Carlos Castillo-Chavez

List of Publications by Year
in descending order

216 papers	12,944 citations	28190 55 h-index	27345 106 g-index
227 all docs	227 docs citations	227 times ranked	7519 citing authors

#	Article	IF	Citations
1	Epidemics on networks: Reducing disease transmission using health emergency declarations and peer communication. Infectious Disease Modelling, 2020, 5, 12-22.	1.2	26
2	Mobility restrictions for the control of epidemics: When do they work?. PLoS ONE, 2020, 15, e0235731.	1.1	59
3	A Tour of the Basic Reproductive Number and the Next Generation of Researchers. Foundations for Undergraduate Research in Mathematics, 2020, , 87-124.	0.0	11
4	Mathematical Models in Epidemiology. Texts in Applied Mathematics, 2019, , .	0.4	283
5	Dengue Fever and the Zika Virus. Texts in Applied Mathematics, 2019, , 409-425.	0.4	2
6	Spatial Structure in Disease Transmission Models. Texts in Applied Mathematics, 2019, , 457-476.	0.4	3
7	Challenges, Opportunities and Theoretical Epidemiology. Texts in Applied Mathematics, 2019, , 507-531.	0.4	8
8	Simple Compartmental Models for Disease Transmission. Texts in Applied Mathematics, 2019, , 21-61.	0.4	8
9	Models with Heterogeneous Mixing. Texts in Applied Mathematics, 2019, , 179-227.	0.4	2
10	Introduction: A Prelude to Mathematical Epidemiology. Texts in Applied Mathematics, 2019, , 3-19.	0.4	2
11	Disease Transmission Models with Age Structure. Texts in Applied Mathematics, 2019, , 429-455.	0.4	0
12	Endemic Disease Models. Texts in Applied Mathematics, 2019, , 63-116.	0.4	7
13	Models for Ebola. Texts in Applied Mathematics, 2019, , 351-390.	0.4	0
14	Models for Influenza. Texts in Applied Mathematics, 2019, , 311-350.	0.4	1
15	Models for Tuberculosis. Texts in Applied Mathematics, 2019, , 249-272.	0.4	0
16	Models for HIV/AIDS. Texts in Applied Mathematics, 2019, , 273-310.	0.4	0
17	Models for Malaria. Texts in Applied Mathematics, 2019, , 391-408.	0.4	0
18	Dynamics of a diffusion reaction preyâ€“predator model with delay in prey: Effects of delay and spatial components. Journal of Mathematical Analysis and Applications, 2018, 461, 1177-1214.	0.5	19

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19	Modeling the diet dynamics of children: the roles of socialization and the school environment. Letters in Biomathematics, 2018, 5, 275-306.	0.3	3
20	Detecting the contagion effect in mass killings; a constructive example of the statistical advantages of unbinned likelihood methods. PLoS ONE, 2018, 13, e0196863.	1.1	6
21	Dynamics of a stochastic delayed Harrison-type predation model: Effects of delay and stochastic components. Mathematical Biosciences and Engineering, 2018, 15, 1401-1423.	1.0	5
22	Mathematical Analysis of an SIQR Influenza Model with Imperfect Quarantine. Bulletin of Mathematical Biology, 2017, 79, 1612-1636.	0.9	42
23	Role of short-term dispersal on the dynamics of Zika virus in an extreme idealized environment. Infectious Disease Modelling, 2017, 2, 21-34.	1.2	21
24	Yachay's promise. Science, 2017, 357, 881-881.	6.0	3
25	Migration Effects on Population Dynamics of the Honeybee-mite Interactions. Mathematical Modelling of Natural Phenomena, 2017, 12, 84-115.	0.9	11
26	The role of mobility and health disparities on the transmission dynamics of Tuberculosis. Theoretical Biology and Medical Modelling, 2017, 14, 3.	2.1	19
27	Student-Driven Research at the Mathematical and Theoretical Biology Institute. American Mathematical Monthly, 2017, 124, 876.	0.2	3
28	Pair Formation in Structured Populations. , 2017, , 47-66.		3
