

Supporting Materials

Synthetic effect on volatile fatty acids disinhibition and methane production enhancement by dosing FeCl₃ in sludge thermophilic anaerobic digestion system

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Figure Captions:

Figure S1: The EEM spectra of DOM during the thermophilic AD process.

(R-0d: DOM in the initial phase;

R1-12d: DOM of the control group after 12 days' digestion, R2-12d, R3-12d, R4-12d, R5-12d and

R6-12d: DOM of the FeCl₃ added groups with the dosages of 2.48 mgFe/gDS, 4.96 mgFe/gDS, 9.92 mgFe/gDS, 19.84 mgFe/gDS and 29.76 mgFe/gDS after 12 days' digestion;

R1-43d: DOM of the control group after 43 days' digestion, R2-43d, R3-43d, R4-43d, R5-43d and

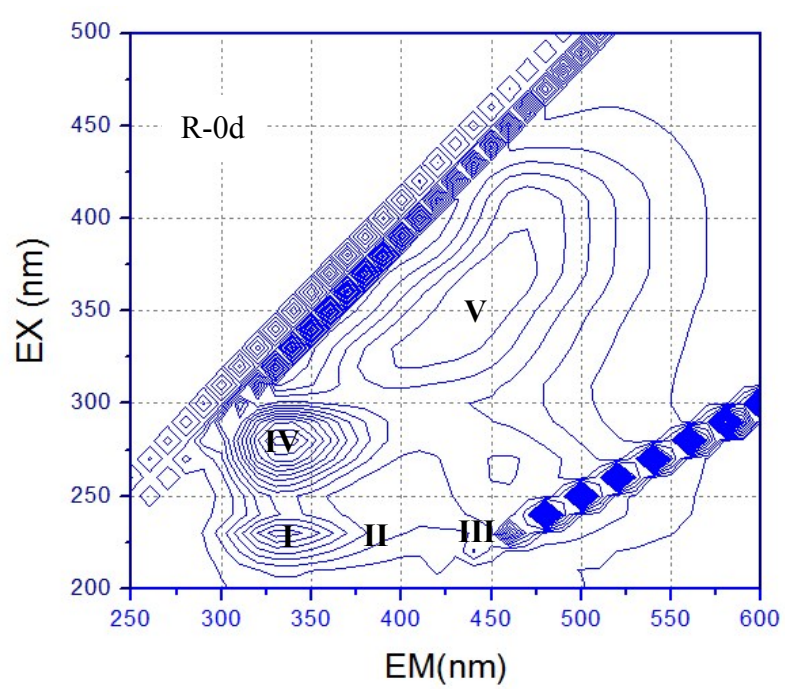
R6-43d: DOM of the FeCl₃ added groups with the dosages of 2.48 mgFe/gDS, 4.96 mgFe/gDS, 9.92 mgFe/gDS, 19.84 mgFe/gDS and 29.76 mgFe/gDS after 43 days' digestion).

