



## **Yoon, Jeyong**

Seoul National University

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### **Academic Backgrounds**

1999-present Seoul National University, School of Chemical and Biological Engineering, Professor  
2015-present Academic Society for Appropriate Technology, President  
2015-2017 Asian Institute for Energy, Environment, and Sustainability (AIEES), President  
2013-2016 Scientists and Engineers without Borders, Chief Director  
1993-1999 Ajou University, Associate Professor

### **Research Interests**

Novel Convergence Technology combined Environment and Energy  
Application of Electrochemistry for Water Treatment (Capacitive deionization (CDI) & Oxidant Electrode Fabrication)  
Safe Drinking Water Production with Appropriate Technology  
Resource Recovery and Separation (Li extraction)

### **Educational Backgrounds**

State University of New York at Buffalo, Civil Engineering, Ph.D., 1993.  
University of North Carolina at Chapel Hill, Environmental Science and Engineering, M.S.E., 1990.  
Seoul National University, College of Engineering, B.S.E, 1984.

### **Honors and Awards**

Academic Awards, Korean Society of Environmental Engineers, 2016  
Minister's commendation, Korean Ministry of Science, ICT and Future Planning, 2016  
Chairman's commendation, Korean International Cooperation Agency, 2015  
Korean Prime minister's commendation for the Day of Chemical Industry, 2015

### **Representative Significant Publications (List several representative papers)**

Jiho Lee, Hongsik Yoon, Jaehan Lee, Taeyoung Kim, Jeyong Yoon, Extraction of Salinity-Gradient Energy by a Hybrid Capacitive-Mixing System, *ChemSusChem*, 10, 1600–1606 (2017)  
M. E. Suss, S. Porada, X. Sun, P. M. Biesheuvel, J. Yoon, V. Presser, Water desalination via capacitive deionization: what is it and what can we expect from it? *Energy Environ. Sci.*, 8, 2296 (2015)  
Byeongho Lee, Youngbin Baek, Minwoo Lee, Dae Hong Jeong, Hong H. Lee, Jeyong Yoon, Yong Hyup Kim, A carbon nanotube wall membrane for water treatment, *Nature Communications* 6, 7109, (2015)  
Choonsoo Kim, Seonghwan Kim, Jaehan Lee, Jiye Kim, Jeyong Yoon, Capacitive and Oxidant Generating Properties of Black-Colored TiO<sub>2</sub> Nanotube Array Fabricated by Electrochemical Self-Doping, *ACS Appl. Mater. Interfaces*, 7 (14), 7486–7491, (2015).  
Jaehan Lee, Seoni Kim, Choonsoo Kim, Jeyong Yoon, Hybrid capacitive deionization to enhance the desalination performance of capacitive techniques, *Energy Environ. Sci.*, 7, 3683-3689, (2014)  
Jaehan Lee, Seung-Ho Yu, Choonsoo Kim, Yung-Eun Sung and Jeyong Yoon, Highly selective lithium recovery from brine using a  $\lambda$ -MnO<sub>2</sub>-Ag battery, *PCCP*, 15, 7690-7695, (2013)

More than 200 research Papers, 9119 citations (Google Scholar), His H-Index is 51