

## 个人简介:

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技术职务：教授        专业及学历：制药工程 博士  
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## 工作及教育经历:

2012/11–至今，天津工业大学 化学与化工学院 教授  
2009/09–2015/10，天津工业大学 化学与化工学院 副教授  
2007/09–2009/10，天津工业大学 化学与化工学院 讲师  
2003/09–2007/06，中国科学院植物研究所 博士研究生

## 研究方向:

1. 特种分离膜材料的制备和应用，特种纤维用树脂合成与纤维应用技术开发；
2. 生物质的综合利用研究，多相催化材料制备与应用、精细化学品催化合成。

## 主持及参加的科研项目:

1. 湖北应城市天润产业用布有限责任公司，3 吨低蠕变，抗氧化和耐高温 PPS 纤维制备，2017/10-2019/06，在研，主持；
2. 中石化项目，217008-6，聚苯硫醚技术研究及产品开发，170 万（总 1630 万），2017/01-2020/12，在研，参加；
3. 国家自然科学基金青年基金项目，51508384，可控合成单晶面 Ni 基双金属催化剂及其对水中联氨化合物的降解机制，2016/01-2018/12，20 万元，已结题，参加；
4. 国家自然科学基金面上项目，21376177， $AmSnOm$  靶向催化二甲氧基碳酸双酚 A 二酯合成，缩合及反应机理研究，2013/01-2017/12，80 万，已结题，参与；
5. 中石化项目，216090，工程塑料用聚苯硫醚产品的研究开发，2016/01- 2017/12，80 万，已结题，参加；
6. 太原市晋华恒远科技有限公司，聚苯硫醚中空纳滤纤维膜性能分析，2015/01-2016/12，8 万，已结题，主持；
7. 安徽东锦资源再生科技有限公司，再生涤纶纺丝工艺及后续产品研发，

- 2015/01-2016/12, 10 万, 已结题, 主持;
8. 山东禹城易澳科技有限公司, 超纯碳酸二丁酯合成技术, 2014/03 -2015/12, 180 万, 已结题, 参加;
  9. 中国纺织工业联合会应用基础研究, J201406, 中空纤维膜用聚苯硫醚基树脂制备, 结构调控及其膜应用研究, 2015/01-2017/12, 20 万, 已结题, 主持;
  10. 中石化项目, 215038, 聚苯硫醚聚合机理和聚合过程调控技术研究, 2015/01-2016/12, 80 万, 已结题, 参加;
  11. 天津石化, 康师傅包装专用熟料生物安全性研究, 2012/01-2015/12, 10 万, 已结题, 主持;
  12. 天津市自然科学基金重点项目, 12JCZDJC29800, 杂化石墨烯催化纤维素一锅法绿色转化制备 5-HMF, 2012/04-2015/03, 20 万, 已结题, 参加;
  13. 国家自然科学基金, 21006071, 结构单元厚度的 MFI 片层上复合杂化有机氧化锡的催化剂制备及其强化 DmC(1)合成的研究, 2011/01-2013/12, 19 万, 已结题, 参加;
  14. 天津市自然科学基金面上项目, 09JCYBJC03000, 碳酸二甲酯绿色可控合成双酚 A 型聚碳酸酯的研究, 2009/04-2012/03, 10 万, 已结题, 参加;
  15. 天津市高等学校自然科学基金, 2007067, 离子液体调控聚碳酸酯的合成及聚酯性能考察, 2007/03-2010/04, 2 万, 已结题, 参加;
  16. 天津市高等学校自然科学基金(特派员), 烧结形成致密陶瓷结构阻燃电缆的合成及性能测试, 2009/01-2010/12, 3 万, 已结题, 参加;
  17. 阿莱斯国际有限公司, 油墨用酚醛树脂的合成研究, 2008/01-2011/12, 30 万, 已结题, 参加;
  18. 纺织协会项目, 闪蒸纺制备聚苯硫醚无纺布极其性能研究, 2009/01-2012/12, 40 万, 已结题, 参加;
  19. 国家自然科学基金青年基金, 30900092, 两个不同谱系 DEF/AP3 亚家族基因在花发育过程中调控机制研究, 2010/01-2012/12, 19 万, 已结题, 主持;
  20. 山东鲁抗药品经营有限公司, 磺胺类药物的合成与改性研究, 2008/03-2010/03, 12 万, 已结题, 主持;

