

## Representative Publication of Prof. Guo HONG

1. X. Kong, H. Peng, S. Bu, Q. Gao, T. Jiao, J. Cheng, B. Liu, G. Hong, C. S. Lee, W. Zhang, Defect engineering of nanostructured electrocatalysts for enhancing nitrogen reduction. **Journal of Materials Chemistry A** 8, 7457-7473 (2020)
2. C. Li, Q. Zhang, T. Li, B. He, P. Man, Z. Zhu, Z. Zhou, L. Wei, K. Zhang, G. Hong, Y. Yao, Nickel metal-organic framework nanosheets as novel binder-free cathode for advanced fibrous aqueous rechargeable Ni-Zn battery. **Journal of Materials Chemistry A** 8, 3262-3269 (2020)
3. G. Li, D. Dong, G. Hong, L. Yan, X. T. Zhang, W. H. Song, High-efficiency cryo-thermocells assembled with anisotropic holey graphene aerogel electrodes and a eutectic redox electrolyte. **Advanced Materials** 1901403 (2019)
4. L. Han, Y. L. Zhong, Y. Su, L. T. Wang, L. S. Zhu, X. F. Fei, Y. Z. Dong, G. Hong, Y. T. Zhou, D. Fang, Nanocomposites based on 3D macroporous biomass carbon with SnS<sub>2</sub> nanosheets hierarchical structure for efficient removal of hexavalent chromium. **Chemical Engineering Journal** 369, 1138-1149. (2019)
5. G. Y. Li, G. Hong, D. P. Dong, W. H. Song, X. T. Zhang, Multiresponsive Graphene-Aerogel-Directed Phase-Change Smart Fibers. **Advanced Materials** 30, 1801754 (2018)
6. G. Hong, Y. Han, T. M. Schutzius, Y. M. Wang, Y. Pan, M. Hu, J. S. Jie, C. S. Sharma, U. Muller, D. Poulikakos, On the mechanism of hydrophilicity of graphene. **Nano Letters** 16, 4447-4453 (2016)
7. G. Hong, Q. H. Wu, J. G. Ren, C. D. Wang, W. J. Zhang, S. T. Lee, Recent progress in organic molecule/graphene interfaces. **Nano Today** 8, 388-402 (2013)
8. G. Hong, M. Zhou, R. X. Zhang, S. M. Hou, W. Choi, Y. S. Woo, J. Y. Choi, Z. F. Liu, J. Zhang, Separation of metallic and semiconducting single-walled carbon nanotube arrays by “scotch tape”. **Angewandte Chemie** 50, 6819-6823 (2011)
9. G. Hong, B. Zhang, B. H. Peng, J. Zhang, W. M. Choi, J. Y. Choi, J. M. Kim, Z. F. Liu, Direct growth of semiconducting single-walled carbon nanotube array. **Journal of American Chemical Society** 131, 14642–14643 (2009)
10. For more details, please visit our group website at: <https://ghong5.wixsite.com/letme>