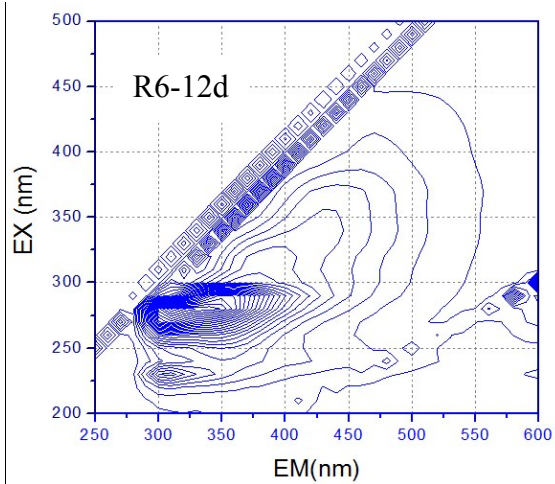
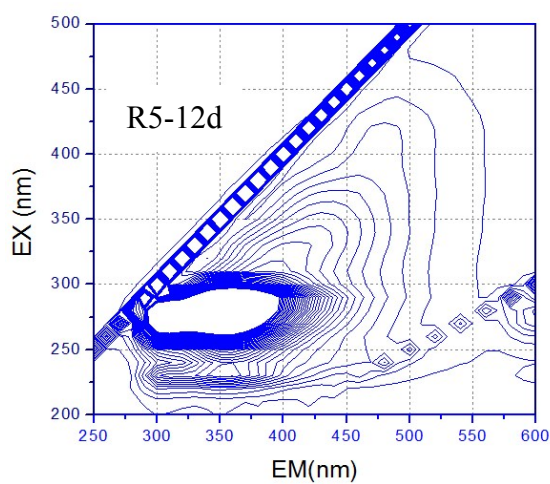
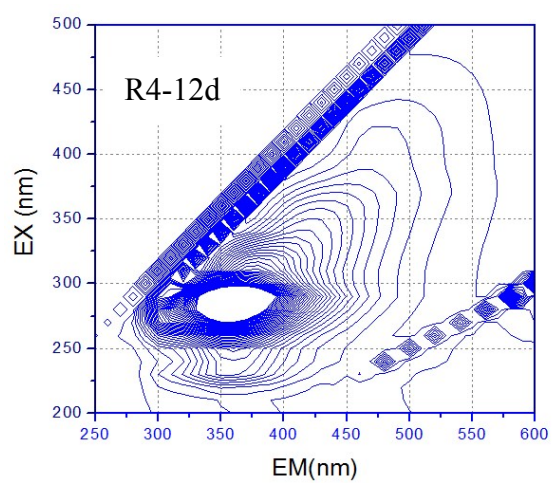
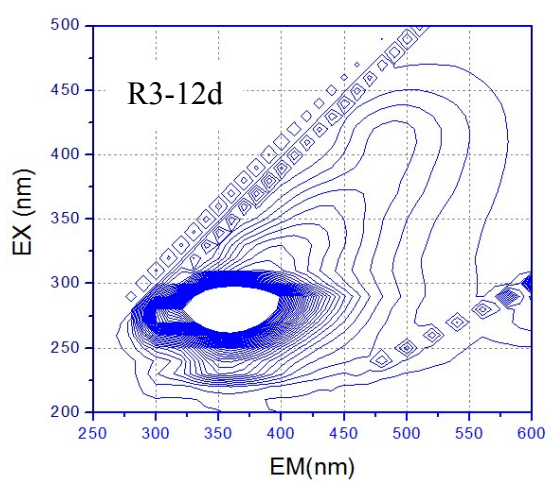
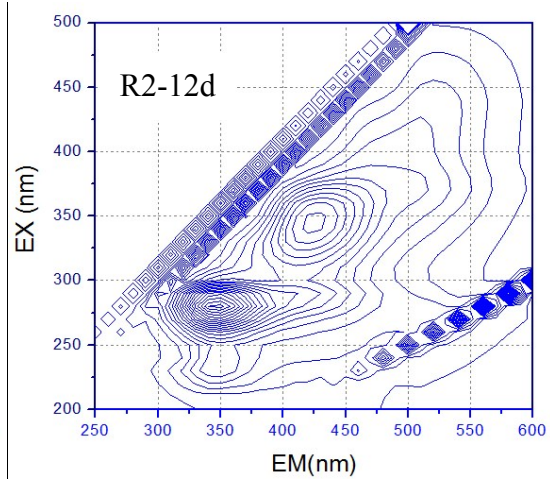
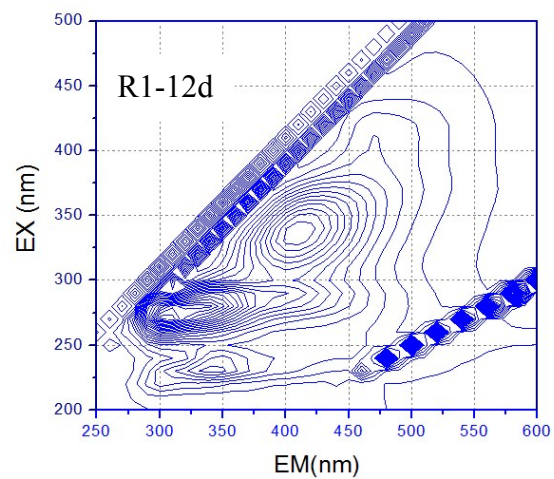
Figure S2: The fate of Fe in R4 with the dosage of 9.92 mgFe/gDS.

Figure S3: Variations of TP concentration in the supernatant at different dosages.

