

oscar Angulo

List of Publications by Year in descending order

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papers

535
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759233

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217
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Numerical approximation of finite life-span age-structured population models. <i>Mathematical Methods in the Applied Sciences</i> , 2022, 45, 3272-3283. | 2.3 | 3 |
| 2 | An age-structured population model with delayed and space-limited recruitment. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2022, 112, 106545. | 3.3 | 0 |
| 3 | Computational Study on the Dynamics of a Consumer-Resource Model: The Influence of the Growth Law in the Resource. <i>Mathematics</i> , 2021, 9, 2746. | 2.2 | 1 |
| 4 | The Convergence Analysis of a Numerical Method for a Structured Consumer-Resource Model with Delay in the Resource Evolution Rate. <i>Mathematics</i> , 2020, 8, 1440. | 2.2 | 0 |
| 5 | Numerical analysis of a cell dwarfism model. <i>Journal of Computational and Applied Mathematics</i> , 2019, 349, 82-92. | 2.0 | 1 |
| 6 | A numerical study on the estimation of the stable size distribution for a cell population balance model. <i>Mathematical Methods in the Applied Sciences</i> , 2018, 41, 2894-2905. | 2.3 | 1 |
| 7 | Investigating the role of the experimental protocol in phenylhydrazine-induced anemia on mice recovery. <i>Journal of Theoretical Biology</i> , 2018, 437, 286-298. | 1.7 | 5 |
| 8 | Approximating the survival probability in finite life-span population models. <i>Journal of Computational and Applied Mathematics</i> , 2018, 330, 783-793. | 2.0 | 6 |
| 9 | Numerical integration of an erythropoiesis model with explicit growth factor dynamics. <i>Journal of Computational and Applied Mathematics</i> , 2018, 330, 770-782. | 2.0 | 2 |
| 10 | A second-order numerical method for a cell population model with asymmetric division. <i>Journal of Computational and Applied Mathematics</i> , 2017, 309, 522-531. | 2.0 | 3 |
| 11 | Study on the efficiency in the numerical integration of size-structured population models: Error and computational cost. <i>Journal of Computational and Applied Mathematics</i> , 2016, 291, 391-401. | 2.0 | 5 |
| 12 | A Second-Order Method for the Numerical Integration of a Size-Structured Cell Population Model. <i>Abstract and Applied Analysis</i> , 2015, 2015, 1-8. | 0.7 | 4 |
| 13 | Numerical integration of a hierarchically size-structured population model with contest competition. <i>Journal of Computational and Applied Mathematics</i> , 2014, 258, 116-134. | 2.0 | 7 |
| 14 | Asymptotic behaviour of a mathematical model of hematopoietic stem cell dynamics. <i>International Journal of Computer Mathematics</i> , 2014, 91, 198-208. | 1.8 | 3 |
| 15 | Analysis of an efficient integrator for a size-structured population model with a dynamical resource. <i>Computers and Mathematics With Applications</i> , 2014, 68, 941-961. | 2.7 | 7 |
| 16 | A mathematical model of multistage hematopoietic cell lineages. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2014, 19, 1-26. | 0.9 | 7 |
| 17 | Stand dynamics and tree coexistence in an analytical structured model: The role of recruitment. <i>Journal of Theoretical Biology</i> , 2013, 333, 91-101. | 1.7 | 7 |
| 18 | Numerical analysis of a population model of marine invertebrates with different life stages. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2013, 18, 2153-2163. | 3.3 | 9 |

