SUPPLEMENTARY MATERIAL

Experimental and theoretical studies on glucose conversion in ethanol solution to 5-Ethoxymethylfurfural and Ethyl Levulinate catalyzed by Brønsted acid

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Fig. S1. The geometry structures of the reactants for glucose alcoholysis to HMF catalyzed by Brønsted acid in ethanol solution. Red: oxygen, gray: carbon, white: hydrogen.
**Fig. S2.** The geometry structures of the reactants for glucose to EG catalyzed by Brønsted acid in ethanol solution. Red: oxygen, gray: carbon, white: hydrogen.
Fig. S3. The geometry structures of the reactants for HMF to EL through LA catalyzed by Brønsted acid in ethanol solution. Red: oxygen, gray: carbon, white: hydrogen.
Fig. S4. The geometry structures of the reactants for HMF alcoholsysis to EL though EMF catalyzed by Bronsted acid in ethanol solution. Red: oxygen, gray: carbon, white: hydrogen.