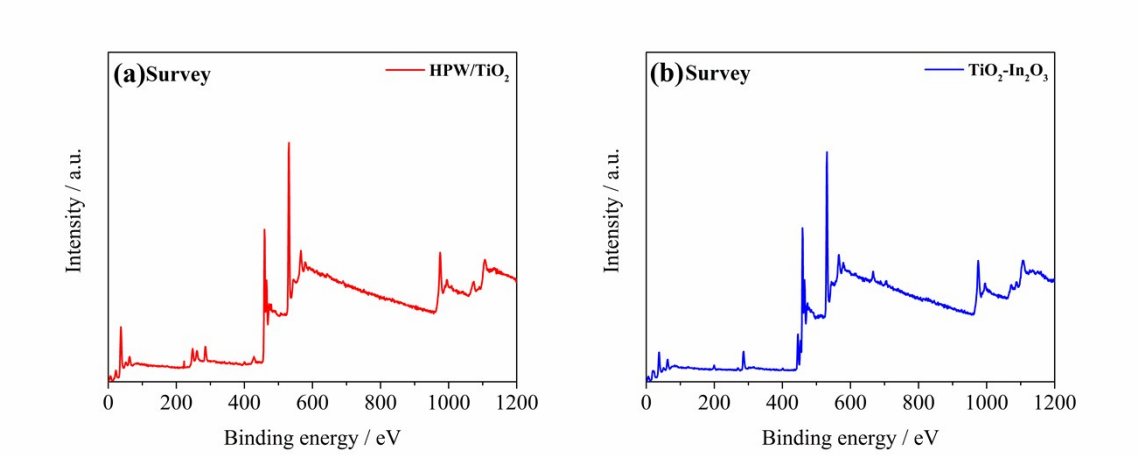
Electronic Supplementary Material (ESI) for RSC Advances.

Supplementary Information



Result Section

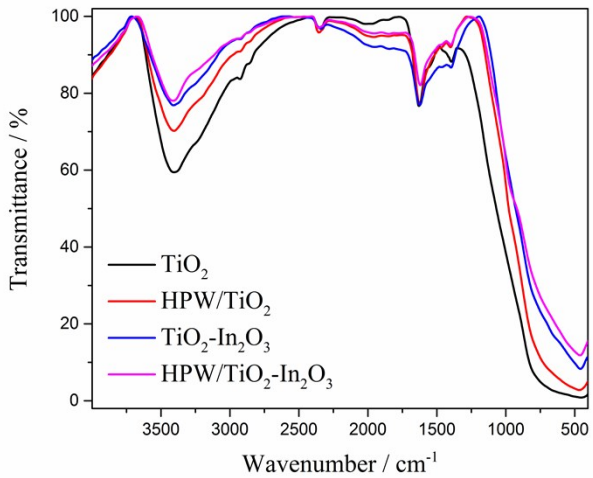


Fig. S1.XPS spectra of HPW/TiO_2 and TiO_2-In_2O_3.

Fig. S2. FT-IR spectra of HPW/TiO_2-In_2O_3, HPW/TiO_2, TiO_2-In_2O_3 and TiO_2.

Fig. S3. Kubelka-Munk reflection plots of HPW/TiO_2, TiO_2-In_2O_3 and TiO_2.

Table S1 XPS results of HPW/TiO_2-In_2O_3, HPW/TiO_2 and TiO_2-In_2O_3.

Catalysts	Binding Energy / eV						
	Ti		In		W		P
HPW/TiO_2	458.98	464.68	-	-	35.98	37.98	133.88
TiO_2-In_2O_3	458.78	464.48	445.18	452.78	-	-	-
HPW/TiO_2-In_2O_3	459.28	465.08	445.38	452.88	35.78	37.88	133.88

Table S2 Kinetic parameters for degradation of imidacloprid with different catalysts

Catalysts	Equation	$t_{1/2}$ / h	k / h^{-1}	R^2
TiO_2	C_t=C_0×exp(-0.02691t)	25.76	0.02691	0.97106
HPW/TiO_2	C_t=C_0×exp(-0.06041t)	11.47	0.06041	0.99377
TiO_2-In_2O_3	C_t=C_0×exp(-0.03613t)	19.18	0.03613	0.99896
HPW/TiO_2-In_2O_3	C_t=C_0×exp(-0.33611t)	2.06	0.33611	0.99314

Table S3 The results of ICP-AES

Catalysts	element contents / wt.%		
	Ti	In	W
HPW/TiO_2-In_2O_3	46.49	3.21	16.69
HPW/TiO_2-In_2O_3[#]	46.92	3.24	15.99

[#], catalyst used in the recyclability test.