# Jan RychtÃ¡Å

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/765819/publications.pdf

Version: 2024-02-01

| 85 | 970 | 567281 | 610901 |
|---|---|---|---|
| papers | citations | 15 | 24 |
| | | h-index | g-index |

| 86 | 86 | 86 | 577 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Game-Theoretical Models in Biology. , 0, , . | | 135 |
| 2 | A game-theoretic model of Monkeypox to assess vaccination strategies. PeerJ, 2020, 8, e9272. | 2.0 | 59 |
| 3 | Evolutionary Games on Star Graphs Under Various Updating Rules. Dynamic Games and Applications, 2011, 1, 386-407. | 1.9 | 51 |
| 4 | Evolutionary dynamics on small-order graphs. Journal of Interdisciplinary Mathematics, 2009, 12, 129-140. | 0.7 | 46 |
| 5 | Evolutionary graph theory revisited: when is an evolutionary process equivalent to the Moran process?. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2015, 471, 20150334. | 2.1 | 46 |
| 6 | A general framework for analysing multiplayer games in networks using territorial interactions as a case study. Journal of Theoretical Biology, 2012, 302, 70-80. | 1.7 | 37 |
| 7 | A game-theoretic approach to valuating toxoplasmosis vaccination strategies. Theoretical Population Biology, 2015, 105, 33-38. | 1.1 | 30 |
| 8 | A game-theoretic model of kleptoparasitic behavior in polymorphic populations. Journal of Theoretical Biology, 2008, 255, 81-91. | 1.7 | 28 |
| 9 | Variance-based selection may explain general mating patterns in social insects. Biology Letters, 2008, 4, 270-273. | 2.3 | 25 |
| 10 | The Evolution of a Kleptoparasitic System under Adaptive Dynamics. Journal of Mathematical Biology, 2007, 54, 151-177. | 1.9 | 22 |
| 11 | A Game-Theoretic Model of Cholera with Optimal Personal Protection Strategies. Bulletin of Mathematical Biology, 2018, 80, 2580-2599. | 1.9 | 22 |
| 12 | Generalized Social Dilemmas: The Evolution of Cooperation in Populations with Variable Group Size. Bulletin of Mathematical Biology, 2019, 81, 4643-4674. | 1.9 | 22 |
| 13 | Overexpression of the Auxin Binding PROTEIN1 Modulates PIN-Dependent Auxin Transport in Tobacco Cells. PLoS ONE, 2013, 8, e70050. | 2.5 | 19 |
| 14 | Optimal Repellent Usage to Combat Dengue Fever. Bulletin of Mathematical Biology, 2016, 78, 916-922. | 1.9 | 17 |
| 15 | A study of the dynamics of multi-player games on small networks using territorial interactions. Journal of Mathematical Biology, 2015, 71, 1551-1574. | 1.9 | 16 |
| 16 | Game-Theoretical Model of Retroactive Hepatitis B Vaccination in China. Bulletin of Mathematical Biology, 2020, 82, 80. | 1.9 | 16 |
| 17 | A game-theoretical analysis of poliomyelitis vaccination. Journal of Theoretical Biology, 2020, 499, 110298. | 1.7 | 16 |
| 18 | Characterization of transmembrane auxin transport in Arabidopsis suspension-cultured cells. Journal of Plant Physiology, 2014, 171, 429-437. | 3.5 | 15 |

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|---|---|---|---|
| 19 | High endemic levels of typhoid fever in rural areas of Ghana may stem from optimal voluntary vaccination behaviour. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2020, 476, 20200354. | 2.1 | 15 |
| 20 | The Game-Theoretical Model of Using Insecticide-Treated Bed-Nets to Fight Malaria. Applied Mathematics, 2016, 07, 852-860. | 0.4 | 15 |
| 21 | The stochastic modelling of kleptoparasitism using a Markov process. Journal of Theoretical Biology, 2010, 264, 266-272. | 1.7 | 14 |
| 22 | Kleptoparasitic Meleesâ€"Modelling Food Stealing Featuring Contests with Multiple Individuals. Bulletin of Mathematical Biology, 2011, 73, 683-699. | 1.9 | 13 |
| 23 | Evolutionary dynamics and the evolution of multiplayer cooperation in a subdivided population. Journal of Theoretical Biology, 2017, 429, 105-115. | 1.7 | 13 |
| 24 | A game theoretical model of kleptoparasitism with incomplete information. Journal of Mathematical Biology, 2009, 59, 631-649. | 1.9 | 12 |
| 25 | A structured population model suggests that long life and post-reproductive lifespan promote the evolution of cooperation. Journal of Theoretical Biology, 2015, 369, 85-94. | 1.7 | 12 |
| 26 | The signalling game between plants and pollinators. Scientific Reports, 2018, 8, 6686. | 3.3 | 12 |
| 27 | Resource competition amid overlapping territories: The territorial raider model applied to multi-group interactions. Journal of Theoretical Biology, 2017, 412, 100-106. | 1.7 | 11 |
| 28 | Analysing territorial models on graphs. Involve, 2014, 7, 129-149. | 0.2 | 11 |
| 29 | Estimating the sample variance from the sample size and range. Statistics in Medicine, 2020, 39, 4667-4686. | 1.6 | 10 |
| 30 | Optimal Voluntary Vaccination of Adults and Adolescents Can Help Eradicate Hepatitis B in China. Games, 2021, 12, 82. | 0.6 | 10 |
| 31 | Effects of causal networks on the structure and stability of resource allocation trait correlations. Journal of Theoretical Biology, 2012, 293, 1-14. | 1.7 | 8 |
| 32 | A voluntary use of insecticide-treated cattle can eliminate African sleeping sickness. Letters in Biomathematics, 2015, 2, 91-101. | 0.1 | 8 |
| 33 | The screening game in plantâ€"pollinator interactions. Evolutionary Ecology, 2015, 29, 479-487. | 1.2 | 8 |
| 34 | Mathematical modelling of the use of insecticide-treated nets for elimination of visceral leishmaniasis in Bihar, India. Royal Society Open Science, 2021, 8, 201960. | 2.4 | 8 |
| 35 | THE EVOLUTION OF COOPERATION IN 1-DIMENSIONAL MOBILE POPULATIONS. Far East Journal of Applied Mathematics, 2016, 95, 63-88. | 0.1 | 8 |
| 36 | Evolutionary Games with Sequential Decisions and Dollar Auctions. Dynamic Games and Applications, 2018, 8, 211-231. | 1.9 | 7 |

