice Crystals at Low-Intermediate Reynolds Numbers Colliding with Supercooled Cloud Droplets: A Numerical Study. *J. Atmos. Sci*., 57, 1001-1009.

62. Wang, Pao K., 2002**:** Shape and Microdynamics of Ice Particles and Their Effects in Cirrus Clouds. Invited monograph in *Advances in Geophysics*, Vol**.** *45*, Academic Press, 1-265.

63. Wang, Pao K., 2002: The Kansas Green Thunderstorm of 4 October 1998. *Bull. Amer. Meteor. Soc*., *83*, 355-357.

64. Chiruta, M. and Wang, Pao K., 2003: On the Capacitance of Bullet Rosette Crystals. *J. Atmos. Sci*., *60*, 836-846.

65. Liu, H. C., Wang, Pao K. and R. E. Schlesinger, 2003a: A Numerical Study of Cirrus Clouds. Part I: Model Description. *J. Atmos. Sci*., *60*, 1075-1084.

66. Liu, H. C., Wang, Pao K. and R. E. Schlesinger, 2003b: A Numerical Study of Cirrus Clouds. Part II: Effects of Ambient Temperature and Stability on Cirrus Evolution. *J. Atmos. Sci*., *60*, 1097-1119.

67. Wang, Pao K., 2003: Moisture Plumes above Thunderstorm Anvils and Their Contributions to Cross Tropopause Transport of Water Vapor in Midlatitudes. *J. Geophys. Res., 108*(D6), 4194, doi: 10.1029/2003JD002581, 2003.

68. Wang, Pao K. 2004: A Cloud Model Interpretation of Jumping Cirrus above Storm Top, *Geophys. Res. Lett.*, *31,* L18106, doi:10.1029/2004GL020787

69. Chiruta, M., and Wang, Pao K., 2005: The Capacitance of Solid and Hollow Hexagonal Ice Columns. *Geophys. Res. Lett., VOL. 32*, L05803, doi:10.1029/2004GL021771, 2005.

70. Lin, Hsin-mu, Wang, Pao K. and Schlesinger, Robert E., 2005: Three-Dimensional Nonhydrostatic Simulations of Summer Thunderstorms in the Humid Subtropics versus High Plains. *Atmos. Res., 78,* 103-145.

71. Wang, Pao K., 2005: The Wisconsin Dynamical/ Microphysical Model (WISCDYMM) and the Use of It to Interpret Satellite-observed Storm Dynamics., in *MEASURING PRECIPITATION FROM SPACE EURAINSAT AND THE FUTURE.* Edited by Levizzani, V., et al., bibl. (in press by Kluwer Academic Publishers)

72. Setvak, M., Robin, R. M. and Wang, Pao K., 2007: Contribution of MODIS Instrument to the Observations of Deep Convective Storms and Stratospheric Moisture Detection in GOES and MSG Imagery (accepted for publication in *Atmospheric Research*)

73. Wang, Pao K. 2007: The Thermodynamic Structure atop a Penetrating Convective Thunderstorm. *Atmospheric Research*, *83*, 254-262.

74. Setvak, M., Lindsey, D. T., Rabin R. and Wang, Pao K., 2008: Indication of Water Vapor Transport into the Lower Stratosphere above Midlatitude Convective Storms: Meteosat Second Generation Satellite Observations and Radiative Transfer Model Simulations, *Atmos. Res., 89*, 170-180.

75. Chen, Chiou-Jiu and Wang, Pao K., 2009: Diffusion Growth of Solid and Hollow Hexagonal Ice Columns. *Il Nuovo Cimento, 124,* 87-97.

76. Wang, Pao K., Setvak, M., Lyons, W., Schmid W. and Lin, H., 2009: Further Evidence of Deep Convective Vertical Transport of Water Vapor through the Tropopause, *Atmos. Res*., *94*, 400-408.

77. Flossmann, A. I., Levizzani V. and Wang, Pao K., 2010: On the Fundamental Role of Hans Pruppacher for Cloud Physics and Cloud Chemistry. *Atmos. Res., 97,* 393-395.

78. Setvák, Martin, Lindsey, Daniel T., Novák, Petr, Wang, Pao K., Radová, Michaela, Kerkmann[5], Jochen, Grasso[2], Louie, Su[3], Shih-Hao, Rabin[6,7], Robert M., Šástka, Jindich, Charvat, Zdenêk and Kyznarová, Hana, 2010: Cold-ring-shaped Cloud Top Features atop Convective Storms, *Atmospherci Research*, *97*, 80-96.

79. Wang, Pao K., Su, Shih-Hao, Setvak, M., Lin, H. M. and Rabin, R., 2010: Ship Wave Signature at the Cloud Top of Deep Convective storms, *Atmos. Res*. *97*, 294-302.

