

## Curriculum Vitae

**Name:** Chung-Wei Kung

**Nationality:** Taiwan

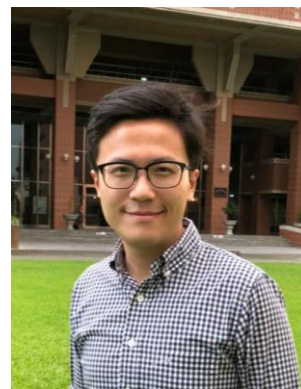
**Email Address:** [cwkung@mail.ncku.edu.tw](mailto:cwkung@mail.ncku.edu.tw)

**TEL:** (+886) 6-2757575-ext 62629 (Office)

**Address:** Department of Chemical Engineering,  
National Cheng Kung University  
1 University Road, Tainan City, Taiwan, 70101

**Group Website:** <https://sites.google.com/site/kunggroupncku/>

---



### Education

- |   |                            |
|---|----------------------------|
| <b>Ph. D., Chemical Engineering</b><br>National Taiwan University, Taiwan | September 2011 – July 2015 |
| <b>B. S., Chemical Engineering</b><br>National Taiwan University, Taiwan  | September 2007 – June 2011 |

### Professional Experience

- |  |                            |
|--|----------------------------|
| <b>Assistant Professor</b><br>Department of Chemical Engineering<br>National Cheng Kung University, Taiwan | August 2018 – present      |
| <b>Postdoctoral Researcher</b><br>Department of Chemistry<br>Northwestern University, IL, U.S.A.           | September 2016 – July 2018 |
| <b>Visiting Scholar</b><br>Department of Chemistry<br>Northwestern University, IL, U.S.A.                  | March 2013 – March 2014    |

### Research Expertise

1. Electrochemistry and applications:  
Electrocatalysis, electroanalysis, supercapacitors and electrochromic devices
2. Metal–organic frameworks (MOFs):  
Design, synthesis and characterizations of functional MOFs, MOF thin films, and MOF-based materials
3. Nanomaterials: Synthesis and characterizations

## Academic Honors

1. “**Yushan Young Scholar**” of 2018, awarded by Ministry of Education (MOE), Taiwan (25 award recipients in all academic fields in Taiwan in 2018).
2. “**AIP Poster Award**” of 2015 International Conference on Nanospace Materials, Taipei, Taiwan, June 23-25, 2015.
3. “**Young Scientist Award**” of E-MRS 2014 Spring Meeting, Lille, France, May 26-30, 2014, in recognition of an outstanding paper contributed to the Symposium L “Chromogenic Materials and Devices”.
4. “**Student Award**” of E-MRS 2012 Fall Meeting, Warsaw, Poland, September 17-21, 2012, supported by the Symposium H “Organized Nanostructures and Nano-objects: Fabrication, characterization and applications”.

## Selective Publications

(Total SCI Publications: **54**; find the full list at:

[https://scholar.google.com/citations?user=USI\\_ZuIAAAAJ](https://scholar.google.com/citations?user=USI_ZuIAAAAJ))

1. **C. W. Kung**, K. Otake, C. T. Buru, S. Goswami, Y. Cui, J. T. Hupp, A. M. Spokoyny, and O. K. Farha, “Increased electrical conductivity in a mesoporous metal–organic framework featuring metallacarboranes guests,” *J. Am. Chem. Soc.*, 140 (2018) 3871–3875.
2. **C. W. Kung**, A. E. Platero-Prats, R. J. Drout, J. Kang, T. C. Wang, C. O. Audu, M. C. Hersam, K. W. Chapman, O. K. Farha, and J. T. Hupp, “An inorganic “conductive glass” approach to rendering mesoporous metal–organic frameworks electronically conductive and chemically responsive,” *ACS Appl. Mater. Interfaces*, 10 (2018) 30532–30540.
3. **C. W. Kung**, C. O. Audu, A. W. Peters, H. Noh, O. K. Farha, and J. T. Hupp, “Copper nanoparticles installed in metal–organic framework thin films are electrocatalytically competent for CO<sub>2</sub> reduction,” *ACS Energy Lett.*, 2 (2017) 2394–2401.
4. **C. W. Kung**, Y. S. Li, M. H. Lee, S. Y. Wang, W. H. Chiang, and K. C. Ho, “*In-situ* growth of porphyrinic metal–organic framework nanocrystals on graphene nanoribbons for the electrocatalytic oxidation of nitrite,” *J. Mater. Chem. A*, 4 (2016) 10673–10682.
5. **C. W. Kung**, J. E. Mondloch, T. C. Wang, W. Bury, W. Hoffeditz, B. M. Klahr, R. C. Klet, M. J. Pellin, O. K. Farha, and J. T. Hupp, “Metal–organic framework thin films as platforms for atomic layer deposition of cobalt ions to enable electrocatalytic water oxidation,” *ACS Appl. Mater. Interfaces*, 7 (2015) 28223–28230.
6. **C. W. Kung**, T. C. Wang, J. E. Mondloch, D. Fairen-Jimenez, D. M. Gardner, W. Bury, J. M. Klingsporn, J. C. Barnes, R. Van Duyne, J. F. Stoddart, M. R. Wasielewski, O. K. Farha, and J. T. Hupp, “Metal–organic framework thin films composed of free-standing acicular nanorods exhibiting reversible electrochromism,” *Chem. Mater.*, 25 (2013) 5012–5017.
7. **C. W. Kung**, H. W. Chen, C. Y. Lin, K. C. Huang, R. Vittal, and K. C. Ho, “CoS acicular nanorod arrays for the counter electrode of an efficient dye-sensitized solar cell,” *ACS Nano*, 6 (2012) 7016–7025.
8. **C. W. Kung**, C. Y. Lin, Y. H. Lai, R. Vittal, and K. C. Ho, “Cobalt oxide acicular nanorods with high sensitivity for the non-enzymatic detection of glucose,” *Biosens. Bioelectron.*, 27 (2011) 125–131.