



Department: School of Chemical Engineering

Professional field: Chemical Engineering and Technology

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## Profile

### Education

2005: PhD, Chemical Engineering, East China University of Science and Technology, China.

1995: MS, Chemical Engineering, North-West University, China.

1992: BS, Chemical Engineering, North University of China, China.

### Education:

2002.9~2005.6, Dr. Degree, Department of Chemical Engineering, East China University of Science and Technology, Major in Chemical Engineering, Studies on the Preparation and Characteristics of molecularly imprinted composite hollow membranes.

2.1992.9~1995.6, Master Degree, Department of Chemical Engineering, North-West University, Major in Chemical Engineering, Studies on the Experimental Research of Diallyl 2,2'-oxydiethyl dicarbonate (CR-39) Preparation.

3.1988.9~1992.6, Department of Chemical Engineering, North China Institute of Technology, Major in Chemical Engineering and gained Bachelor Degree.

### Academic Experience

2005-present: Senior engineer, School of Chemical Engineering, ECUST, China.

1997-2002: Engineer, Sinopec Shanghai Petrochemical Company Limited, China.

2015-2016: Visiting Scholar, Engineering Department, Houston, Texas, America.

2012-2014: Postdoctoral Research, Chemical Engineering Department, Juhua Group Corporation.

## Research Field

Material chemical engineering, functional separation membrane, new separation technology, water treatment, etc.

## Research results and selected published papers

1. Y. Xu, Z.G. Yang\*, et al.  $\gamma$ -butyrolactone and glutaronitrile as 5 V electrolyte additive and its electrochemical performance for  $\text{LiNi}_0.5\text{Mn}_{1.5}\text{O}_4$ . Journal of Alloys and Compounds, 698:207-214 (2017).
2. Y. Xu, Z.G. Yang\*, et al. FEC as the additive of 5 V electrolyte and its electrochemical performance for  $\text{LiNi}_0.5\text{Mn}_{1.5}\text{O}_4$ . Journal of Electroanalytical Chemistry, 791:109-116 (2017).
3. H.T. Ying, Z.G. Yang\*. The study on semiconductive shielding material filling with graphene for power cable. Advances in Engineering Research (AME-17), 17:288-292 (2017).
4. H.T. Ying, Z.G. Yang\*. The Application of Modified Graphene with KH570 Used in Semiconductive Shielding Material of power cable. Chemical and Biomolecular Engineering. 2017.
5. Z.G. Yang\*. Study on diesel exhaust resolution with coupled LNT-SCR dual-layer catalysts. GCCES, 2016.
6. Z.G. Yang\*. Study on simulation of  $\text{NO}_x$  storage/reduction and selective catalytic reduction on coupled LNT-SCR dual-layer catalysts. GCCES, 2016.
7. Z.G. Yang\*, X.H. Wei. Hydrophobic Modification of Polysulfone Membrane Surface with 3-aminopropyltriethoxy silane. GCCES 2016.
8. Z.G. Yang\*, S.R. He. Catalysis Purifying of Cooking Fume over Honeycomb Ceramic Pt Catalyst and Metal Foam Pt Catalyst. GCCES 2016.
9. Y. Zhao, Z.G. Yang\*. Computational simulation study on thermodynamics of glycolic acid synthesis. Chemical Research and Application, 28:8-13 (2016).
10. X.H. Wei, Z.G. Yang\*. Hydrophobic Modification of Polysulfone Membrane Surface. Journal of Functional Polymers. 28:417-422 (2015).