

Publications

Refereed Publications while at the University of Maine

Jara, R., M. Lawoko, A. van Heiningen, "Intrinsic dissolution kinetics and topochemistry of xylan, mannan, and lignin during autohydrolysis of Red Maple wood meal", *The Canadian Journal of Chemical Engineering*, 97, 649-661, March (2019)

Arend Jan Zeeuw, Adriaan van Heiningen, Jim Wearing, Bart De Waele, Xuantian Li, Michael Gattrell, Chris Chan, Clive Brereton, Brian Blackwell, Tony Boyd, "Production of Hydrocarbons from Fast Pyrolysis of Kraft Black Liquor: Integration with the Kraft Mill", *Journal of Science & Technology for Forest Products and Processes (J-For)*, 7 (4), 31-38 (2018)

Sharazi, A. M., A. R. P. van Heiningen, I. Sumerskii, M. Bacher, "Sugarcane straw lignin obtained by sulfur dioxide-alcohol-water (SAW) fractionation: Effect of solvent, *Industrial Crops and Products*, 115, 235-242 (2018)

Ozyurek, O., A. van Heiningen, "Formic acid reinforced autohydrolysis of wheat straw for high yield production of monosugars and minimal lignin precipitation", *Industrial Crops and Products*, 112, 320-326 (2018)

Xiang You, Adriaan van Heiningen, Herbert Sixta, Mikhail Iakovlev, "Lignin and ash balances of sulfur dioxide-ethanol-water fractionation of sugarcane straw", *Bioresource Technology*, 244, Part 1, 1111-1120, November 2017

Sharazi, A. M., A. R. P. van Heiningen, I. Sumerskii, "Heat Treatment of Spent Liquors to Recover Chemically Bound Xylose and Alcohol", *Industrial & Engineering Chemistry Research*, 56(47), 13997-14005 (2017)

Asif Sharazi and Adriaan van Heiningen, "Kinetics of SO₂-Alcohol-Water (SAW) Pulping of Sugarcane Straw (SCS)", *Tappi J.*, 16(6), 313-327 (2017)

Patil, R., J. Genco, H. Pendse, A. van Heiningen "Process for Producing Acetic Acid in Hardwood Kraft Pulp Mills", *Tappi J.*, 16(5), 287-300 (2017)

Asif Masih Sharazi, Adriaan van Heiningen, "Ethyl Xylosides Formation in SEW (AVAP®) Fractionation of Sugarcane Straw; Implications for Ethanol and Xylose Recovery", *Holzforschung*, 72(12), 951-959 (2017)

You, X., A. van Heiningen, H. Sixta and M. Iakovlev, "Sulfur balance of sulfur dioxide-ethanol-water fractionation of sugarcane straw", *Bioresource Technology* 241, 998-1002 (October 2017)

Patil, R., J. Genco, H. Pendse, A. van Heiningen, "Treating kraft mill extract using bipolar membrane electrodialysis for the production of acetic acid", *TAPPI J.*, 15(3), 215-226 (2016)

You, X., A. van Heiningen, H. Sixta and M. Iakovlev, "Kinetics of SO₂-ethanol-water (AVAP®) fractionation of sugarcane straw", *Bioresource Technology* 212, 111-119 (2016)

Denilson da Silva Perez and Adriaan van Heiningen, "Prediction of alkaline pulping yield: equation derivation and validation", *Cellulose*, 22(6), 3967-3979 (2015)

Patil, R., C. Truong, J. Genco, H. Pendse and A. van Heiningen, "Applicability of electrodialysis to the separation of sodium acetate from synthetic alkaline hardwood extract", *Tappi J.*, 14 (11), 695-708 (2015)

St. Pierre, J., L. Duran, and A. van Heiningen, "Fast pyrolysis of muconic acid and formic acid salt mixtures", *Journal of Analytical and Applied Pyrolysis*, 113, 591-598 (2015)

Jafari, V., K. Nieminen, H. Sixta and A. van Heiningen, "Delignification and cellulose degradation kinetics models for high lignin content softwood Kraft pulp during flow-through oxygen delignification", *Cellulose*, 2(3), 2055-2066 (2015)

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