

Electronic Supporting Information

for

Magnetic Iron/Carbon Nanorod Derived from
Metal Organic Framework as an Efficient
Heterogeneous Catalyst for Chemical Oxidation
Process in Water

Kun-Yi Andrew Lin and Fu-Kong Hsu*

Department of Environmental Engineering, National Chung Hsing University,
250 Kuo-Kuang Road, Taichung, Taiwan, R.O.C.

*Corresponding Author. Tel: +886-4-22854709, E-mail address: linky@nchu.edu.tw

(Kun-Yi Andrew Lin)

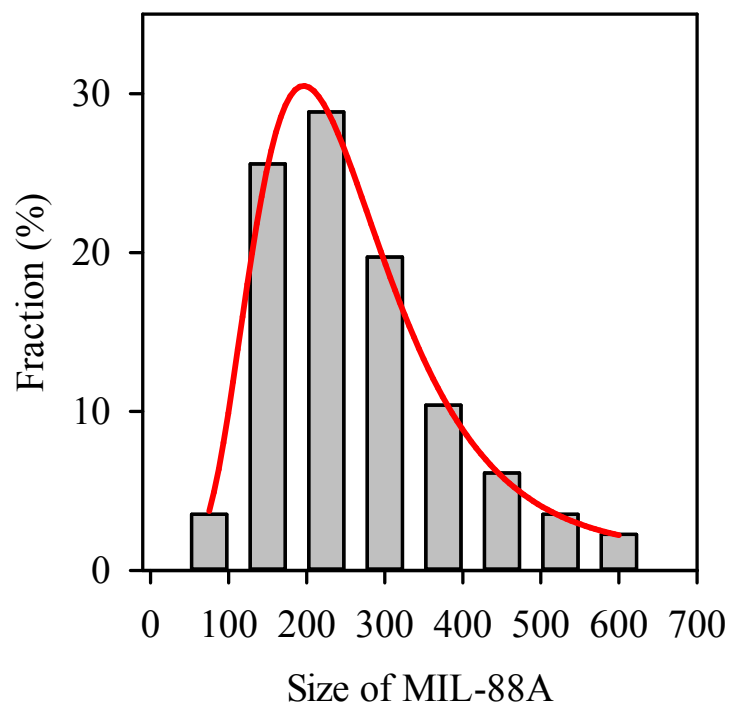


Fig. S1. The size distribution of MIL-88A nanorod. The red line shows the fitting curve for the distribution by Log Normal distribution model.

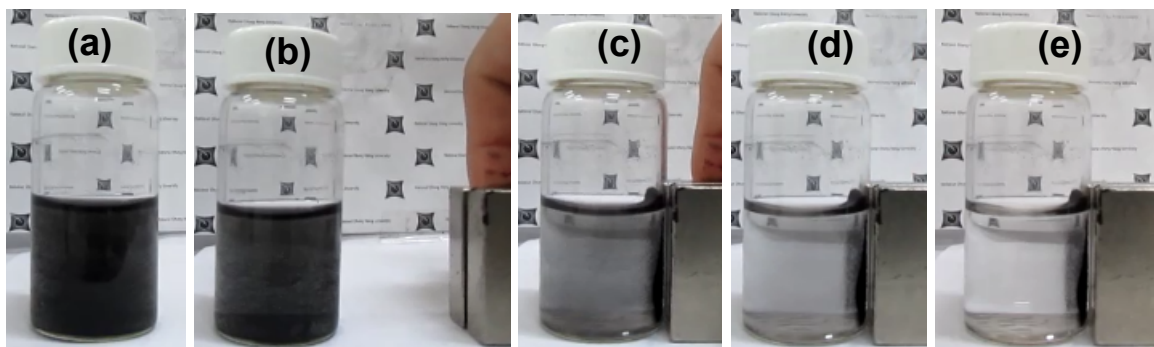


Fig. S2. Sequential pictures showing the quick separation of MICN from water by a permanent magnet: (a) $t = 0$ s, (b) $t = 2$ s, (c) $t = 3$ s, (d) $t = 5$ s, and (e) $t = 10$ s.

