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Investigation on the enhancement phenomenon of biased-diffusion in periodic potential

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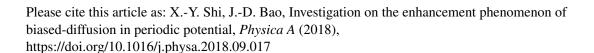
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Highlights

- OU colored noise-induced diffusion of a particle on 2D titled periodic surface is proposed.
- The huge enhancement is observed than Gaussian noise, 1~2 amplitude than 1D case.
- The mechanism relies on the correlation of color noise and the 2D titled periodic surface.

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