

Supporting information

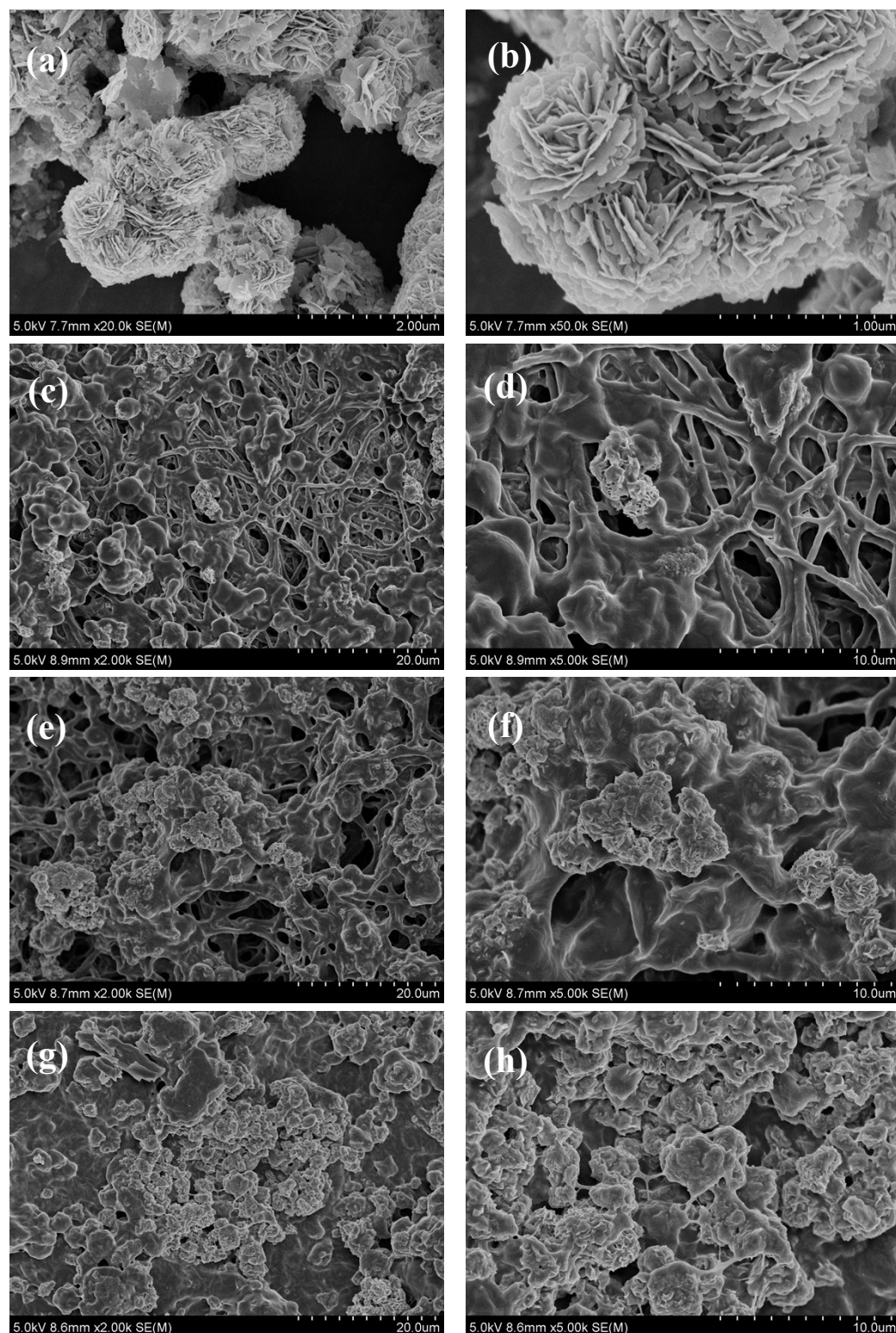


Figure S1. SEM images of $\text{Bi}_2\text{O}_2\text{CO}_3$, PPB2, PPB6 and PPB8

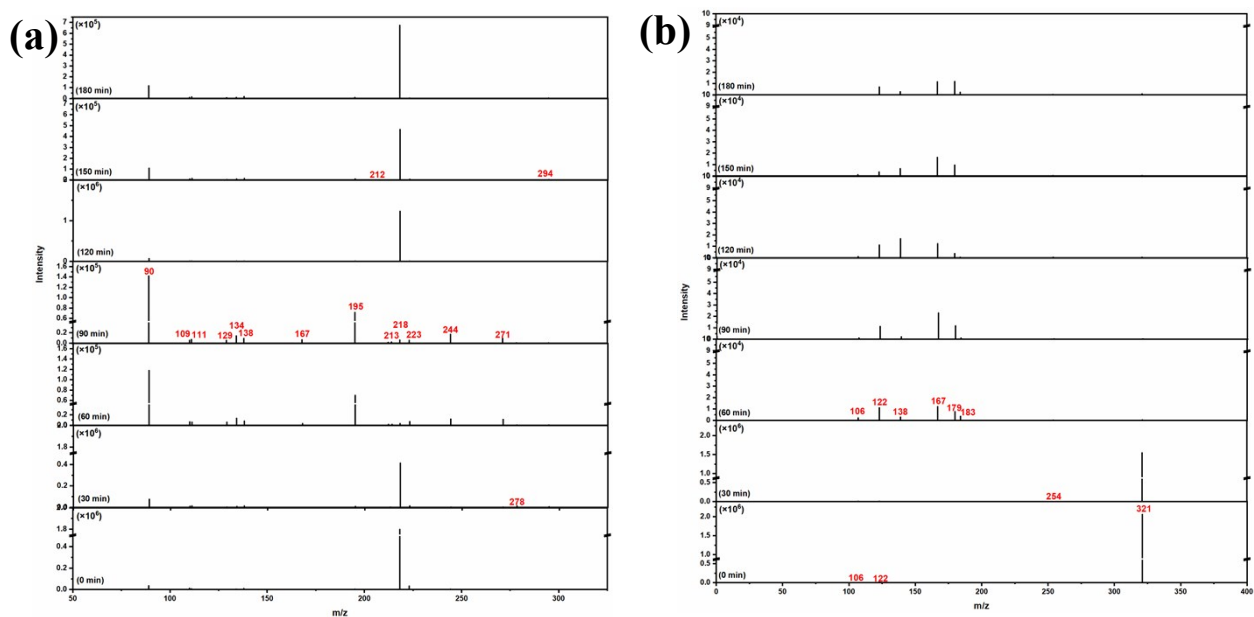


Figure S2. The mass spectra of the intermediates formed during the photodegradation of CPL in positive(a) and negative(b) ESI mode.

Table S1 Characteristic ions of CPL and its photocatalytic degradation intermediates detected by LCMS-IT-TOF at different reaction time

Code	Molecular formula	m/z	
		Positive ion([M+H] ⁺)	Negative ion([M-H] ⁻)
CPL	C ₁₁ H ₁₂ Cl ₂ N ₂ O ₅	-	321
P1	C ₁₁ H ₁₈ O ₆ N ₂	271	-
