

Chris T Bauch

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

157
papers

5,131
citations

33
h-index

69
g-index

180
ext. papers

6,286
ext. citations

6
avg, IF

6.36
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 157 | Statistical physics of vaccination. <i>Physics Reports</i> , 2016 , 664, 1-113 | 27.7 | 579 |
| 156 | Vaccination and the theory of games. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 13391-4 | 11.5 | 429 |
| 155 | Coupled disease-behavior dynamics on complex networks: A review. <i>Physics of Life Reviews</i> , 2015 , 15, 1-29 | 2.1 | 285 |
| 154 | Group interest versus self-interest in smallpox vaccination policy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 10564-7 | 11.5 | 265 |
| 153 | Imitation dynamics predict vaccinating behaviour. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2005 , 272, 1669-75 | 4.4 | 234 |
| 152 | Dynamically modeling SARS and other newly emerging respiratory illnesses: past, present, and future. <i>Epidemiology</i> , 2005 , 16, 791-801 | 3.1 | 169 |
| 151 | Evolving public perceptions and stability in vaccine uptake. <i>Mathematical Biosciences</i> , 2006 , 204, 185-98 | 3.9 | 148 |
| 150 | Epidemiology. Social factors in epidemiology. <i>Science</i> , 2013 , 342, 47-9 | 33.3 | 135 |
| 149 | The impact of media coverage on the transmission dynamics of human influenza. <i>BMC Public Health</i> , 2011 , 11 Suppl 1, S5 | 4.1 | 125 |
| 148 | Nine challenges in incorporating the dynamics of behaviour in infectious diseases models. <i>Epidemics</i> , 2015 , 10, 21-5 | 5.1 | 117 |
| 147 | Social contact networks and disease eradicability under voluntary vaccination. <i>PLoS Computational Biology</i> , 2009 , 5, e1000280 | 5 | 108 |
| 146 | Evolutionary game theory and social learning can determine how vaccine scares unfold. <i>PLoS Computational Biology</i> , 2012 , 8, e1002452 | 5 | 107 |
| 145 | Transients and attractors in epidemics. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2003 , 270, 1573-8 | 4.4 | 105 |
| 144 | Stray dog population demographics in Jodhpur, India following a population control/rabies vaccination program. <i>Preventive Veterinary Medicine</i> , 2010 , 97, 51-7 | 3.1 | 98 |
| 143 | Modelling mitigation strategies for pandemic (H1N1) 2009. <i>Cmaj</i> , 2009 , 181, 673-80 | 3.5 | 86 |
| 142 | Early warning signals of regime shifts in coupled human-environment systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 14560-14567 | 11.5 | 82 |
| 141 | The impact of imitation on vaccination behavior in social contact networks. <i>PLoS Computational Biology</i> , 2012 , 8, e1002469 | 5 | 77 |