29	On the dynamics of dengue virus type 2 with residence times and vertical transmission. Letters in Biomathematics, 2016, 3, 140-160.	0.3	8
30	Perspectives on the role of mobility, behavior, and time scales in the spread of diseases. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14582-14588.	3.3	49
31	Vector-borne diseases models with residence times â€“ A Lagrangian perspective. Mathematical Biosciences, 2016, 281, 128-138.	0.9	47
32	Modeling the Case of Early Detection ofÂEbola Virus Disease. , 2016, , 57-70.		2
33	Estimate of the reproduction number of the 2015 Zika virus outbreak in Barranquilla, Colombia, and estimation of the relative role of sexual transmission. Epidemics, 2016, 17, 50-55.	1.5	112
34	From Bee Species Aggregation to Models of Disease Avoidance: The Ben-Hur effect. , 2016, , 169-185.		4
35	Modeling Ebola at the Mathematical and Theoretical Biology Institute (MTBI). Notices of the American Mathematical Society, 2016, 63, 366-371.	0.1	6
36	A two-strain TB model with multiple latent stages. Mathematical Biosciences and Engineering, 2016, 13, 741-785.	1.0	14

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37	Modeling eating behaviors: The role of environment and positive food association learning via a Ratatouille effect. Mathematical Biosciences and Engineering, 2016, 13, 841-855.	1.0	2
38	Mass Media and the Contagion of Fear: The Case of Ebola in America. PLoS ONE, 2015, 10, e0129179.	1.1	175
39	Why REUs Matter. , 2015, , 125-145.		1
40	Beyond Ebola: lessons to mitigate future pandemics. The Lancet Global Health, 2015, 3, e354-e355.	2.9	42
41	Modelling the effect of early detection of Ebola. Lancet Infectious Diseases, The, 2015, 15, 148-149.	4.6	46
42	Towards a Quantitative Science of Sustainability. Bulletin of Mathematical Biology, 2015, 77, 254-258.	0.9	1
43	Resource Consumption, Sustainability, and Cancer. Bulletin of Mathematical Biology, 2015, 77, 319-338.	0.9	6
44	The role of residence times in two-patch dengue transmission dynamics and optimal strategies. Journal of Theoretical Biology, 2015, 374, 152-164.	0.8	55
45	Per capita incidence of sexually transmitted infections increases systematically with urban population size: a cross-sectional study. Sexually Transmitted Infections, 2015, 91, 610-614.	0.8	35
46	SIS and SIR Epidemic Models Under Virtual Dispersal. Bulletin of Mathematical Biology, 2015, 77, 2004-2034.	0.9	72
47	Contagion in Mass Killings and School Shootings. PLoS ONE, 2015, 10, e0117259.	1.1	174
48	Epidemiology Modeling. , 2015, , 427-439.		0
49	A simple epidemiological model for populations in the wild with Allee effects and disease-modified fitness. Discrete and Continuous Dynamical Systems - Series B, 2014, 19, 89-130.	0.5	10
50	Vertical Transmission in a Two-Strain Model of Dengue Fever. Letters in Biomathematics, 2014, 1, 249-271.	0.3	14
51	Merging Economics and Epidemiology to Improve the Prediction and Management of Infectious Disease. EcoHealth, 2014, 11, 464-475.	0.9	87
52	Dynamics of SI models with both horizontal and vertical transmissions as well as Allee effects. Mathematical Biosciences, 2014, 248, 97-116.	0.9	23
53	Dynamics of an "SAIQR" Influenza Model. Biomath, 2014, 3, .	0.3	9
54	Temporal Variations in the Effective Reproduction Number of the 2014 West Africa Ebola Outbreak. PLOS Currents, 2014, 6, .	1.4	85

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55	Optimal Control for a Discrete Time Influenza Model. Advances in Intelligent Systems and Computing, 2014, , 231-237.	0.5	0
