

Supplementary information

Fractional conversion of microalgae from water blooms

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Table S1 The average yields and standard deviations (SD) of products based on three repeated analyses in fractional pyrolysis of the raw and pretreated algae samples (based on the weight of raw algae sample, %)

| Algae samples | 290 °C (wt %) | | | 450 °C (wt %) | | | Total (wt %) | | |
|---------------|----------------------|----------|----------|---------------|----------|----------|--------------|----------|----------|
| | Gas | Liquid | Solid | Gas | Liquid | Solid | Gas | Liquid | Solid |
| TLA | 8.4±0.7 ^a | 27.8±1.0 | 63.8±1.4 | 7.6±1.3 | 13.1±1.1 | 43.1±0.1 | 16.0±0.5 | 40.9±0.4 | 43.1±0.1 |
| LEA | 8.2±0.7 | 32.1±0.7 | 59.7±1.2 | 7.8±0.3 | 10.2±1.0 | 41.7±0.5 | 16.0±0.4 | 42.3±0.4 | 41.7±0.5 |
| SEA | 6.1±0.8 | 38.3±0.7 | 55.6±1.5 | 6.2±1.0 | 10.2±0.8 | 39.2±0.5 | 12.3±0.8 | 48.5±0.2 | 39.2±0.5 |

^a Average value ± SD.