

Adsorption and Degradation of Congo Red on a Jarosite-type Compound

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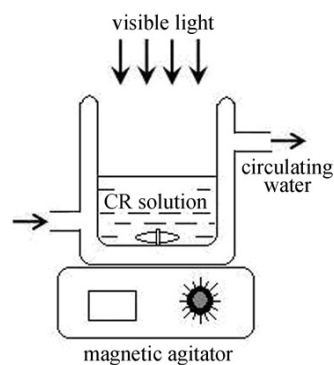


Fig. S1 The scheme of the photoreactor



Fig. S2 The digital photos of natrojarosite (a) before adsorption; (b) after adsorption; (c) washed by distilled water under ultrasonic after adsorption



Fig. S3 The digital photos of natrojarosite (a) before degradation; (b) after degradation

Table S1 The main chemical component in natrojarosite before and after degradation

Elements		Na(K)	S(K)	Fe(K)	O(K)
Before degradation	quality percentage (%)	3.26	12.91	24.41	59.42
	mole percentage (%)	3.37	8.55	9.29	78.79
After degradation	quality percentage (%)	3.32	13.71	31.47	51.50
	mole percentage (%)	3.43	9.82	12.86	73.89

Table S2 The parameters of crystal cell and d-values of typical peaks of natrojarosite before and after degradation

	Before degradation	After degradation
a (Å)	7.3401	7.3306
c (Å)	16.6507	16.6494
(113)	3.0616	3.0311
d (Å) (021)	3.1235	3.0877
(012)	5.0623	4.9690