Low-Cost Honeycomb Biomass Adsorbent for Efficient Pt Recovery from Automobile Catalyst Waste

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Table S1. XPS data for EHB material before and after Pt(IV) adsorption.

Bonding energy [eV]	Functional group /energy core level	Content [%]	
		Before Pt(IV) adsorption	After Pt(IV) adsorption
C1s			
285.0	C-C/C-H	66.3	66.2
286.5	C-OH/C-O-C/C-N	23.0	22.3
288.1	C=O	7.7	8.5
289.1	COOR	3.1	3.0
O1s			
531.8-531.9	C=O/O=C-O-	45.9	34.4
533.1	C-OH/C-O-C/O=C-O-	54.1	65.6
N1s			
400.2-400.5	-NH-	100	100
Cl2p			
198.3-198.6	$Cl2p_{3/2}$	-	50.7
200.0-200.2	$Cl2p_{1/2}$	-	49.3
Pt4f			
73.29-73.44	$Pt4f_{7/2}$	-	51.2
76.59-76.75	$Pt4f_{5/2}$	-	48.8

Table S2. Pt measurement parameters via ET AAS technique.

Measurement parameter	Value
Lamp current [mA]	10.0
Wavelength [nm]	265.9
Slit width [nm]	0.5
Sample volume [µL]	15
Atomization temperature [°C]	2700
Pyrolysis temperature [°C]	1000