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### Recent Papers

Patil, AK, AS Engelberth, and MR Ladisch. "Effect of biomass liquefaction on glucose and xylose prices predicted by National Renewable Energy Laboratory biochemical sugar model." *Biofuels, Bioproducts and Biorefining* (2022).

Brace, E.C. and Engelberth, A.S. (2022), Estimating a target price to regenerate bio-oils post hydrogen sulfide removal. *Biofuels, Bioproducts and Biorefining*, 16: 1781-1793.

AS Cannon, DJ Carrier, AS Engelberth, JM Garcia, E Heath, KK Hii, FM Kerton, B Makhubela, A Moores, LM Rossi, JL Vidal, A Voutchkova-Kostal, K Wilson. 2022. Women in Green Chemistry and Engineering: Agents of Change Toward the Achievement of a Sustainable Future. *ACS Sustainable Chem Eng* 10 (9), 2859-2862.

TJ Shoaf, AS Engelberth. 2022. Recycling of Multiple Organic Solid Wastes into Chemicals via Biodegradation. In: Fang, Z, Smith Jr., RL, Xu, L (eds) *Production of Biofuels and Chemicals from Sustainable Recycling of Organic Solid Waste. Biofuels and Biorefineries*, vol. 11. Springer, Singapore. [https://doi.org/10.1007/978-981-16-6162-4\\_7](https://doi.org/10.1007/978-981-16-6162-4_7).

AS Engelberth, W Niu, SPM Ventura, S Nair, MA Nolasco, DJ Carrier. 2021. ACS Sustainable Chemistry & Engineering Welcomes Manuscripts on Alternative Feedstocks. *ACS Sustainable Chem Eng* 9 (13), 4702-4703.

AS Engelberth, SPM Ventura, F Vilaplana, P Venkatesu, JY Zhu, DJ Carrier. 2021. ACS Sustainable Chemistry & Engineering Welcomes Manuscripts on the Circular Economy of Biomass. *ACS Sustainable Chem Eng* 9 (6), 2410-2411.

AS Engelberth. 2020. Evaluating economic potential of food waste valorization: Onward to a diverse

feedstock biorefinery. *Current Opinion in Green and Sustainable Chemistry* 26, 100385.

EC Brace, AS Engelberth. 2020. Assessing viability of soybean oils to remove hydrogen sulfide from natural gas. *ACS Sustainable Chem Eng* 8 (25), 9377-9384.

JC Overton, AS Engelberth, NS Mosier. 2019. Single-vessel synthesis of 5-hydroxymethylfurfural (HMF) from milled corn. *ACS Sustainable Chem Eng* 8 (1), 18-21.

RM RedCorn, ET Hillman, KV Solomon, AS Engelberth. 2019. Xanthobacter-dominated biofilm as a novel source for high-value rhamnose. *Applied microbiology and biotechnology* 103(11), 4525-4538.

J Li, AS Engelberth. 2018. Quantification and purification of lutein and zeaxanthin recovered from distillers dried grains with solubles (DDGS). *Bioresources and Bioprocessing* 5 (1), 1-10.

AS Engelberth, M Clayton Wheeler, G Peter van Walsum. 2018. Techno-economic comparison of three scenarios for upgrading a hemicellulose-rich pre-pulping extract to mixed-alcohols. *Biofuels, Bioproducts and Biorefining* 12 (6), 1082-1094.

R RedCorn, AS Engelberth. 2018. Quantifying Glycogen in Solids at Full-Scale Enhanced Biological Phosphorous Removal Wastewater Facilities. *Journal of Environmental Engineering*, 04018088.

R RedCorn, S Fatemi, AS Engelberth. 2018. Comparing end-use potential for industrial food-waste sources. *Engineering* 4 (3), 371-380 78.

S Suwal, J Li, AS Engelberth, & JY Huang. Application of electro-membrane separation for recovery of acetic acid in lignocellulosic bioethanol production. *Food and Bioproducts Processing*. 2018. 109: 41-51.