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Heat-moisture treatment and acid hydrolysis of corn starch in different sequences

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ACCEPTED MANUSCRIPT

1	Heat-moisture treatment and acid hydrolysis of corn starch in
2	different sequences
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16	dongli@cau.edu.cn (Dong Li), wlj@cau.edu.cn (Li-jun Wang).
17	Abstract
18	Dual modification of corn starch was carried out by combining acid hydrolysis
19	(AH, 6, 12, 24 h) and heat-moisture treatment (HMT, 15, 30, 60 min) in different
20	sequences (AH-HMT and HMT-AH). X-ray diffractometry, differential scanning
21	calorimetry, polarized light microscopy, and rheometer were used to characterize the
22	differences in molecular structure and physicochemical properties resulting from the

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