

Supplementary

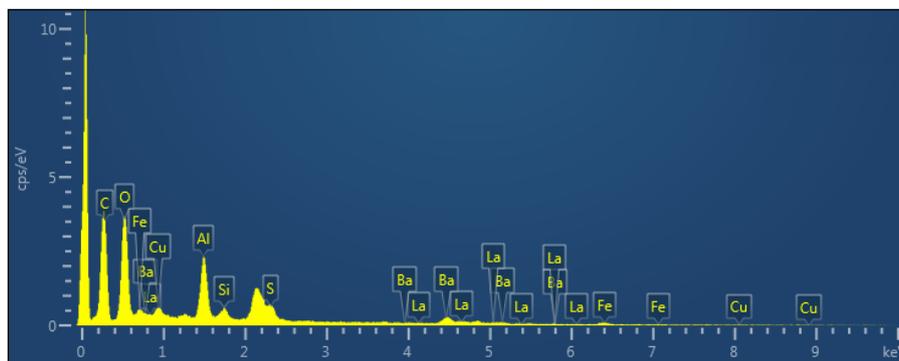
# The role of rare earth lanthanum oxide in polymeric matrix brake composites to replace copper

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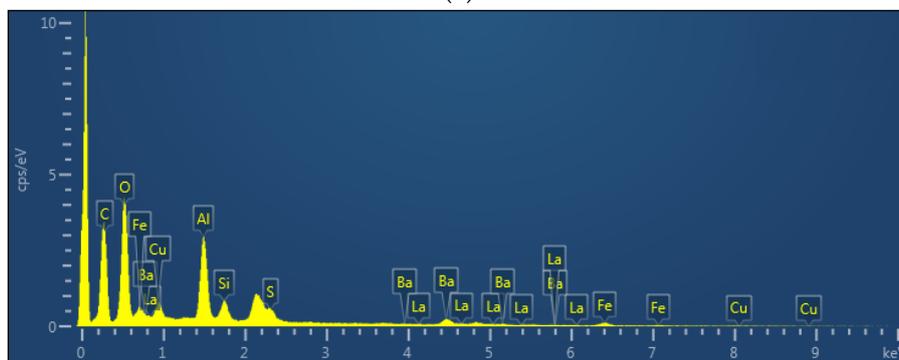
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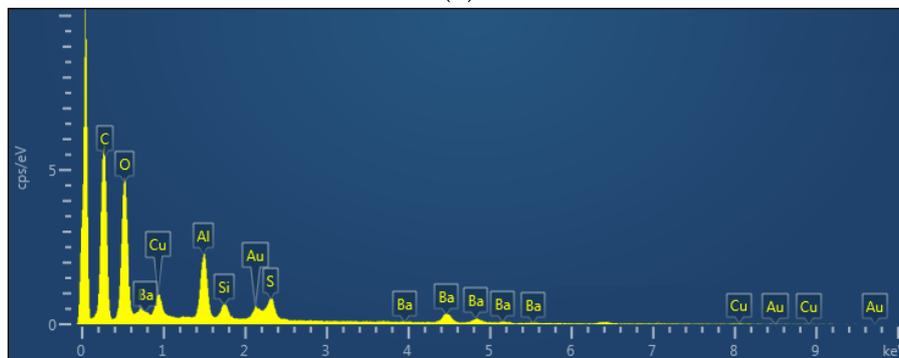
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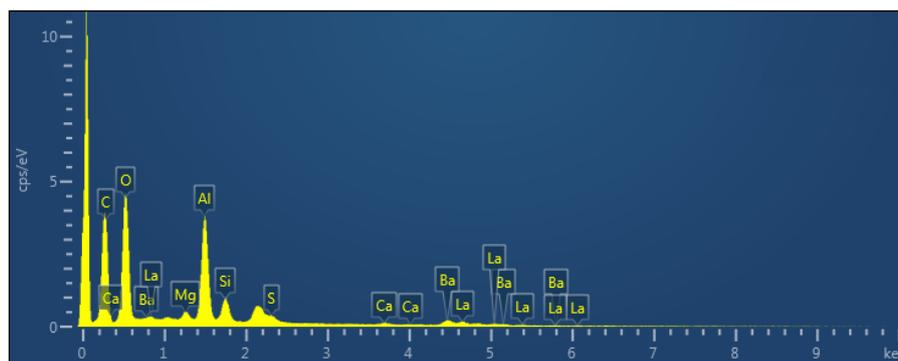
(a)



(b)



(c)



(d)

**Figure 1.** EDS spectrums of the worn surfaces of the brake composites: (a) C<sub>10</sub>L<sub>5</sub>; (b) C<sub>5</sub>L<sub>10</sub>; (c) C<sub>15</sub>L<sub>0</sub>; (d) C<sub>0</sub>L<sub>15</sub>.



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