

## Article

# A Study on the Pyrolysis Behavior and Product Evolution of Typical Wood Biomass to Hydrogen-Rich Gas Catalyzed by the Ni-Fe/HZSM-5 Catalyst

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
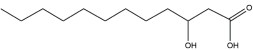

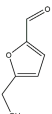
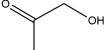
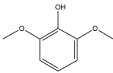

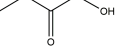

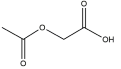

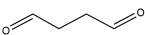

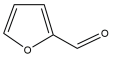
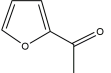
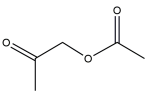
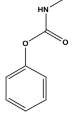

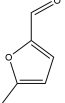
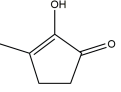

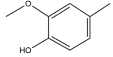


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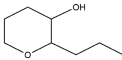
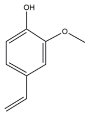

## Supplementary material

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Table S1 Numbers of liquid products

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Nu.	Name	Formula	Nu.	Name	Formula
1	Acetic acid		15	Dodecanoic acid, 3-hydroxy-	
2	Propanoic acid		16	5-Hydroxymethylfurfural	
3	2-Propanone, 1-hydroxy-		17	Phenol, 2,6-dimethoxy-	
4	2,3-Butanediol		18	1-Hydroxy-2-butanone	
5	3-Furaldehyde		19	Acetic acid, (acetyloxy)-	
6	2-Furanmethanol		20	Succindialdehyde	
7	2-Cyclopenten-1-one		21	Furfural	
8	Ethanone, 1-(2-furanyl)-		22	2-Propanone, 1-(acetyloxy)-	
9	Carbamic acid, methyl-, phenyl ester		23	2-Cyclopenten-1-one, 2-hydroxy-	
10	2-Furancarboxaldehyde, 5-methyl-		24	2-Cyclopenten-1-one, 2-hydroxy-3-methyl-	
11	Butyrolactone		25	Creosol	
12	Phenol, 2-methoxy-		26	Phenol, 4-ethyl-2-methoxy-	

13	2-Propyl-tetrahydropyran-3-ol		27	2-Methoxy-4-vinylphenol	
14	Benzofuran, 2,3-dihydro-		28	Phenol, 2-methoxy-5-(1-propenyl)-, (E)-	