

**Transformation and degradation of recalcitrant organic matters in membrane  
bioreactor leachate effluent by O<sub>3</sub>/H<sub>2</sub>O<sub>2</sub> process**

Zhepei Gu, Weiming Chen, Fan Wang, Qibin Li\*

Faculty of Geosciences and Environmental Engineering, Southwest Jiaotong University, Chengdu

611756, China

Corresponding author: Qibin Li ([liqb@home.swjtu.edu.cn](mailto:liqb@home.swjtu.edu.cn))

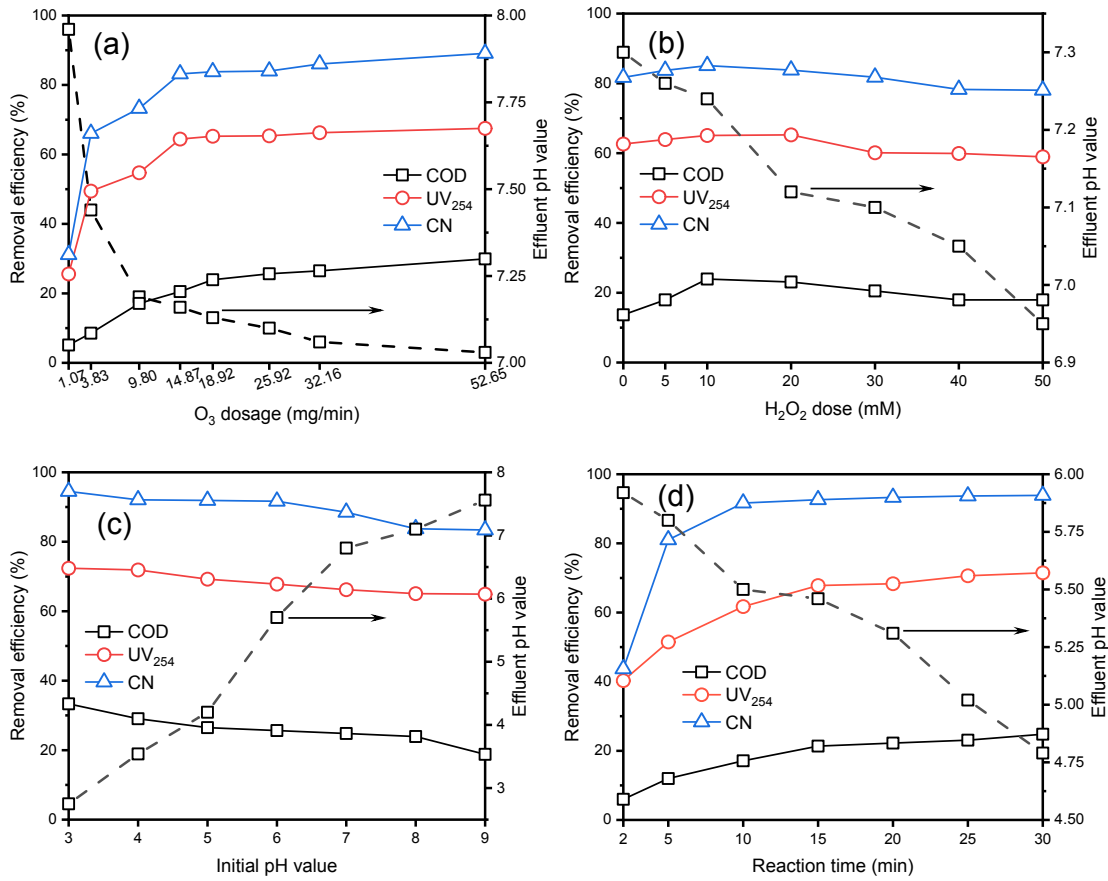


Fig. S1. Effect of reaction conditions on regular indices removal by O<sub>3</sub>/H<sub>2</sub>O<sub>2</sub>. Conditions: O<sub>3</sub> dosage = 18.92 mg/min, H<sub>2</sub>O<sub>2</sub> dose = 10 mM, initial pH = 3, and reaction time = 30 min.

Table S1. Specific absorbance ratio of MBR leachate during O<sub>3</sub>/H<sub>2</sub>O<sub>2</sub> treatment

Item	0 min	2 min	5 min	10 min	15 min	30 min
E <sub>254</sub>	1.2533	0.7915	0.7725	0.5578	0.4080	0.3782
E <sub>280</sub>	1.0236	0.6348	0.6178	0.4036	0.2784	0.2590
E <sub>240</sub> /E <sub>420</sub>	10.3799	10.6404	12.1524	26.7399	31.4444	24.3478
E <sub>250</sub> /E <sub>365</sub>	3.3695	3.4819	3.6164	5.7753	7.1205	6.1242
E <sub>300</sub> /E <sub>400</sub>	4.2793	4.3147	4.6146	7.1217	7.9588	5.6942
A <sub>226-400</sub>	128.6055	80.5962	77.7126	50.6467	36.1731	34.6965
A <sub>275-295</sub>	0.0114	0.0112	0.0115	0.0153	0.0175	0.0159
A <sub>350-400</sub>	0.0157	0.0154	0.0168	0.0198	0.0203	0.0158