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| 140 | The influence of social norms on the dynamics of vaccinating behaviour for paediatric infectious diseases. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014 , 281, 20133172 | 4.4 | 71 |
| 139 | Modelling science trustworthiness under publish or perish pressure. <i>Royal Society Open Science</i> , 2018 , 5, 171511 | 3.3 | 67 |
| 138 | Prioritising COVID-19 vaccination in changing social and epidemiological landscapes: a mathematical modelling study. <i>Lancet Infectious Diseases</i> , 2021 , 21, 1097-1106 | 25.5 | 65 |
| 137 | Economic appraisal of Ontario's Universal Influenza Immunization Program: a cost-utility analysis. <i>PLoS Medicine</i> , 2010 , 7, e1000256 | 11.6 | 60 |
| 136 | Local lockdowns outperform global lockdown on the far side of the COVID-19 epidemic curve. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 24575-24580 | 11.5 | 60 |
| 135 | Erratic flu vaccination emerges from short-sighted behavior in contact networks. <i>PLoS Computational Biology</i> , 2011 , 7, e1001062 | 5 | 57 |
| 134 | Global eradication of measles: an epidemiologic and economic evaluation. <i>Journal of Infectious Diseases</i> , 2011 , 204 Suppl 1, S98-106 | 7 | 56 |
| 133 | The spread of infectious diseases in spatially structured populations: an invasy pair approximation. <i>Mathematical Biosciences</i> , 2005 , 198, 217-37 | 3.9 | 56 |
| 132 | Dynamics of an Infectious Disease Where Media Coverage Influences Transmission 2012 , 2012, 1-10 | | 51 |
| 131 | Assessing the pandemic potential of MERS-CoV. <i>Lancet</i> , 2013 , 382, 662-4 | 4.0 | 50 |
| 130 | Human-environment interactions in population and ecosystem health. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 14502-14506 | 11.5 | 48 |
| 129 | "Wait and see" vaccinating behaviour during a pandemic: a game theoretic analysis. <i>Vaccine</i> , 2011 , 29, 5519-25 | 4.1 | 41 |
| 128 | The impact of human-environment interactions on the stability of forest-grassland mosaic ecosystems. <i>Scientific Reports</i> , 2013 , 3, 2689 | 4.9 | 40 |
| 127 | A simulation analysis to characterize the dynamics of vaccinating behaviour on contact networks. <i>BMC Infectious Diseases</i> , 2009 , 9, 77 | 4 | 38 |
| 126 | National- and state-level impact and cost-effectiveness of nonavalent HPV vaccination in the United States. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 5107-12 | 11.5 | 38 |
| 125 | Critical dynamics in population vaccinating behavior. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 13762-13767 | 11.5 | 36 |
| 124 | A versatile ODE approximation to a network model for the spread of sexually transmitted diseases. <i>Journal of Mathematical Biology</i> , 2002 , 45, 375-95 | 2 | 33 |
| 123 | A game dynamic model for delayer strategies in vaccinating behaviour for pediatric infectious diseases. <i>Journal of Theoretical Biology</i> , 2010 , 267, 276-82 | 2.3 | 32 |

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| 122 | Symmetric competition causes population oscillations in an individual-based model of forest dynamics. <i>Ecological Modelling</i> , 2008 , 211, 491-500 | 3 | 32 |
| 121 | Modelling Interactions between forest pest invasions and human decisions regarding firewood transport restrictions. <i>PLoS ONE</i> , 2014 , 9, e90511 | 3.7 | 32 |
| 120 | Alternative stable states and the sustainability of forests, grasslands, and agriculture. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 14552-14559 | 11.5 | 32 |
| 119 | Dynamics of the Global Wheat Trade Network and Resilience to Shocks. <i>Scientific Reports</i> , 2017 , 7, 7177 | 4.9 | 30 |
| 118 | Dynamics of vaccination strategies via projected dynamical systems. <i>Bulletin of Mathematical Biology</i> , 2007 , 69, 1453-76 | 2.1 | 30 |
| 117 | Charting pathways to climate change mitigation in a coupled socio-climate model. <i>PLoS Computational Biology</i> , 2019 , 15, e1007000 | 5 | 28 |
| 116 | Outlook on a worldwide forest transition. <i>PLoS ONE</i> , 2013 , 8, e75890 | 3.7 | 28 |
| 115 | Interactions between climate change, competition, dispersal, and disturbances in a tree migration model. <i>Theoretical Ecology</i> , 2008 , 1, 209-220 | 1.6 | 27 |
| 114 | Revising ecological assumptions about Human papillomavirus interactions and type replacement. <i>Journal of Theoretical Biology</i> , 2014 , 350, 98-109 | 2.3 | 25 |
| 113 | Policy resistance undermines superspreader vaccination strategies for influenza. <i>PLoS Computational Biology</i> , 2013 , 9, e1002945 | 5 | 25 |
| 112 | Conditions for a Second Wave of COVID-19 Due to Interactions Between Disease Dynamics and Social Processes. <i>Frontiers in Physics</i> , 2020 , 8, | 3.9 | 25 |
| 111 | Could the human papillomavirus vaccines drive virulence evolution?. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015 , 282, 20141069 | 4.4 | 24 |
| 110 | Incorporating herd immunity effects into cohort models of vaccine cost-effectiveness. <i>Medical Decision Making</i> , 2009 , 29, 557-69 | 2.5 | 24 |
| 109 | Modelling microbial infection to address global health challenges. <i>Nature Microbiology</i> , 2019 , 4, 1612-1618 | 10.6 | 23 |
| 108 | The impact of personal experiences with infection and vaccination on behaviour-incidence dynamics of seasonal influenza. <i>Epidemics</i> , 2012 , 4, 139-51 | 5.1 | 22 |
| 107 | Adherence to cervical screening in the era of human papillomavirus vaccination: how low is too low?. <i>Lancet Infectious Diseases, The</i> , 2010 , 10, 133-7 | 25.5 | 22 |
| 106 | Rapid emergence of free-riding behavior in new pediatric immunization programs. <i>PLoS ONE</i> , 2010 , 5, e12594 | 3.7 | 22 |
| 105 | Disease dynamics and costly punishment can foster socially imposed monogamy. <i>Nature Communications</i> , 2016 , 7, 11219 | 17.4 | 19 |

