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Title: Design and Optimization of the Levulinic Acid Recovery Process from Lignocellulosic Biomass

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1	Highlights	
2	An innovative TDWC-D was proposed to separate a heterogeneous azeotrope mixture.	
3	The TAC could be	reduced by 28.1% by the innovative TDWC-D.
4	Many benefits cou	ald be achieved by changing process sequence structure.
5	A compact and er	ergy efficient LA production process is proposed.
6	Large potential for	r commercial LA production from lignocellulosic biomass
7		
8	Design	and Optimization of the Levulinic Acid Recovery Process
9		from Lignocellulosic Biomass
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13		
14	Running title: De	esign and Optimization of the Levulinic Acid Recovery Process from
15	Lignocellulosic Bio	omass
16		
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