



News

Dr. John Xiong named leader of Haley & Aldrich's emerging contaminants practice

Burlington, Mass., Nov. 12, 2019 – Haley & Aldrich announced today that [Dr. John Xiong](#), Ph.D., P.E., will lead its [Emerging Contaminants practice](#). In this role, Xiong, located in Haley & Aldrich's Costa Mesa office, will lead the company's efforts to develop and provide innovative technical solutions for emerging contaminants such as [per- and polyfluoroalkyl substances \(PFAS\)](#), 1,4-dioxane, 1,2,3-trichloropropane (TCP), perchlorate, and inorganic contaminants such as chromium, molybdenum, and lithium.

"We are very pleased to have Dr. John Xiong lead our Emerging Contaminants group at Haley & Aldrich," said Murray Einarson, Haley & Aldrich's Contaminated Site Management Service Leader. "John is well known for his technical knowledge about a broad range of emerging contaminants. He is a seasoned consultant who imparts a clear vision for solving our clients' most pressing environmental challenges."

Xiong has designed and implemented a wide range of innovative and traditional soil and groundwater remedial systems, including nanoscale zero valent iron, enhanced bioremediation, in situ chemical oxidation, permeable reactive barriers, in situ biogeochemical transformation, soil vapor extraction, dual phase extraction systems, monitored natural attenuation, and pump-and-treat systems.

He has been a Principal Investigator for two government-funded research projects and published 13 peer-reviewed technical papers on his work. He also holds two patents on technologies for in situ treatment of inorganic contaminants.

He is on the Board of Directors of the Southern California Chinese American Environmental Protection Association (SCCAEPA), a nonprofit organization serving the environmental scientific community and the Chinese-American community in Southern California.

Xiong has a Ph.D. in Environmental Civil Engineering from Auburn University, as well as B.S. and M.S. degrees in Environmental Engineering from Chongqing University.

[Visit his LinkedIn page](#) to learn more about Xiong and contact him.

Xiong's peer-reviewed publications

"Nanotechnology in Site Remediation" book chapter in Fundamentals of Environmental Site Assessment and Remediation, edited by Yue Rong, CRC Press. 2018.

"Selectivity of Nano Zerovalent Iron in In Situ Chemical Reduction: Challenges and Improvements," with D. Fan, D.M. O'Carroll, D.W. Elliott, P.G. Tratnyek, R. L. Johnson, and A.N. Garcia. Remediation Journal. 26 (4), 27-40, 2016.

"Bench-Scale Biodegradation Tests to Assess Natural Attenuation Potential of 1,4-Dioxane at Three Sites in [California](#)," with M. Li, E.T. Van Orden, D.J. DeVries, R. Hinchee, and P.J. Alvarez. Biodegradation. 26 (1), 39-50, 2015,

"Immobilization of Mercury by Carboxymethyl Cellulose Stabilized Iron Sulfide Nanoparticles: Reaction Mechanisms and Effects of Stabilizer and Water Chemistry," with Y. Gong, Y. Liu, and D. Zhao. Environmental Science and Technology. v. 48, no. 7, p. 3986-3994. 2014.

"A Field-Validated Model for In Situ Transport of Polymer-Stabilized nZVI and Implications for Subsurface Injection," with M.M. Krol, A.J. Oleniuk, C.M. Kocur, B.E. Sleep, P. Bennett, and D.M. O'Carroll. Environmental Science and Technology. v. 47, no. 13, p. 7332-7340. 2013.

"Immobilization of Mercury in Field Soil and Sediment Using Carboxymethyl Cellulose Stabilized Iron Sulfide Nanoparticles," with Y. Gong, Y. Liu D. Kaback, and D. Zhao. 2012, Nanotechnology. 23 (29) 294007.

"Preparation and Characterization of a New Class of Polymeric Ligand Exchangers for Selective Removal of Arsenate from Drinking Water," with B. An, Z. Fu, and D. Zhao. Reactive and Functional Polymers. v. 70, ch. 8, p. 807-819. 2010.

"In Situ Immobilization of Mercury in Sediment Using Stabilized Iron Sulfide Nanoparticles," with F. He, D. Zhao, and M. Barnett. Water Research. v. 43, no. 20, p. 5171-5179. 2009.

"Rapid Transformation of Nitrate in Water and Ion Exchange Brine by Stabilized Zero-Valent Iron Nanoparticles," with D. Zhao and G. Pan. Journal of Nanoparticle Research. v. 11, ch. 4, p. 807-819. 2009.

"Complete Degradation of Perchlorate by Stabilized Zero Valent Iron Nanoparticles," with D. Zhao, and G. Pan. Water Research. v. 41, no. 15, p. 3497-3505. 2007.

"Sorption and Desorption of Perchlorate by Various Classes of Ion Exchangers," with D. Zhao. Industrial & Engineering Chemistry Research. v. 46, ch.26, p. 9213-9222. 2007.

"Removal of Perchlorate from Contaminated Water Using a Regenerable Polymeric Ligand Exchanger," with P. Dimick, D. Zhao, A. Kney, and J. Tavakoli. Separation Science and Technology. v. 41, no. 11, p. 2555-2574. 2006.

"Anaerobic SBR Process to Treat Ramie Wastewater," with Y. Lin and J. Tang. Industrial Wastewater Treatment. no.10, p. 57-61. In Chinese. 2002.

Xiong's patents

"In Situ Immobilization of Metals in Contaminated Sites Using Stabilized Nanoparticles," with D. Zhao, R. Liu, M.O. Barnett, and W.F. Harper, Jr. U.S. Patent, 2009, US 7,581,902 B2.

"In Situ Remediation of Inorganic Contaminants Using Stabilized Zero-Valent Iron Nanoparticles," with D. Zhao and Y. Xu. U.S. Patent, 2009, U.S. 7,635,236.

For more information:

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