Preparation, Characterization, and Testing of a Carbon-Supported Catalyst Obtained by Slow Pyrolysis of Nickel Salt Impregnated Vegetal Material

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Table S1. Data on Fresh Precursor Pyrolysis

Starting material	Final solid product	Operation parameters			
Fresh precursor	Pyrolytic precursor	Precursor size $d_G = d_P$ (mm)	Heating flux (W/m^2)	Gas flow rate (mL/min)	Temperature (ºC)
P1	PP1	8			
P2	PP2	4	2600	33.33	25-350
P3	PP3	2			

Table S2. Data on Pyrolytic Precursor Activation

Starting material	Final solid product	Operation parameters			
Pyrolytic precursor	Supported nickel catalyst	Precursor size $d_{PP} = d_{CC}$ (mm)	Heating rate (ºC/min)	Gas flow rate (mL/min)	Temperature (ºC)
PP1	CC1				25-750
PP1	CC2				25-680
PP1	CC3	0.33	8	67	25-600
PP2	CC4				25-750
PP3	CC5				25-750

Table S3. Data on Corn Grain Analysis

Proximate analysis		Ultimate analysis	
Compound	(wt.%)	Element	(wt.%)*
Moisture	12.9	C	44.7
Starch	62.2	H	6.2
Protein	8.7	O	47.8
Fat	3.8	N	1.2
Ash	1.2	S	0.1
Others	11.2		

*dry and ash-free (daf) basis