

George Cosner

List of Publications by Year in descending order

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104
papers

4,638
citations

159585

30
h-index

118850

62
g-index

110
all docs

110
docs citations

110
times ranked

2860
citing authors

#	ARTICLE	IF	CITATIONS
1	Ideal free dispersal in integrodifference models. <i>Journal of Mathematical Biology</i> , 2022, 85, .	1.9	2
2	The Effect of Directed Movement on the Strong Allee Effect. <i>SIAM Journal on Applied Mathematics</i> , 2021, 81, 407-433.	1.8	6
3	Ideal Free Dispersal under General Spatial Heterogeneity and Time Periodicity. <i>SIAM Journal on Applied Mathematics</i> , 2021, 81, 789-813.	1.8	14
4	Evolution of dispersal in spatial population models with multiple timescales. <i>Journal of Mathematical Biology</i> , 2020, 80, 3-37.	1.9	12
5	Evolutionarily stable movement strategies in reaction–diffusion models with edge behavior. <i>Journal of Mathematical Biology</i> , 2020, 80, 61-92.	1.9	8
6	Improved foraging by switching between diffusion and advection: benefits from movement that depends on spatial context. <i>Theoretical Ecology</i> , 2020, 13, 127-136.	1.0	17
7	Populations with individual variation in dispersal in heterogeneous environments: Dynamics and competition with simply diffusing populations. <i>Science China Mathematics</i> , 2020, 63, 441-464.	1.7	8
8	Persistence for a Two-Stage Reaction-Diffusion System. <i>Mathematics</i> , 2020, 8, 396.	2.2	8
9	Habitat fragmentation promotes malaria persistence. <i>Journal of Mathematical Biology</i> , 2019, 79, 2255-2280.	1.9	17
10	Rapid changes in seed dispersal traits may modify plant responses to global change. <i>AoB PLANTS</i> , 2019, 11, plz020.	2.3	32
11	Two-patch model for the spread of West Nile virus. <i>Bulletin of Mathematical Biology</i> , 2018, 80, 840-863.	1.9	11
12	Dynamics of populations with individual variation in dispersal on bounded domains. <i>Journal of Biological Dynamics</i> , 2018, 12, 288-317.	1.7	15
13	Evolutionary stability of ideal free dispersal under spatial heterogeneity and time periodicity. <i>Mathematical Biosciences</i> , 2018, 305, 71-76.	1.9	15
14	Modeling the importation and local transmission of vector-borne diseases in Florida: The case of Zika outbreak in 2016. <i>Journal of Theoretical Biology</i> , 2018, 455, 342-356.	1.7	12
15	On a competitive system with ideal free dispersal. <i>Journal of Differential Equations</i> , 2018, 265, 3464-3493.	2.2	11
16	Perceptual Ranges, Information Gathering, and Foraging Success in Dynamic Landscapes. <i>American Naturalist</i> , 2017, 189, 474-489.	2.1	67
17	Resident-invader dynamics in infinite dimensional systems. <i>Journal of Differential Equations</i> , 2017, 263, 4565-4616.	2.2	13
18	Interspecific interactions and range limits: contrasts among interaction types. <i>Theoretical Ecology</i> , 2017, 10, 167-179.	1.0	20

