JIANZHEN YU

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ACADEMIC QUALIFICATIONS

Ph.D.	1996	University of North Carolina-Chapel Hill, NC, USA (Analytical/Atmospheric Chemistry)
M.S.	1992	University of Montana, Missoula, MT, USA (Physical Chemistry)
B.Sc.	1989	Nanjing University, China (Environmental Chemistry)

PROFESSIONAL CAREER

03/2025–present	Head, Department of Chemistry, HKUST
07/2022–present	Chair Professor, Joint Appointment, Department of Chemistry & Division of Environment and Sustainability, HKUST
11/2020–08/2025	Director, Atmospheric Research Center, HKUST
07/2011–07/2022	Professor, Joint Appointment, Department of Chemistry & Division of Environment and Sustainability, HKUST
01/2022–06/2024	Associate Head, Division of Environment and Sustainability, HKUST
01/2016–12/2021	Director, Environmental Central Facility, HKUST
07/2009–10/2020	Associate Director, Atmospheric Research Center, HKUST Fuk Ying Tung Graduate School
11/2008–12/2015	Associate Director, Environmental Central Facility, HKUST
2005–2011	Associate Professor, Department of Chemistry, HKUST
1999–2005	Assistant Professor, Department of Chemistry, HKUST
1997–1999	Post-doctoral Fellow, California Institute of Technology, Pasadena, CA, USA
1996–1997	Post-doctoral Research Associate, University of North Carolina-Chapel Hill, NC, USA

GUEST/ADJUNCT PROFESSORSHIP

04/2016–03/2019	Guest Professor, East China University of Science & Technology, China
09/2016–06/2017	Adjunct Research Professor, Desert Research Institute, Reno, NV, USA
10/2012–08/2016	Affiliated Research Professor, Desert Research Institute, Reno, NV, USA
02/2011–02/2014	Guest Professor, Guangzhou Institute of Geochemistry, Chinese Academy of Science, China
11/2006–01/2007	Visiting Scientists, Division of Atmospheric Science, Desert Research Institute, Nevada System of Higher Education
09/2006–10/2006	Visiting Associate Professor, Department of Civil & Environmental Engineering, University of Wisconsin-Madison

RESEARCH INTERESTS

Analytical method development for atmospheric applications, chemical characterization of urban and continental aerosols, chemical transformation of organic compounds in air, source apportionment of air pollutants, chemical kinetic modeling of atmospheric reactions.

HONORS AND AWARDS

2025	RGC Senior Research Fellow, University Grants Committee of Hong Kong
2022	Elected Fellow of the Asian Aerosol Research Assembly (AARA)

2020 Distinguished alumna award, Department of Environmental Sciences & Engineering, UNC-Chapel Hill

2018 School of Science Service Award, 2022

2016 Feng Tay (豐泰講座) Lectureship, Taiwan Association for Aerosol Research

2014 K C Wong Education Foundation Academic Exchange Award (王宽诚教育基金会学术讲座学者)

2005 Freeman Fellowship for Salzburg Seminar Program

1997 Atmospheric Chemistry Colloquium for Emerging Senior Scientists (ACCESS)/Gordon Research Conference

1996 Graduate Student Award, Environmental Chemistry Division of American Chemical Society

1995 Lewis Publishers-Environmental Chemistry Division of American Chemical Society Graduate Student Paper Award (the highest award given to graduate students by the division, now known as C. Ellen Gonter Environmental Chemistry Award).