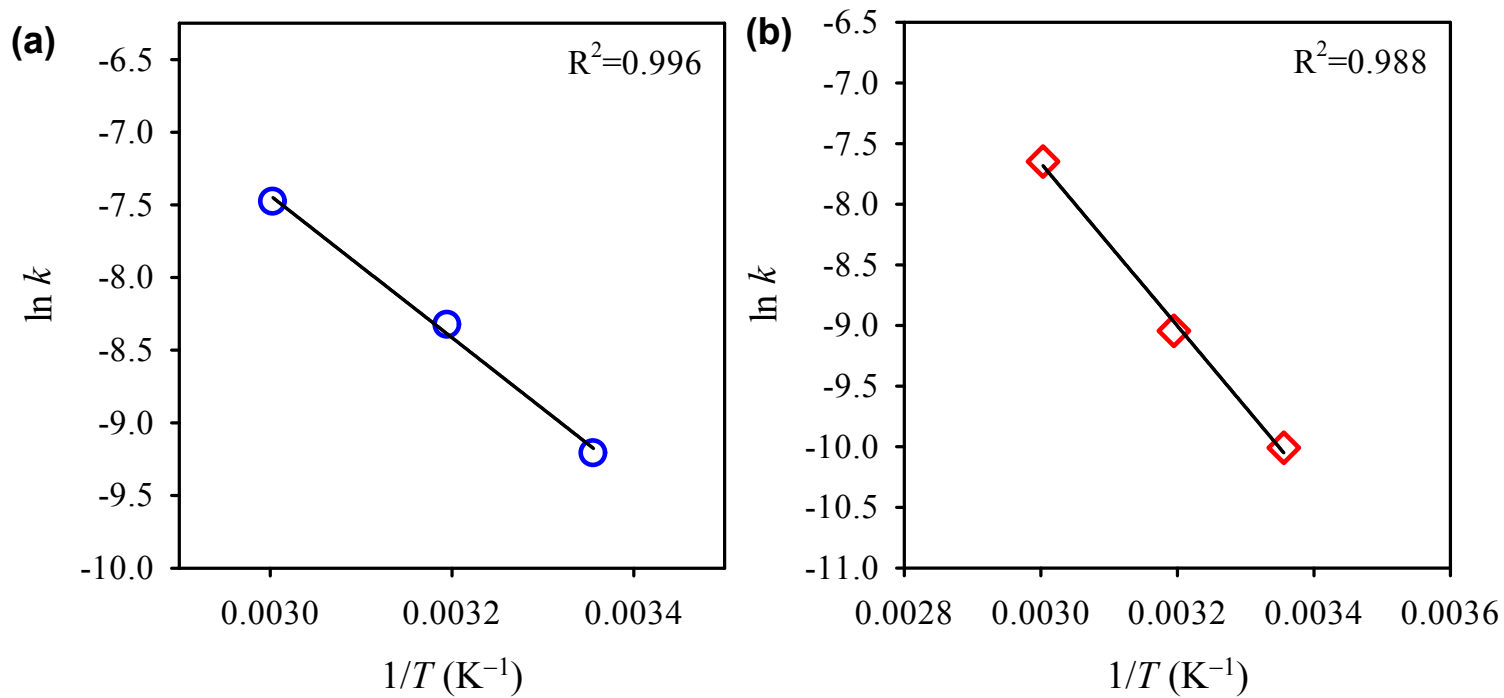


Fig. S3. The Arrhenius plots of Rhodamine B decolorization using MICN-activated oxidative processes: (a) peroxide and (b) persulfate.

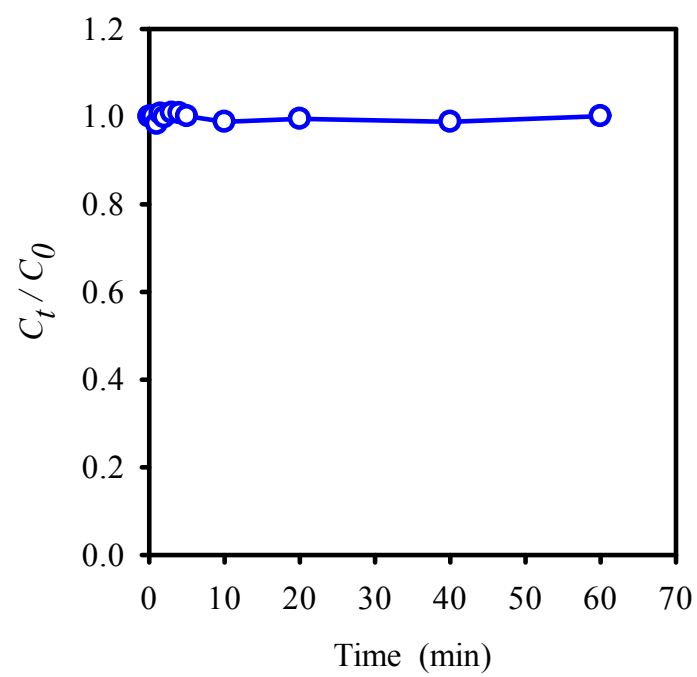


Fig. S4. Photolysis of RB (50 mg L^{-1}) in water by the UV irradiation at $25 \text{ }^\circ\text{C}$.