80. Wang, Pao K., Lin, Hsin-Mu and Su, Shih-Hao, 2010: The Impact of Ice Microphysical Processes on the Life Span of a Midlatitude Supercell Storm, *Atmos. Res*. *97,* 450-461.

81. Wang, Pao K., Su, S. H., Charvat, Z., Stastka, J. and Lin, H., 2011: Cross Tropopause Transport of Water by Mid-latitude Deep Convective Storms: A Review. Terr. *Atmos. Ocean. Sci.*, *22*, 447-462.

82. Kubicek, A. and Wang, Pao K., 2012: A Numerical Study of the Flow Fields around a Typical Conical Graupel Fallin at Various Inclination Angles. *Atmos. Res., 118*, 15-26.

83. Setvak, M., Bedka, K., Lindsey, D. T., Sokol, A., Charvat, Z., Stastka J. and Wang, Pao K., 2013: A-Train Observations of Deep Convective Storm Tops. *Atmos. Res*., *123*, 229-248.

84. Wang, Pao K. and Kubicek, A. 2013: Flow Fields of Graupel Falling in Air. *Atmos. Res., 124*, 158-169.

85. Cheng, K. Y. and Wang, Pao K., 2013: A Numerical Study of the Flow Fields around Falling Hails. *Atmos. Res*., *132-133*, 253-263.

86. Panda, J., Singh, H., Wang, Pao K., Giri, R. K. and Routray, A., 2014: A Qualitative Study of Some of the Meteorological Features during Tropical Cyclone PHET Using Satellite Observations and WRF Modeling System. *J. Indian Soc. Remote Sensing,* 11 July 2014*,* DOI: 10.1007/s12524-014-0386-4

87. Cheng, K. Y., Wang, Pao K. and Wang, C. K., 2014: A Numerical Study on the Ventilation Coefficients of Falling Hailstones. *J. Atmos. Sci.*, *71***,** 2625-2634.

88. Hashino, T., Chiruta, M., Polzin, D., Kubicek A. and Wang, Pao K., 2014: Numerical Simulation of the Flow Fields around Falling Ice Crystals with Inclined Orientation and the Hydrodynamic Torque. *Atmos. Res*., *150,* 79-96.

89. Chueh, Chi-Cheh and Wang, Pao K., 2015: A Numerical Study of Flow Fields of Lobed Hailstones Falling in Air. *Atmos. Res.*, *160*, 1-14.

90. Cheng, K. Y., Wang, Pao K. and Hashino, T., 2015: A Numerical Study on the Attitudes and Aerodynamics of Freely Falling Hexagonal Ice Plates. *J. Atmos. Sci*., *72*, 3685-3698.

91. Hernandez-Gonzalez, S., Wang, Pao K., Gascon, E., Valero, F. and Sanchez, J. L., 2016: Latent Cooling and Microphysics Effects in Deep Convection, *Atmos. Res., 180,* 189-199.

92. Wang, Pao K., Cheng, K. Y., Setvak, M. and Wang, C. K., 2016: The Origin of the Gullwing-shaped Cirrus above an Argentinian Thunderstorm as seen in CALIPSO Images. *J. Geophys. Res. Atmos.*,*121,* doi:10.1002/2015JD024111

93. Hashino, T., Cheng, K. Y., Chueh, C. C. and Wang, Pao K., 2016: Numerical Study of Motion and Stability of Falling Columnar Crystals. *J. Atmos. Sci.*, *73,* 1923-1942.

94. Chueh, C.-C., Wang, Pao K. and Hashino, T., 2017: A Preliminary Numerical Study on the Time-varying Fall Attitudes and Aerodynamics of Freely Falling Conical Graupel Particles. *Atmospheric Research*, *183*, 58-72.

95. Balaji Kumar, S., Janapati, J., Lin, Pay-Liam, Reddy, K. Krishna, Shirooka, R. and Wang, Pao K., 2017: A Comparison Study of Summer Season Raindrop Size Distribution between Palau and Taiwan, Two Islands in Western Pacific. *J. Geophys. Res., 122,* 11787-11805.

96. Kant, S., Panda, J., Gautam, R., Wang, Pao K. and Singh, S. P., 2017: Significance of Aerosols Influencing Weather and Climate over Indian Region. *Int. J. Earth and Atmos. Sci., 4,* 1-20.

97. Huang, Y.-C. and Wang, Pao K., 2017: The Hydrometeor Partitioning and Microphysical Processes over the Pacific Warm Pool in Numerical Modeling. *Atmos. Res., 183,* 308-321.

98. Chueh, C.-C., Wang, Pao K. and Hashino, T., 2018: Numerical Study of Motion of Falling Conical Graupel. *Atmos. Res.*, *199*, 82-92.

99. Nettesheim, J., and Wang, Pao K., 2018: A Numerical Study on the Aerodynamics of Freely Falling Planar Ice Crystals. *Journal of the Atmospheric Science, 75*, 2849-2865.

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