

## Determination of rare earth elements in graphite by solid sampling electrothermal vaporization-inductively coupled plasma mass spectrometry

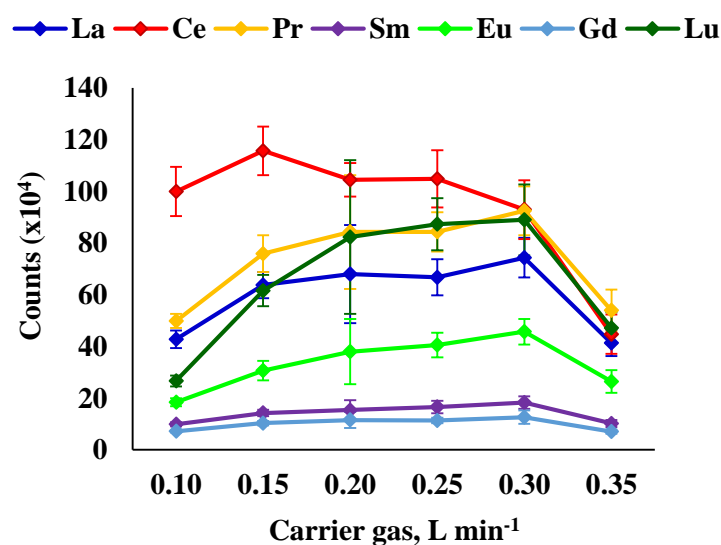
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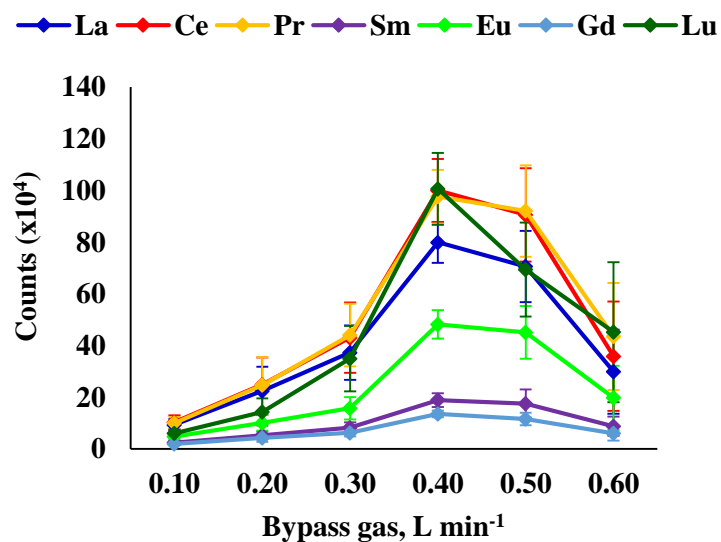
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### ELECTRONIC SUPPLEMENTARY INFORMATION



**Fig. S1** Effect of carrier gas flow-rate on reference solution signal intensity. Conditions: 200 pg of REE; 20 s at 600 °C, ramp of 5 s; 30 s at 100 °C, ramp of 1 s; 6 s at 1600 °C, ramp of 0 s; 5 s at 100 °C ramp of 1 s; 6 s at 2200 °C, ramp of 0 s. Modifier gas flow-rate: 3.0 mL min<sup>-1</sup>. Error bars represent the standard deviation (n = 3).



**Fig. S2** Effect of bypass gas flow-rate on reference solution signal intensity. Conditions: 200 pg of REE; 20 s at 600 °C, ramp of 5 s; 30 s at 100 °C, ramp of 1 s; 6 s at 1600 °C, ramp of 0 s; 5 s at 100 °C ramp of 1 s; 6 s at 2200 °C, ramp of 0 s. Modifier gas flow-rate: 3.0 mL min<sup>-1</sup>. Error bars represent the standard deviation (n = 3).