O Diekmann

List of Publications by Year
in descending order

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56	8,068	147566	168136
papers	citations	31 h-index	53 g-index

58	58	58	4999
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Twin semigroups and delay equations. Journal of Differential Equations, 2021, 286, 332-410.	1.1	8
2	Pseudospectral Approximation of Hopf Bifurcation for Delay Differential Equations. SIAM Journal on Applied Dynamical Systems, 2021, 20, 333-370.	0.7	5
3	Waning and boosting: on the dynamics of immune status. Journal of Mathematical Biology, 2018, 77, 2023-2048.	0.8	17
4	Pseudospectral Discretization of Nonlinear Delay Equations: New Prospects for Numerical Bifurcation Analysis. SIAM Journal on Applied Dynamical Systems, 2016, 15, 1-23.	0.7	36
5	A two-phase within-host model for immune response and its application to serological profiles of pertussis. Epidemics, 2014, 9, 1-7.	1.5	34
6	A didactical note on the advantage of using two parameters in Hopf bifurcation studies. Journal of Biological Dynamics, 2013, 7, 21-30.	0.8	6
7	On the formulation of epidemic models (an appraisal of Kermack and McKendrick). Journal of Biological Dynamics, 2012, 6, 103-117.	0.8	88
8	The protective effects of temporary immunity under imposed infection pressure. Epidemics, 2012, 4, 43-47.	1.5	21
9	Numerical Equilibrium Analysis for Structured Consumer Resource Models. Bulletin of Mathematical Biology, 2010, 72, 259-297.	0.9	22
10	How to lift a model for individual behaviour to the population level?. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 3523-3530.	1.8	17
11	The construction of next-generation matrices for compartmental epidemic models. Journal of the Royal Society Interface, 2010, 7, 873-885.	1.5	1,345
12	On the Cyclic Replicator Equation and the Dynamics of Semelparous Populations. SIAM Journal on Applied Dynamical Systems, 2009, 8, 1160-1189.	0.7	23
13	Calculating the time to extinction of a reactivating virus, in particular bovine herpes virus. Mathematical Biosciences, 2008, 212, 111-131.	0.9	7
14	The Second Half-With a Quarter of a Century Delay. Mathematical Modelling of Natural Phenomena, 2008, 3, 36-48.	0.9	9
15	An Algorithm to Estimate the Importance of Bacterial Acquisition Routes in Hospital Settings. American Journal of Epidemiology, 2007, 166, 841-851.	1.6	39
16	On circulant populations. I. The algebra of semelparity. Linear Algebra and Its Applications, 2005, 398, 185-243.	0.4	28
17	Boundedness, global existence and continuous dependence for nonlinear dynamical systems describing physiologically structured populations. Journal of Differential Equations, 2005, 215, 268-319.	1.1	32
18	On the (dis) advantages of cannibalism. Journal of Mathematical Biology, 2005, 51, 695-712.	0.8	37

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19	Year class coexistence or competitive exclusion for strict biennials?. Journal of Mathematical Biology, 2003, 46, 95-131.	0.8	51
20	Steady-state analysis of structured population models. Theoretical Population Biology, 2003, 63, 309-338.	0.5	134
21	How to assess the relative importance of different colonization routes of pathogens within hospital settings. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 5601-5605.	3.3	86
22	On the formulation and analysis of general deterministic structured population models. Journal of Mathematical Biology, 2001, 43, 157-189.	0.8	160
23	The Resident Strikes Back: Invader-Induced Switching of Resident Attractor. Journal of Theoretical Biology, 2001, 211, 297-311.	0.8	39
24	Subcritical endemic steady states in mathematical models for animal infections with incomplete immunity. Mathematical Biosciences, 2000, 165, 1-25.	0.9	75
25	Modelling the Spread of Phocine Distemper Virus among Harbour Seals. Bulletin of Mathematical Biology, 1998, 60, 585-596.	0.9	23
26	A deterministic epidemic model taking account of repeated contacts between the same individuals. Journal of Applied Probability, 1998, 35, 448-462.	0.4	68
27	A deterministic epidemic model taking account of repeated contacts between the same individuals. Journal of Applied Probability, 1998, 35, 448-462.	0.4	44
28	The computation of R0 for discrete-time epidemic models with dynamic heterogeneity. Mathematical Biosciences, 1994, 119, 97-114.	0.9	51
29	Studying the Dynamics of Structured Population Models: A Versatile Technique and Its Application to Daphnia. American Naturalist, 1992, 139, 123-147.	1.0	176
30	The basic reproduction ratio for sexually transmitted diseases: I. theoretical considerations. Mathematical Biosciences, 1991, 107, 325-339.	0.9	63
31	Metapopulation persistence despite local extinction: predator-prey patch models of the Lotka-Volterra type. Biological Journal of the Linnean Society, 1991, 42, 267-283.	0.7	91
32	Metapopulation persistence despite local extinction: predator-prey patch models of the Lotka-Volterra type. , 1991, , 267-283.		0
33	The velocity of spatial population expansion. Journal of Mathematical Biology, 1990, 28, 529-565.	0.8	211
34	On the definition and the computation of the basic reproduction ratio R 0 in models for infectious diseases in heterogeneous populations. Journal of Mathematical Biology, 1990, 28, 365-82.	0.8	3,625
35	A hille-yosida theorem for a class of weakly continuous semigroups. Semigroup Forum, 1989, 38, 157-178.	0.3	13
36	Reflections and calculations on a prey-predator-patch problem. Acta Applicandae Mathematicae, 1989, 14, 23-35.	0.5	11

