

NANO KOREA 2020

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Wonyong Choi

Professor, Pohang University of Science and Technology (POSTECH)

Address: Division of Environmental Science & Engineering, POSTECH, Pohang, Korea 37673

Telephone: (+82)54-279-2283

Fax: (+82)54-279-8299

E-mail: wchoi@postech.edu

Nationality: Republic of Korea

Web: <https://epa.postech.ac.kr/>

EDUCATION

CALTECH, Pasadena, USA	Ph.D	Chemistry	1996
POSTECH, Pohang, Korea	MS	Chemistry	1990
Seoul National University, Korea	BS	Chemical Technology	1988

PROFESSIONAL ACTIVITIES

- Professor, Division of Environmental Sci. Eng., POSTECH (1998.2–present)
- Postdoctoral Scholar, NASA/Caltech Jet Propulsion Laboratory (JPL) (1996.6 – 1998.2)

AWARD AND HONORS

- Highly Cited Researcher (Clarivate Analytics) (2019)
- Korea Engineering Award (2018)
- *Korean Academy of Sci. & Technol. (KAST) Science and Technology Award* (2015)
- Young Scientist Award (KAST) (2005)

MAIN SCIENTIFIC PUBLICATION

- T. H. Jeon, D. Monllor-Satoca, G.-H. Moon, W. Kim, H.-i. Kim, D. Bahnemann, H. Park, W. Choi, “Ag(I) Ions Working as a Hole-Transfer Mediator in Photoelectrocatalytic Water Oxidation on WO₃ Film”, *Nature Commun.* **2020**, 11:967
- T. H. Jeon, H. Kim, H.-i. Kim, W. Choi, “Highly Durable Photoelectrochemical H₂O₂ Production via Dual Photoanode and Cathode Processes under Solar Simulating and External Bias-free Condition”, *Energy Environ. Sci.* **2020**, DOI: 10.1039/C9EE03154E
- M. Faraji, M. Yousefi, S. Yousefzadeh, M. Zirak, N. Naseri, T. H. Jeon, W. Choi, A. Z. Moshfegh, “Two-Dimensional Materials in Semiconductor Photoelectrocatalytic Systems for Water Splitting”, *Energy Environ. Sci.* **2019**, 12, 59-95

RESEARCH INTERESTS

- Semiconductor photocatalysis for environmental and energy applications; Solar fuels
- Photochemical purification of water and air; Advanced oxidation processes (AOPs); Environmental (photo)chemistry; Ice (photo)chemistry