Supplementary Materials: Novel Kinetic Models of Xylan Dissolution and Degradation during Ethanol Based Auto-Catalyzed Organosolv Pretreatment of Bamboo

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Figure S1 The relationship between ln(1-R_x/100) and t at EACO pretreatment temperature of (**a**) 443, (**b**) 458 and (**c**) 473 *K*.



Figure S2 pH value of pretreatment liquor at EW pretreatment temperature of (**a**) 443, (**b**) 458 and (**c**) 473 *K* with different ethanol content in pretreatment medium.



Figure S3 Comparisons of measured and model predicted data under different conditions of EACO pretreatments: (**a**) xylan removal; (**b**) xylo-oligosaccharides and (**c**) xylose concentration.



Figure S4 The relationship between experimentally measured "dx" and its predicted value.



Figure S5 The relationships between measured and predicted concentration of degradation products: (a) F and (b) AA.



Figure S6 The relationship between experimentally measured xylan and lignin removal.