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Stochastic prey-predator model with additional food for predator

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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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