56	Discrete Epidemic Models with Arbitrary Stage Distributions and Applications to Disease Control. Bulletin of Mathematical Biology, 2013, 75, 1716-1746.	0.9	32
57	A Preliminary Theoretical Analysis of a Research Experience for Undergraduates Community Model. Primus, 2013, 23, 860-880.	0.3	4
58	SIR DYNAMICS WITH ECONOMICALLY DRIVEN CONTACT RATES. Natural Resource Modelling, 2013, 26, 505-525.	0.8	29
59	Some recent developments on linear determinacy. Mathematical Biosciences and Engineering, 2013, 10, 1419-1436.	1.0	12
60	Chalenges and Opportunities in Mathematical and Theoretical Biology and Medicine: Foreword to Volume 2 (2013) of Biomath. Biomath, 2013, 2, .	0.3	1
61	Multiscale analysis of compartment models with dispersal. Journal of Biological Dynamics, 2012, 6, 50-79.	0.8	10
62	Global Dynamics of a Plant-Herbivore Model with Toxin-Determined Functional Response. SIAM Journal on Applied Mathematics, 2012, 72, 1002-1020.	0.8	20
63	Mixing in age-structured population models of infectious diseases. Mathematical Biosciences, 2012, 235, 1-7.	0.9	58
64	Transitional regimes as early warning signals in resource dependent competition models. Mathematical Biosciences, 2012, 240, 114-123.	0.9	16
65	Mathematical Models in Population Biology and Epidemiology. Texts in Applied Mathematics, 2012, , .	0.4	593
66	Spreading speeds and traveling waves for non-cooperative integro-difference systems. Discrete and Continuous Dynamical Systems - Series B, 2012, 17, 2243-2266.	0.5	30
67	Differential impact of sickle cell trait on symptomatic and asymptomatic malaria. Mathematical Biosciences and Engineering, 2012, 9, 877-898.	1.0	12
68	ROLES OF HOST AND PATHOGEN MOBILITY IN EPIDEMIC OUTBREAKS: MATHEMATICAL, MODELING AND EPIDEMIOLOGICAL CHALLENGES. , 2012, , 204-220.		0
69	Types of drinkers and drinking settings: an application of a mathematical model. Addiction, 2011, 106, 749-758.	1.7	34
70	A DETERMINISTIC METHODOLOGY FOR ESTIMATION OF PARAMETERS IN DYNAMIC MARKOV CHAIN MODELS. Journal of Biological Systems, 2011, 19, 71-100.	0.5	11
71	Dynamics of population communities with prey migrations and Allee effects: a bifurcation approach. Mathematical Medicine and Biology, 2011, 28, 129-152.	0.8	8
72	Evaluating the efficacy of antimicrobial cycling programmes and patient isolation on dual resistance in hospitals. Journal of Biological Dynamics, 2011, 5, 27-43.	0.8	24

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73	Adaptive human behavior in epidemiological models. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 6306-6311.	3.3	351
74	Dynamics of a Stage-Structured Leslie-Gower Predator-Prey Model. Mathematical Problems in Engineering, 2011, 2011, 1-22.	0.6	14
75	Did Modeling Overestimate the Transmission Potential of Pandemic (H1N1-2009)? Sample Size Estimation for Post-Epidemic Seroepidemiological Studies. PLoS ONE, 2011, 6, e17908.	1.1	27
76	Modeling control strategies for concurrent epidemics of seasonal and pandemic H1N1 influenza. Mathematical Biosciences and Engineering, 2011, 8, 141-170.	1.0	42
77	A note on the use of influenza vaccination strategies when supply is limited. Mathematical Biosciences and Engineering, 2011, 8, 171-182.	1.0	16
78	A note on the use of optimal control on a discrete time model of influenza dynamics. Mathematical Biosciences and Engineering, 2011, 8, 183-197.	1.0	16
79	Epidemic spread of influenza viruses: The impact of transient populations on disease dynamics. Mathematical Biosciences and Engineering, 2011, 8, 199-222.	1.0	12
