

Table S1 Intuitive analysis of the separation of BSS under different conditions.

Entry	Reaction condition				Delignification (%)	Hemicellulose Removal (%)
	GVL (%)	H ₂ SO ₄ (%)	T (°C)	Time (min)		
1	40	0.2	120	40	22.7	24.8
2	40	0.4	130	50	57.2	75.7
3	40	0.6	140	60	73.9	88.8
4	60	0.2	130	60	27.2	22.9
5	60	0.4	140	40	77.5	87.3
6	60	0.6	120	50	75.8	86.2
7	80	0.2	140	50	20.2	55.4
8	80	0.4	120	60	29.0	61.7
9	80	0.6	130	40	84.1	87.2
10	60	0.6	140	40	82.4	85.8
11	60	0.6	140	60	86.0	87.4
12	60	0.6	130	40	75.7	84.4
Delignification	Mean 1	51.3	23.4	42.5	61.4	
	Mean 2	60.2	54.6	56.2	51.1	
	Mean 3	44.4	77.9	57.2	43.4	
	Range	15.7	54.6	14.7	18.1	
Hemicellulose Removal	Mean 1	63.1	34.4	57.6	66.4	
	Mean 2	65.5	74.9	61.9	72.4	
	Mean 3	68.1	87.4	77.2	57.8	
	Range	5.0	53.0	19.6	14.6	