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| 104 | Communicating sentiment and outlook reverses inaction against collective risks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 17650-17655 | 11.5 | 19 |
| 103 | Landowner perceptions of the value of natural forest and natural grassland in a mosaic ecosystem in southern Brazil. <i>Sustainability Science</i> , 2016 , 11, 321-330 | 6.4 | 17 |
| 102 | Global land use implications of dietary trends. <i>PLoS ONE</i> , 2018 , 13, e0200781 | 3.7 | 17 |
| 101 | Strategic decision making about travel during disease outbreaks: a game theoretical approach. <i>Journal of the Royal Society Interface</i> , 2018 , 15, | 4.1 | 17 |
| 100 | Time for change? An economic evaluation of integrated cervical screening and HPV immunization programs in Canada. <i>Vaccine</i> , 2012 , 30, 425-35 | 4.1 | 16 |
| 99 | The effects of endogenous ecological memory on population stability and resilience in a variable environment. <i>Ecological Modelling</i> , 2008 , 212, 334-341 | 3 | 16 |
| 98 | The impact of rare but severe vaccine adverse events on behaviour-disease dynamics: a network model. <i>Scientific Reports</i> , 2019 , 9, 7164 | 4.9 | 15 |
| 97 | Role of word-of-mouth for programs of voluntary vaccination: A game-theoretic approach. <i>Mathematical Biosciences</i> , 2015 , 269, 130-4 | 3.9 | 15 |
| 96 | Carrot or stick? Modelling how landowner behavioural responses can cause incentive-based forest governance to backfire. <i>PLoS ONE</i> , 2013 , 8, e77735 | 3.7 | 15 |
| 95 | Prioritising COVID-19 vaccination in changing social and epidemiological landscapes | | 15 |
| 94 | Deep learning for early warning signals of tipping points. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118, | 11.5 | 15 |
| 93 | Evaluation of serogroup C and ACWY meningococcal vaccine programs: projected impact on disease burden according to a stochastic two-strain dynamic model. <i>Vaccine</i> , 2015 , 33, 268-75 | 4.1 | 13 |
| 92 | Sexual behavior, risk perception, and HIV transmission can respond to HIV antiviral drugs and vaccines through multiple pathways. <i>Scientific Reports</i> , 2015 , 5, 15411 | 4.9 | 13 |
| 91 | Agent-based modelling of clonal plant propagation across space: Recapturing fairy rings, power laws and other phenomena. <i>Ecological Informatics</i> , 2011 , 6, 127-135 | 4.2 | 13 |
| 90 | When do sexual partnerships need to be accounted for in transmission models of human papillomavirus?. <i>International Journal of Environmental Research and Public Health</i> , 2010 , 7, 635-50 | 4.6 | 13 |
| 89 | Using network models to approximate spatial point-process models. <i>Mathematical Biosciences</i> , 2003 , 184, 101-14 | 3.9 | 13 |
| 88 | Model-based projections for COVID-19 outbreak size and student-days lost to closure in Ontario childcare centres and primary schools. <i>Scientific Reports</i> , 2021 , 11, 6402 | 4.9 | 13 |
| 87 | Behavioral Epidemiology of Infectious Diseases: An Overview 2013 , 1-19 | | 12 |

