

Supporting Information for

Microwave solvothermal synthesis of 3D Bi₂MoO₆ microspheres with enhanced photocatalytic activity

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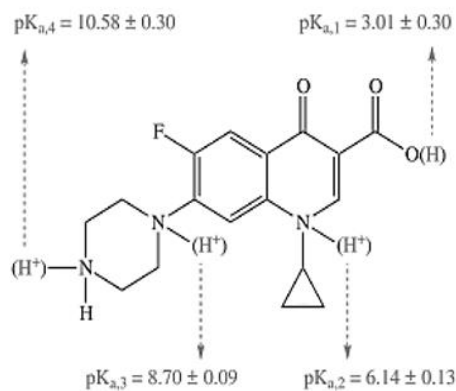
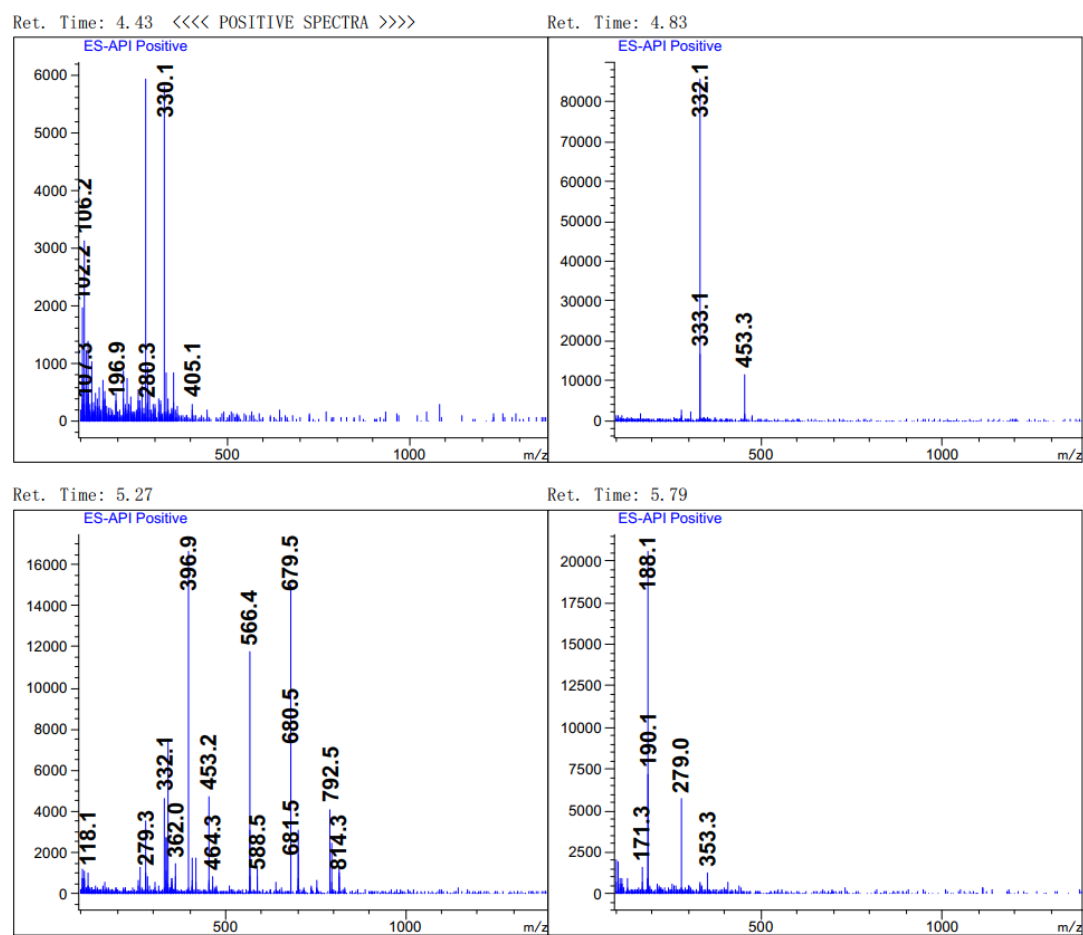


Figure S1. Molecular structure and dissociation positions of ciprofloxacin. The pKa values are taken from ref [1, 2].



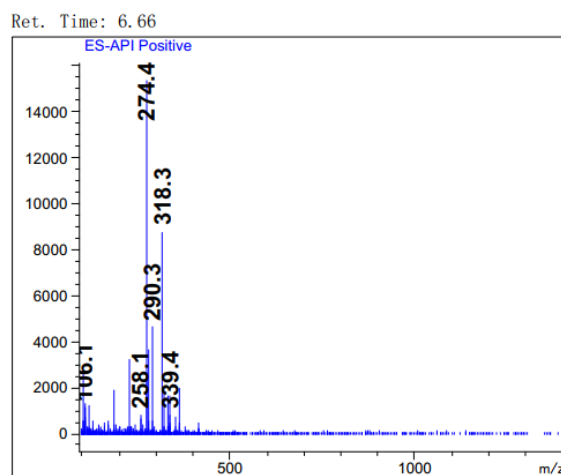
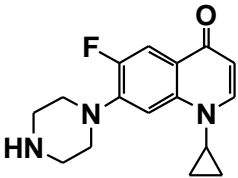
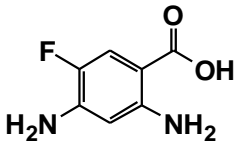


Figure S2. Mass spectra of the CIP and intermediates eluted at different retention time.

Table S1 The identified of CIP and its possible transformation products during the photodegradation.

Compounds	Formula	m/z	Proposed structure
CIP	$C_{17}H_{18}FN_3O_3$	332	
P1	$C_{17}H_{16}FN_3O_4$	333.1	
P2	$C_{14}H_{11}FN_2O_4$	290.3	
P3	$C_{13}H_{11}FN_2O_3$	258.1	
P4	$C_6H_{12}N_2O_3$	330.1	

P5	$C_{16}H_{18}ON_3F$	280.1	
P6	$C_7H_7O_2N_2F$	171.3	

References

- (1) Turiel, E.; Bordin, G.; Rodriguez, A. R., Study of the evolution and degradation products of ciprofloxacin and oxolinic acid in river water samples by HPLC-UV/MS/MS-MS. *J Environ Monit* **2005**, 7, 189-195.
- (2) Qiang, Z. M; Adams, C., Potentiometric determination of acid dissociation constants (pKa) for human and veterinary antibiotics. *Water Res* **2004**, 38(12), 2874-2890.