

Supporting Materials

Table S1. Summary of pretreatment conditions for separating main components of Moso bamboo.

Condition			
Samples	NaOH (wt%)	EtOH (%)	Yield (%)
P ₁	1	60	73.4
P ₂	2	60	78.5
P ₃	4	20	91.9
P ₄	4	60	83.3
P ₅	4	80	88.9

Table S2. Typical FTIR absorbance of functional groups in cellulose, hemicellulose and lignin.

Label	Wavenumber (cm ⁻¹)	Functional groups
C	3440	Hydroxyl O-H
	2880	C-H single bond
	1640	Absorbed O-H
	1440	Flexural vibration of C-H bond
	1120	C-OH bending
	910	σ C-H
H	3433	Hydroxyl O-H
	2922	C-H single bond
	1614	Associated hydroxyl O-H
	1520	Expansion vibration of benzene ring
	1400-1200	Aliphatic C-H deformation vibrations
	1200-1000	C-OH bending
L	750	phenolic hydroxyl O-H
	1720	C=O
	1640	Aromatic hydrocarbon
	1516	Expansion vibration of benzene ring
	1240	C-O-C
	796	Phenolic hydroxyl O-H