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| 86 | An agent-based computational model of the spread of tuberculosis. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2011 , 2011, P05003 | 1.9 | 12 |
| 85 | Coevolution of risk perception, sexual behaviour, and HIV transmission in an agent-based model. <i>Journal of Theoretical Biology</i> , 2013 , 337, 125-32 | 2.3 | 11 |
| 84 | Mathematical models of the interplay between individual vaccinating decisions and disease dynamics: a need for closer integration of models and data. <i>Human Vaccines and Immunotherapeutics</i> , 2012 , 8, 842-4 | 4.4 | 11 |
| 83 | Disease Interventions Can Interfere with One Another through Disease-Behaviour Interactions. <i>PLoS Computational Biology</i> , 2015 , 11, e1004291 | 5 | 11 |
| 82 | Spatial correlation as an early warning signal of regime shifts in a multiplex disease-behaviour network. <i>Journal of Theoretical Biology</i> , 2018 , 448, 17-25 | 2.3 | 10 |
| 81 | The impacts of simultaneous disease intervention decisions on epidemic outcomes. <i>Journal of Theoretical Biology</i> , 2016 , 395, 1-10 | 2.3 | 10 |
| 80 | Dynamics and control of foot-and-mouth disease in endemic countries: a pair approximation model. <i>Journal of Theoretical Biology</i> , 2014 , 357, 150-9 | 2.3 | 10 |
| 79 | Bounded rationality alters the dynamics of paediatric immunization acceptance. <i>Scientific Reports</i> , 2015 , 5, 10724 | 4.9 | 10 |
| 78 | Impacts of constrained culling and vaccination on control of foot and mouth disease in near-endemic settings: a pair approximation model. <i>Epidemics</i> , 2014 , 9, 18-30 | 5.1 | 10 |
| 77 | Wealth as a source of density dependence in human population growth. <i>Oikos</i> , 2008 , 117, 1824-1832 | 4 | 10 |
| 76 | Prosocial polio vaccination in Israel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 13138-13144 | 11.5 | 10 |
| 75 | Estimating the COVID-19 R number: a bargain with the devil?. <i>Lancet Infectious Diseases</i> , 2021 , 21, 151-153 | 25.5 | 10 |
| 74 | Algorithmic discovery of dynamic models from infectious disease data. <i>Scientific Reports</i> , 2020 , 10, 7061 | 4.9 | 9 |
| 73 | The influence of social behaviour on competition between virulent pathogen strains. <i>Journal of Theoretical Biology</i> , 2018 , 455, 47-53 | 2.3 | 9 |
| 72 | Competition between injunctive social norms and conservation priorities gives rise to complex dynamics in a model of forest growth and opinion dynamics. <i>Journal of Theoretical Biology</i> , 2017 , 432, 132-140 | 2.3 | 9 |
| 71 | Impact of imitation processes on the effectiveness of ring vaccination. <i>Bulletin of Mathematical Biology</i> , 2011 , 73, 2748-72 | 2.1 | 9 |
| 70 | Socio-ecological dynamics of Caribbean coral reef ecosystems and conservation opinion propagation. <i>Scientific Reports</i> , 2018 , 8, 2597 | 4.9 | 8 |
| 69 | Outcome inelasticity and outcome variability in behaviour-incidence models: an example from an SEIR infection on a dynamic network. <i>Computational and Mathematical Methods in Medicine</i> , 2012 , 2012, 652562 | 2.8 | 8 |