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19	Evolution of natal dispersal in spatially heterogenous environments. <i>Mathematical Biosciences</i> , 2017, 283, 136-144.	1.9	16
20	Transmission Dynamics of Rift Valley Fever Virus: Effects of Live and Killed Vaccines on Epizootic Outbreaks and enzootic Maintenance. <i>Frontiers in Microbiology</i> , 2016, 6, 1568.	3.5	9
21	How Resource Phenology Affects Consumer Population Dynamics. <i>American Naturalist</i> , 2016, 187, 151-166.	2.1	39
22	A model for the coupling of the Greater Bairam and local environmental factors in promoting Rift-Valley Fever epizootics in Egypt. <i>Public Health</i> , 2016, 130, 64-71.	2.9	8
23	Modeling and control of local outbreaks of West Nile virus in the United States. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2016, 21, 2423-2449.	0.9	24
24	Modelling the Effects of Seasonality and Socioeconomic Impact on the Transmission of Rift Valley Fever Virus. <i>PLoS Neglected Tropical Diseases</i> , 2015, 9, e3388.	3.0	26
25	Models for the effects of host movement in vector-borne disease systems. <i>Mathematical Biosciences</i> , 2015, 270, 192-197.	1.9	21
26	Challenges in modeling biological invasions and population distributions in a changing climate. <i>Ecological Complexity</i> , 2014, 20, 258-263.	2.9	15
27	Phenologically explicit models for studying plant-pollinator interactions under climate change. <i>Theoretical Ecology</i> , 2014, 7, 289-297.	1.0	23
28	Reaction-diffusion-advection models for the effects and evolution of dispersal. <i>Discrete and Continuous Dynamical Systems</i> , 2014, 34, 1701-1745.	0.9	103
29	A Modeling Approach to Investigate Epizootic Outbreaks and enzootic Maintenance of Rift Valley Fever Virus. <i>Bulletin of Mathematical Biology</i> , 2014, 76, 2052-2072.	1.9	24
30	Well-posedness and qualitative properties of a dynamical model for the ideal free distribution. <i>Journal of Mathematical Biology</i> , 2014, 69, 1343-1382.	1.9	19
31	How climate extremes "not means" define a species' geographic range boundary via a demographic tipping point. <i>Ecological Monographs</i> , 2014, 84, 131-149.	5.4	67
32	Random dispersal versus fitness-dependent dispersal. <i>Journal of Differential Equations</i> , 2013, 254, 2905-2941.	2.2	24
33	Modeling the Spatial Spread of Rift Valley Fever in Egypt. <i>Bulletin of Mathematical Biology</i> , 2013, 75, 523-542.	1.9	30
34	Optimization of the First Eigenvalue of Equations with Indefinite Weights. <i>Advanced Nonlinear Studies</i> , 2013, 13, 79-95.	1.7	8
35	Beyond Diffusion: Conditional Dispersal in Ecological Models. <i>Fields Institute Communications</i> , 2013, , 305-317.	1.3	1
36	Evolutionary stability of ideal free nonlocal dispersal. <i>Journal of Biological Dynamics</i> , 2012, 6, 395-405.	1.7	42

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37	Global Bifurcation of Solutions for Crime Modeling Equations. <i>SIAM Journal on Mathematical Analysis</i> , 2012, 44, 1340-1358.	1.9	42
38	Evolutionary stability of ideal free dispersal strategies in patchy environments. <i>Journal of Mathematical Biology</i> , 2012, 65, 943-965.	1.9	57
39	Leadership, social learning, and the maintenance (or collapse) of migratory populations. <i>Theoretical Ecology</i> , 2012, 5, 253-264.	1.0	27
40	Fish population dynamics in a seasonally varying wetland. <i>Ecological Modelling</i> , 2010, 221, 1131-1137.	2.5	48
41	Reproductive Asynchrony in Spatial Population Models: How Mating Behavior Can Modulate Allee Effects Arising from Isolation in Both Space and Time. <i>American Naturalist</i> , 2010, 175, 362-373.	2.1	26
42	Evolution of dispersal and the ideal free distribution. <i>Mathematical Biosciences and Engineering</i> , 2010, 7, 17-36.	1.9	105
43	Global bifurcation of solutions to diffusive logistic equations on bounded domains subject to nonlinear boundary conditions. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 2009, 139, 45-56.	1.2	17
44	Interspecific Variation in Critical Patch Size and Gap-Crossing Ability as Determinants of Geographic Range Size Distributions. <i>American Naturalist</i> , 2009, 173, 363-375.	2.1	18
45	Approximating the ideal free distribution via reaction-diffusion-advection equations. <i>Journal of Differential Equations</i> , 2008, 245, 3687-3703.	2.2	66
46	Control of invasive hosts by generalist parasitoids. <i>Mathematical Medicine and Biology</i> , 2008, 25, 1-20.	1.2	37
47	Advection-mediated coexistence of competing species. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 2007, 137, 497-518.	1.2	110
48	The ideal free distribution as an evolutionarily stable strategy. <i>Journal of Biological Dynamics</i> , 2007, 1, 249-271.	1.7	75
49	Density Dependent Behavior at Habitat Boundaries and the Allee Effect. <i>Bulletin of Mathematical Biology</i> , 2007, 69, 2339-2360.	1.9	38
50	Movement toward better environments and the evolution of rapid diffusion. <i>Mathematical Biosciences</i> , 2006, 204, 199-214.	1.9	115
51	On the effects of nonlinear boundary conditions in diffusive logistic equations on bounded domains. <i>Journal of Differential Equations</i> , 2006, 231, 768-804.	2.2	31
52	A dynamic model for the ideal-free distribution as a partial differential equation. <i>Theoretical Population Biology</i> , 2005, 67, 101-108.	1.1	62
53	Multiple Reversals of Competitive Dominance in Ecological Reserves via External Habitat Degradation. <i>Journal of Dynamics and Differential Equations</i> , 2004, 16, 973-1010.	1.9	17
54	Does movement toward better environments always benefit a population?. <i>Journal of Mathematical Analysis and Applications</i> , 2003, 277, 489-503.	1.0	90

