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Transport behaviors of locally fractional coupled Brownian motors with fluctuating interactions

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## Highlights

- (1) An improved coupled fractional Brownian motors are proposed.
- (2) The random interactions with locally fluctuating number of coupled particles are described.
- (3) The effect of fluctuating interactions on collective transport behaviors is investigated.
- (4) Cooperative behaviors, stochastic resonance and anomalous transport are observed.

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