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| 68 | Conditions for a second wave of COVID-19 due to interactions between disease dynamics and social processes | | 8 |
| 67 | The impact of aggregating serogroups in dynamic models of <i>Neisseria meningitidis</i> transmission. <i>BMC Infectious Diseases</i> , 2015 , 15, 300 | 4 | 7 |
| 66 | The Environmental Kuznets Curve Fails in a Globalized Socio-Ecological Metapopulation: A Sustainability Game Theory Approach. <i>Handbook of Statistics</i> , 2018 , 39, 315-341 | 0.6 | 7 |
| 65 | Modelling invasibility in endogenously oscillating tree populations: timing of invasion matters. <i>Biological Invasions</i> , 2010 , 12, 219-231 | 2.7 | 7 |
| 64 | Multiplayer games and HIV transmission via casual encounters. <i>Mathematical Biosciences and Engineering</i> , 2017 , 14, 359-376 | 2.1 | 7 |
| 63 | Spatial early warning signals of social and epidemiological tipping points in a coupled behaviour-disease network. <i>Scientific Reports</i> , 2020 , 10, 7611 | 4.9 | 7 |
| 62 | Convergence of socio-ecological dynamics in disparate ecological systems under strong coupling to human social systems. <i>Theoretical Ecology</i> , 2019 , 12, 285-296 | 1.6 | 7 |
| 61 | Solving the patient zero inverse problem by using generalized simulated annealing. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018 , 490, 1513-1521 | 3.3 | 6 |
| 60 | Examining Ontario's universal influenza immunization program with a multi-strain dynamic model. <i>Vaccine</i> , 2014 , 32, 5098-117 | 4.1 | 6 |
| 59 | CAN CULLING TO PREVENT MONKEYPOX INFECTION BE COUNTER-PRODUCTIVE? SCENARIOS FROM A THEORETICAL MODEL. <i>Journal of Biological Systems</i> , 2012 , 20, 259-283 | 1.6 | 6 |
| 58 | EXPLORATION OF THE PARAMETER SPACE IN AN AGENT-BASED MODEL OF TUBERCULOSIS SPREAD: EMERGENCE OF DRUG RESISTANCE IN DEVELOPING VS DEVELOPED COUNTRIES. <i>International Journal of Modern Physics C</i> , 2012 , 23, 1250046 | 1.1 | 6 |
| 57 | COVID-19: when should quarantine be enforced?. <i>Lancet Infectious Diseases</i> , 2020 , 20, 994-995 | 25.5 | 6 |
| 56 | Elements of indigenous socio-ecological knowledge show resilience despite ecosystem changes in the forest-grassland mosaics of the Nilgiri Hills, India. <i>Palgrave Communications</i> , 2018 , 4, | 5.3 | 6 |
| 55 | Interconnections Accelerate Collapse in a Socio-Ecological Metapopulation. <i>Sustainability</i> , 2019 , 11, 1852.6 | | 5 |
| 54 | Spatial coupled disease-behavior framework as a dynamic and adaptive system Reply to comments on "Coupled disease-behavior dynamics on complex networks: A review". <i>Physics of Life Reviews</i> , 2015 , 15, 57-60 | 2.1 | 5 |
| 53 | Food webs in the human body: linking ecological theory to viral dynamics. <i>PLoS ONE</i> , 2012 , 7, e48812 | 3.7 | 5 |
| 52 | Coupled Human-Environment Dynamics of Forest Pest Spread and Control in a Multi-Patch, Stochastic Setting. <i>PLoS ONE</i> , 2015 , 10, e0139353 | 3.7 | 5 |
| 51 | Detecting and distinguishing tipping points using spectral early warning signals. <i>Journal of the Royal Society Interface</i> , 2020 , 17, 20200482 | 4.1 | 5 |

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| 50 | Emergence and spread of drug resistant influenza: A two-population game theoretical model. <i>Infectious Disease Modelling</i> , 2016 , 1, 40-51 | 15.7 | 5 |
| 49 | Truncation selection and payoff distributions applied to the replicator equation. <i>Journal of Theoretical Biology</i> , 2016 , 404, 383-390 | 2.3 | 4 |
| 48 | Use of a catalytic model to estimate hepatitis A incidence in a low-endemicity country: implications for modeling immunization policies. <i>Medical Decision Making</i> , 2012 , 32, 167-75 | 2.5 | 4 |
| 47 | Interventions to Mitigate COVID-19 Misinformation: A Systematic Review and Meta-Analysis.. <i>Journal of Health Communication</i> , 2022 , 1-12 | 2.5 | 4 |
| 46 | Coupling fishery dynamics, human health and social learning in a model of fish-borne pollution exposure. <i>Sustainability Science</i> , 2016 , 11, 179-192 | 6.4 | 3 |
| 45 | An antibiotic protocol to minimize emergence of drug-resistant tuberculosis. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2014 , 400, 80-92 | 3.3 | 3 |
| 44 | Deep learning for early warning signals of regime shifts | | 3 |
| 43 | Best response dynamics improve sustainability and equity outcomes in common-pool resources problems, compared to imitation dynamics. <i>Journal of Theoretical Biology</i> , 2021 , 509, 110476 | 2.3 | 3 |
| 42 | Can interactions between timing of vaccine-altered influenza pandemic waves and seasonality in influenza complications lead to more severe outcomes?. <i>PLoS ONE</i> , 2011 , 6, e23580 | 3.7 | 2 |
| 41 | The far side of the COVID-19 epidemic curve: local re-openings and re-closings based on globally coordinated triggers may work best | | 2 |
| 40 | Spatial structure in protected forest-grassland mosaics: Exploring futures under climate change. <i>Global Change Biology</i> , 2020 , 26, 6097-6115 | 11.4 | 2 |
| 39 | Cooperation in a generalized age-structured spatial game. <i>Journal of Theoretical Biology</i> , 2020 , 484, 109995 | 9.5 | 2 |
| 38 | Vaccine Prioritisation Using Bluetooth Exposure Notification Apps | | 2 |
| 37 | COVID-19 vaccine perceptions in the initial phases of US vaccine roll-out: an observational study on reddit.. <i>BMC Public Health</i> , 2022 , 22, 446 | 4.1 | 2 |
| 36 | The impact of truncation selection and diffusion on cooperation in spatial games. <i>Journal of Theoretical Biology</i> , 2019 , 466, 64-83 | 2.3 | 1 |
| 35 | A local optimization framework for addressing conservation conflicts in mosaic ecosystems. <i>PLoS ONE</i> , 2019 , 14, e0217812 | 3.7 | 1 |
| 34 | Unifying perspectives on cooperation under social viscosity: Comment on "Universal scaling for the dilemma strength in evolutionary games" by Z. Wang et al. <i>Physics of Life Reviews</i> , 2015 , 14, 34-6 | 2.1 | 1 |
| 33 | Socio-ecological mechanisms for persistence of native Australian grasses under pressure from nitrogen runoff and invasive species. <i>Ecological Modelling</i> , 2019 , 413, 108830 | 3 | 1 |