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|----|--|-----|-----------|
| 19 | A semi-Lagrangian method for a cell population model in a dynamical environment. <i>Mathematical and Computer Modelling</i> , 2013, 57, 1860-1866. | 2.0 | 9 |
| 20 | A SIR EPIDEMIC MODEL STRUCTURED BY IMMUNOLOGICAL VARIABLES. <i>Journal of Biological Systems</i> , 2013, 21, 1340013. | 1.4 | 11 |
| 21 | Mass Structured Systems with Boundary Delay: Oscillations and the Effect of Selective Predation. <i>Journal of Nonlinear Science</i> , 2012, 22, 961-984. | 2.1 | 8 |
| 22 | Numerical approximation of singular asymptotic states for a size-structured population model with a dynamical resource. <i>Mathematical and Computer Modelling</i> , 2011, 54, 1693-1698. | 2.0 | 13 |
| 23 | Numerical investigation of the recruitment process in open marine population models. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2011, 2011, P01003. | 2.3 | 8 |
| 24 | A numerical method for nonlinear age-structured population models with finite maximum age. <i>Journal of Mathematical Analysis and Applications</i> , 2010, 361, 150-160. | 1.0 | 31 |
| 25 | Numerical analysis of an open marine population model with spaced-limited recruitment. <i>Mathematical and Computer Modelling</i> , 2010, 52, 1037-1044. | 2.0 | 11 |
| 26 | Numerical study on the proliferation cells fraction of a tumour cord model. <i>Mathematical and Computer Modelling</i> , 2010, 52, 992-998. | 2.0 | 9 |
| 27 | Long-Time Simulation of a Size-Structured Population Model with a Dynamical Resource. <i>Mathematical Modelling of Natural Phenomena</i> , 2010, 5, 1-21. | 2.4 | 7 |
| 28 | Numerical schemes for a size-structured cell population model with equal fission. <i>Mathematical and Computer Modelling</i> , 2009, 50, 653-664. | 2.0 | 22 |
| 29 | Numerical integration of a mathematical model of hematopoietic stem cell dynamics. <i>Computers and Mathematics With Applications</i> , 2008, 56, 594-606. | 2.7 | 22 |
| 30 | The application of an age-structured model with unbounded mortality to demography. <i>Mathematical Biosciences</i> , 2007, 208, 495-520. | 1.9 | 21 |
| 31 | An analytical model of stand dynamics as a function of tree growth, mortality and recruitment: The shade tolerance-stand structure hypothesis revisited. <i>Journal of Theoretical Biology</i> , 2007, 244, 440-450. | 1.7 | 42 |
| 32 | DYNAMICS OF A STRUCTURED SLUG POPULATION MODEL IN THE ABSENCE OF SEASONAL VARIATION. <i>Mathematical Models and Methods in Applied Sciences</i> , 2006, 16, 1961-1985. | 3.3 | 10 |
| 33 | Age-structured population models and their numerical solution. <i>Ecological Modelling</i> , 2005, 188, 112-136. | 2.5 | 60 |
| 34 | A numerical integrator for a model with a discontinuous sink term: the dynamics of the sexual phase of monogonont rotifera. <i>Nonlinear Analysis: Real World Applications</i> , 2005, 6, 935-954. | 1.7 | 10 |
| 35 | Numerical study of size-structured population models: A case of <i>Gambusia affinis</i> . <i>Comptes Rendus - Biologies</i> , 2005, 328, 387-402. | 0.2 | 14 |
| 36 | Numerical integration of fully nonlinear size-structured population models. <i>Applied Numerical Mathematics</i> , 2004, 50, 291-327. | 2.1 | 45 |

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|----|--|-----|-----------|
| 37 | A numerical simulation for the dynamics of the sexual phase of monogonont rotifera. Comptes Rendus - Biologies, 2004, 327, 293-303. | 0.2 | 10 |
| 38 | Size-structured population dynamics models and their numerical solutions. Discrete and Continuous Dynamical Systems - Series B, 2004, 4, 1203-1222. | 0.9 | 33 |
| 39 | Numerical integration of autonomous and non-autonomous non-linear size-structured population models. Mathematical Biosciences, 2002, 177-178, 39-71. | 1.9 | 20 |
| 40 | Numerical integration of nonlinear size-structured population equations. Ecological Modelling, 2000, 133, 3-14. | 2.5 | 15 |
| 41 | Numerical schemes for size-structured population equations. Mathematical Biosciences, 1999, 157, 169-188. | 1.9 | 33 |