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55	Linear Growth Models for a Single Species: Averaging Spatial Effects via Eigenvalues. , 2003, , 89-139.		1
56	Density Dependent Single-Species Models. , 2003, , 141-198.		0
57	Permanence. , 2003, , 199-244.		0
58	Beyond Permanence: More Persistence Theory. , 2003, , 245-294.		0
59	Spatial Heterogeneity in Reaction-Diffusion Models for Two Competing Species. , 2003, , 295-349.		1
60	Nonmonotone Systems. , 2003, , 351-394.		0
61	Conditional persistence in logistic models via nonlinear diffusion. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2002, 132, 267-281.	1.2	17
62	A Continuum Formulation of the Ideal Free Distribution and Its Implications for Population Dynamics. Theoretical Population Biology, 2002, 61, 277-284.	1.1	17
63	Habitat edges and predator-prey interactions: effects on critical patch size. Mathematical Biosciences, 2002, 175, 31-55.	1.9	25
64	Brucellosis, botflies, and brainworms: the impact of edge habitats on pathogen transmission and species extinction. Journal of Mathematical Biology, 2001, 42, 95-119.	1.9	20
65	Early detection of declining populations using floor and ceiling models. Journal of Animal Ecology, 2001, 70, 906-914.	2.8	3
66	Spatial Heterogeneity and Critical Patch Size: Area Effects via Diffusion in Closed Environments. Journal of Theoretical Biology, 2001, 209, 161-171.	1.7	41
67	On the Dynamics of Predator-Prey Models with the Beddington-DeAngelis Functional Response. Journal of Mathematical Analysis and Applications, 2001, 257, 206-222.	1.0	312
68	How Habitat Edges Change Species Interactions. American Naturalist, 1999, 153, 165-182.	2.1	503
69	A comparison of foraging strategies in a patchy environment. Mathematical Biosciences, 1999, 160, 25-46.	1.9	6
70	Effects of Spatial Grouping on the Functional Response of Predators. Theoretical Population Biology, 1999, 56, 65-75.	1.1	414
71	On the effects of spatial heterogeneity on the persistence of interacting species. Journal of Mathematical Biology, 1998, 37, 103-145.	1.9	91
72	Competitive reversals inside ecological reserves: the role of external habitat degradation. Journal of Mathematical Biology, 1998, 37, 491-533.	1.9	56

