



所属学院 化工学院

学科领域 化学工程与技术

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个人简介

2002–2006, 波尔图大学, 化学工程, 博士

1985–1988, 大连理工大学, 化学工程, 硕士

1981–1985, 大连理工大学, 化学工程, 学士

研究方向

分离与反应耦合过程, 吸附基础理论与应用, 先进的模拟移动床技术应用, 变压吸附应用, 手性药物分离, 微生物浸矿等应用, 二氧化碳、甲烷以及有机挥发物的吸附捕集回收。

研究成果及主要发表文章

申请的发明专利：

一种利用电解吸附技术捕集二氧化碳的方法，中国，ZL201010104442.2

一种真空变压变温耦合吸附捕集烟道气中二氧化碳的方法，中国，ZL201010023008.

多柱模拟移动床色谱技术连续分离氨鲁米特外消旋体的方法，中国，2016108186008.8

一种模拟移动床吸附分离甲烷氮气制备高纯度甲烷的方法，中国，201711100129.X

近年来发表的代表性论文：

1. Ping Li ; Guohua Xiu; Rodrigues AE, Modelling Diffusion and Reaction for Inert-Core Catalyst in Batch and Fixed Bed Reactors, Can. J. Chem. Eng., 2019, 97: 217~225.

2. Tongyichao Qi; Ying Yang; Yijiang Wu; Jin Wang; Ping Li ; Jianguo Yu, Sorption-enhanced methanol steam reforming for hydrogen production by combined copper-based catalysts with hydrotalcites, Chemical Engineering & Processing: Process Intensification, 2018, 127: 72~82

3. Qu DL; Yang Y; Lu K; Yang L; Li P ; Yu JG; Ribeiro AM; Rodrigues AE, Microstructure effect of carbon materials on the low-concentration methane adsorption separation from its mixture with nitrogen, Adsorption, 2018, 24: 357~369.

4. Ying Yang; Yijiang Wu; Haiqing Liu; Ana M. Ribeiro; Ping Li ; Jianguo Yu; Alirio E. Rodrigues, Enrichment of ventilation air methane by adsorption with displacement chromatography technology: Experiment and numerical simulation, Chemical Engineering Science, 2016, 149: 215~228.

5. Yijiang Wu; Ying Yang; Xiangming Kong; Ping Li ; Jianguo Yu; Ribeiro AM; Rodrigues AE, Adsorption of Pure and Binary CO₂, CH₄, and N₂ Gas Components on Activated Carbon Beads., Journal of Chemical & Engineering Data, 2015, 60(9): 2684~2693.

6. Jiali Xiao; Shuying Sun ; Xingfu Song; ; Jianguo Yu, Ping Li, Lithium ion recovery from brine using granulated polyacrylamide–MnO₂ ion-sieve., Chemical Engineering Journal, 2015, 279: 659~666

7. Ping Li ; Pedro Ferreira Gomes; José M. Loureiro; Alirio E Rodrigues , Chapter 1. Proteins Separation and Purification by Expanded Bed Adsorption and Simulated Moving Bed Technology, Wiley-VCH Verlag GmbH & Co. KGaA, 2015

8. Rujin Gong; Xiaojian Lin; Ping Li ; Jianguo Yu, Adsorption equilibrium and kinetic study of guaifenesin enantiomers on cellulose tri(3,5-dimethylphenyl)carbamate packed column, Chemical Engineering Journal, 2014, 244(1): 128~136

9. Wu, Yi-Jiang; Li, Ping; Yu, Jian-Guo; Cunha, Adelino F. ; Rodrigues, Alirio E., Sorption-enhanced steam reforming of ethanol for continuous high-purity hydrogen production: 2D adsorptive reactor dynamics and process design, Chemical Engineering Science, 2014, 118: 83~93

10. Zhang, Mingming; Peng, Yunxiang; Sun, Yuzhu; Li, Ping ; Yu, Jianguo, Preparation of CaO–Al₂O₃ sorbent and CO₂ capture performance at high temperature , Fuel, 2013, 111: 636~642.

11. Lu Wang; Ying Yang; Wenlong Shen; Xiangming Kong; Ping Li ; Jianguo Yu; Alirio E. Rodrigues, Experimental evaluation of adsorption technology for CO₂ capture from flue gas in an existing coal-fired power plant , Chemical Engineering Science, 2013, 101: 615~619

12. Wang, Lu; Yang, Ying; Shen, Wenlong; Kong, Xiangming; Li, Ping ; Yu, Jianguo; Rodrigues, Alirio E., CO₂ Capture from Flue Gas in an Existing Coal-Fired Power Plant by Two Successive Pilot-Scale VPSA Units , Industrial & Engineering Chemistry Research, 2013.6.12, 52(23): 7947~7955.

13. Wu, Y. -J.; Li, Ping; Yu, J. -G.; Cunha, A. F.; Rodrigues, A. E. , Sorption-enhanced steam reforming of ethanol on NiMgAl multifunctional materials: Experimental and numerical investigation , Chemical Engineering Journal, 2013, 231: 36~48

14. Shen, Chunzhi; Liu, Zhen; Li, Ping ; Yu, Jianguo, Two-Stage VPSA Process for CO₂ Capture from Flue Gas Using Activated Carbon Beads , Industrial and Engineering Chemistry Research, 2012, 51(13): 5011~5021

15. Wang, Lu; Liu, Zhen; Li, Ping ; Yu, Jianguo; Rodrigues, Alirio E., Experimental and modeling investigation on post-combustion carbon dioxide capture using zeolite 13X-APG by hybrid VTSA process , Chemical Engineering Journal, 2012, 197: 151~161