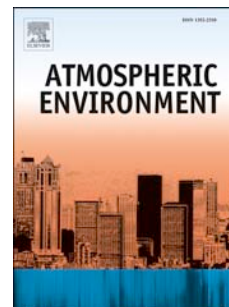


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A modeling study of source-receptor relationships in atmospheric particulate matter over Northeast Asia

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**Highlights**

Source-receptor relationship of particulate matter ( $PM_{10}$ ) over Northeast Asia

Self-contribution contributed the greatest percentage of surface  $PM_{10}$

Long-range transport from China constituted the second source in downwind countries.

Source-receptor relationship showed high seasonal variability over Northeast Asia.

Significant transport was found between city clusters in China.

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