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**Global analysis of a nonautonomous predator-prey system with investing rate on prey and harvest rate on predator.** (Chinese. English summary) [Zbl 1363.34144](#)

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Summary: In this paper, a nonautonomous predator-prey system with harvest rate on predator is studied. Sufficient conditions are obtained for persistence and global asymptotic stability of the system by constructing a suitable Liapunov function.

**MSC:**

**34C60** Qualitative investigation and simulation of ordinary differential equation models

**37C60** Nonautonomous smooth dynamical systems

**34D23** Global stability of solutions to ordinary differential equations

**92D25** Population dynamics (general)

**Keywords:**

investing rate; harvest rate; persistence; global asymptotic stability; nonautonomous predator-prey system