oscar Angulo

List of Publications by Year in descending order

41 papers	535 citations	759233 12 h-index	677142 22 g-index
41 all docs	41 docs citations	41 times ranked	217 citing authors

#	ARTICLE	IF	CITATIONS
1	Age-structured population models and their numerical solution. Ecological Modelling, 2005, 188, 112-136.	2.5	60
2	Numerical integration of fully nonlinear size-structured population models. Applied Numerical Mathematics, 2004, 50, 291-327.	2.1	45
3	An analytical model of stand dynamics as a function of tree growth, mortality and recruitment: The shade tolerance-stand structure hypothesis revisited. Journal of Theoretical Biology, 2007, 244, 440-450.	1.7	42
4	Numerical schemes for size-structured population equations. Mathematical Biosciences, 1999, 157, 169-188.	1.9	33
5	Size-structured population dynamics models and their numerical solutions. Discrete and Continuous Dynamical Systems - Series B, 2004, 4, 1203-1222.	0.9	33
6	A numerical method for nonlinear age-structured population models with finite maximum age. Journal of Mathematical Analysis and Applications, 2010, 361, 150-160.	1.0	31
7	Numerical integration of a mathematical model of hematopoietic stem cell dynamics. Computers and Mathematics With Applications, 2008, 56, 594-606.	2.7	22
8	Numerical schemes for a size-structured cell population model with equal fission. Mathematical and Computer Modelling, 2009, 50, 653-664.	2.0	22
9	The application of an age-structured model with unbounded mortality to demography. Mathematical Biosciences, 2007, 208, 495-520.	1.9	21
10	Numerical integration of autonomous and non-autonomous non-linear size-structured population models. Mathematical Biosciences, 2002, 177-178, 39-71.	1.9	20
11	Numerical integration of nonlinear size-structured population equations. Ecological Modelling, 2000, 133, 3-14.	2.5	15
12	Numerical study of size-structured population models: A case of Gambussia affinis. Comptes Rendus - Biologies, 2005, 328, 387-402.	0.2	14
13	Numerical approximation of singular asymptotic states for a size-structured population model with a dynamical resource. Mathematical and Computer Modelling, 2011, 54, 1693-1698.	2.0	13
14	Numerical analysis of an open marine population model with spaced-limited recruitment. Mathematical and Computer Modelling, 2010, 52, 1037-1044.	2.0	11
15	A SIR EPIDEMIC MODEL STRUCTURED BY IMMUNOLOGICAL VARIABLES. Journal of Biological Systems, 2013, 21, 1340013.	1.4	11
16	A numerical simulation for the dynamics of the sexual phase of monogonont rotifera. Comptes Rendus - Biologies, 2004, 327, 293-303.	0.2	10
17	A numerical integrator for a model with a discontinuous sink term: the dynamics of the sexual phase of monogonont rotifera. Nonlinear Analysis: Real World Applications, 2005, 6, 935-954.	1.7	10
18	DYNAMICS OF A STRUCTURED SLUG POPULATION MODEL IN THE ABSENCE OF SEASONAL VARIATION. Mathematical Models and Methods in Applied Sciences, 2006, 16, 1961-1985.	3.3	10

#	ARTICLE	IF	CITATIONS
19	Numerical study on the proliferation cells fraction of a tumour cord model. Mathematical and Computer Modelling, 2010, 52, 992-998.	2.0	9
20	Numerical analysis of a population model of marine invertebrates with different life stages. Communications in Nonlinear Science and Numerical Simulation, 2013, 18, 2153-2163.	3.3	9
21	A semi-Lagrangian method for a cell population model in a dynamical environment. Mathematical and Computer Modelling, 2013, 57, 1860-1866.	2.0	9
22	Numerical investigation of the recruitment process in open marine population models. Journal of Statistical Mechanics: Theory and Experiment, 2011, 2011, P01003.	2.3	8
23	Mass Structured Systems with Boundary Delay: Oscillations and the Effect of Selective Predation. Journal of Nonlinear Science, 2012, 22, 961-984.	2.1	8
24	Long-Time Simulation of a Size-Structured Population Model with a Dynamical Resource. Mathematical Modelling of Natural Phenomena, 2010, 5, 1-21.	2.4	7
25	Stand dynamics and tree coexistence in an analytical structured model: The role of recruitment. Journal of Theoretical Biology, 2013, 333, 91-101.	1.7	7
26	Numerical integration of a hierarchically size-structured population model with contest competition. Journal of Computational and Applied Mathematics, 2014, 258, 116-134.	2.0	7
27	Analysis of an efficient integrator for a size-structured population model with a dynamical resource. Computers and Mathematics With Applications, 2014, 68, 941-961.	2.7	7
28	A mathematical model of multistage hematopoietic cell lineages. Discrete and Continuous Dynamical Systems - Series B, 2014, 19, 1-26.	0.9	7
29	Approximating the survival probability in finite life-span population models. Journal of Computational and Applied Mathematics, 2018, 330, 783-793.	2.0	6
30	Study on the efficiency in the numerical integration of size-structured population models: Error and computational cost. Journal of Computational and Applied Mathematics, 2016, 291, 391-401.	2.0	5
31	Investigating the role of the experimental protocol in phenylhydrazine-induced anemia on mice recovery. Journal of Theoretical Biology, 2018, 437, 286-298.	1.7	5
32	A Second-Order Method for the Numerical Integration of a Size-Structured Cell Population Model. Abstract and Applied Analysis, 2015, 2015, 1-8.	0.7	4
33	Asymptotic behaviour of a mathematical model of hematopoietic stem cell dynamics. International Journal of Computer Mathematics, 2014, 91, 198-208.	1.8	3
34	A second-order numerical method for a cell population model with asymmetric division. Journal of Computational and Applied Mathematics, 2017, 309, 522-531.	2.0	3
35	Numerical approximation of finite lifeâ€span ageâ€structured population models. Mathematical Methods in the Applied Sciences, 2022, 45, 3272-3283.	2.3	3
36	Numerical integration of an erythropoiesis model with explicit growth factor dynamics. Journal of Computational and Applied Mathematics, 2018, 330, 770-782.	2.0	2

#	Article	IF	Citations
37	A numerical study on the estimation of the stable size distribution for a cell population balance model. Mathematical Methods in the Applied Sciences, 2018, 41, 2894-2905.	2.3	1
38	Numerical analysis of a cell dwarfism model. Journal of Computational and Applied Mathematics, 2019, 349, 82-92.	2.0	1
39	Computational Study on the Dynamics of a Consumer-Resource Model: The Influence of the Growth Law in the Resource. Mathematics, 2021, 9, 2746.	2.2	1
40	The Convergence Analysis of a Numerical Method for a Structured Consumer-Resource Model with Delay in the Resource Evolution Rate. Mathematics, 2020, 8, 1440.	2.2	0
41	An age-structured population model with delayed and space-limited recruitment. Communications in Nonlinear Science and Numerical Simulation, 2022, 112, 106545.	3.3	0