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73	PRACTICAL PERSISTENCE IN DIFFUSIVE FOOD CHAIN MODELS. <i>Natural Resource Modelling</i> , 1998, 11, 21-34.	2.0	5
74	Practical persistence in ecological models via comparison methods. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 1996, 126, 247-272.	1.2	37
75	Variability, vagueness and comparison methods for ecological models. <i>Bulletin of Mathematical Biology</i> , 1996, 58, 207-246.	1.9	45
76	Variability, vagueness and comparison methods for ecological models. <i>Bulletin of Mathematical Biology</i> , 1996, 58, 207-246.	1.9	10
77	Should a Park Be an Island?. <i>SIAM Journal on Applied Mathematics</i> , 1993, 53, 219-252.	1.8	52
78	Diffusive Logistic Equations with Indefinite Weights: Population Models in Disrupted Environments II. <i>SIAM Journal on Mathematical Analysis</i> , 1991, 22, 1043-1064.	1.9	137
79	On the definition of ellipticity for systems of partial differential equations. <i>Journal of Mathematical Analysis and Applications</i> , 1991, 158, 80-93.	1.0	9
80	Diffusive logistic equations with indefinite weights: population models in disrupted environments. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 1989, 112, 293-318.	1.2	183
81	Sign-definite solutions in some linear elliptic systems. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 1989, 111, 347-358.	1.2	7
82	On the convex case in the positone problem for elliptic systems. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 1988, 12, 827-853.	1.1	2
83	Bifurcation from higher eigenvalues in nonlinear elliptic equations: Continua that meet infinity. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 1988, 12, 271-277.	1.1	15
84	Transport Equations with Second-Order Differential Collision Operators. <i>SIAM Journal on Mathematical Analysis</i> , 1988, 19, 797-813.	1.9	2
85	On the development of functionals which satisfy a maximum principle. <i>Applicable Analysis</i> , 1987, 26, 45-60.	1.3	10
86	Existence of Global Solutions to a Model of a Myelinated Nerve Axon. <i>SIAM Journal on Mathematical Analysis</i> , 1987, 18, 703-710.	1.9	5
87	Wave-Like Solutions to Reaction-Diffusion Equations on a Cylinder: Dependence on Cylinder Width. <i>SIAM Journal on Applied Mathematics</i> , 1987, 47, 534-543.	1.8	4
88	A comparison principle for a class of fourth-order elliptic operators. <i>Journal of Mathematical Analysis and Applications</i> , 1987, 128, 488-494.	1.0	9
89	On the generalized spectrum for second-order elliptic systems. <i>Transactions of the American Mathematical Society</i> , 1987, 303, 345-345.	0.9	5
90	Threshold Conditions for Two Diffusion Models Suggested By Nerve Impulse Conduction. <i>SIAM Journal on Applied Mathematics</i> , 1986, 46, 844-855.	1.8	4

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91	A priori bounds for positive solutions of a semilinear elliptic equation. Proceedings of the American Mathematical Society, 1985, 95, 47-47.	0.8	10
92	Title is missing!. Indiana University Mathematics Journal, 1985, 34, 517.	0.9	10
93	Positive solutions for superlinear elliptic systems without variational structure. Nonlinear Analysis: Theory, Methods & Applications, 1984, 8, 1427-1436.	1.1	29
94	Stable Coexistence States in the Volterra-Lotka Competition Model with Diffusion. SIAM Journal on Applied Mathematics, 1984, 44, 1112-1132.	1.8	150
95	Pointwise Bounds for Strongly Coupled Time Dependent Systems of Reaction-Diffusion Equations. SIAM Journal on Mathematical Analysis, 1984, 15, 350-356.	1.9	4
96	A Priori Estimates in Nonlinear Eigenvalue Problems for Elliptic Systems. North-Holland Mathematics Studies, 1984, 92, 123-129.	0.2	0
97	Threshold behavior and propagation for nonlinear differential-difference systems motivated by modeling myelinated axons. Quarterly of Applied Mathematics, 1984, 42, 1-14.	0.7	143
98	Some estimates of the norm of solutions of nonlinear elliptic eigenvalue problems. Applicable Analysis, 1984, 18, 101-109.	1.3	1
99	Estimates for eigenfunctions and eigenvalues of nonlinear elliptic problems. Transactions of the American Mathematical Society, 1984, 282, 59-59.	0.9	4
100	Solutions for a Flux-Dependent Diffusion Model. SIAM Journal on Mathematical Analysis, 1982, 13, 758-769.	1.9	5
101	Stability properties of a model of parallel nerve fibers. Journal of Differential Equations, 1981, 40, 303-315.	2.2	7
102	Title is missing!. Indiana University Mathematics Journal, 1981, 30, 607.	0.9	15
103	Asymptotic behavior of solutions of second order parabolic partial differential equations with unbounded coefficients. Journal of Differential Equations, 1980, 35, 407-428.	2.2	10
104	Systems of second order equations with nonnegative characteristic form. Communications in Partial Differential Equations, 1979, 4, 701-737.	2.2	8