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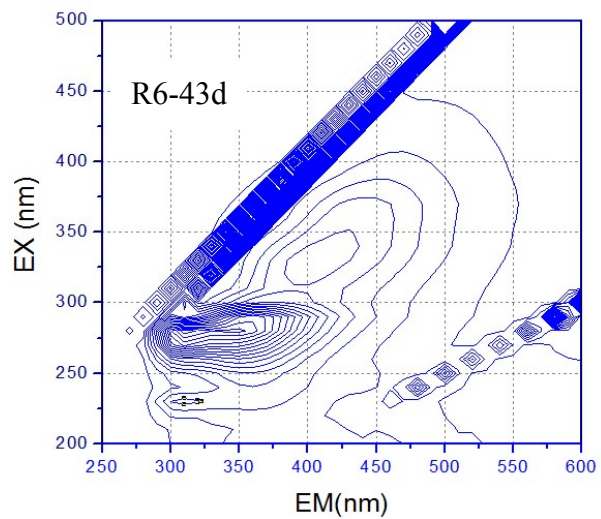
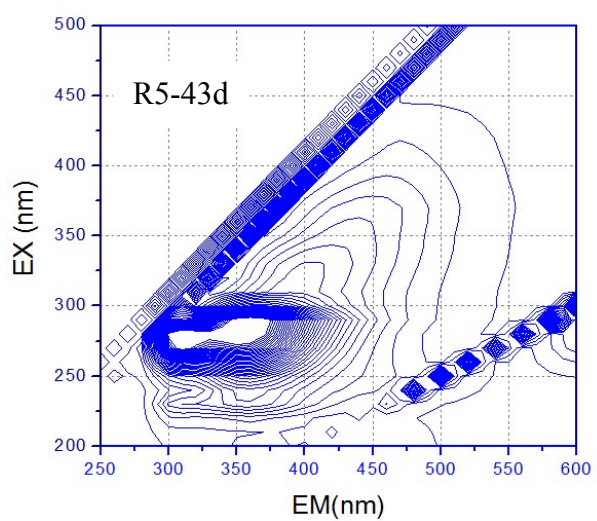
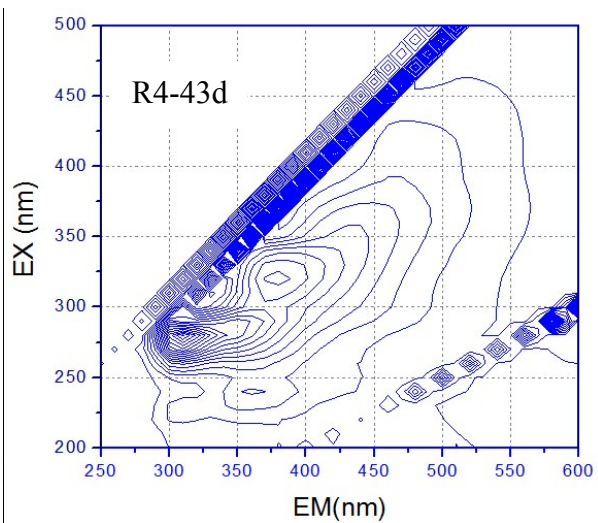
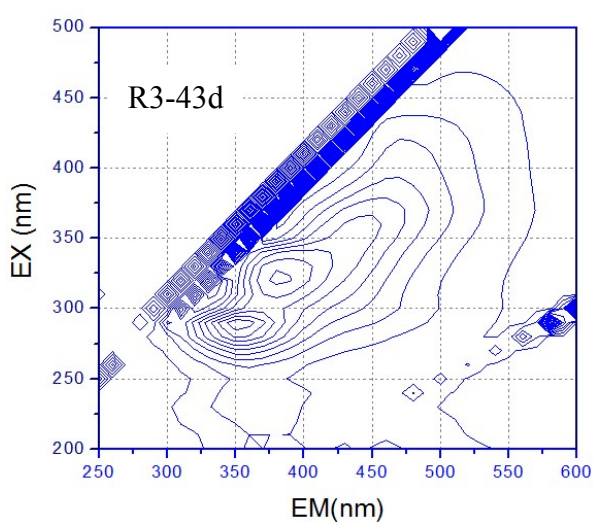
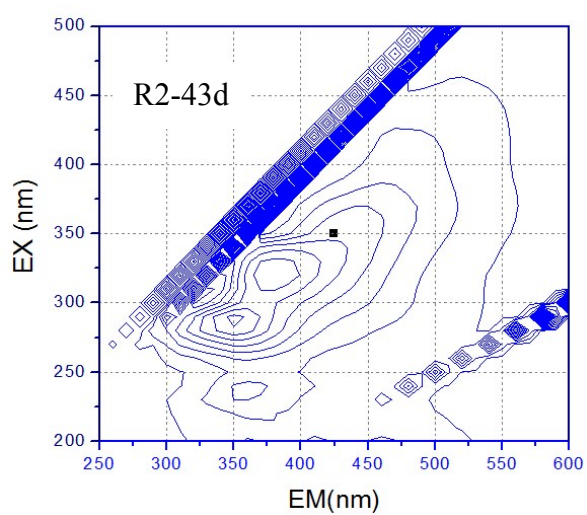
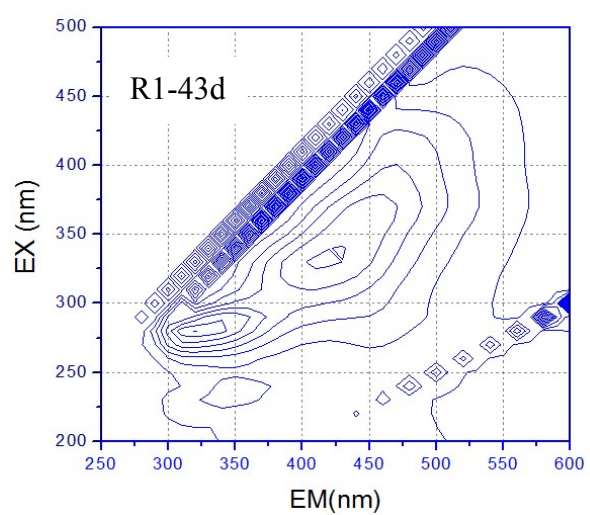


