

Fe₃O₄/MWCNT as heterogeneous Fenton catalyst: Degradation pathways of tetrabromobisphenol A

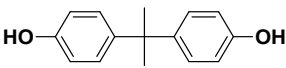
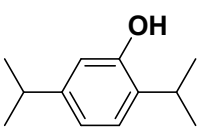
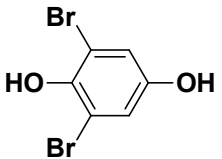
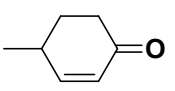
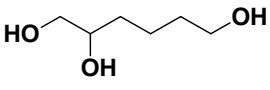
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Table S1. Binding energy of Fe 2p and surface atomic concentration of detected Fe³⁺ and Fe²⁺ for Fe₃O₄/MWCNTs and Fe₃O₄.

	Binding energy (eV)		Atomic surface concentration (%)	
	Fe 2p 1/2	Fe 2p 3/2	Fe ²⁺	Fe ³⁺
Fe₃O₄/MWCNT(Before)	711.65	724.85	32.4	67.6
Fe₃O₄/MWCNT(After)	711.18	724.28	30.0	70.0
Fe₃O₄(Before)	711.78	725.74	32.7	67.3
Fe₃O₄(After)	711.53	725.40	27.8	72.2

Table S2. The degradation products of TBBPA by GC-MS.

Product	Molecular formula	Molecular weight	Mass-to-charge ratio (m/z)	Retention time (min)
1		228	228, 213, 119, 107	45.847
2		178	178, 163, 121, 91	5.391
3		268	268, 158, 79, 53	5.538
4		112	112, 84, 68, 55	5.264
5		134	131, 84, 56	4.023

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