### **代表性学术论文:**

1. Lei Cao, Xinghai Zhou, Zhenhuan Li, Kunmei Su, Bowen Cheng, Nitrogen and Fluorine Hybridization State Tuning in Hierarchical Honeycomb-like Carbon Nanofibers for Optimized Electrocatalytic ORR in Alkaline and Acidic Electrolytes, *Journal of Power Sources*, 2019, 413, 376-383.
2. Zhao Zhang, Kunmei Su, Zhenhuan Li, Carboxylic Anhydride Synthesis from  $\gamma$ -Benzyl-L-glutamate and Dimethyl Carbonate, *Organic Letters*, 2019, 21, 749-752.
3. Yuan Gao, Kunmei Su, Xiaotian Wang, Zhenhuan Li, A metal-Nano GO frameworks/PPS membrane with super water flux and high dye interception, *Journal of Membrane Science*, 2018, 574, 55-64.
4. Yanan Liang, Kunmei Su, Zhenhuan Li, Lithium doped TiO<sub>2</sub> as catalysts for the transesterification of DMC with BPA, *Molecular Catalysis*, 2018, 465, 16-23
5. Zhenhuan Li, Kunmei Su, Jun Ren, Dongjiang Yang, Bowen Cheng, C. K. Kim & Xiangdong Yao, Direct catalytic conversion of glucose and cellulose. *Green Chem.* 2018, 20(4), 863-872.
6. Yan Xu, Zhenhuan Li, Kunmei Su, Tingting, Fan & Lei Cao. Mussel-inspired modification of PPS membrane to separate and remove the dyes from the wastewater. *Chem. Eng. J.*, 2018, 341, 371-382.
7. Yuan Gao, Zhenhuan Li, Bowen Cheng, Kunmei Su, Superhydrophilic poly (p-phenylene sulfide) membrane preparation with acid/alkali solution resistance and its usage in oil/water separation. *Sep. Purif. Technol.* 2018, 192, 262-270.
8. Yuan Gao, Kunmei Su, Zhenhuan Li\*, Bowen Cheng, Graphene oxide hybrid poly (p-phenylene sulfide) nanofiltration membrane intercalated by bis (triethoxysilyl) ethane. *Chem. Eng. J.*, 2018, 352, 10-19.
9. Yongzhi Zhang, Kunmei Su, Zhenhuan Li\*, Graphene Oxide Composite Membranes Cross-linked with Urea for Enhanced Desalting Properties. *J. Membrane Sci.* 2018, 563, 718-725.
10. Chao Wang, Yinggai Ma, Kunmei Su, Zhenhuan Li\*, Amino acid modified PHBHHx through N-carboxyanhydride ring-opening polymerization. *Mater. Lett.*, 2018, 231, 201-204.

