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### Presentations

1. "Making fertilizer from liquid digester effluent," Joshua L Rapport, CleanWorld, *Presented at the BioCycle Refor16 Conference*, Orlando, FL, October 2016
2. "New feedstocks for industrial AD systems," Joshua L. Rapport, CleanWorld, *Presented at the BioCycle Renewable Energy from Organic Residuals Conference*, St. Louis, MO, October 2012.
3. "Economics of an organic waste to biomethane facility," Joshua L. Rapport, UC Davis, *Presented at the BioCycle West Coast Conference*, San Diego, CA, April 2010.
4. "Review of lignocellulosic biomass pretreatment technologies for bioconversion and biofuel production," Joshua L. Rapport and Ruihong Zhang, UC Davis, *Presented at the International Meeting of the ASABE*, Reno, NV, June 2009.
5. "Modeling the design and financial feasibility of an anaerobic digester producing energy from organic solid waste." Joshua L. Rapport, Ruihong Zhang, Bryan Jenkins, Bruce Hartsough, and Tom Tomich, UC Davis, *Presented at the US Composting Council Conference and Tradeshow*, Houston, TX, January 26- 29, 2009.
6. "Anaerobic digestion of municipal solid waste." Joshua L. Rapport and Ruihong Zhang, UC Davis, *Presented at the ASTSWMO Conference*, Portland, OR, August 14, 2007.
7. "Economic evaluation of anaerobic digestion of municipal food and green waste via software modeling." Joshua L. Rapport, Ruihong Zhang and Hamed El-Mashed, UC Davis, *Presented at the International Meeting of the ASABE*, Minneapolis, MN, June 2007
8. "Anaerobic digestion of the glycerol phase from a commercial biodiesel production facility using a mesophilic anaerobic sequencing batch reactor." Joshua L. Rapport and Ruihong Zhang, UC Davis, *Presented at the International Meeting of the ASABE*, Minneapolis, MN, June 2007
9. "Composting and land application of anaerobically digested solids." Joshua L. Rapport, Emma Torbert, Jean VanderGheynst, Richard Evans, and Ruihong Zhang. UC Davis, *Presented at the International Meeting of the ASABE*, Portland, OR, June 2006.

### Patents

1. [System, device and method for production of high-nitrogen organic liquid fertilizer from ammonia rich wastewaters and digester effluents. US US11305233B2](#), Joshua L. Rapport CleanWorld Priority 2018-06-04 • Filed 2019-06-04 • Granted 2022-04-19 • Published 2022-04-19. A method, system and device for recovering a desired nutrient from wastewater or digester effluents while separating the remaining components into various side streams which may have additional value or be suitable for inexpensive disposal due to the processing...
2. [Apparatus for flexible, programmed, controlled transfer of liquids in multi-tank systems. US US10794541B2](#), Joshua L. Rapport CleanWorld Priority 2017-10-06 • Filed 2018-10-08 • Granted 2020-10-06 • Published 2020-10-06. A pumping system, method and device for pumping from and to any two or more vessels in a multiple vessel process where all permutations of the source and destination vessels are possible, but only specific combinations are required as part of the regular, repeat, controlled process system...