SUPPLEMENTARY MATERIAL

Magnetic solid-phase extraction of caffeine from surface water samples with micro-meso porous activated carbon/Fe$_3$O$_4$ nanocomposite prior to its determination by GC-MS

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Table S1. Textural parameters of Fe_3O_4, B and Bm

Adsorbent	SSA m²/g	V_{tot} (cm³/g)	V_{mic} (cm³/g)	V_{mes} (cm³/g)
Fe_3O_4	106.6	0.404	0	0.404
B	2490	1.619	0.293	1.326
Bm	1559.8	1.170	0.297	0.873

Table S2. Results of the analysis of caffeine in real surface water samples

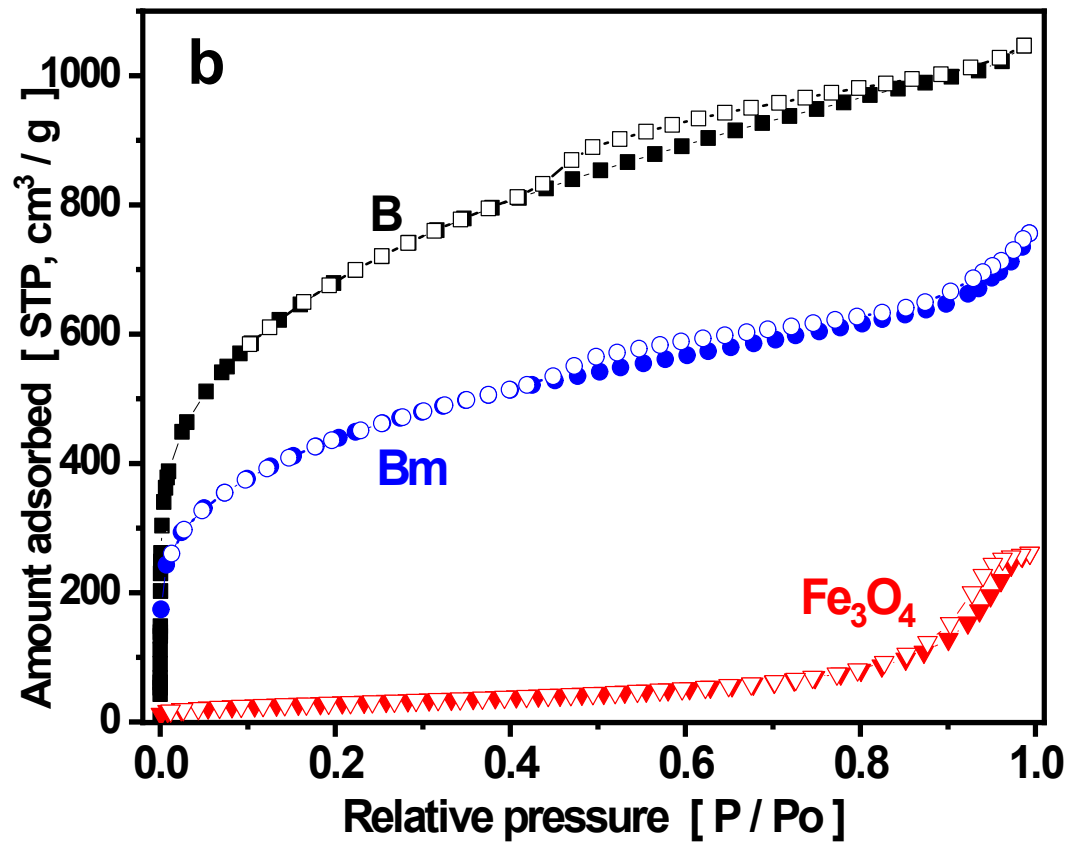| Analyte	River Surface Water Sample			Lake Surface Water Sample		
	Added (ng mL^{-1})	Found (ng mL^{-1})	RR %	Added (ng mL^{-1})	Found (ng mL^{-1})	RR %
Caffeine	0	ND	-	0	ND	-
	6.0	5.8 ± 0.6	96.7	60.0	5.6 ± 0.5	93.3