11. Lei Cao, Zhenhuan Li, Yu Gu, Daohao Li, Kunmei Su, Dongjiang Yang, Bowen Cheng. Rational design of N-doped carbon nanobox-supported Fe/Fe<sub>2</sub>N/Fe<sub>3</sub>C nanoparticles as efficient oxygen reduction catalysts for Zn–air batteries, *J. Mater. Chem. A*, 2017, 5(22): 11340-11347.
12. Yali Bai, Zhenhuan Li, Bowen Cheng, Maliang Zhang, Kunmei Su, Higher UV-shielding ability and lower photocatalytic activity of TiO<sub>2</sub>@ SiO<sub>2</sub>/APTES and its excellent performance in enhancing the photostability of poly(p-phenylene sulfide). *RSC Adv.*, 2017, 7(35), 21758-21767.
13. Qinghua Wang, Kunmei Su, Zhenhuan Li, Performance of [Emim] Br,[Bmim] Br and 2, 5-furandicarboxylic acid in fructose conversion to 5-hydroxymethylfurfural. *Mol. Catal.*, 2017, 438, 197-203.
14. Shuang Li, Kunmei Su, Zhenhuan Li, Bowen Cheng, Selective oxidation of 5-hydroxymethylfurfural with H<sub>2</sub>O<sub>2</sub> catalyzed by a molybdenum complex, *Green Chem.* 2016, 18: 2122-2128.
15. Xuyan Wang, Kunmei Su, Zhenhuan Li, Bowen Cheng, The larger area graphene formation from the small GO sheet in presence of basic divalent sulfide species and its usage in biomass conversion, *RSC Advances*, *RSC Adv.* 2016, 6: 11176-11184.
16. Lechen Diao, Kunmei Su, Zhenhuan Li, Changkun Ding, Furan-based co-polyesters with enhanced thermal property: poly(1,4-butylene-co-1,4-cyclohexanedimethylene 2,5-furandicarboxylic acid), *RSC Adv.* 2016, 6: 27632-27639.
17. Yuan Gao, Kunmei Su, Zhenhuan Li, Bowen Cheng, Excellent performance of TiO<sub>2</sub>(B) nanotubes in selective transesterification of DMC with phenol derivatives, *Chem. Eng. J.* 2016, 301: 12-18.
18. Lei Cao, Zhenhuan Li, Kunmei Su, Bowen Cheng, Hydrophilic Graphene Preparation from Gallic Acid Modified Graphene Oxide in Magnesium Self-Propagating High Temperature Synthesis Process, *Scientific Reports*, 2016, 6: 35184.
19. Yuan Gao, Zhenhuan Li , Kunmei Su, Bowen Cheng, Excellent performance of

- TiO<sub>2</sub>(B) nanotubes in selective transesterification of DMC with phenol derivatives, *Chemical Engineering Journal*, 2016, 301: 12-18.
20. Shuang Li, Kunmei Su, Zhenhuan Li, Bowen Cheng, Selective oxidation of 5-hydroxymethylfurfural with H<sub>2</sub>O<sub>2</sub> catalyzed by a molybdenum complex, *Green Chemistry*, 2016, 18(7): 2122-2128.
  21. Maliang Zhang, Kunmei Su, Huanmeng Song, Zhenhuan Li, Bowen Cheng, The excellent performance of amorphous Cr<sub>2</sub>O<sub>3</sub>, SnO<sub>2</sub>, SrO and graphene oxide–ferric oxide in glucose conversion into 5-HMF, *Catal. Commun.* 2015, 5: 76-80.
  22. Ranran Xia, Zhenhuan Li, Bowen Cheng, Kunmei Su, The structure of organotin oxides playing a key role on the transesterification of dimethyl carbonate with hydrogenated bisphenol A. *Korean J. Chem. Eng.* 2014, 31(3): 427-430.
  23. Yinggai Ma, Zhenhuan Li, kunmei Su, Bowen Cheng, Autocatalytic esterification of glutamic acid by Benzyl Alcohol with CuCl<sub>2</sub> promoting. *Catal. Commun.* 2014, 48: 15-18.
  24. Kunmei Su, Xin Liu, Min Ding, Zhenhuan Li, Bowen Cheng, Effective conversion sucrose into 5-hydroxymethylfurfural by tyrosine in [Emim]Br, *J. Mol. Catal. A* 2013, 379 (15): 350-354.
  25. Xiaolong He, Zhenhuan Li, Kunmei Su, Bowen Cheng, Jun Ming, Study on the reaction between bisphenol A and dimethyl carbonate over organotin oxide, *Catal. Commun.* 2013, 33: 20-23.
  26. Zhenhuan Li, Kunmei Su, Bowen Cheng, Jun Ming, Lei Zhang, Yongchao Xu, Promotion of organotin modified SBA-15 in the selective carboxylation of BPA with DMC, *Catal. Commun.* 2011, 12: 932-935.
  27. Kunmei Su, zhenhuan Li, Bowen Cheng, Lei Zhang, Maliang Zhang, Jun Ming, The studies on the Friedel-Crafts acylation of toluene with acetic anhydride over PW/TiO<sub>2</sub>, *Fuel Process. Technol.* 2011, 92: 2011-2015.
  28. Kunmei Su, Zhenhuan Li, Bowen Cheng, Kun liao, Dexin Shena, Yufei Wang, Studies on the carboxymethylation and methylation of bisphenol A with dimethyl carbonate over TiO<sub>2</sub>/SBA-15, *J. Mol. Catal. A: Chem.* 2010, 315: 60-68.
  29. Zhenhuan Li, Kunmei Su, Bowen Cheng\*, Yanchao Deng, Organically modified