80	Multiple outbreaks for the same pandemic: Local transportation and social distancing explain the different "waves" of A-H1N1pdm cases observed in MÃ©xico during 2009. Mathematical Biosciences and Engineering, 2011, 8, 21-48.	1.0	54
81	Preface. Mathematical Biosciences and Engineering, 2011, 8, i-vi.	1.0	0
82	ON THE USE OF MECHANISTIC AND DATA-DRIVEN MODELS IN POPULATION DYNAMICS: THE CASE OF TUBERCULOSIS IN THE US OVER THAT PAST TWO CENTURIES. , 2011, , .		0
83	An application of queuing theory to SIS and SEIS epidemic models. Mathematical Biosciences and Engineering, 2010, 7, 809-823.	1.0	17
84	The impact of relative residence times on the distribution of heavy drinkers in highly distinct environments. Socio-Economic Planning Sciences, 2010, 44, 45-56.	2.5	54
85	Optimal control intervention strategies in low- and high-risk problem drinking populations. Socio-Economic Planning Sciences, 2010, 44, 258-265.	2.5	23
86	Transmission dynamics and underreporting of Kala-azar in the Indian state of Bihar. Journal of Theoretical Biology, 2010, 262, 177-185.	0.8	57
87	Optimal control for pandemic influenza: The role of limited antiviral treatment and isolation. Journal of Theoretical Biology, 2010, 265, 136-150.	0.8	102
88	Static behavioral effects on gonorrhea transmission dynamics in a MSM population. Journal of Theoretical Biology, 2010, 267, 35-40.	0.8	12
89	Using inverse problem methods with surveillance data in pneumococcal vaccination. Mathematical and Computer Modelling, 2010, 51, 369-388.	2.0	1
90	Pros and cons of estimating the reproduction number from early epidemic growth rate of influenza A (H1N1) 2009. Theoretical Biology and Medical Modelling, 2010, 7, 1.	2.1	171

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91	Myeloid cells in tumourâ€“immune interactions. Journal of Biological Dynamics, 2010, 4, 315-327.	0.8	15
92	Public vaccination policy using an age-structured model of pneumococcal infection dynamics. Journal of Biological Dynamics, 2010, 4, 176-195.	0.8	12
93	A discrete events delay differential system model for transmission of Vancomycin-resistant enterococcus (VRE) in hospitals. Journal of Inverse and Ill-Posed Problems, 2010, 18, 787-821.	0.5	2
94	Notes from the heterogeneous: a few observations on the implications and necessity of affinity. Journal of Biological Dynamics, 2010, 4, 456-477.	0.8	10
95	Role of Prey Dispersal and Refuges on Predator-Prey Dynamics. SIAM Journal on Applied Mathematics, 2010, 70, 1821-1839.	0.8	39
96	Community resilience in collaborative learning. Discrete and Continuous Dynamical Systems - Series B, 2010, 14, 17-40.	0.5	13
97	Discrete epidemic models. Mathematical Biosciences and Engineering, 2010, 7, 1-15.	1.0	68
98	A cost-based comparison of quarantine strategies for new emerging diseases. Mathematical Biosciences and Engineering, 2010, 7, 687-717.	1.0	49
99	IMMUNE LEVEL APPROACH FOR MULTIPLE STRAIN PATHOGENS. Journal of Biological Systems, 2009, 17, 713-737.	0.5	7
100	Mathematical and Statistical Estimation Approaches in Epidemiology. , 2009, , .		63
101	The Epidemiological Impact of Rotavirus Vaccination Programs in the United States and Mexico. , 2009, , 303-323.		3
102	Spatial and Temporal Dynamics of Rubella in Peru, 1997â€“2006: Geographic Patterns, Age at Infection and Estimation of Transmissibility. , 2009, , 325-341.		2
103	The Role of Nonlinear Relapse on Contagion Amongst Drinking Communities. , 2009, , 343-360.		7
