

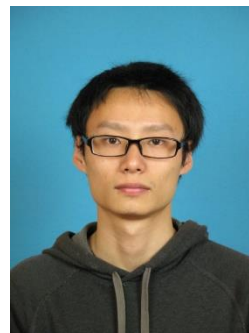
Xiaofeng Huang

Assistant Research Professor – 2018

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Hometown: Shanghai, China



■ EDUCATION

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| 2006-2010 | Bachelor, Tongji University |
| 2010-2015 | Ph.D., Tongji University |
| 2015-2017 | Post doctoral, ShanghaiTech University |

■ PERSONAL INFORMATION

Good good study, day day up.

■ RESEARCH INTERESTS

Electrochemical conversion of CO₂ to hydrocarbon fuel, nanomaterials,

■ PUBLICATIONS

1. Huang, X. F.; Shen Q.; Liu, J. B.; Yang, N. J.; Zhao, G. H. A CO₂ Adsorption-enhanced Semiconductor/Metal-complex Hybrid Photoelectrocatalytic Interface for Efficient Formate Production. *Energy Environ. Sci.*, 2016, 9, 3161-3171.
2. Huang, X. F.; Cao, T. C.; Liu, M. C.; Zhao, G. H. Synergistic Photoelectrochemical Synthesis of Formate from CO₂ on {111} Hierarchical Co₃O₄. *J. Phy. Chem. C*, 2013, 117, 26432-26440.
3. Huang, X. F.; Zhao, G. H. Liu, M. C.; Li, F. T.; Qiao, J. L.; Zhao, S. C. Highly Sensitive Electrochemical Determination of 1-Naphthol Based on High-index Facet SnO₂ modified electrode. *Electrochim. Acta*, 2012, 83, 478-484.
4. Shen, Q.; Huang, X. F.; Liu, J. B.; Guo, C. Y.; Zhao, G. H. Biomimetic Photoelectrocatalytic Conversion of Greenhouse Gas Carbon Dioxide: Two-electron Reduction for Efficient Formate Production. *Appl. Catal. B: Environ.*, 2017, 201, 70-76.
5. Shen, Q.; Chen, Z. F.; Huang, X. F.; Liu, M. C.; Zhao, G. H. High-yield and Selective Photoelectrocatalytic Reduction of CO₂ to Formate by Metallic Copper Decorated Co₃O₄ Nanotube Arrays. *Environ. Sci. Technol.*, 2015, 49: 5825-5835.
6. Zhang, Y. J.; Zhao, G. H.; Shi, H. J.; Zhang, Y. N.; Huang, W. N.; Huang, X. F.; Wu, Z. Y. Photoelectrocatalytic Glucose Oxidation to Promote Hydrogen Production over Periodically Ordered TiO₂ Nanotube Arrays Assembled of Pd Quantum Dots. *Electrochim. Acta*, 2015, 174, 93-101.
7. Zhang, Y. J.; Zhao, G. H.; Zhang, Y. N.; Huang, X. F.; Highly Efficient Visible-light-driven Photoelectrocatalytic Selective Aerobic Oxidation of Biomass alcohols to Aldehydes. *Green. Chem.*, 2014, 16, 3860-3869.

■ PRESENTATIONS

International Seminar on Aerogels-2014(Hamburg, Germany): 2014.10.03-12

Oral Presentation: "Assembling and Characterization of Photoelectrocatalysts on Carbon Aerogel"

■ FELLOWSHIPS AND AWARDS:

■ PROFESSIONAL SKILLS

Devices: Electrochemical workstation, gas/liquid chromatography, UV, IR, Raman, XRD, SEM, AFM.

Software: Materials Studio