Fig. S1

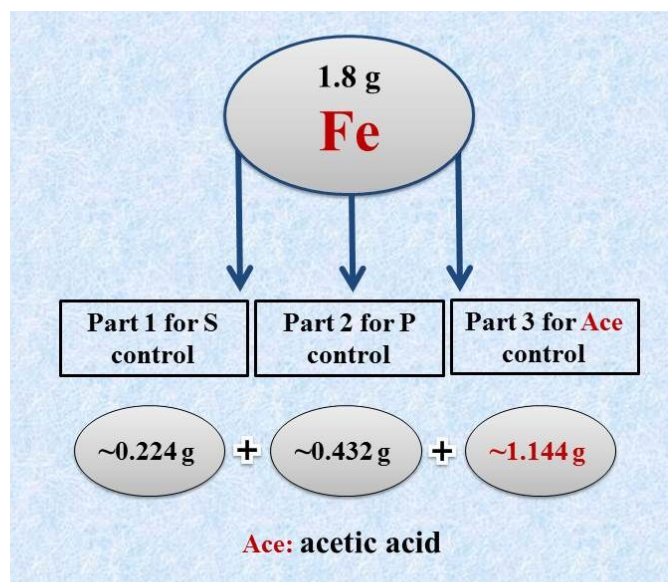


Fig. S2

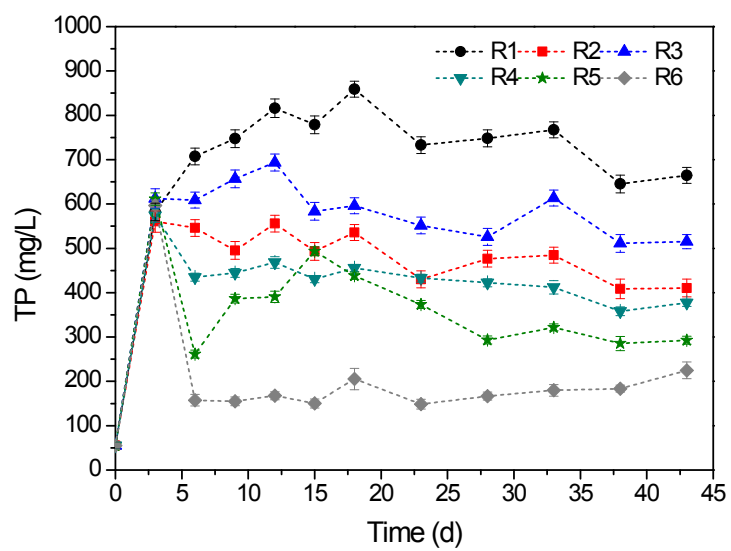


Fig. S3