EDITORIAL ACTIVITIES

- Editor-in-Chief, Atmospheric Environment (Elsevier), 01/2022–present
- Associate Editor, Atmospheric Environment (Elsevier), 12/2018–12/2021
- Associate Editor, Environmental Chemistry (CSIRO Publishing), 2010–2019
- Associate Editor, Atmospheric Research (Elsevier), 2010–2018
- Editorial Board Member, Aerosol Science & Technology, 2017–present
- Editorial Board Member, Aerosol and Air Quality Research, 2017–2019
- Editorial Advisory Board, Atmospheric Environment (Elsevier), 2014–2018
- Editorial Board Member, Asian Journal of Atmospheric Environment, 2010–present

COMMISSION OF TRUST

- Panel Member, Hong Kong Research Grants Council (2020–present)
- Panel Member (Physical and Analytical Chemistry), European Research Council (ERC) 2014, 2016, 2018, 2020.
- Selection Committee member, Haagen-Smit Prize, 2017–2019
- Selection Committee member, Asian Young Aerosol Scientist Award, 2019
- Selection Panel member, Hong Kong PhD Fellowship Scheme, 2019, 2020

PROFESSIONAL ACTIVITIES

1. Committee member, Professional committee for Pollution Prevention and Control of Volatile Organic Compounds, Chinese Society for Environmental Sciences (中国环境科学学会挥发性有机物污染防治专业委员会常委会委员), 05/2012–present.
2. Scientific Committee, 10th, 11th, and 12th International Conference on Carbonaceous Particles in the Atmosphere, 2011, 2015, and 2019 (respectively).
3. Proposal reviewer for National Science Foundation, USA; National Oceanic and Atmospheric Administration (AC4 program), USA; Swiss National Science Foundation; National University of Singapore Academic Research Fund; Hong Kong Baptist University Faculty Research Grant; Natural Science & Engineering Research Council of Canada
4. Reviewer for
    - Multi-disciplinary Journals: *Nature*, *Nature Chemistry*, *Nature Communication*, *PNAS*
    - Journals in the fields of atmospheric science and environmental science: *Aerosol and Air Quality Research, Aerosol Science & Technology, Atmospheric Chemistry and Physics, Atmospheric Environment, Atmospheric Measurement Techniques, Chemosphere, Environmental Chemistry, Environmental Monitoring Assessment, Environmental Pollution, Environmental Science & Technology*,

J. Aerosol Science., *J. Air & Waste Management*, *J. Atmospheric Chemistry, J. Chemical & Engineering Data, J. Environ. Monitoring, J. Environmental Science & Health A; J. Geophysical Research – Atmosphere, J. Hazardous Materials, Science of the Total Environment*, *Urban Climate*.

- Journals in analytical chemistry field: *Analytical Chemistry, Analytica Chim Acta, J. Chromatography A, J. Separation Science*

5. Scientific Steering Committee and Session Chair,
   - AW&MA International Specialty Conference, Leapfrogging Opportunities for Air Quality Improvement, 10–14 May 2010, Xi'an, Shaanxi Province, China.
   - 8th Asian Aerosol Conference, 2–5 December 2013, Sydney, Australia.
   - 2014 International Aerosol Conference, Aug 28–Sep 2 2014, Busan, Korea.
6. Professional society memberships
   - Member, American Chemical Society, 1992–present
   - Member, Air & Waste Management Association, 1994–2012
   - Member, American Association for Aerosol Research, 1998–present
   - Member, American Geophysical Union, 2000–present

STUDENT TRAINING (as of November 2026)

Current: 11 PhD students, 1 MPhil student

Graduated: 28 PhD students, 24 MPhil students

RESEARCH OUTPUT SUMMARY (as of November 2026)

Citation Metrics

- World Top 2% Scientists (2019–2026) (Earth & Environmental Science) (Stanford University- Elsevier-SciTech Strategies)
- 2026 Edition of Ranking of Best Scientists in the field of Environmental Sciences: (Ranked #600 in the world ranking and #71 in China, as of 2026.11.02.) (Source: research.com)
- 2026 Edition of Ranking of Best Scientists in the field of Chemistry: (Ranked #2118 in the world ranking and #426 in China, as of 2026.11.02.) (Source: research.com)
- As of 2026.11.02., by Web of Science, total citations: 17,981, h-index = 78
- As of 2026.11.02., by Google Scholar, total citations: 23,304, h-index = 89, i10-index = 254

Detailed Publication List can be found HERE.