

Supplementary Material

Photodegradation of sulfamethoxazole and enrofloxacin under UV and simulated solar light irradiation

Xiaohu Lin^{1,2,3,*}, Wenming Zhou^{1,3}, Shiyi Li^{1,3}, Haifeng Fang^{1,3}, Shengjie Fu^{1,3}, Jingcheng Xu^{2,4,*} and Juwen Huang^{2,4}

¹ PowerChina Huadong Engineering Corporation Limited, Hangzhou 311122, P. R. China; tjhjxhlin@tongji.edu.cn (X.L.), zhou_wm@hdec.com (W.Z.), li_sy5@hdec.com (S.L.), fang_hf@hdec.com (H.F.), fu_sj@hdec.com (S.F.)

² College of Environmental Science and Engineering, Tongji University, Shanghai 200092, P. R. China; xujick@tongji.edu.cn (J.X.), jwhuang@tongji.edu.cn (J.H.)

³ Huadong Eco-environmental Engineering Research Institute of Zhejiang Province, Hangzhou 311122, China

⁴ Shanghai Institute of Pollution Control and Ecological Security, Shanghai, 200092, China

* Correspondence: tjhjxhlin@tongji.edu.cn (X.L.), xujick@tongji.edu.cn (J.X.); Tel.: +86-0571-56613288 (X.L.); +86 021-65982010 (J.X.)

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Table S1. Details of the materials and reagents

No.	Name	Specification	Source
1	Sodium nitrate (NaNO ₃)	Analytical Reagent, ≥99.0%	Sinopharm Chemical Reagent Co., Ltd (Shanghai, China)
2	Sodium sulphate (Na ₂ SO ₄)	Analytical Reagent	
3	Sodium Carbonate (Na ₂ CO ₃)	Analytical Reagent	
4	Sodium chloride (NaCl)	Analytical Reagent	
5	Dilute Hydrochloric Acid	Analytical Reagent, 36.0~38.0%	
6	Sodium hydroxide (NaOH)	Analytical Reagent, ≥96.0%	
7	1,4-Benzoquinone	Chemically Pure	
8	tert-Butanol (tBA)	Analytical Reagent, ≥99.5%	
9	Sulfamethoxazole (SMX)	Analytical Reagent, 99%	Aladdin Reagent Co., Ltd (Shanghai)
10	Enrofloxacin (ENR)	Analytical Reagent	
11	Methanol	Chromatography grade	
12	Formic acid	for HPLC, ≥98%	
13	Isopropanol (IPA)	Preparative chromatography grade, 99.8%	
14	Ethylenediaminetetraacetic acid disodium salt (EDTA-2Na)	GR, 99%	
15	Humic acid	Fulvic acid (AF), ≥90%	Sigma-Aldrich (Shanghai) Co., Ltd.
16	Acetonitrile	Gradient grade, ≥99.9%	
17	Ultrapure water	Ultrapure water (resistivity 18.2 MΩ·cm ⁻¹ at 25 °C)	Produced by Merck Millipore water purification system

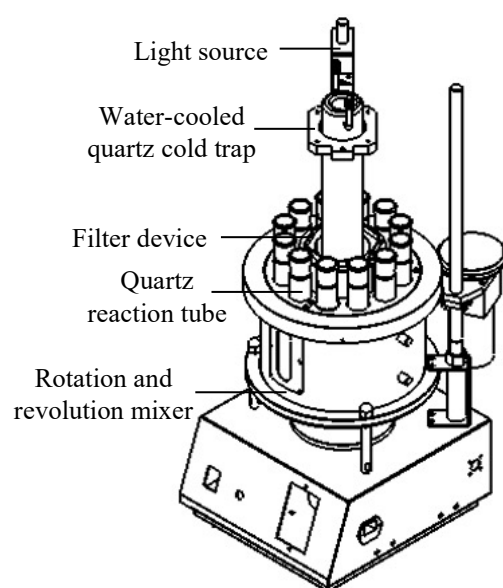


Figure S1. Schematic diagram of the main part of photochemical reactor (NBcT, PhchemIII)

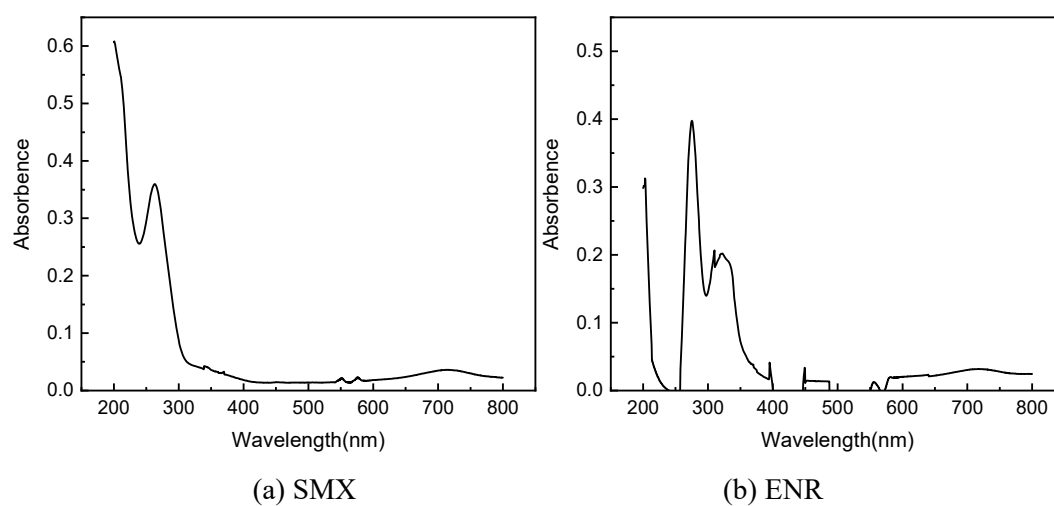


Figure S2. The UV-Vis spectra of SMX and ENR