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## Documents

Jaoua, N.

**Linear-fractional model for global warming**
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**Abstract**
A unique linear-fractional model is designed to describe the global warming in terms of the ratio of atmospheric carbon dioxide (CO 2 ) concentration to the pre-industrial level. As an application, doubled CO 2 concentration is expected to raise surface temperatures by about 2°C in average (above pre-industrial records). Prior to that, an algebraic greenhouse function is provided to correlate the global average temperature to the atmospheric emissivity, for which a parameterised collection of linear-fractional models involving CO 2 ratio is proposed using a practical characterisation of such models. Copyright © 2018 Inderscience Enterprises Ltd.

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