# Supplementary information

# Enhancing Enzymatic Hydrolysis of Rice Straw by Acid-Assisted Mechanocatalytic Depolymerization Pretreatment

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**Table S1.** Particle size of rice straw samples.

| Sample | $D_{10}$ (µm) | $D_{50}$ (µm) | $D_{90}$ (µm) |
|---|---|---|---|
| RS | 59.3 ± 1.4 | 279.3 ± 5.5 | 804.7 ± 46.0 |
| BM-RS | 4.2 ± 0.0 | 20.1 ± 0.2 | 83.4 ± 1.4 |
| A-RS | 66.7 ± 2.0 | 263.7 ± 5.0 | 762.0 ± 22.9 |
| AAMD-RS | 2.8 ± 0.0 | 11.8 ± 0.2 | 42.4 ± 1.0 |

Data are shown as their replicate mean ± standard deviation. Each sample was measured in duplicate. $D_{10}$, $D_{50}$ and $D_{90}$ represent the 10th, 50th and 90th percentiles of the total volume determined by particle size distribution curves.