

Y. Jeffrey Yang, Senior Scientist and Advisor in EPA's National Risk Management Research Laboratory

Water Systems Division

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Areas of Expertise: Risk management in water resources, water infrastructure, and urban development. Major current research areas include coastal vulnerability and adaptation to hydrological impacts on infrastructure and nutrients, drinking water systems resilience, water treatment and distribution modeling and automation for Stage-II regulations, sustainable urban land use and infrastructure planning for community revitalization. Other related expertise includes RCRA and CERCLA site investigation and remediation, industrial and municipal wastewater treatment, stream restoration, landfill design and construction, and groundwater development.

Select Recent Publications:

Zhao, Y., **Yang**, Y.J., Shao, Y., Neal, J., and Zhang, T., (2018). [The dependence of chlorine decay and DBP formation kinetics on pipe flow properties in drinking water distribution](#). Water Research, 141: 32-45.

Yang, J., C. Neil, J. Neal, J. Goodrich, M. Simon, D. Burnell, R. Cohen, D. Schupp, R. Krishnan, AND Y. Jun. [Decision Support System for Aquifer Recharge \(AR\) and Aquifer Storage and Recovery \(ASR\) Planning, Design, and Evaluation - Principles and Technical Basis](#). U.S. Environmental Protection Agency, Washington, DC, EPA/600/R-16/222, 2017.

Chang, N.-B., **Yang**, Y.J., Imen, S., and Mullon, L., (2017). [Multi-scale Quantitative Precipitation Forecasting Using Nonlinear and Nonstationary Teleconnection Signals and Artificial Neural Network Models](#). Journal of Hydrology, 548:305-321.

Ranatunga, T., S. Tong, AND J. **Yang**. [An approach to measure parameter sensitivity in watershed hydrological modelling](#). Hydrological Sciences Journal. IAHS LIMITED, Oxford, Uk, 62(1):76-92, (2017).

Liu, H., H. Wei, T. Zuo, Z. Li, AND J. **Yang**. [Fine-Tuning ADAS Algorithm Parameters for Optimizing Traffic Safety and Mobility in Connected Vehicle Environment](#). Transportation Research Part C: Emerging Technologies. Elsevier B.V., Amsterdam, Netherlands, 76:132-149, (2017).

Wei, H., T. Zuo, H. Liu, AND J. **Yang**. [Integrating Land Use and Socioeconomic Factors into Scenario-Based Travel Demand and Carbon Emission Impact Study](#). Urban Rail Transit. Springer International Publishing AG, Cham (ZG), Switzerland, 3(1):3-14, (2017).

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Education:

- Ph.D., Miami University, Oxford, OH; Isotope Geochemistry, 1992
- M.En., Miami University, Oxford, OH; Water Resources, 1993
- M.S., Chinese Academy of Geological Sciences, Beijing, China; Geochemistry, 1985
- B.E., China University of Geological Sciences, Beijing and Wuhan, China; 1982

Professional Experience:

- Senior Scientist and Advisor: U.S. EPA, Cincinnati, OH (2017-present)
- Embassy Science Fellow, U.S. Embassy in Beijing, China (2012)
- Physical Scientist, U.S. EPA, Cincinnati, OH (2005-2017)
- President, LY Int'l, Inc.; Executive Vice President, PDA Technologies, Inc., VA (2005)
- Senior Engineer/Manager, Tetra Tech; URS; T.M. Gates, Inc., OH, MD, VA (1993-2005)
- Research Scientist, China Geological Survey, Beijing, China (1985-1987)
- Adjunct Professor, Chinese Academy of Sciences, Beijing, China (2013-present)
- Guest Professor, Zhejiang University, Hangzhou, China (2013-2017)

Committees and Memberships

- Guest Editor, Journal of Environmental Engineering, ASCE (2015 – present)
- Editorial Board, JWRP (2013 – present)
- Founding Diplomat, AAWRE/ASCE
- Professional Engineer, Ohio, New York
- Professional Geologist (inactive)

Honors and Awards

- Environmental Justice Award, U.S. EPA Region 1, 2016.
- Top Science Paper, Environmental Science & Technology, 2014
- Bronze Metal, U.S. EPA Office of Water, 2014
- Special Achievement Award, U.S. EPA ORD/NRMRL, 2007
- Samuel Arnold Greeley Award, American Society of Civil Engineers, 2001

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