



Department: School of Chemical Engineering
Professional field: Chemical Engineering and Technology
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Profile

Education

2006: PhD, Chemical Engineering, University of Porto, Portugal.
1988: MS, Chemical Engineering, Dalian University of Science and Technology, China.
1985: BS, Chemical Engineering, Dalian University of Science and Technology, China.

Academic Experience

2007-present: Professor, School of Chemical Engineering, East China University of Science and Technology, China.
1988-2002: Professor, Associate professor, Lecturer, School of Chemical Engineering, Shenyang University of Chemical Technology, China.

Research Field

The coupling process of separation and reaction, the basic theory and application of adsorption, the application of advanced simulated moving bed technology, the application of PSA, the separation of chiral drugs, the application of microbial leaching, the adsorption and capture of carbon dioxide, methane and organic volatiles.

Research results and selected published papers

1. Li P*, Xiu GH, Rodrigues AE. Modelling Diffusion and Reaction for Inert-Core Catalyst in Batch and Fixed Bed Reactors. The Canadian Journal of Chemical engineering, (2018), DOI 10.1002/cjce.23189
2. Qi TYC, Yang Y, Wu YJ, Wang J, Li P*, Yu JG. Sorption-enhanced methanol steam reforming for hydrogen production by combined copper-based catalysts with hydrotalcites. Chemical Engineering and Processing, 127: 72-82 (2018), DOI: 10.1016/j.cep.2018.03.022
3. Qu DL, Yang Y, Lu K, Yang J, 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- Journal of the International Adsorption Society, 24:357-369 (2018), DOI: 10.1007/s10450-018-9951-4
4. Luo MJ, Liu CL, Xue J, Li P*, Yu JG. Leaching kinetics and mechanism of alunite from alunite tailings in highly concentrated KOH solution, Hydrometallurgy, 174:1-20 (2017), DOI: 10.1016/j.hydromet.2017.09.008
5. Luo MJ, Liu CL, Xue J, Li P, Yu JG, Determination of metastable zone width of potassium sulfate in aqueous solution by ultrasonic sensor and FBRM, Journal of Crystal Growth, 496:144-153 (2017), DOI: 10.1016/j.jcrysgro.2016.09.006
6. Lin XJ, Gong RJ, Li JX, Li P*, Yu JG, Rodrigues AE. Enantioseparation of racemic aminogluthethimide using asynchronous simulated moving bed chromatography, Journal of Chromatography A, 1467: 347-355 (2016), DOI: 10.1016/j.chroma.2016.08.031
7. Yang Y, Wu YJ, Liu HQ, Ribeiro AM, Li P*, Yu JG, Rodrigues AE. Enrichment of ventilation air methane by adsorption with displacement chromatography technology: Experiment and numerical simulation. Chemical Engineering Science, 149: 215-228 (2016), DOI: 10.1016/j.ces.2016.04.030
8. Wu YJ, Li P, Yu JG, Cunha AF, Rodrigues AE, Progress on sorption-enhanced reaction process for hydrogen production, Reviews in Chemical Engineering, 32: 271-303 (2016), DOI: 10.1515/revce-2015-0043.
9. Jin MM, Sun YZ, Li P, Yu JG, Ulrich J, The thermal decomposition study of MgCl₂ center dot 6H₂O center dot 1,4-C₄H₈O₂, Chemical Engineering Research & Design, 104: 256-263 (2015), DOI: 10.1016/j.cherd.2015.08.011.
