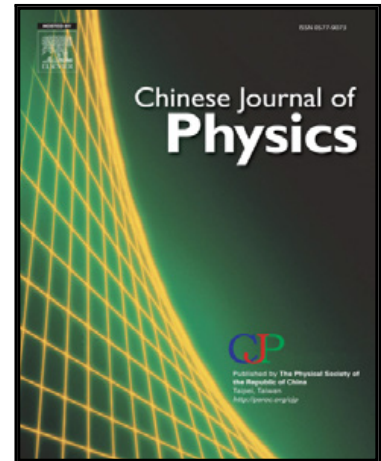


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Stochastic resonance for a fractional linear oscillator with two-kinds of fractional-order derivatives subject to multiplicative and signal-modulated noise

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**Highlights**

A fractional linear oscillator with two-kinds of fractional-order derivatives is investigated.

The output-gain is a non-monotonic function of the exponents of the fractional-order derivatives.

The effect of the two exponents on the OAG is different.

The output-gain varies non-monotonically with the driving frequency.

The output-gain behaves non-monotonically with the friction coefficients.

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