

# Jordi Ripoll

## List of Publications by Year in descending order

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Version: 2024-02-01

22  
papers

240  
citations

1039880

9  
h-index

996849

15  
g-index

22  
all docs

22  
docs citations

22  
times ranked

173  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Efficient numerical computation of the basic reproduction number for structured populations. <i>Journal of Computational and Applied Mathematics</i> , 2021, 384, 113165.                                  | 1.1 | 32        |
| 2  | Analysis and Monte Carlo simulations of a model for the spread of infectious diseases in heterogeneous metapopulations. <i>Physical Review E</i> , 2009, 80, 041920.                                       | 0.8 | 30        |
| 3  | Outbreak analysis of an SIS epidemic model with rewiring. <i>Journal of Mathematical Biology</i> , 2013, 67, 411-432.  | 0.8 | 24        |
| 4  | A practical approach to $R_0$ in continuous-time ecological models. <i>Mathematical Methods in the Applied Sciences</i> , 2018, 41, 8432-8445.   | 1.2 | 23        |
| 5  | OPTIMAL LATENT PERIOD IN A BACTERIOPHAGE POPULATION MODEL STRUCTURED BY INFECTION-AGE. <i>Mathematical Models and Methods in Applied Sciences</i> , 2011, 21, 693-718.                                     | 1.7 | 15        |
| 6  | Hopf bifurcation in a structured population model for the sexual phase of monogonont rotifers. <i>Journal of Mathematical Biology</i> , 2002, 45, 22-36.   | 0.8 | 13        |
| 7  | A multiple failure propagation model in GMPLS-based networks. <i>IEEE Network</i> , 2010, 24, 17-22.   | 4.9 | 13        |
| 8  | Collocation of Next-Generation Operators for Computing the Basic Reproduction Number of Structured Populations. <i>Journal of Scientific Computing</i> , 2020, 85, 40.                                     | 1.1 | 13        |
| 9  | Evolutionarily stable transition rates in a stage-structured model. An application to the analysis of size distributions of badges of social status. <i>Mathematical Biosciences</i> , 2004, 190, 145-181. | 0.9 | 11        |
| 10 | On the basic reproduction number in continuously structured populations. <i>Mathematical Methods in the Applied Sciences</i> , 2021, 44, 799-812.  | 1.2 | 10        |
| 11 | On the Reproduction Number of a Gut Microbiota Model. <i>Bulletin of Mathematical Biology</i> , 2017, 79, 2727-2746.   | 0.9 | 9         |
| 12 | Two-sex age structured dynamics in a fixed sex-ratio population. <i>Nonlinear Analysis: Real World Applications</i> , 2012, 13, 2562-2577.   | 0.9 | 7         |
| 13 | Spread of epidemic-like failures in telecommunication networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2014, 410, 457-469.   | 1.2 | 7         |
| 14 | A general structured model for a sequential hermaphrodite population. <i>Mathematical Biosciences</i> , 2007, 208, 393-418.  | 0.9 | 6         |
| 15 | Epidemic and cascading survivability of complex networks. , 2014, , .  |     | 6         |
| 16 | An Age-Structured Population Approach for the Mathematical Modeling of Urban Burglaries. <i>SIAM Journal on Applied Dynamical Systems</i> , 2018, 17, 2733-2760.   | 0.7 | 6         |
| 17 | Reproduction number for an age of infection structured model. <i>Mathematical Modelling of Natural Phenomena</i> , 2021, 16, 42.   | 0.9 | 6         |
| 18 | Evolution of age-dependent sex-reversal under adaptive dynamics. <i>Journal of Mathematical Biology</i> , 2010, 60, 161-188.   | 0.8 | 5         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Use of wiris quizzes in an online calculus course. Journal of Technology and Science Education, 2017, 7, 221.                            | 0.5 | 3         |
| 20 | Impact of density-dependent migration flows on epidemic outbreaks in heterogeneous metapopulations. Physical Review E, 2015, 92, 022809. | 0.8 | 1         |
| 21 | Monte Carlo Simulations of a SIS-Diffusion Model in Heterogeneous Metapopulations. , 2009, , .   |     | 0         |
| 22 | Density-Dependent Diffusion and Epidemics on Heterogeneous Metapopulations. Trends in Mathematics, 2015, , 143-148.                      | 0.1 | 0         |