

James A. Ritter – Selected Publications 2013-2018

1. Erden, H.; Ebner, A. D.; Ritter, J. A. “Development of a PSA Cycle for Producing High Purity CO₂ from Dilute Feed Streams. Part I: Feasibility Study,” *Ind. Eng. Chem. Res.*, accepted, in press (2018).
2. Erden, L.; Ebner, A. D.; Ritter, J. A. “Separation of Landfill Gas CH₄ from N₂ using Pressure Vacuum Swing Adsorption Cycles with Heavy Reflux,” *Energy & Fuels* **2018**, 32, 3488-3498.
3. Ebner A. D.; Ho, J. G. S.; Ritter, J. A. “Graphical Approach for Formulating Pressure Swing Adsorption Cycle Schedules with Unlimited Equalization Steps,” *Adsorption* **2018**, 24, 221-232.
4. Eghbal, P.; Fatemi, S.; Vatani, A.; Ritter, J. A.; Ebner, A. D. “Purification of Helium from Nitrogen Rejection Unit in Cryogenic Natural Gas Process by Pressure Swing Adsorption,” *Separation and Purification Technology* **2018**, 193, 91-102.
5. Choomphon-anomakhun, N.; Ebner A. D.; Natenapit, M.; Ritter, J. A. “Simulation of Dynamic Magnetic Particle Capture and Accumulation Around a Ferromagnetic Wire,” *Journal of Magnetism and Magnetic Materials* **2017**, 428, 493-505.
6. Govar, A. A.; Ebner, A. D.; Ritter, J. A. “Effect of H₂O Vapor on the Adsorption and Desorption Behavior of CO₂ in a Solid Amine Sorbent,” *Energy & Fuels* **2016**, 30, 10653-10660.
7. Mohammadi, N.; Ebner A. D.; Ritter, J. A. “New Pressure Swing Adsorption Cycle Schedules for Producing High Purity Oxygen Using Carbon Molecular Sieve,” *Ind. Eng. Chem. Res* **2016**, 55, 10758-10770.
8. Hossain, M. I.; Ebner, A. D.; Ritter, J. A. “New Linear Driving Force Correlation Spanning Long and Short Cycle Time Pressure Swing Adsorption Processes,” *Adsorption* **2016**, 22, 939-950.
9. Knox, J. C.; Ebner, A. D.; LeVan, M. D.; Coker, R. F.; Ritter, J. A. “On the Limitations of Breakthrough Curve Analysis in Fixed Bed Adsorption,” *Ind. Eng. Chem. Res* **2016**, 55, 4734-4748.
10. Bhadra, S. J.; Ebner, A. D.; van Brunt, V.; Ritter, J. A. “Ideal Cascade Theory Applied to Carbon Monoxide Isotope Separation by Pressure Swing Adsorption,” *Adsorption* **2015**, 21, 467-478.
11. Govar, A. A.; Ebner, A. D.; Ritter, J. A. “New Kinetic Model that Describes the Reversible Adsorption and Desorption Behavior of CO₂ in a Solid Amine Sorbent,” *Energy and Fuels* **2015**, 29, 4492-4502.
12. Ebner, A. D.; Mehrotra, A.; Ritter, J. A. “Graphical Unit Block Approach for Complex PSA Cycle Scheduling of Parallel Interacting Trains of Columns and Tanks,” *Adsorption* **2015**, 21, 229-241.
13. Bhadra, S. J.; Ebner, A. D.; Ritter, J. A. “Carbon Monoxide Isotope Enrichment and Separation by Pressure Swing Adsorption,” *Adsorption* **2013**, 19, 11-23.