104	Mathematical modelling of tuberculosis epidemics. Mathematical Biosciences and Engineering, 2009, 6, 209-237.	1.0	72
105	The estimation of the effective reproductive number from disease outbreak data. Mathematical Biosciences and Engineering, 2009, 6, 261-282.	1.0	98
106	Modeling TB and HIV co-infections. Mathematical Biosciences and Engineering, 2009, 6, 815-837.	1.0	86
107	Population modeling of the emergence and development of scientific fields. Scientometrics, 2008, 75, 495-518.	1.6	124
108	Mathematical Models of Influenza: The Role of Cross-Immunity, Quarantine and Age-Structure. Lecture Notes in Mathematics, 2008, , 349-364.	0.1	11

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109	A schistosomiasis model with mating structure and time delay. Mathematical Biosciences, 2008, 211, 333-341.	0.9	40
110	Spatial and temporal dynamics of dengue fever in Peru: 1994â€“2006. Epidemiology and Infection, 2008, 136, 1667-1677.	1.0	65
111	Estimation of invasive pneumococcal disease dynamics parameters and the impact of conjugate vaccination in Australia. Mathematical Biosciences and Engineering, 2008, 5, 175-204.	1.0	13
112	Spatial spread of sexually transmitted diseases within susceptible populations at demographic steady state. Mathematical Biosciences and Engineering, 2008, 5, 713-727.	1.0	5
113	Estimation of the reproduction number of dengue fever from spatial epidemic data. Mathematical Biosciences, 2007, 208, 571-589.	0.9	173
114	On the role of cross-immunity and vaccines on the survival of less fit flu-strains. Theoretical Population Biology, 2007, 71, 20-29.	0.5	23
115	Drinking as an Epidemicâ€"A Simple Mathematical Model with Recovery and Relapse. , 2007, , 353-368.		39
116	Towards Real Time Epidemiology: Data Assimilation, Modeling and Anomaly Detection of Health Surveillance Data Streams. Lecture Notes in Computer Science, 2007, , 79-90.	1.0	16
117	Modelling the transmission dynamics of acute haemorrhagic conjunctivitis: application to the 2003 outbreak in Mexico. Statistics in Medicine, 2006, 25, 1840-1857.	0.8	24
118	The power of a good idea: Quantitative modeling of the spread of ideas from epidemiological models. Physica A: Statistical Mechanics and Its Applications, 2006, 364, 513-536.	1.2	326
119	An age-structured epidemic model of rotavirus with vaccination. Journal of Mathematical Biology, 2006, 53, 719-746.	0.8	67
120	The role of spatial mixing in the spread of foot-and-mouth disease. Preventive Veterinary Medicine, 2006, 73, 297-314.	0.7	30
121	Raves, clubs and ecstasy: the impact of peer pressure. Mathematical Biosciences and Engineering, 2006, 3, 249-266.	1.0	42
122	The influence of infectious diseases on population genetics. Mathematical Biosciences and Engineering, 2006, 3, 467-483.	1.0	6
123	Global behavior of a multi-group SIS epidemic model with age structure. Journal of Differential Equations, 2005, 218, 292-324.	1.1	89
124	Dynamics of Two-Strain Influenza with Isolation and Partial Cross-Immunity. SIAM Journal on Applied Mathematics, 2005, 65, 964-982.	0.8	113
125	A Simple Epidemic Model with Surprising Dynamics. Mathematical Biosciences and Engineering, 2005, 2, 133-152.	1.0	63
126	Effects of behavioral changes in a smallpox attack model. Mathematical Biosciences, 2005, 195, 228-251.	0.9	155

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127	Pediatric electrocardiograph abnormalities following Centruroides limpidus tecomanus scorpion envenomation. Toxicon, 2005, 45, 27-31.	0.8	19
128	The Role of Vaccination in the Control of SARS. Mathematical Biosciences and Engineering, 2005, 2, 753-769.	1.0	23
