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Sulfonated poly(styrene-divinylbenzene-glycidyl methacrylate)-capsulated magnetite nanoparticles as a recyclable catalyst for one-step biodiesel production from high free fatty acid-containing feedstocks

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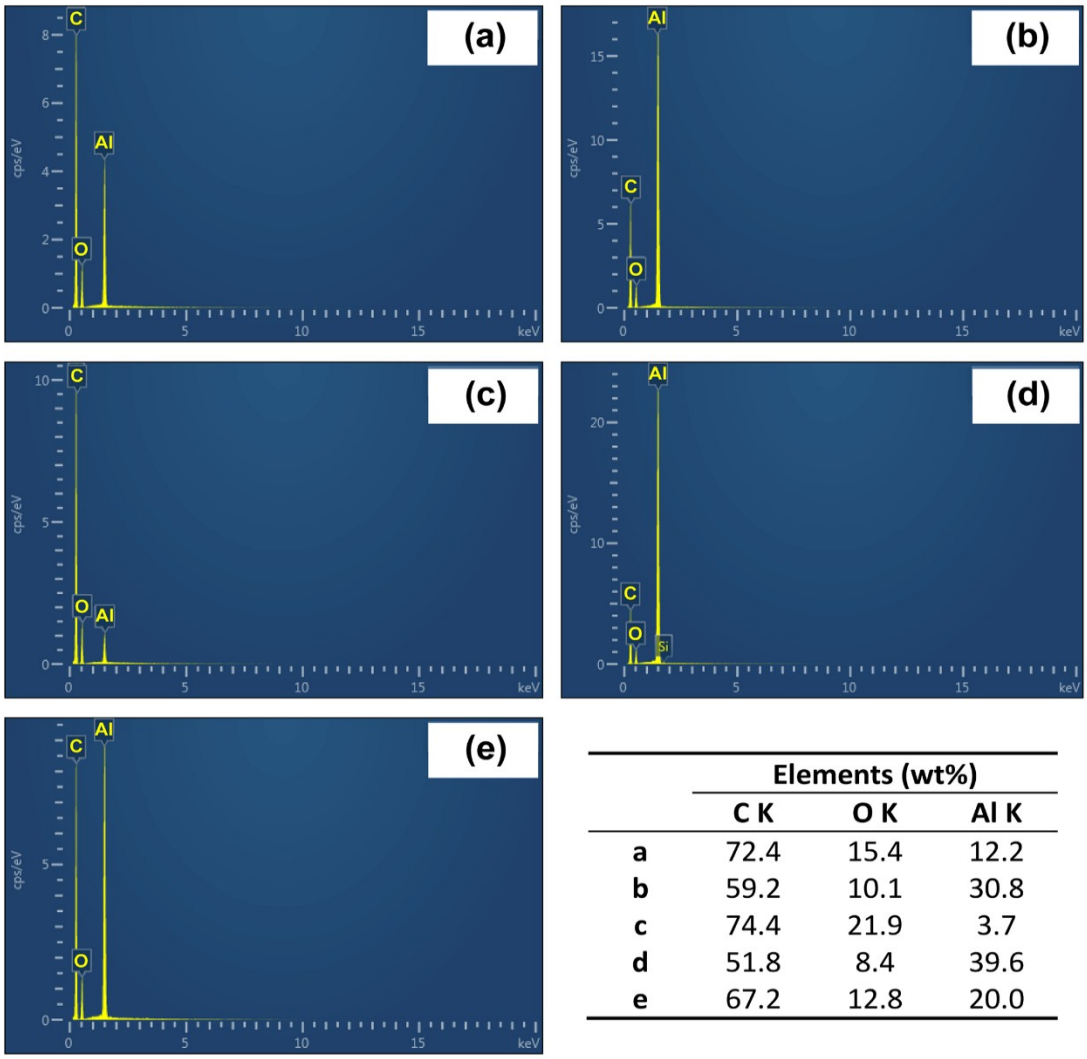

	Elements (wt%)		
	C K	O K	Al K
a	72.4	15.4	12.2
b	59.2	10.1	30.8
c	74.4	21.9	3.7
d	51.8	8.4	39.6
e	67.2	12.8	20.0

Figure S1. Energy dispersive X-ray (EDX) spectra of char residues obtained from thermogravimetric analysis of the resultant biodiesel by using MNPs@PST@SO_3H as catalyst in five cycles. (a) cycle 1; (b) cycle 2; (c) cycle 3; (d) cycle 4 and (e) cycle 5.