- MCM-type material preparation and its usage in controlled moxycillin delivery, *J. Colloid Interface Sci.* 2010, 342: 607-613.
30. Zhenhuan Li, Kunmei Su, Bowen Cheng, Effects of VO<sub>x</sub>/AlMCM-41 surface structure on ethylbenzene oxydehydrogenation in the presence of CO<sub>2</sub>, *Catal. Lett.* 2010, 135: 135-140.
  31. Kunmei Su, Zhenhuan Li, Bowen Cheng, Yuanlin Ren, Lingli Yu, Fan Wang, Catalytic performance of metal oxide modified MCM-41 catalyst in Diphenyl carbonate synthesis, *Kinetics and Catalysis.* 2010, 51(3): 359-363.
  32. Zhenhuan Li, Bowen Cheng, Kunmei Su, Debenzylation of benzyl phenyl ether and its derivatives with acetic anhydride over zeolite, *Catal. Commun.* 2009, 10: 518-521.
  33. Zhenhuan Li, Bowen Cheng, Kunmei Su, Yu Gu, Yuanlin Ren, Peng Xi, The Synthesis of Diphenyl Carbonate from Dimethyl Carbonate and Phenol over Mesoporous MoO<sub>3</sub>/SiMCM-41, *J. Mol. Catal. A: Chem.* 2008, 289: 100-105.
  34. Kunmei Su, Zhenhuan Li, Bowen Cheng, Yuanlin Ren, The decomposition of CCl<sub>4</sub> into Diphenyl Carbonate over MCl<sub>γ</sub>/SiMCM-41, *Catal. Commun.* 2008, 9: 1666-1670.
  35. Zhenhuan Li, Kunmei Su, The direct reaction between CO<sub>2</sub> and phenol catalyzed by bifunctional catalyst ZrO<sub>2</sub>, *J. Mol. Catal. A: Chem.* 2007, 277: 180-184.

### 代表性专利:

- 1、一种具有自熄性和无熔滴的 PPS 纤维的制备方法、2017、ZL201510631820.5;
- 2、一种聚苯硫醚/石墨烯复合材料的制备方法、2018、ZL201510350644.8;
- 3、一种合成碳酸二丁酯的方法、2016、ZL201410309109.3;
- 4、一种制备 5-羟甲基糠醛的方法、2014、ZL201210377712.6;
- 5、一种中间体二甲氧基碳酸双酚 A 二酯的制备方法、2014、ZL201110364553.1;
- 6、一种合成二甲氧基碳酸双酚 A 二酯催化剂的制备方法、2014、ZL201410312867.0;
- 7、一种 5-羟甲基糠醛制备 2, 5-呋喃二甲酸的方法、2017、ZL201510395096.0;

- 8、一种磺酸和硫醚协同杂化石墨烯催化剂的制备方法、2017、ZL201510308998.6;
- 9、一种石墨烯负载金属氧化物催化剂的制备方法、2018、ZL201510292763.2;
- 10、一种合成二甲氧基碳酸双酚 A 二酯的催化剂及其制备方法、2018、ZL201610130596.6; 高媛 授权
- 11、一种 2,5-呋喃二甲酸基聚酯纤维的制备方法、2018、ZL201611049260.3 李立博授权