129	Model Parameters and Outbreak Control for SARS. Emerging Infectious Diseases, 2004, 10, 1258-1263.	2.0	195
130	Implications of Systems Dynamic Models and Control Theory for Environmental Approaches to the Prevention of Alcohol- and Other Drug Use-Related Problems. Substance Use and Misuse, 2004, 39, 1713-1750.	0.7	29
131	The basic reproductive number of Ebola and the effects of public health measures: the cases of Congo and Uganda. Journal of Theoretical Biology, 2004, 229, 119-126.	0.8	466
132	Dynamical Models of Tuberculosis and Their Applications. Mathematical Biosciences and Engineering, 2004, 1, 361-404.	1.0	1,229
133	Implications of systems dynamic models and control theory for environmental approaches to the prevention of alcohol- and other drug use-related problems. , 2004, 39, 1713-50.		4
134	Coexistence of pathogens in sexually-transmitted disease models. Journal of Mathematical Biology, 2003, 47, 547-568.	0.8	20
135	SARS outbreaks in Ontario, Hong Kong and Singapore: the role of diagnosis and isolation as a control mechanism. Journal of Theoretical Biology, 2003, 224, 1-8.	0.8	239
136	Diseases with chronic stage in a population with varying size. Mathematical Biosciences, 2003, 182, 1-25.	0.9	64
137	Scaling laws for the movement of people between locations in a large city. Physical Review E, 2003, 68, 066102.	0.8	151
138	Identification of geographic factors associated with early spread of foot-and-mouth disease. American Journal of Veterinary Research, 2003, 64, 1519-1527.	0.3	20
139	Mathematical Models of Isolation and Quarantine. JAMA - Journal of the American Medical Association, 2003, 290, 2876-2877.	3.8	70
140	7. Models for the Transmission Dynamics of Fanatic Behaviors. , 2003, , 155-172.		25
141	8. An Epidemic Model with Virtual Mass Transportation: The Case of Smallpox in a Large City. , 2003, , 173-197.		11
142	2. Worst-Case Scenarios and Epidemics. , 2003, , 35-53.		2
143	Bioterrorism: Mathematical Modeling Applications in Homeland Security. , 2003, , .		26
144	Global Dynamics of Tuberculosis Models with Density Dependent Demography. The IMA Volumes in Mathematics and Its Applications, 2002, , 275-294.	0.5	10

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145	Tuberculosis models with fast and slow dynamics: the role of close and casual contacts. Mathematical Biosciences, 2002, 180, 187-205.	0.9	105
146	Markers of Disease Evolution: The Case of Tuberculosis. Journal of Theoretical Biology, 2002, 215, 227-237.	0.8	57
147	Interplay between Local Dynamics and Dispersal in Discrete-time Metapopulation Models. Journal of Theoretical Biology, 2002, 218, 273-288.	0.8	38
148	Age-Structured Core Group Model and its Impact on STD Dynamics. The IMA Volumes in Mathematics and Its Applications, 2002, , 261-273.	0.5	10
149	Intraspecific Competition, Dispersal and Disease Dynamics in Discrete-Time Patchy Environments. The IMA Volumes in Mathematics and Its Applications, 2002, , 165-181.	0.5	11
150	On the Computation of R 0 and its Role on Global Stability. The IMA Volumes in Mathematics and Its Applications, 2002, , 229-250.	0.5	243
151	Nonlinear Mating Models for Populations with Discrete Generations. The IMA Volumes in Mathematics and Its Applications, 2002, , 251-268.	0.5	4
152	Frequency Dependent Risk of Infection and the Spread of Infectious Diseases. The IMA Volumes in Mathematics and Its Applications, 2002, , 341-350.	0.5	2
153	Discrete-Time S-I-S Models With Simple and Complex Population Dynamics. The IMA Volumes in Mathematics and Its Applications, 2002, , 153-163.	0.5	11
