

Publications

Publications in Biomathematics

1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 [in press](#)

2020

- Kisdi, É., Weigang, H. C. & Gyllenberg, M. 2020. **The evolution of immigration strategies facilitates niche expansion by divergent adaptation in a structured metapopulation model.** *Am. Nat.* 195: 1-15.

2019

- Chen, L., Dong, Z., Jiang, J., Niu, L., & Zhai, J. 2019. **Decomposition formula and stationary measures for stochastic Lotka-Volterra system with applications to turbulent convection.** *Journal de Mathématiques Pures et Appliquées* 125: 43-93.
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- Karisto, P. & Kisdi, E. **Joint evolution of dispersal and connectivity.** *Evolution* 73: 2529–2537.
- Lehtinen, S. O. & Geritz, S. A. H. 2019. **Cyclic prey evolution with cannibalistic predators.** *J. theor. Biol.* 479: 1-13.
- Mierczynski, J., Niu, L. & Ruiz-Herrera, A. 2019. **Linearization and invariant manifolds on the carrying simplex for competitive maps.** *Journal of Differential Equations* 267: 7385-7410.
- Vitale, C. & Kisdi, É. 2019. **Evolutionary suicide of prey: Matsuda & Abrams' model revisited.** *Bull. Math. Biol.* 81: 4778-4802.

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- Gyllenberg, M., Jiang, J., Niu, L. & Yan, P. 2018. **On the classification of generalized competitive Atkinson-Allen models via the dynamics on the boundary of the carrying simplex.** *Discrete Contin. Dyn. Syst.* 38: 615-650.
- Gyllenberg, M., Scarabel, F. & Vermiglio R. 2018. **Equations with infinite delay: numerical bifurcation analysis via pseudospectral discretization.** *Applied Mathematics and Computation* 133: 490–505.
- Lehtinen S. 2018. **Understanding the Venus ytrap through mathematical modelling.** *J. theor. Biol.* 444: 1-10.
- Niu, L. & Ruiz-Herrera, A. 2018. **Trivial dynamics in discrete-time systems: carrying simplex and translation arcs.** *Nonlinearity* 31: 2633–2650.
- Rybicki J., É. Kisdi & J. V. Anttila. **A model of bacterial toxin-dependent pathogenesis explains infective dose.** *PNAS* 115: 10690-10695; [press release on phys.org](#)

2017

- Daoxiang Z., Sun G., Zhao L. & Yan P. 2017. **Pattern formation and selection in a diffusive predator-prey system with ratio-dependent functional response.** *Acta Ecologica Sinica* 37: 290-297.
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