

Table S1. The chemical composition of pretreated bamboo substrates and untreated bamboo powder.

Pretreatment conditions			The content of three components (%)					Substrate recovery	Glucan	Lignin	Araban and xylan
GVL:H ₂ O	Temperatur e	Time	AIL	ASL	Araban	Glucan	Xylan	yield	retention	removal	removal
	(°C)	(h)						(%)	(%)	(%)	(%)
Untreated bamboo			23.73±0.42	0.47±0.06	2.48±0.20	48.22±0.56	22.66±0.47	-	-	-	-
3:7			20.98±0.32	0.28±0.01	ND	67.48±1.01	10.22±0.72	62.52±0.78	87.51±2.36	37.48±1.52	74.55±2.07
5:5			13.70±0.56	0.28±0.03	ND	74.64±1.36	15.31±0.77	55.95±0.36	84.28±1.98	67.69±1.52	65.91±1.93
7:3	120	2	7.77±0.59	0.18±0.02	ND	78.16±0.59	14.25±0.14	52.77±1.38	85.52±1.89	82.69±0.14	70.10±0.81
8:2			6.44±0.09	0.15±0.05	ND	83.88±1.64	12.25±0.79	47.44±0.23	82.53±1.39	87.12±0.14	76.86±1.61
9:1			8.16±1.56	0.22±0.03	ND	81.49±2.20	11.27±1.21	51.17±1.70	86.42±1.75	82.34±3.86	76.98±3.21
8:2		2	2.44±0.28	0.09±0.01	ND	94.94±1.29	3.10±0.35	40.73±0.34	80.20±1.50	95.80±0.51	94.97±0.61
8:2	140	3	1.89±0.28	0.06±0.02	ND	95.31±0.92	2.40±0.29	33.82±0.28	66.85±0.99	97.30±0.34	96.77±0.40
8:2		4	1.52±0.11	0.05±0.01	ND	97.87±2.63	1.37±0.95	27.79±0.24	56.39±1.07	98.21±0.15	98.52±1.06
8:2	160	2	4.94±0.31	0.19±0.03	ND	96.55±0.70	ND	9.01±0.61	18.08±1.34	98.12±0.24	76.98±3.21

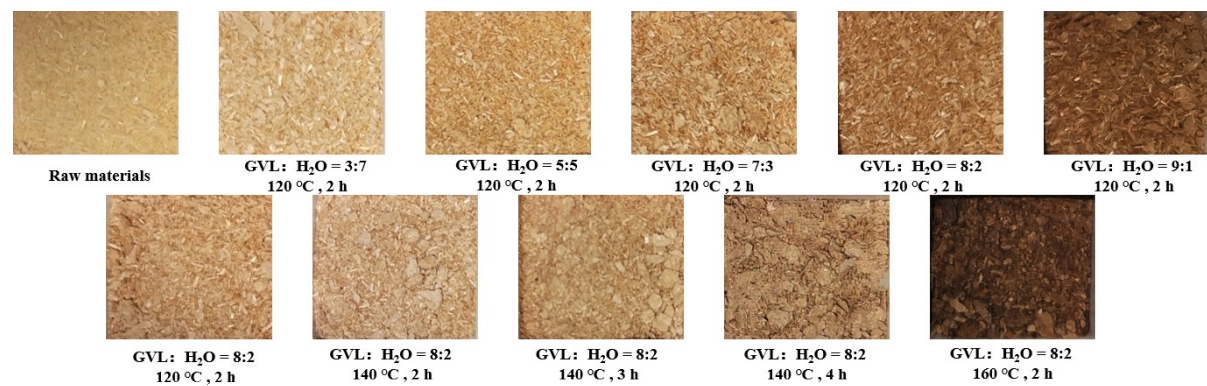


Fig. S1. The color of various bamboo powder before and after pretreatment.