154	Long-Term Dynamics and Re-Emergence of Tuberculosis. The IMA Volumes in Mathematics and Its Applications, 2002, , 351-360.	0.5	3
155	Dispersal, disease and life-history evolution. Mathematical Biosciences, 2001, 173, 35-53.	0.9	77
156	Discrete-time S-I-S models with complex dynamics. Nonlinear Analysis: Theory, Methods & Applications, 2001, 47, 4753-4762.	0.6	82
157	On the Role of Variable Latent Periods in Mathematical Models for Tuberculosis. Journal of Dynamics and Differential Equations, 2001, 13, 425-452.	1.0	79
158	Mathematical Models in Population Biology and Epidemiology. Texts in Applied Mathematics, 2001, , .	0.4	863
159	Basic Ideas of Mathematical Epidemiology. Texts in Applied Mathematics, 2001, , 275-337.	0.4	12
160	Urn models and vaccine efficacy estimation. , 2000, 19, 827-835.		10
161	Transmission and Dynamics of Tuberculosis on Generalized Households. Journal of Theoretical Biology, 2000, 206, 327-341.	0.8	83
162	A note on pair-formation functions. Mathematical and Computer Modelling, 2000, 31, 83-91.	2.0	8

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163	A Model for Tuberculosis with Exogenous Reinfection. Theoretical Population Biology, 2000, 57, 235-247.	0.5	298
164	Density-dependent dynamics and superinfection in an epidemic model. Mathematical Medicine and Biology, 1999, 16, 307-317.	0.8	20
165	Competitive Exclusion and Coexistence of Multiple Strains in an SIS STD Model. SIAM Journal on Applied Mathematics, 1999, 59, 1790-1811.	0.8	84
166	A basic result on the integral for birthâ€"death Markov processes. Mathematical Biosciences, 1999, 161, 95-104.	0.9	27
167	On the Relationship Between Evolution of Virulence and Host Demography. Journal of Theoretical Biology, 1998, 192, 437-444.	0.8	30
168	Backwards bifurcations and catastrophe in simple models of fatal diseases. Journal of Mathematical Biology, 1998, 36, 227-248.	0.8	269
169	Global stability of an age-structure model for TB and its applications to optimal vaccination strategies. Mathematical Biosciences, 1998, 151, 135-154.	0.9	122
170	The effects of females' susceptibility on the coexistence of multiple pathogen strains of sexually transmitted diseases. Journal of Mathematical Biology, 1997, 35, 503-522.	0.8	39
171	To treat or not to treat: the case of tuberculosis. Journal of Mathematical Biology, 1997, 35, 629-656.	0.8	254
172	The Evolution of Age-Structured Marriage Functions: It Takes Two to Tango. , 1997, , 533-553.		5
173	On the existence of stable pairing distributions. Journal of Mathematical Biology, 1996, 34, 413-441.	0.8	16
174	Competitive Exclusion in Gonorrhea Models and Other Sexually Transmitted Diseases. SIAM Journal on Applied Mathematics, 1996, 56, 494-508.	0.8	116
175	Effects of treatment and prevalence-dependent recruitment on the dynamics of a fatal disease. Mathematical Medicine and Biology, 1996, 13, 175-192.	0.8	33
176	Stochastic and deterministic models in epidemiology. , 1996, , 3211-3226.		0
177	Completion of mixing matrices for non-closed social networks. , 1996, , 3163-3174.		0
178	Modelling vector-host disease transmission and food web dynamics through the mixing/pair formation approach. , 1996, , 3175-3186.		1
179	A pair formation approach to modeling inheritance of social traits. , 1996, , 3227-3234.		0
180	On the existence of stable pairing distributions. Journal of Mathematical Biology, 1996, 34, 413-441.	0.8	2

