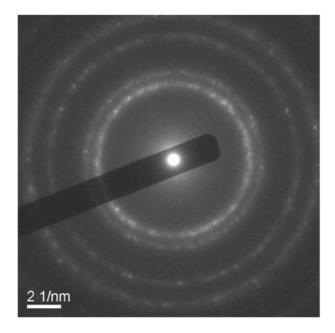
## **Supporting Information**



Rings	sample d <sub>hkl</sub> (Å)	Pt(0) theoretical fcc $d_{hkl}$ (Å)
1st [111]	2.2	2.265
2nd [200]	1.9	1.962
3rd [220]	1.4	1.387
4th [311]	1.2	1.183

Figure S1. Electron diffraction performed on a HREM image of Pt superstructures obtained for the molar ratio L2/Pt = 2.8 (Pt5[L2]H<sub>2</sub>).

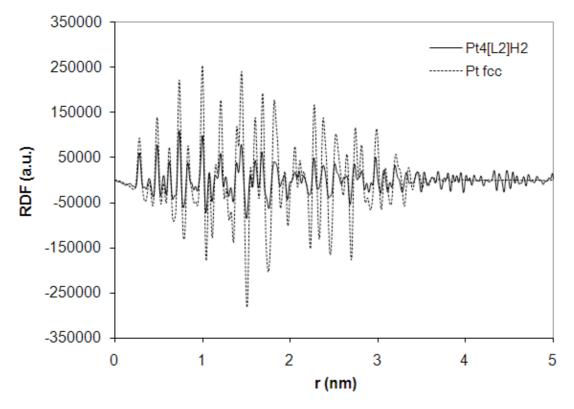


Figure S2. WAXS analysis carried out on Pt nanomaterial obtained for the molar ratio L2/Pt = 1.4 (Pt4[L2]H<sub>2</sub>).