Supplementary information for

Low-temperature Modified Sludge-derived Carbon Catalysts for Efficient Catalytic Wet Peroxide Oxidation of m-Cresol

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Summary: This file contains 2 pages, including 2 tables and 1 figure.

S1. Mössbauer parameters and spectra of SCs

Table S1 Mössbauer parameters of SCs.

Sample	Component	IS ($mm \cdot s^{-1}$)	QS ($mm \cdot s^{-1}$)	LW ($mm \cdot s^{-1}$)	RA (%)
SC	Fe (II)	0.93	2.30	0.89	65.3
	Fe (III)	0.34	0.83	0.74	34.7
SC-T0	Fe (II)	0.91	2.33	0.80	43.0
	Fe (III)	0.29	0.86	0.70	57.0

S2. XPS for SC catalysts

Table S2 Atomic content and O/C atomic ratios of SCs by XPS.

Element	SC	SC-T0	SC-T40	SC-T80
C	43.22	49.03	44.86	38.73
O	33.43	32.48	36.11	43.66
Si	6.35	9.17	10.1	13.63
N	3.63	4.77	4	3.98
Al	4.26	3.49	3.61	-
Fe	1.88	1.06	0.76	-
Ca	3.44	-	-	-
P	2.02	-	-	-
Mg	1	-	0.55	-
O/C	0.77	0.66	0.80	1.13

The element composition determined by XPS was not as accurate as by XRF method, but could provide a way to compare the content of an element in different samples, such as the obvious difference of Fe content in the four samples.

S3. DMPO trapped EPR spectra

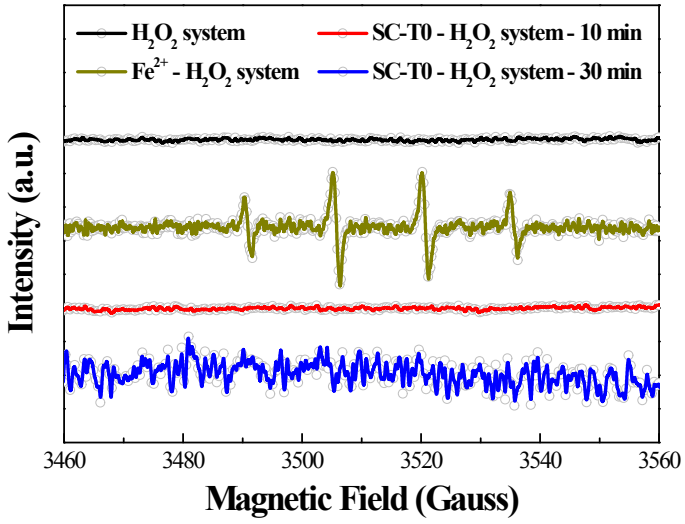

Fig.S1. DMPO trapped EPR spectra.