

บทความ Dynamical analysis of a delayed food chain model with additive Allee effect ถูกอ้างอิงใน วารสารที่อยู่ในฐานข้อมูลที่ กพอ
ยอมรับ 1 ครั้ง (15 June 2022)

The screenshot shows a web browser window with multiple tabs. The active tab is the ResearchGate profile of Porpattama Hammachukiattikul, displaying the 'stats/citations/all' page. The browser's address bar shows the URL: <https://www.researchgate.net/profile/Porpattama-Hammachukiattikul/stats/citations/all>. The page header includes the user's name, 'Hao Qi · Wencai Zhao', and a 'View' link. A notification states, 'Your publication has 2 new citations'. The main content area features a citation for the article 'Dynamical analysis of a delayed food chain model with additive Allee effect'. The citation text reads: '... Yan et al. [10] considered the predator-prey model with delayed reaction diffusion and analyzed the global asymptotic stability of the positive equilibrium point of the model. Vinoth et al. [11] put forward a delayed preypredator system with additive Allee effect, and the local asymptotic stability of the model at equilibrium point was studied. Numerous studies have shown that a population system with time delay could exhibit more complex nonlinear dynamic behaviors. ...'. Below the citation, the article title 'Stability and Bifurcation Analysis of a Fractional-Order Food Chain Model with Two Time Delays' is displayed, along with the authors 'Hao Qi · Wencai Zhao' and a 'View' link. A 'Request full-text' button is also visible. The browser's taskbar at the bottom shows the system clock as 8:52 PM on 10/6/2022, with a temperature of 77°F and a cloudy sky.

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Dynamical analysis of a delayed food chain model with additive Allee effect

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Stability and Bifurcation Analysis of a Fractional-Order Food Chain Model with Two Time Delays

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In this study, the stability and bifurcation problems of a fractional food chain system with two kinds of delays are studied. Firstly, the nonnegative, bounded, and unique properties of the solutions of the system are proved. The asymptotic stability of the equilibrium points of the system is discussed. Furthermore, the global asymptotic stability of the positive equilibrium point is deduced by using Lyapunov function method. Secondly, the system takes two kinds of time delays as bifurcation parameters and calculates the critical values of Hopf bifurcation accurately. The results show that Hopf bifurcation can advance with increasing fractional order and another delay. In conclusion, numerical simulation verifies and illustrates the theoretical results.

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