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181	A core group model for disease transmission. Mathematical Biosciences, 1995, 128, 41-55.	0.9	205
182	Affinity in paired event probability. Mathematical Biosciences, 1995, 128, 265-284.	0.9	22
183	The logistic equation revisited: The two-sex case. Mathematical Biosciences, 1995, 128, 299-316.	0.9	55
184	Remembering Stavros Busenberg. Mathematical Biosciences, 1995, 128, 3-11.	0.9	3
185	Basic Models in Epidemiology. , 1995, , 410-447.		1
186	Basic Models in Epidemiology. , 1995, , 410-447.		3
187	Modeling Contact Structures in Biology. Lecture Notes in Biomathematics, 1994, , 454-491.	0.3	17
188	How May Infection-Age-Dependent Infectivity Affect the Dynamics of HIV/AIDS?. SIAM Journal on Applied Mathematics, 1993, 53, 1447-1479.	0.8	199
189	Empirical methods for the estimation of the mixing probabilities for socially structured populations from a single survey sample. Mathematical Population Studies, 1992, 3, 199-225.	0.8	18
190	Stability and Bifurcation for a Multiple-Group Model for the Dynamics of HIV/AIDS Transmission. SIAM Journal on Applied Mathematics, 1992, 52, 835-854.	0.8	180
191	Using mark-recapture methodology to estimate the size of a population at risk for sexually transmitted diseases. Statistics in Medicine, 1992, 11, 1533-1549.	0.8	25
192	On the Estimation Problem of Mixing/Pair Formation Matrices with Applications to Models for Sexually-Transmitted Diseases. , 1992, , 384-402.		11
193	Toward a unified theory of sexual mixing and pair formation. Mathematical Biosciences, 1991, 107, 379-405.	0.9	60
194	A General Solution of the Problem of Mixing of Subpopulations and its Application to Risk- and Age-Structured Epidemic Models for the Spread of AIDS. Mathematical Medicine and Biology, 1991, 8, 1-29.	0.8	131
195	On the Solution of the Two-Sex Mixing Problem. Lecture Notes in Biomathematics, 1991, , 80-98.	0.3	18
196	Scaling of sexual activity. Nature, 1990, 344, 202-202.	13.7	26
197	Environmental context, social interactions, and the spread of HIV. American Journal of Human Biology, 1990, 2, 397-417.	0.8	31
198	Topics in Evolutionary Ecology. , 1990, , 327-358.		4

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199	Results on the dynamics for models for the sexual transmission of the human immunodeficiency virus. Applied Mathematics Letters, 1989, 2, 327-331.	1.5	69
200	Dynamical models of ecosystems and epidemics. Future Generation Computer Systems, 1989, 5, 265-274.	4.9	14
201	Epidemiological models with age structure, proportionate mixing, and cross-immunity. Journal of Mathematical Biology, 1989, 27, 233-258.	0.8	244
202	On the role of long incubation periods in the dynamics of acquired immunodeficiency syndrome (AIDS). Journal of Mathematical Biology, 1989, 27, 373-398.	0.8	121
203	Like-with-like preference and sexual mixing models. Mathematical Biosciences, 1989, 96, 221-238.	0.9	94
204	The Role of Long Periods of Infectiousness in the Dynamics of Acquired Immunodeficiency Syndrome (AIDS). Lecture Notes in Biomathematics, 1989, , 177-189.	0.3	24
205	Review of Recent Models of HIV/AIDS Transmission. Biomathematics, 1989, , 253-262.	0.7	10
206	Some Applications of Structured Models in Population Dynamics. Biomathematics, 1989, , 450-470.	0.7	8
207	Statistical and Mathematical Approaches in HIV/AIDS Modeling: A Review. Lecture Notes in Biomathematics, 1989, , 2-35.	0.3	10
208	Mixing Framework for Social/Sexual Behavior. Lecture Notes in Biomathematics, 1989, , 275-288.	0.3	26
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