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37	Mathematical models of predator/prey/plant interactions in a patch environment. Experimental and Applied Acarology, 1988, 5, 319-342.	0.7	45
38	Overall population stability despite local extinction: The stabilizing influence of prey dispersal from predator-invaded patches. Theoretical Population Biology, 1988, 34, 169-176.	0.5	48
39	Perturbation theory for dual semigroups II. Time-dependent perturbations in the sun-reflexive case. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 1988, 109, 145-172.	0.8	32
40	Perturbation theory for dual semigroups. Mathematische Annalen, 1987, 277, 709-725.	0.7	72
41	Simple mathematical models for cannibalism: A critique and a new approach. Mathematical Biosciences, 1986, 78, 21-46.	0.9	95
42	Sloppy size control of the cell division cycle. Journal of Theoretical Biology, 1986, 118, 405-426.	0.8	73
43	On the stability of the cell-size distribution II: Time-periodic developmental rates. Computers and Mathematics With Applications, 1986, 12, 491-512.	1.4	11
44	A Gentle Introduction to Structured Population Models: Three Worked Examples. Lecture Notes in Biomathematics, 1986, , 3-45.	0.3	12
45	ON THE STABILITY OF THE CELL-SIZE DISTRIBUTION II: TIME-PERIODIC DEVELOPMENTAL RATES. , 1986, , 491-512.		1
46	Stability, multiplicity and global continuation of symmetric periodic solutions of a nonlinear Volterra integral equation. Japan Journal of Industrial and Applied Mathematics, 1985, 2, 433-469.	0.3	30
47	Invariant manifolds for Volterra integral equations of convolution type. Journal of Differential Equations, 1984, 54, 139-180.	1.1	45
48	On the stability of the cell size distribution. Journal of Mathematical Biology, 1984, 19, 227-248.	0.8	179
49	Growth, fission and the stable size distribution. Journal of Mathematical Biology, 1983, 18, 135-148.	0.8	52
50	Variational analysis of a perturbed free boundary problem. Communications in Partial Differential Equations, 1982, 7, 1309-1336.	1.0	0
51	Prelude to hopf bifurcation in an epidemic model: Analysis of a characteristic equation associated with a nonlinear Volterra integral equation. Journal of Mathematical Biology, 1982, 14, 117-127.	0.8	30
52	A Singular Boundary Value Problem Arising in a Pre-Breakdown Gas Discharge. SIAM Journal on Applied Mathematics, 1980, 39, 48-66.	0.8	4
53	Run for your life. A note on the asymptotic speed of propagation of an epidemic. Journal of Differential Equations, 1979, 33, 58-73.	1.1	225
54	Thresholds and travelling waves for the geographical spread of infection. Journal of Mathematical Biology, 1978, 6, 109-130.	0.8	347

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55	Limiting behaviour in an epidemic model. Nonlinear Analysis: Theory, Methods & Applications, 1977, 1, 459-470.	0.6	66
56	Clines in a Discrete Time Model in Population Genetics. Lecture Notes in Biomathematics, 1970, , 267-275.	0.3	1