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|---|---|---|---|
| 37 | A temporal model of territorial defence with antagonistic interactions. Theoretical Population Biology, 2020, 134, 15-35. | 1.1 | 7 |
| 38 | A voluntary use of insecticide treated nets can stop the vector transmission of Chagas disease. PLoS Neglected Tropical Diseases, 2020, 14, e0008833. | 3.0 | 7 |
| 39 | A game theoretic model of kleptoparasitism with strategic arrivals and departures of beetles at dung pats. Journal of Theoretical Biology, 2012, 300, 292-298. | 1.7 | 6 |
| 40 | The effect of network topology on optimal exploration strategies and the evolution of cooperation in a mobile population. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2019, 475, 20190399. | 2.1 | 6 |
| 41 | Modelling Evolution in Structured Populations Involving Multiplayer Interactions. Dynamic Games and Applications, 2021, 11, 270-293. | 1.9 | 6 |
| 42 | The Effect of Information on Payoff in Kleptoparasitic Interactions. Springer Proceedings in Mathematics and Statistics, 2013, , 125-134. | 0.2 | 6 |
| 43 | Pointwise uniformly rotund norms. Proceedings of the American Mathematical Society, 2005, 133, 2259-2266. | 0.8 | 6 |
| 44 | A Voluntary Use of Insecticide-Treated Cattle can Eliminate African Sleeping Sickness. Letters in Biomathematics, 2015, 2, . | 0.1 | 6 |
| 45 | Evolving multiplayer networks: Modelling the evolution of cooperation in a mobile population. Discrete and Continuous Dynamical Systems - Series B, 2018, 23, 1975-2004. | 0.9 | 6 |
| 46 | Estimation of standard deviations and inverseâ€variance weights from an observed range. Statistics in Medicine, 2022, 41, 242-257. | 1.6 | 6 |
| 47 | The effect of fight cost structure on fighting behaviour. Journal of Mathematical Biology, 2015, 71, 979-996. | 1.9 | 5 |
| 48 | Costly signalling theory and dishonest signalling. Theoretical Ecology, 2020, 13, 85-92. | 1.0 | 5 |
| 49 | Game-Theoretical Model of the Voluntary Use of Insect Repellents to Prevent Zika Fever. Dynamic Games and Applications, 2022, 12, 133-146. | 1.9 | 5 |
| 50 | Unified approach to optimal estimation of mean and standard deviation from sample summaries. Statistical Methods in Medical Research, 2022, 31, 2087-2103. | 1.5 | 5 |
| 51 | On uniformly GÃ¢teaux smooth norms and normal structure. Proceedings of the American Mathematical Society, 2007, 135, 1511-1515. | 0.8 | 4 |
| 52 | Effect of Density and Extra Dung on Brood Parasitism in the Dung Beetle, Onthophagus Taurus. Journal of Insect Behavior, 2013, 26, 253-259. | 0.7 | 4 |
| 53 | Nonlinear and Multiplayer Evolutionary Games. , 2016, , 95-115. | | 4 |
| 54 | A continuous ideal free distribution approach to the dynamics of selfish, cooperative and kleptoparasitic populations. Royal Society Open Science, 2016, 3, 160788. | 2.4 | 4 |

