**List of sample papers:**

1. Zhongde Dai, **Liyuan Deng**, *Pre-combustion CO2 capture using membrane contactor with ionic liquid absorbents*. International Journal of Greenhouse Gas Control. 2016, 54 (1), 59-69
2. Zhongde Dai, Luca Ansaloni, **Liyuan Deng**, *Recent advance in multi-layer composite polymeric membrane for CO2 separation: a review*, Green energy and environment. 2016, http://dx.doi.org/10.1016/j.gee.2016.08.001
3. Muhammad Saeed, **Liyuan Deng**, *Carbon nanotube enhanced PVA-mimic enzyme membrane for post combustion CO2 capture*, International Journal of Green House Gas Control. 2016, 53, 254-262
4. Zhongde Dai, Luca Ansaloni, **Liyuan Deng** (2016), P*recombustion CO2 Capture in Polymeric Hollow Fiber Membrane Contactors Using Ionic Liquids: Porous Membrane versus Nonporous Composite Membrane*, Industrial & Engineering Chemistry Research. 2016, 55 (20), pp 5983–5992
5. Zhongde Dai, Richard D. Noble, Douglas L. Gin, Xiangping Zhang, **Liyuan Deng**, *Combination of ionic liquids with membrane technology: a new approach for CO2 separation*, Journal of Membrane Science, 497 (2016) 1–20
6. Zhongde Dai, Karoline Nåvik Hval and **Liyuan Deng**, *Pebax®/TSILs blend composite membrane for CO2 separation*, SCIENCE CHINA Chemistry. 2016 Vol.59 No.5: 538–546
7. Muhammad Saeed, **Liyuan Deng**; *Post-combustion CO2 membrane absorption promoted by mimic enzyme*, Journal of Membrane Science, 499 (2016) 36–46
8. Li, Jun; Dai, Zhongde; Usman, Muhammad; Qi, Zhiwen; **Deng, Liyuan**. (2016) *CO2/H2 separation by amino-acid ionic liquids with polyethylene glycol as co-solvent*. International Journal of Greenhouse Gas Control. vol. 45.
9. Zhao, Shuaifei; Feron, Paul H.M.; **Deng, Liyuan**; Favre, Eric; Chabanon, Elodie; Yan, Shuiping; Hou, Jingwei; Chen, Vicki; Qi, Hong. (2016) *Status and progress of membrane contactors in post-combustion carbon capture: A state-of-the-art review of new developments*. Journal of Membrane Science.2016 (511) 180-206
10. Muhammad Saeed and **Liyuan Deng**, *CO2 facilitated transport membrane promoted by mimic enzyme*. Journal of Membrane Science, 494 (2015) 196–204.
11. **Deng, Liyuan**; Hägg, May-Britt. (2015) *Fabrication and evaluation of a blend facilitated transport membrane for CO2/CH4 separation.* Industrial & Engineering Chemistry Research. vol. 54 (44).
12. **Liyuan Deng**, M-B Hägg, *Carbon nanotube reinforced PVAm/PVA blend FSC nanocomposite membrane for CO2/CH4 separation*, International journal of greenhouse gas control, 26(2014) 127–134.
13. **Liyuan Deng**, M-B Hägg, *Swelling Behaviour and Separation Performance of PVA/PVAm Blend FSC Membranes*, Journal of membrane science, 363 (2010) 295–301.
14. **Liyuan Deng**, M-B Hägg, *Techno-economic Evaluation of Biogas Upgrading Process Using CO2 Facilitated Transport Membrane*, International journal of greenhouse gas control, 4 (2010) 638–646.
15. **Liyuan Deng**, T-J Kim, *M-B Hägg, Facilitated transport of CO2 in novel PVAm/PVA blend membrane*, Journal of membrane science, 340 (2009) 154-163.