

Kyungmin Choi, Ph.D.

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Professional Experience

- Mar. 2016 – Assistant Professor, Chemical and Biological Engineering,
Sookmyung Women's University (<http://nanoporouslab.com>)
- Dec. 2015 – Feb. 2016 Associated Researcher, KAIST
- Jan. 2013 – Nov. 2015 Postdoctoral Research Fellow & Group Leader (Lab. Manager)
Department of Chemistry, University of California at Berkeley &
Lawrence Berkeley National Laboratory
(Adviser: Prof. Omar M. Yaghi, <http://yaghi.berkeley.edu>)
- Aug. 2012 – Dec. 2012 Research Assistant Professor, Materials Science and Engineering
Korea Advanced Institute of Science and Engineering (KAIST)
(Adviser: Prof. Jeungku Kang, <http://nanosf.kaist.ac.kr>)

Education

- Mar. 2007 – Aug. 2012 Ph.D. in Materials Science and Engineering,
Korea Advanced Institute of Science and Engineering (KAIST)
(Adviser: Prof. Jeung Ku Kang, <http://nanosf.kaist.ac.kr>)
(Thesis: A Study for the Control of Carbon Nanotubes Using
Heterogeneous Catalysts and the Heterogeneity of Metal Organic
Frameworks Within Order)
- Mar. 2000 – Feb. 2007 B.S. in Inorganic Materials Engineering (*Summa Cum Laude*),
Kyungpook National University

Awards and Honors

- Feb. 2008 – Jan. 2012 STX Fellowship, STX cooperation
- Mar. 2007 Summa Cum Laude Award (Final GPA: 4.38/4.5),
College of Engineering, Kyungpook National University
- Sep. 2006 National Science & Technology Scholarship
- Mar. 2000 – Mar. 2006 Academic Excellence Full-Scholarship for All Semester
Materials Science and Engineering, Kyungpook National University
- Mar. 2000 A Full-Scholarship to The Most Outstanding Freshman
Materials Science and Engineering, Kyungpook National University

Selected Publications (Average impact factor: 12.392)

1. U. Ryu, S.H. Jee, M.W. Park*, K. M. Choi*, Nanocrystalline Titanium Metal–Organic Frameworks for Highly Efficient and Flexible Perovskite Solar Cells, *ACS Nano*, 2018, 12, 5, 4968
2. K. M. Choi#, D. Kim#, B. Rungtaweeworanit, C. A. Trickett, J. T. D. Barmanbek, P. Yang*, O. M. Yaghi*, Plasmon-Enhanced Photocatalytic CO₂ Conversion within Metal-Organic Frameworks Under Visible Light, *Journal of the American Chemical Society*, 2017, 139, 356 (Published in January 11, 2017; Impact factor: 13.858)
3. K. M. Choi#, K. Na#, G. A. Somorjai, O. M. Yaghi, Chemical environment control and enhanced catalytic performance of Pt nanoparticles embedded in nanocrystalline metal-organic frameworks, *Journal of the American Chemical Society*, 2015, 137, 7810 (Published in June 24, 2015; Impact factor: 13.858; Times cited: 101)
4. K. Na#, K. M. Choi#, O. M. Yaghi, G. A. Somorjai, Metal nanocrystals embedded in single nanocrystals of MOFs give unusual selectivity as heterogeneous catalysts, *Nano Letters*, 2014, 14, 5979 (Published in September 8, 2014; Impact factor: 12.712; Times cited: 120)
5. K. M. Choi, H. M. Jeong, J. H. Park, Y.-B. Zhang, J. K. Kang, O. M. Yaghi, Supercapacitors of nanocrystalline metal-organic frameworks, *ACS Nano*, 2014, 8, 7451 (Published in July 22, 2014; Impact factor: 13.943; Times cited: 198) - **Highlighted in Green Car Congress in August 7, 2014**
6. K. M. Choi, H. J. Jeon, J. K. Kang, Omar M. Yaghi, Heterogeneity within order in crystals of a porous metal-organic framework, *Journal of the American Chemical Society*, 2011, 133, 11920 (Published in August 10, 2011; Impact factor: 13.858; Times cited: 119)