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Title: Dynamics in a two-species competitive model of plankton allelopathy with delays and feedback controls

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In this paper, we propose and investigate a discrete competitive model with delays and feedback controls. With the help of the difference inequality theory, we establish some sufficient conditions which guarantee the permanence of the model. Under some suitable conditions, we show that the periodic solution of the system is global stable. Two example with their numerical simulations are given which are in a good agreement with our theoretical analysis. Our results are new and complement previously known results.

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