



田源

副教授

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### 教育背景

大连理工大学理学博士（2011）

北京师范大学理学硕士（2006）

辽宁师范大学理学学士（2003）

### 研究领域

种群动力学；传染病动力学；生化反应器；动力系统理论与应用

### 代表性成果

期刊论文

[1] Tian Yuan, Zhang Tonghua, Sun Kaibiao, Dynamics analysis of a pest management prey-predator model by mean of interval state monitoring and control, *Nonlinear Analysis: Hybrid Systems*, 23, 122-141, 2017. (SCI 收录)

[3] Tian Yuan, Zhang Zhantao, Sun Kaibiao, Qualitative Analysis of a Pest Management Gompertz Model with Interval State Feedback Impulsive Control, *Discrete Dynamics in Nature and Society*, 1-12, 2016. (SCI 收录)

[3] Tian Yuan, Sun Haiting, Kasperski Andrzej, ANALYSIS OF A CHEMOSTAT IN THE PRESENCE OF VIRAL INFECTION EXPRESSED BY A GENERAL INFECTION RATE, *Commun. Math. Biol. Neurosci.* 2015, 2015: 23, 1-20.

[4] Tian, Yuan; Sun, Kaibiao; Chen, Lansun, Geometric approach to the stability analysis of the periodic solution in a

- semi-continuous dynamic system, *International Journal of Biomathematics*, 7(2), 2014/3. (SCI 收录)
- [5] Tian, Yuan; Sun, Hai-Ting; He, Yu-Xia, Global stability of a non-smooth predator-prey system with Holling I functional response and refuge effect, *Applied Mechanics and Materials*, 595 卷, pp 283-288, 2014/8/7. (EI 收录)
- [6] Yuan Tian, State feedback control may change the dynamic behavior of the biochemical process—mathematical model and analysis, *Applied Mechanics and Materials*, 319 卷, pp 194-199, 2013/5/24. (EI 收录)
- [7] Yuan Tian, The biomass control in a biochemical reactor process with time-varying dilution rate: a mathematical study, *Applied Mechanics and Materials*, 319 卷, pp 249-254, 2013/5/24. (EI 收录)
- [8] Tian, Yuan; Chen, Lansun, Modeling and Analysis of a Turbidostat Model with Monod-type Kinetics and State Feedback Control, *Advanced Materials Research*, 383-390 卷, pp 7480-7485, 2012. (EI 收录)
- [9] Tian, Yuan; Sun, Kaibiao; Chen, Lansun, Modelling and qualitative analysis of a predator-prey system with state-dependent impulsive effects, *Mathematics and Computers in Simulation*, 82(2), pp 318-331, 2011/10. (SCI, EI 收录)
- [10] Tian, Yuan; Kasperski, Andrzej; Sun, Kaibiao; Chen, Lansun, Theoretical approach to modelling and analysis of the bioprocess with product inhibition and impulse effect, *Biosystems*, 104(2-3), pp 77-86, 2011/6 MAY-JUN. (SCI 收录)
- [11] Tian, Yuan; Sun, Kaibiao; Chen, Lansun, Comment on "Existence and stability of periodic solution of a Lotka-Volterra predator-prey model with state dependent impulsive effects", *Journal of Computational and Applied Mathematics*, 234(10), pp 2916-2923, 2010/9/15. (SCI, EI 收录)
- [12] Tian, Yuan; Chen, Lansun; Kasperski, Andrzej, Modelling and simulation of a continuous process with feedback control

and pulse feeding, Computers & Chemical Engineering, 34(6), pp 976-984, 2010/6/10. (SCI、EI 收录)

[13] Tian, Yuan; Sun, Kaibiao; Chen, Lansun; Kasperski, Andrzej, Studies on the dynamics of a continuous bioprocess with impulsive state feedback control, Chemical Engineering Journal, 157(2-3), pp 558-567, 2010/3/1. (SCI、EI 收录)

[14] Tian, Yuan; Sun, Kaibiao; Kasperski, Andrzej; Chen, Lansun, Nonlinear Modelling and Qualitative Analysis of a Real Chemostat with Pulse Feeding, Discrete Dynamics in Nature and Society, 2010. (SCI 收录)

#### 代表性项目

(1) 国家自然科学基金: 大连獐子岛海刺参人工养殖主要病虫害防治策略的数学机理研究, No.: 11401068, RMB 220,000.00, 2015/1/1-2017/12/30, 主持

(2) 辽宁省科学技术计划项目(优秀人才培养): 噬油类海洋微生物培养过程辨识建模与优化控制研究, RMB 50,000, 2014/8-2016/8, 主持

#### 荣誉奖励

辽宁省教学成果一等奖, 辽宁省自然科学学术成果一等奖  
第七完成人 奖

#### 社会兼职

中国生物数学学会理事 辽宁省数学学会理事

#### 其他



