Curriculum Vitae

Prof. Dr. Haiwei Liang

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University of Science and Technology of China
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EMPLOYMENT

01/2016-Present: University of Science and Technology of China (USTC), Hefei, China
Professor, Department of Chemistry

05/2012-12/2015: Max Planck Institute for Polymer Research (MPIP), Mainz, Germany
Postdoctoral Research Fellow

06/2011-05/2012: University of Science and Technology of China (USTC), Hefei, China
Postdoctoral Research Fellow

EDUCATION

09/2006-06/2011: University of Science and Technology of China (USTC)
Ph.D., Inorganic chemistry
Advisor: Prof. Dr. Shu-Hong Yu

09/2002-07/2006: B.S. East China Normal University (ECNU)

RESEARCH INTERESTS

■ Large-scale fabrication, chemical functionalization, and applications of biomass-based nanostructures, such as cellulose, chitin, protein, $CaCO_3$ etc. The fabrication method includes "bottom-up", e.g. assembling molecules by nanochemistry or bionanotechnology, and "top-down", e.g. direct exfoliation of biomass.

■ Design and synthesis carbon-based non-precious metal electrocatalysts for energy applications, including, oxygen reduction reaction, water splitting, CO_2 reduction, etc.

SELECTED PUBLICATION

1. **Liang, H.-W.**; Brüller, S.; Dong, R.; Zhang, J.; Feng, X.*; Müllen, K.*, Molecular Metal-N_x Centers in Porous Carbon for Electrocatalytic Hydrogen Evolution. ***Nat. Commun.*** 2015, 6, 7992.

2. **Liang, H.-W.**; Zhuang, X.; Brüller, S.; Feng, X.*; Müllen, K.*, Hierarchically Porous Carbons with Optimized Nitrogen Doping as Highly Active Electrocatalysts for Oxygen Reduction. ***Nat. Commun.*** 2014, 5, 4973. (Times Cited: 15)

3. **Liang, H.-W.**; Wei, W.; Wu, Z.-S.; Feng, X.*; Müllen, K.*, Mesoporous Metal–Nitrogen-Doped Carbon Electrocatalysts for Highly Efficient Oxygen Reduction Reaction. ***J. Am. Chem. Soc.*** 2013, 135, 16002-16005. (Times Cited: 82)

4. **Liang, H.-W.**; Liu, J.-W.; Qian, H.-S.; Yu, S.-H.*, Multiplex Templating Process in One-Dimensional Nanoscale: Controllable Synthesis, Macroscopic Assemblies, and Applications. ***Acc. Chem. Res.*** 2013, 46, 1450-1461. (Times Cited: 38; Most-Accessed Article)

5. **Liang, H.-W.**; Guan, Q.-F.; Chen, L.-F.; Zhu, Z.; Zhang, W.-J.; Yu, S.-H.*, Macroscopic-Scale Template Synthesis of Robust Carbonaceous Nanofiber Hydrogels and Aerogels and Their Applications. ***Angew. Chem. Int. Ed.*** 2012, 51, 5101-5105. (Times Cited: 122; Highly Cited Paper, highlighted by Chemistry Views, NAFIGATE,

and Angew. Chem. Int. Ed.)

6. **Liang, H.-W.**; Cao, X.; Zhou, F.; Cui, C.-H.; Zhang, W.-J.; Yu, S.-H.*, A Free-Standing Pt-Nanowire Membrane as a Highly Stable Electrocatalyst for the Oxygen Reduction Reaction. ***Adv. Mater.*** 2011, 23, 1467-1471. (Times Cited: 131; Highly Cited Paper; Advances in Advance paper)

7. **Liang, H. W.**; Wang, L.; Chen, P. Y.; Lin, H. T.; Chen, L. F.; He, D. A.; Yu, S. -H.*, Carbonaceous Nanofiber Membranes for Selective Filtration and Separation of Nanoparticles. ***Adv. Mater.*** 2010, 22, 4691-4695. (Times Cited: 61)

8. **Liang, H.-W.**; Liu, S.; Yu, S.-H.*, Controlled Synthesis of One-Dimensional Inorganic Nanostructures Using Pre-Existing One-Dimensional Nanostructures as Templates. ***Adv. Mater.*** 2010, 22, 3925-3937. (Times Cited: 118; Highly Cited Paper)

9. **Liang, H. W.**; Liu, S.; Gong, J. Y.; Wang, S. B.; Wang, L.; Yu, S. -H.*, Ultrathin Te Nanowires an Excellent Platform for Controlled Synthesis of Ultrathin Platinum and Palladium Nanowires/Nanotubes with Very High Aspect Ratio. ***Adv. Mater.*** 2009, 21, 1850-1854. (Times Cited: 100; Advances in Advance paper)

AWARDS & HONORS

2016 National 1000 Young Talents Plan (Recruitment Program of Global Youth Experts)

2014 1st Prize of Natural Sciecne Award of Anhui Province, P. R. China (Second place)

2013 National Excellent Doctoral Dissertation Award

2012 CAS Excellent Doctoral Dissertation Award

2011 Special Prize of the CAS's President Scholarship for Graduate Student (1% Top)

2010 Scholarship Award for Excellent Doctoral Student granted by Ministry of Education

2010 Qiu Shi Graduate Student Scholarship (3% Top)