

## Electronic Supplementary Information For

### Gas dispersion concentration of trace inorganic contaminants from fuel gas and analysis using head-column field-amplified sample stacking capillary electrophoresis

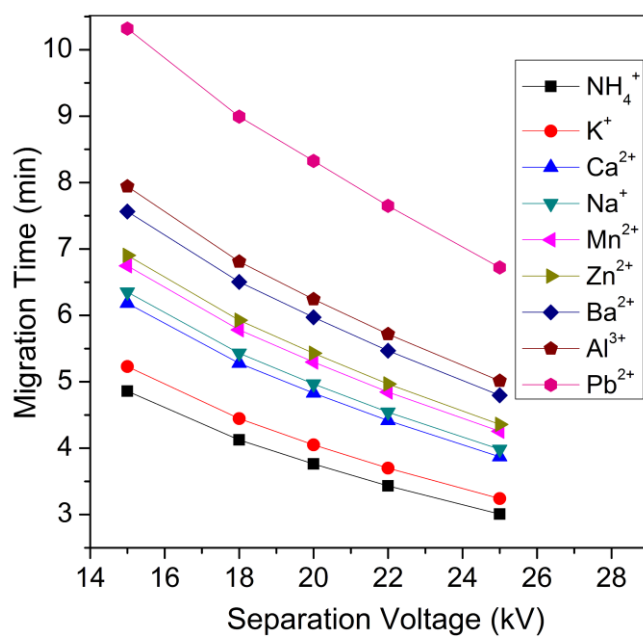
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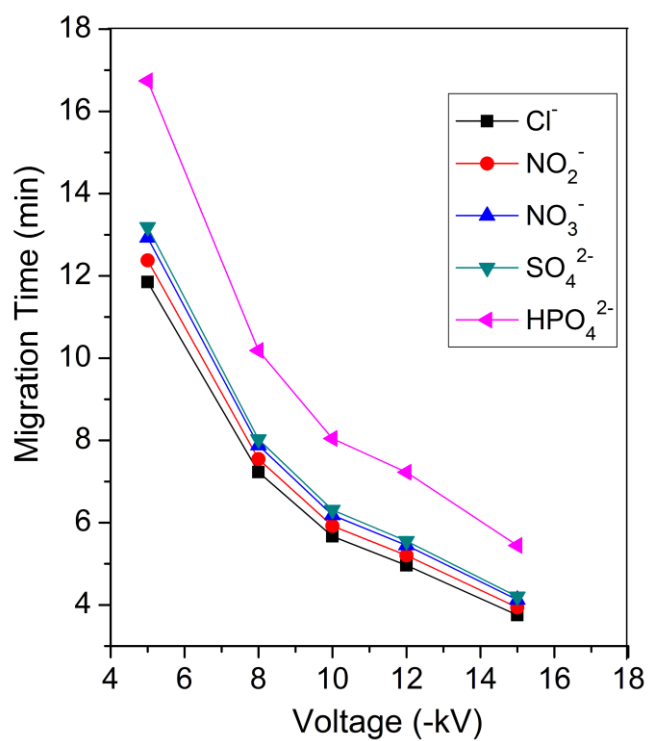
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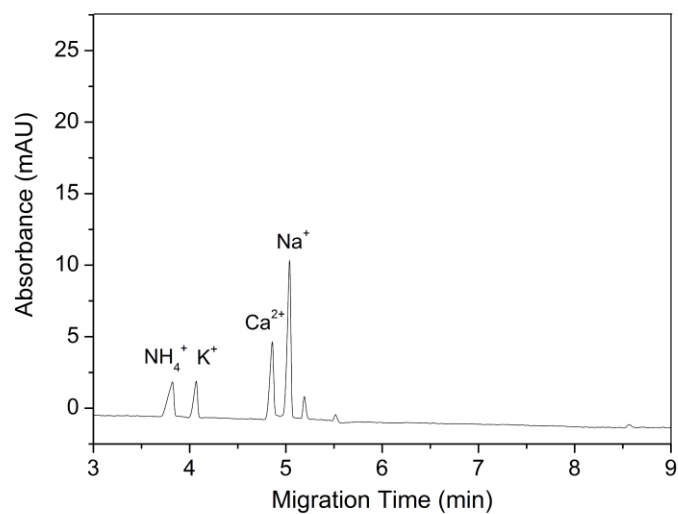
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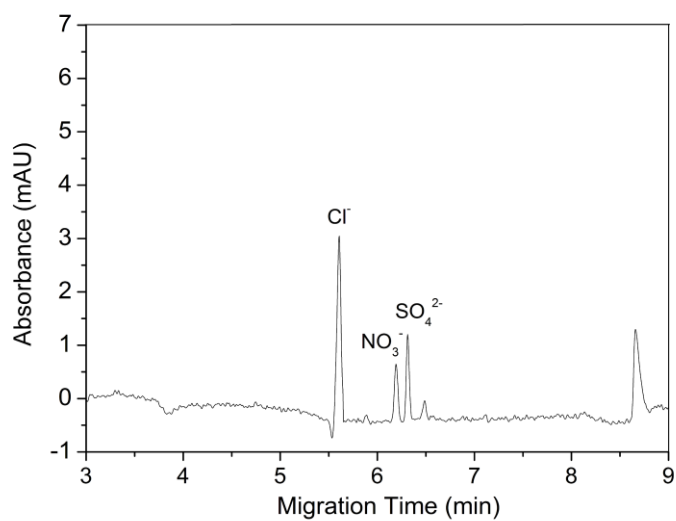
**Fig. S1** Effect of the separation voltage on the separation of inorganic cations. Separation voltage selected at 15, 18, 20, 22, and 25 kV; Other conditions as in Fig. 2a.



**Fig. S2** Effect of the separation voltage on the separation of inorganic anions. Separation voltage selected -5, -8, -10, -12, and -15 kV; Other conditions as in Fig. 2b.



**Fig. S3** Electropherogram of inorganic cations in blank sample. Sampling parameters: 200 mL min<sup>-1</sup> × 90 min; CE conditions as in Fig. 2a.



**Fig. S4** Electropherogram of inorganic anions in blank sample. Sampling parameters:  $300 \text{ mL min}^{-1} \times 100 \text{ min}$ ; CE conditions as in Fig. 2b.