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Metal-Organic Frameworks Derived Ni-Based Catalyst for Hydrotreatment of Triolein into Green Diesel

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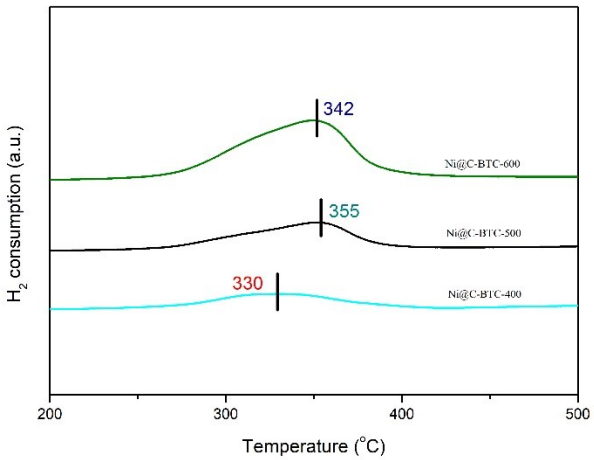

Fig. S1 H_2 chemisorption of Ni@C-BTC-400, Ni@C-BTC-500 and Ni@C-BTC-600 catalyst.

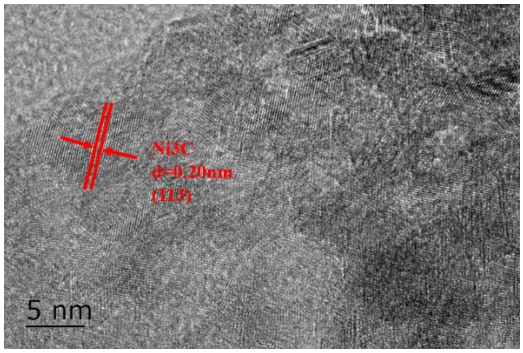

Fig. S2 HRTEM image of Ni@C-BTC-400

Table S1. Optimization for the hydrotreatment of triolein.[a]

Entry	Cat.	Main product distribution/%[b]				Conversion/%[b]	Cracking ratio/%	DCO/HDO
		C15	C16	C17	C18			
1	Ni@C-BTC-400	0.81	1.95	80.50	0.54	98.88	4.61	13.22
2	Ni@C-400	3.30	3.20	52.14	0.88	58.38	25.6	13.58

[a] Reaction conditions: Triolein (2.0 g), catalyst (0.4 g) and cyclohexanol (20 g), 3.0 MPa H_2, 4 h