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|---|---|---|---|
| 55 | Models of kleptoparasitism on networks: the effect of population structure on food stealing behaviour. Journal of Mathematical Biology, 2018, 76, 1465-1488. | 1.9 | 4 |
| 56 | Models and measures of animal aggregation and dispersal. Journal of Theoretical Biology, 2020, 484, 110002. | 1.7 | 4 |
| 57 | Moran process and Wright-Fisher process favor low variability. Discrete and Continuous Dynamical Systems - Series B, 2021, 26, 3491. | 0.9 | 4 |
| 58 | A mathematical model of Guinea worm disease in Chad with fish as intermediate transport hosts. Journal of Theoretical Biology, 2021, 521, 110683. | 1.7 | 4 |
| 59 | Optimal aggression in kleptoparasitic interactions. Involve, 2017, 10, 735-747. | 0.2 | 4 |
| 60 | Asymmetric Games in Monomorphic and Polymorphic Populations. Dynamic Games and Applications, 2014, 4, 391-406. | 1.9 | 3 |
| 61 | A model of food stealing with asymmetric information. Ecological Complexity, 2016, 26, 137-142. | 2.9 | 3 |
| 62 | The effect of fight cost structure on fighting behaviour involving simultaneous decisions and variable investment levels. Journal of Mathematical Biology, 2018, 76, 457-482. | 1.9 | 3 |
| 63 | Ideal Cost-Free Distributions in Structured Populations for General Payoff Functions. Dynamic Games and Applications, 2018, 8, 79-92. | 1.9 | 3 |
| 64 | Renorming of $C(K)$ spaces. Proceedings of the American Mathematical Society, 2003, 131, 2063-2070. | 0.8 | 2 |
| 65 | Waste Recycling Can Promote Group Living: A cockroach case study. Letters in Biomathematics, 2014, 1, 17-22. | 0.1 | 2 |
| 66 | The Territorial Raider game and graph derangements. Discrete Applied Mathematics, 2016, 213, 13-16. | 0.9 | 2 |
| 67 | Cooperation in finite populations: Being alone helps. Journal of Interdisciplinary Mathematics, 2016, 19, 799-809. | 0.7 | 2 |
| 68 | Dishonest Signalling in a Variant of Pygmalion Game. Dynamic Games and Applications, 2020, 10, 719-731. | 1.9 | 2 |
| 69 | Ownerâ€“Intruder contests with correlated resource values. International Journal of Biomathematics, 2021, 14, 2150021. | 2.9 | 2 |
| 70 | On GÃ¢teaux Differentiability of Convex Functions in WCG Spaces. Canadian Mathematical Bulletin, 2005, 48, 455-459. | 0.5 | 1 |
| 71 | Cooperative behaviour in theory and practice: leading undergraduate research in behaviour mathematical biology. Letters in Biomathematics, 2015, 2, 29-45. | 0.1 | 1 |
| 72 | The evolution of cooperation is affected by the persistence of fitness effects, the neighborhood size and their interaction. Letters in Biomathematics, 2015, 2, 67-78. | 0.1 | 1 |

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|---|---|---|---|
| 73 | Introduction to the Special Issue on Perspectives and Experiences on Mentoring Undergraduate Students in Research: Part I. Primus, 2017, 27, 315-319. | 0.5 | 1 |
| 74 | Introduction to the Special Issue on Perspectivesand Experiences on Mentoring Undergraduate Students in Research: Part II. Primus, 2017, 27, 437-441. | 0.5 | 1 |
| 75 | Kleptoparasitic interactions modeling varying owner and intruder hunger awareness. Theoretical Population Biology, 2020, 136, 31-40. | 1.1 | 1 |
| 76 | A mathematical model of kin selection in floral displays. Journal of Theoretical Biology, 2021, 509, 110470. | 1.7 | 1 |
| 77 | Owner-Intruder contests with information asymmetry. Mathematical Modelling of Natural Phenomena, 2021, 16, 17. | 2.4 | 1 |
| 78 | Quasi-neutral evolution in populations under small demographic fluctuations. Journal of Theoretical Biology, 2022, 538, 111040. | 1.7 | 1 |
| 79 | An ODE model of yaws elimination in Lihir Island, Papua New Guinea. PeerJ, 2022, 10, e13018. | 2.0 | 1 |
| 80 | Renorming James tree space. Transactions of the American Mathematical Society, 2005, 357, 3775-3788. | 0.9 | 0 |
| 81 | Invariant subspaces of X** under the action of biconjugates. Czechoslovak Mathematical Journal, 2006, 56, 61-77. | 0.3 | 0 |
| 82 | A Three-Player Singled Out Game. Journal of Statistical Theory and Practice, 2015, 9, 882-895. | 0.5 | 0 |
| 83 | On Weak* Kadecâ€“Klee Norms. Canadian Mathematical Bulletin, 2007, 50, 610-618. | 0.5 | 0 |
| 84 | A Spatially Organized Population Model to Study the Evolution of Cooperation in Species with Discrete Life-History Stages. Springer Proceedings in Mathematics and Statistics, 2013, , 147-154. | 0.2 | 0 |
| 85 | Accurate approximation of the expected value, standard deviation, and probability density function of extreme order statistics from Gaussian samples. Communications in Statistics Part B: Simulation and Computation, 2024, 53, 869-878. | 1.2 | 0 |