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Fast Microwave-assisted ex-catalytic co-pyrolysis of bamboo and polypropylene for bio-oil production

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1 Fast Microwave-assisted ex-catalytic co-pyrolysis of bamboo and polypropylene
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16 Abstract: The ex-catalytic co-pyrolysis of bamboo and polypropylene (PP) with
17 HZSM-5 was investigated with microwave assistance. The influences of catalytic
18 temperature, feedstock/catalyst ratio, and bamboo/PP ratio on the product yields and
19 chemical components of bio-oil from the co-pyrolysis were studied. When the
20 catalytic temperature, feedstock/catalyst ratio, and bamboo/PP ratio were 250 °C, 1:2,
21 and 2:1, respectively, the bio-oil yield reached its maximum value at 61.62 wt.%. The

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