10. Xiao JL, Sun YZ, Song XF, Li P*, Yu JG, Lithium ion recovery from brine using granulated polyacrylamide-MnO₂ ion-sieve, Chemical Engineering Journal, 279:659-666 (2015), DOI: 10.1016/j.cej.2015.05.075.
11. Song M, Pedruzzi I, Peng YX, Li P*, Liu JF, Yu JG, K-Extraction from Muscovite by the Isolated Fungi, Geomicrobiology Journal, 32:771-779 (2015), DOI: 10.1080/01490451.2014.985409.
12. Jin MM, Froberg P, Sun YZ, Li P*, Yu JG, Ulrich J, Study on metastable zone width and crystal growth of a ternary system: case study MgCl₂ center dot 6H₂O center dot 1,4-dioxane, Chemical Engineering Science, 133: 181-189 (2015), DOI: 10.1016/j.ces.2014.12.025.
13. Wu YJ, Yang Y, Kong XM, Li P*, Yu JG, Ribeiro AM, Rodrigues AE, Adsorption of Pure and Binary CO₂, CH₄, and N₂ Gas Components on Activated Carbon Beads, Journal of Chemical and Engineering Data, 60: 2684-2693 (2015), DOI: 10.1021/acs.jced.5b00321
14. Xiao JL, Nie XY, Sun SY, Song XF, Li P*, Yu JG, Lithium ion adsorption-desorption properties on spinel Li₄Mn₅O₁₂ and pH-dependent ion-exchange model, Advanced Powder Technology, 26: 589-594 (2015), DOI: 10.1016/j.appt.2015.01.008
15. Yang Y, Ribeiro AM, Li P*, Yu JG, Rodrigues AE, Adsorption Equilibrium and Kinetics of Methane and Nitrogen on Carbon Molecular Sieve, Industrial & Engineering Chemistry Research, 53:16840-16850 (2014), DOI: 10.1021/ie502928y
16. Wu YJ, Li P, Yu JG, Cunha AF, Rodrigues AE, Sorption-enhanced steam reforming of ethanol for continuous high-purity hydrogen production: 2D adsorptive reactor dynamics and process design, Chemical Engineering Science, 118:83-93 (2014), DOI: 10.1016/j.ces.2014.07.005
17. Gong RJ, Lin XJ, Li P*, Yu JG, Rodrigues AE. Adsorption equilibrium and kinetic study of guaifenesin enantiomers on cellulose tris 3,5-dimethylphenylcarbamate packed column. Chemical Engineering Journal, 244:128-136 (2014)
18. Gong RJ, Li P*, Yu JG. Experiment and modeling for the separation of trans-stilbene oxide enantiomers on Chiralcel OD preparative column. Journal of Chromatography A, 1286: 119-126 (2013).
19. Wang L, Yang Y, Shen WL, Kong XM, Li P*, Yu JG, Rodrigues AE, Experimental evaluation of adsorption technology for CO₂ capture from flue gas in an existing coal-fired power plant, Chemical Engineering Science, 101: 615-619 (2013).
20. Wang L, Yang Y, Shen WL, Kong XM, Li P*, Yu JG, Rodrigues AE, CO₂ Capture from Flue Gas in an Existing Coal-Fired Power Plant by Two Successive Pilot-Scale VPSA Units, Industrial & Engineering Chemistry Research. 52: 7947-7955 (2013).
21. Zhang MM, Peng YX, Sun YZ, Li P*, Yu JG, Preparation of CaO-Al₂O₃ sorbent and CO₂ capture performance at high temperature, Fuel, 111: 636-642 (2013)
22. Shen CZ, Liu Z, Li P*, Yu JG, Two-Stage VPSA Process for CO₂ Capture from Flue Gas Using Activated Carbon Beads, Industrial & Engineering Chemistry Research. 51: 5011-5021 (2012).
23. Li P*, Yu JG, Xiu GH, Rodrigues AE., Perturbation chromatography with inert core adsorbent: Moment solution for two-component nonlinear isotherm adsorption. Chemical Engineering Science, 66: 4555-4560 (2011)
24. Li P*, Yu JG, Xiu GH, Rodrigues AE. A Strategy for Tailored Design of Efficient and Low Pressure Drop Packed Column Chromatography. AIChE Journal, 56(12): 3091-3098 (2010)