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Stochastic prey-predator model with additional food for predator

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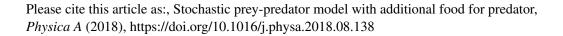
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## **HIGHLIGHTS**

- 1. A predator-prey model with additional food has been considered.
- 2. Prey's growth rate and the predator's death rate have been perturbed with white noises.
  - 3. Existence and uniqueness of global solution of the system have been established.
- 4. Conditions under which extinction of predator and prey populations occur have been established.
  - 5. Conditions under which persistence of the system occur have been established.
  - 6. Numerical simulations have been done to support the analytical results.

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