

Supporting information

Single Layer of Polymeric Metal-phthalocyanine: Promising Substrate to Realize
Single Pt Atom Catalyst with Uniform Distribution

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Table S1. Geometrical parameters (\AA) for Pt/TMPcs, mulliken analysis of the charges and magnetic moments for Pt atoms in Pt/TMPcs.

TM-Pc	E _{ad} (eV)	d _{Pt-M}	d _{Pt-N}	M _{μB}	C _{Pt}
Sc	2.49	3.88	0.97	-0.34	
Ti	2.18	3.46	0	-0.37	
V	2.16	3.35	-0.18	-0.27	
Cr	2.15	3.25	0	-0.18	
Mn	2.27	3.17	0.76	-0.10	
Fe	2.26	3.13	0.77	-0.06	
Co	2.44	3.18	0.98	-0.03	
Ni	2.61	3.32	0.34	-0.20	
Cu	2.64	3.36	1.82	-0.03	
Zn	2.54	3.71	1.50	-0.13	

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Figure S1. Schematic energy profile and corresponding local configurations of CO molecule directly react with adsorbed O₂ molecule. All energies are given with respect to the reference energy.

