

Publications for Xuncaï Chen

2018

Lei, Y., Wei, L., Zhai, S., Wang, Y., Karahan, H., Chen, X., Zhou, Z., Wang, C., Sui, X., Chen, Y. (2018). Metal-free bifunctional carbon electrocatalysts derived from zeolitic imidazolate framework for efficient water splitting. *Materials Chemistry Frontiers*, 2, 102-111. [More Information]

Chen, X., Wei, L., Wang, Y., Zhai, S., Chen, Z., Tan, S., Zhou, Z., Ng, A., Liao, X., Chen, Y. (2018). Milk powder-derived bifunctional oxygen electrocatalysts for rechargeable Zn-air battery. *Energy Storage Materials*, 11, 134-143. [More Information]

Zhai, S., Wang, C., Karahan, H., Wang, Y., Chen, X., Sui, X., Huang, Q., Liao, X., Wang, X., Chen, Y. (2018). Nano-RuO₂-Decorated Holey Graphene Composite Fibers for Micro-Supercapacitors with Ultrahigh Energy Density. *Small*, 14(29), 1-13. [More Information]

Qiu, X., Xu, X., Chen, X., Wu, Y., Guo, H. (2018). Preparation of a molecularly imprinted sensor based on quartz crystal microbalance for specific recognition of sialic acid in human urine. *Analytical and Bioanalytical Chemistry*, 410(18), 4387-4395. [More Information]

Chen, X., Zhou, Z., Karahan, H., Shao, Q., Wei, L., Chen, Y. (2018). Recent Advances in Materials and Design of Electrochemically Rechargeable Zinc_{1/2}Air Batteries. *Small*, 14(44), 1801929(1)-1801929(29). [More Information]

Tan, S., Chen, X., Zhai, S., Ebrahimi Ghadi, A., Langrish, T., Chen, Y. (2018). Spray drying assisted synthesis of porous carbons from whey powders for capacitive energy storage. *Energy*, 147, 308-316. [More Information]

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Wei, L., Goh, K., Birer, O., Karahan, H., Chang, J., Zhai, S., Chen, X., Chen, Y. (2017). A hierarchically porous nickel-copper phosphide nano-foam for efficient electrochemical splitting of water. *Nanoscale*, 9(13), 4401-4408. [More Information]

Wei, L., Karahan, H., Zhai, S., Liu, H., Chen, X., Zhou, Z., Lei, Y., Liu, Z., Chen, Y. (2017). Amorphous Bimetallic Oxide-Graphene Hybrids as Bifunctional Oxygen Electrocatalysts for Rechargeable Zn-Air Batteries. *Advanced Materials*, 29(38), 1-10. [More Information]

Tan, S., Chen, X., Cui, C., Hou, Y., Li, W., You, H. (2017). Biodegradation of saline phenolic wastewater in a biological contact oxidation reactor with immobilized cells of *Oceanimonas* sp. *Biotechnology Letters*, 39(1), 91-96. [More Information]

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Tan, S., Cui, C., Hou, Y., Chen, X., Xu, A., Li, W., You, H. (2017). Cultivation of activated sludge using sea mud as seed to treat industrial phenolic wastewater with high salinity. *Marine Pollution Bulletin*, 114(2), 867-870. [More Information]

Tan, S., Cui, C., Chen, X., Li, W. (2017). Effect of bioflocculation on fouling-related biofouling in a membrane bioreactor during saline wastewater treatments. *Bioresource Technology*, 224, 285-291. [More Information]

Zhou, Z., Wei, L., Wang, Y., Karahan, H., Chen, Z., Lei, Y., Chen, X., Zhai, S., Liao, X., Chen, Y. (2017). Hydrogen evolution reaction activity of nickel phosphide is highly sensitive to electrolyte pH. *Journal of Materials Chemistry A*, 5(20390), 20397. [More Information]

Zhai, S., Karahan, H., Wei, L., Chen, X., Zhou, Z., Wang, X., Chen, Y. (2017). Hydrothermal assembly of micro-nano-integrated core-sheath carbon fibers for high-performance all-carbon micro-supercapacitors. *Energy Storage Materials*, 9, 221-228. [More Information]

Tan, S., Hou, Y., Cui, C., Chen, X., Li, W. (2017). Real-time monitoring of biofouling in a membrane bioreactor during saline wastewater treatment for anti-fouling strategies. *Bioresource Technology*, 224, 183-187. [More Information]