

## Cheolwoo Park

Postdoctoral Scholar, Photon Science, SLAC

### Bio

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#### STANFORD ADVISORS

- Kelly Gaffney, Postdoctoral Faculty Sponsor
- Amy Cordones-Hahn, Postdoctoral Research Mentor

### Publications

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#### PUBLICATIONS

- **Electrolyte-Engineered Photoelectrochemical Ammonia Oxidation Enabling Sustainable Hydrogen Production via Catalyst Regeneration** *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*  
Park, C., Kwak, H., Koh, T., Sohn, Y., Park, H., Gu, G., Moon, G., Kim, W.  
2025: e22662
- **Time-Resolved Spectroelectrochemical Observation of Overlayer-Induced Charge Carrier Dynamics in Water Photooxidation** *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*  
Park, C., Cho, K., Fujitsuka, M., Majima, T., Bae, S., Ryu, J., Lee, H., Choi, W., Ahn, T., Kim, W.  
2025: e202502805
- **Cambered Bipyridyl Ligand with Extended Aryl System Enables Electrochemical Reduction of Carbon Dioxide and Bicarbonate by Mn(bpy) (CO)<sub>3</sub>Br-type Catalyst Immobilized on Carbon Nanotubes** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*  
Lee, A. J., Deluca, E. E., Kelly, E. B., Taylor, J. M., Weddle, L. R., Chen, H., Park, C., Loeb, C. K., Chan, T., Kubiak, C. P.  
2025; 147 (9): 7411-7422
- **Potential of homogeneous persulfate activation as a strategy for the oxidative treatment of tetramethylammonium hydroxide: Superiority of sulfate radical over hydroxyl radical in the oxidation of methylammoniums** *CHEMICAL ENGINEERING JOURNAL*  
Choi, W., Min, D., Kim, M., Park, C., Choi, Y., Kim, J., Ahn, Y., Yun, E., Lee, Y., Lee, C., Kim, W., Lee, J.  
2024; 500
- **Selective photocatalytic reduction of nitric oxide to dinitrogen via bimetallic bond incorporation** *CHEMICAL ENGINEERING JOURNAL*  
Zhang, Z., Park, C., Noh, S., Kim, H., Ahn, T., Kim, W.  
2024; 499
- **Time-resolved spectroscopic investigation for the practical application of a photocatalytic air purifier** *JOURNAL OF HAZARDOUS MATERIALS*  
Park, C., Shin, G., Chung, M., Koo, M., Ham, D., Lee, H., Weon, S., Kim, W.  
2024; 472: 134382
- **Black phosphorene as a hole extraction layer boosting solar water splitting of oxygen evolution catalysts** *NATURE COMMUNICATIONS*  
Zhang, K., Jin, B., Park, C., Cho, Y., Song, X., Shi, X., Zhang, S., Kim, W., Zeng, H., Park, J.  
2019; 10
- **Black phosphorene as a hole extraction layer boosting solar water splitting of oxygen evolution catalysts.** *Nature communications*  
Zhang, K. n., Jin, B. n., Park, C. n., Cho, Y. n., Song, X. n., Shi, X. n., Zhang, S. n., Kim, W. n., Zeng, H. n., Park, J. H.  
2019; 10 (1): 2001