

## CURRICULUM VITAE

**Wonyong CHOI, Ph.D.**



### *Namgo Chair Professor*

School of Environmental Science & Engineering  
Pohang University of Science and Technology (POSTECH)  
Pohang, Korea 790-784

Phone: +82-54-279-2283

Fax: +82-54-279-8299

E-mail: [wchoi@postech.edu](mailto:wchoi@postech.edu)

Home page: <http://www.postech.ac.kr/lab/see/epa/>

---

### Education

1996. 6 **Ph.D.**, Chemistry (*Environmental Chemistry*)  
California Institute of Technology (**CALTECH**), Pasadena, CA, U.S.A.
1990. 2 **M.S.**, Chemistry (*Physical Chemistry*)  
Pohang University of Science and Technology (**POSTECH**), Pohang, Korea
1988. 2 **B.S.** (with honors), Engineering (*Chemical Technology*)  
Seoul National University (**SNU**), Seoul, Korea

### Professional Experience & Research Area

1998. 2 – present

**Professor**, School of Environmental Science and Engineering (also at Dept. of Chemical Engineering as of June 2008), POSTECH

**Research area:** Semiconductor photocatalysis for environmental and energy applications; Solar photocatalytic hydrogen production; Development of visible light active photocatalysts; Photochemical purification of water and air; Advanced oxidation processes (AOPs); Environmental (photo)chemistry; Ice (photo)chemistry; Redox processes of environmental significance

2003 – present

**Adjunct Professor**, Department of Chemistry, POSTECH

2006. 3 – 2007. 2/ 2013.3 – 2014.2

**Visiting Scholar**, Environmental Science & Engineering, CALTECH  
(LG Yonam Research Fellow, *on sabbatical leave from POSTECH*)

1996. 6 – 1998. 2

**Postdoctoral Scholar**, NASA/Caltech Jet Propulsion Laboratory (JPL), *Atmospheric Chemistry Research Element, Earth and Space Sciences Division*

**Research area:** Laboratory kinetic studies of heterogeneous atmospheric chemical reactions

## Awards and Honors

- 2015 KAST Science and Technology Award
- 2014 KIST Excellent Researcher Award
- 2014 Elected as **Fellow of the Royal Society of Chemistry (FRSC)**
- 2014 Appointed as DeTao Master (2014.10), DeTao Masters Academy, Shanghai, China
- 2014 Elected as **Fellow of Korean Academy of Science and Technology (KAST)**
- 2013 Excellence in Review Award, *Environ. Sci. Technol.* (American Chemical Society)
- 2012 Pohang MBC-Samil Munhwa Special Award
- 2012 **Namgo (Jong-Ryul Lee) Chair Professor**, POSTECH
- 2011 Invited Visiting Professor (Sept. 19-24, 2011); University Lille 1, France
- 2011 Awardee of “Rising Star” Faculty Special Support Program (POSTECH)
- 2011 Erudite Visiting Professor (Feb. 7-12, 2011); Erudite Scholar-in-Residence Programme; Kerala State Higher Education Council/Mahatma Gandhi University (Kottayam, Kerala, India)
- 2008 Lectureship Award for Asian and Oceanian Photochemist (*Japanese Photochemistry Association*)
- 2006 **Young Scientist Award** (*Korean Academy of Science and Technology; Ministry of Science & Technology; presented by the president of Korea*)
- 2006 LG Yonam Research Fellow
- 2004-14 Listed in *Who's Who in the World* (Marquis)
- 2003 Elected as Associate Member of *Korean Academy of Science and Technology*
- 2001 Best Paper Award, *Korean Society of Industrial and Engineering Chemistry*
- 1988 President of Alumni Association Award for Outstanding Engineering Students (*SNU Engineering College*)

## Summary of Academic Achievements and Services (*Selected*)

- **220** research articles published in peer-reviewed journals (mostly in international SCI journals)
- Total citations **23,000** (as of 2015/12 according to Web of Science): **H-index 59**
- Advised **18 Ph.D.** and **24 M.S.** degrees during the tenure of POSTECH (1998-present)
- Currently supervising **12** graduate students, **4** postdocs
  
- **Editor**, *Journal of Hazardous Materials* (Elsevier: 2008.2 – present, IF 4.5)
- **Editor**, *Rapid Communication in Photoscience* (Korean Society of Photoscience: 2013.1-present)
- **Editorial Advisory board**, *Energy and Environmental Science* (Royal Society of Chemistry: 2008.5 – present, IF 20.5)
- **Editorial Advisory board**, *Environmental Science & Technology* (American Chemical

- Society: 2015.2– present, IF 5.3)
- **Editorial Advisory board**, *Journal of Physical Chemistry* (American Chemical Society: 2009.1- 2011.12)
  - **Editorial board**, *International J. of Photoenergy* (Hindawi Publishing: 2012.6 – 2014.12)
  - **Editorial board**, *J. Advanced Oxidation Technology* (Sci. Technol. Network, Inc.)
  - Co-guest editor of a special issue “*Nanotechnologies for the Treatment of Water, Air, and Soil*” in *Journal of Hazardous Materials* (Vol. 211-212, 2012)
  - Co-guest editor of a special issue “*Catalysis for Hydrogen Energy Production and Utilization*” in *Catalysis Today* (Vol. 146, issues 1-2, 2009)
  - Co-guest editor of a special issue “*Catalysis for Environment Friendly Technologies*” in *Catalysis Today* (Vol. 87, issues 1-4, 2003)
  - Co-guest editor of a special issue on photocatalysis in *The Korean Journal of Chemical Engineering* (Vol. 18, number 6, 2001)
  - Associate Editor, *Environmental Engineering Research* (2004.12–2006.2, Korean Society of Environmental Engineers)
  - Editorial board, *J. of Industrial and Engineering Chemistry* (2002.1–present, Korean Society of Industrial and Engineering Chemistry/Elsevier)
  
  - Chair, Division of Environment and Energy, *Korean Chemical Society* (2011.1–2012.12)
  - Organizer, *2<sup>nd</sup> International Workshop on Frontiers in Environmental Chemical Research*, POSTECH, Korea, May 19, 2015
  - Organizer, *International Workshop on Solar Energy for Clean Water*, POSTECH, Pohang, Korea; Oct. 27, 2014
  - Organizer, *International Workshop on Frontiers in Environmental Chemical Research*, POSTECH, Korea, May 30, 2011
  - Technical Program Coordinator (Environmental Chemistry), *Pacificchem 2010*, Honolulu, Hawaii, USA, Dec. 15-20, 2010.
  - Organizer, *EPB & Post-IPS Workshop on Solar Photochemistry and Materials for Energy and Environment*, POSTECH, Pohang, Korea, July 31, 2010
  - Co-Chair, *18<sup>th</sup> International Conference on Photochemical Conversion and Storage of Solar Energy (IPS-18)*, Seoul, Korea, July 25-30, 2010
  - International Organizing Committee, *International Conference on Photochemical Conversion and Storage of Solar Energy (IPS)*, 2008.8-2014.7.
  - Scientific International Committee, *European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications (SPEA)* (2008-2014)
  - Secretariat, *9th Korea-Japan Symposium on Catalysis*, POSTECH, Pohang, May 14-17, 2003.