Figure S1. N$_2$ adsorption (open symbols)–desorption (closed symbols) isotherms for Bm
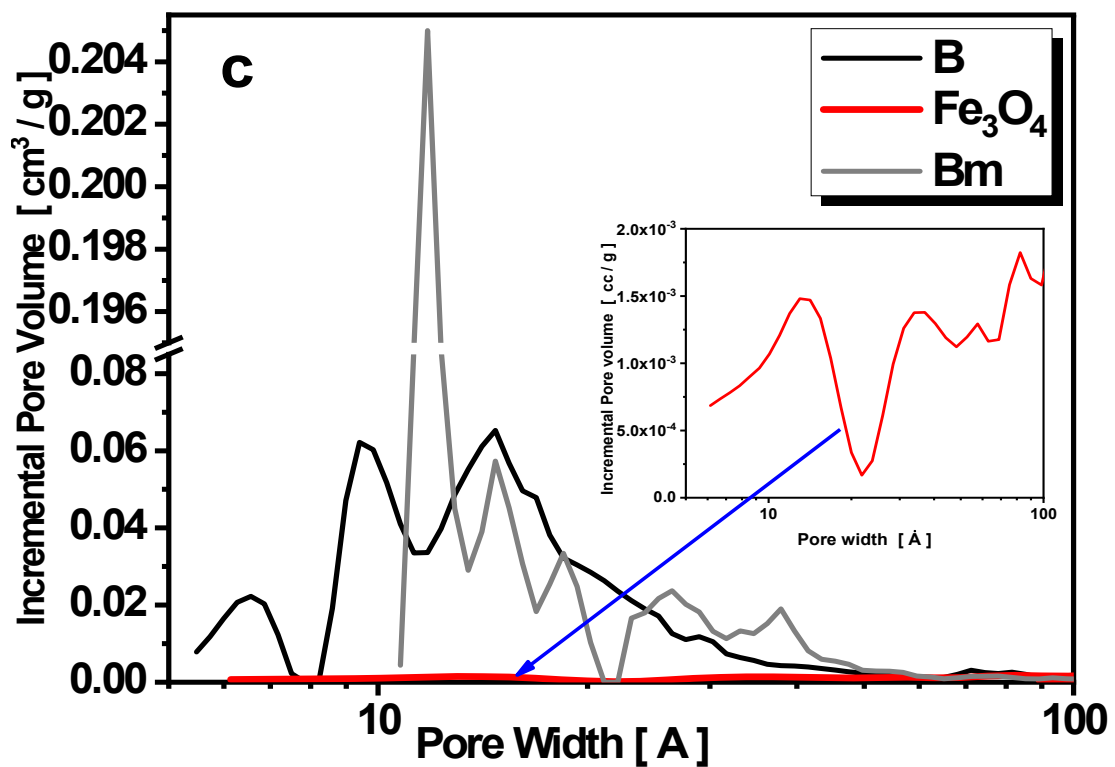

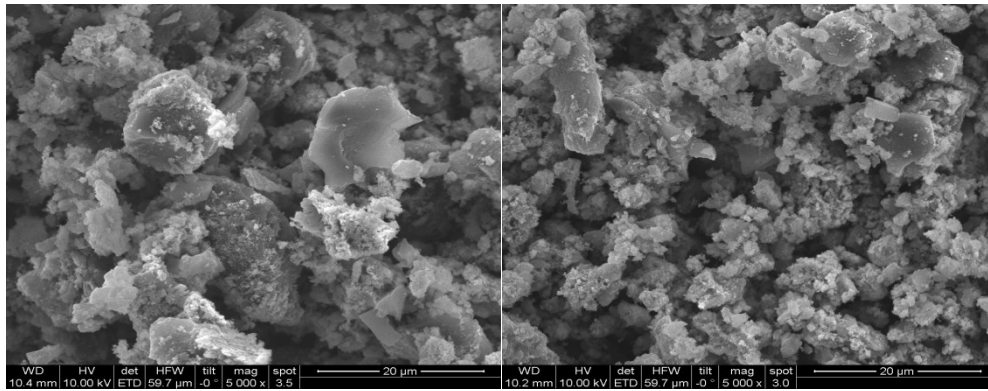**Figure S2.** Pore size distribution for Bm

Figure S3. SEM micrographs of Bm activated carbon before (left) and after (right) the adsorption of caffeine