Accepted Manuscript

Transport behaviors of locally fractional coupled Brownian motors with fluctuating interactions

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PII: S0378-4371(18)30367-4
DOI: https://doi.org/10.1016/j.physa.2018.03.047
Reference: PHYSA 19381

To appear in: *Physica A*

Received date : 8 November 2017
Revised date : 6 February 2018

Please cite this article as: H. Wang, F. Ni, L. Lin, W. Lv, H. Zhu, Transport behaviors of locally fractional coupled Brownian motors with fluctuating interactions, *Physica A* (2018), https://doi.org/10.1016/j.physa.2018.03.047

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*Highlights (for review)

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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