

Supporting information

Biomass composition impacts storage property of biocrude oil from hydrothermal liquefaction

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Table S1. Elemental content and HHV of biocrude oil samples stored after 0 and 7 days.

Biocrude		C (%)	H (%)	N (%)	O* (%)	HHV (MJ·kg ⁻¹)
P-BC	D0	75.25±0	8.717±0.01	6.763±0	9.27	36.4
	D7	76.00±0.01	8.822±0	6.858±0.05	8.32	36.91
C-BC	D0	68.76±0.33	6.750±0	0.076±0.01	24.41	30.29
	D7	71.32±0.06	6.874±0.25	0.141±0	21.67	31.67
L-BC	D0	76.81±0.03	11.15±0.05	0.156±0.02	11.88	40.95
	D7	75.98±0.17	10.88±0.06	0.107±0	13.03	40.14
PC-BC	D0	72.99±0.44	8.113±0	6.789±0.11	12.11	34.4
	D7	75.06±0.16	8.13±0.08	7.053±0.03	9.757	35.39
PL-BC	D0	73.08±0.24	9.864±0.15	2.116±0.04	14.93	37.19
	D7	72.56±0.37	9.129±0.1	1.957±0.03	16.34	35.8
LC-BC	D0	75.56±0.05	10.25±0.07	0.073±0.05	14.12	38.95
	D7	76.01±0.05	10.31±0.02	0.046±0	13.63	39.26
M-BC	D0	75.23±0.23	9.703±0.07	3.563±0.07	11.5	37.94
	D7	75.02±0.16	9.67±0.04	3.519±0.05	11.79	37.79

Fig. S1 Molecular weight distributions of fresh biocrude oil samples.

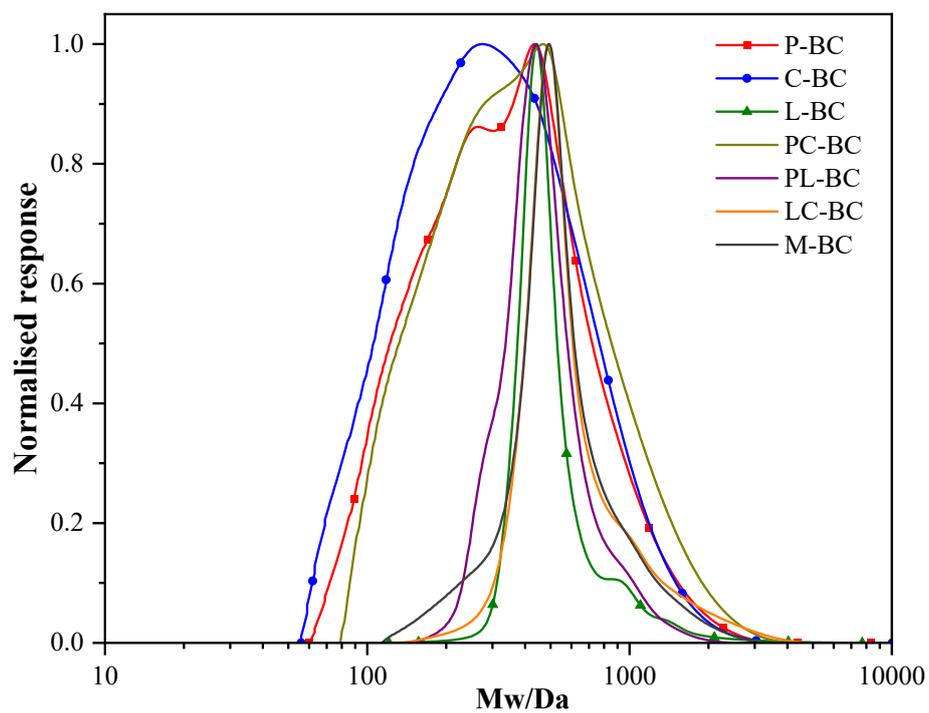


Fig. S2 Elemental Content and HHV of fresh biocrude from experimental and calculated (Calculated results are the mass-fraction weighted average, based on results from HTL of the individual components.).

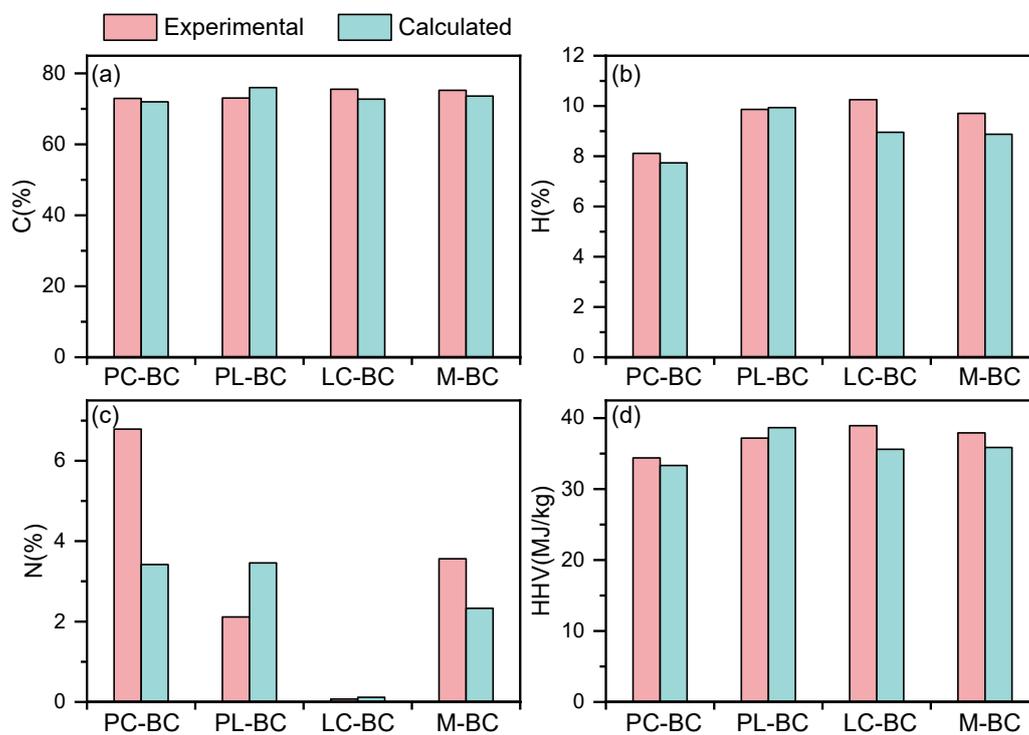


Fig. S3 Correlation plots of model compounds and the characteristics of biocrude oil (Positive correlations are in red while negative correlations are in blue).