P2	C ₁₀ H ₁₀ O ₄ N ₂ Cl ₂	294	-
P3	C ₁₀ H ₁₀ O ₄ NCl	244	-
P4	C ₇ H ₅ O ₄ N	167	-
P5	C ₂ H ₃ O ₃ Cl	111	-
P6	C ₇ H ₆ O ₃	138	-
P7	C ₂ H ₂ O ₂ Cl ₂	129	-
P8	C ₂ H ₂ O ₄	90	-
P9	C ₉ H ₁₀ O	134	-
P10	C ₁₁ H ₁₃ O ₃ NCl ₂	278	-
P11	C ₁₁ H ₁₃ O ₄ N	223	-
P12	C ₉ H ₉ O ₄ N	195	-

P13	$C_6H_4O_2$	109	-
P14	$C_9H_{12}O_4N_2$	212	-
P15	$C_9H_{11}O_5N$	213	-
P16	$C_8H_8O_4$	167	-
P17	$C_2H_3O_3N$	90	-
P18	$C_5H_{10}O_4NCl_2$	218	-
P19	$C_{11}H_{14}O_5N_2$	-	254
P20	$C_8H_9O_4N$	-	183
P21	$C_7H_6O_2$	-	122
P22	C_7H_6O	-	106
P23	$C_{11}H_{14}O_3NCl$	-	242
P24	$C_6H_5O_3$	-	138
P25	$C_9H_9O_3N$	-	179