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| 32 | A population biological approach to the collective dynamics of countries undergoing demographic transition. <i>Journal of Theoretical Biology</i> , 2010 , 265, 167-76 | 2.3 | 1 |
| 31 | Impact of co-evolution of negative vaccine-related information, vaccination behavior and epidemic spreading in multilayer networks. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2022 , 109, 106312 | 3.7 | 1 |
| 30 | When conflicts get heated, so does the planet: social-climate dynamics under inequality | | 1 |
| 29 | Echo chambers as early warning signals of widespread vaccine refusal in social-epidemiological networks | | 1 |
| 28 | The Influence Of Social Behavior On Competition Between Virulent Pathogen Strains | | 1 |
| 27 | Go big or go home: A model-based assessment of general strategies to slow the spread of forest pests via infested firewood. <i>PLoS ONE</i> , 2020 , 15, e0238979 | 3.7 | 1 |
| 26 | Estimating COVID-19 cases and deaths prevented by non-pharmaceutical interventions, and the impact of individual actions: a retrospective model-based analysis | | 1 |
| 25 | Ideas and perspectives: Biogeochemistry & some key foci for the future. <i>Biogeosciences</i> , 2021 , 18, 3005-3018 | 4.8 | 1 |
| 24 | Population behavioural dynamics can mediate the persistence of emerging infectious diseases | | 1 |
| 23 | Stochasticity-induced persistence in coupled social-ecological systems.. <i>Journal of Theoretical Biology</i> , 2022 , 542, 111088 | 2.3 | 1 |
| 22 | The Impact of Pre-exposure Prophylaxis for Human Immunodeficiency Virus on Gonorrhea Prevalence. <i>Bulletin of Mathematical Biology</i> , 2020 , 82, 85 | 2.1 | 0 |
| 21 | A well-timed shift from local to global agreements accelerates climate change mitigation. <i>Nature Communications</i> , 2021 , 12, 2908 | 17.4 | 0 |
| 20 | Fire mitigates bark beetle outbreaks in serotinous forests.. <i>Theoretical Ecology</i> , 2021 , 14, 611-621 | 1.6 | 0 |
| 19 | Projected impact of a plant-derived vaccine on the burden of seasonal influenza in Canada. <i>Human Vaccines and Immunotherapeutics</i> , 2021 , 17, 3643-3651 | 4.4 | 0 |
| 18 | Targeted pandemic containment through identifying local contact network bottlenecks. <i>PLoS Computational Biology</i> , 2021 , 17, e1009351 | 5 | 0 |
| 17 | "Hot-spotting" to improve vaccine allocation by harnessing digital contact tracing technology: An application of percolation theory. <i>PLoS ONE</i> , 2021 , 16, e0256889 | 3.7 | 0 |
| 16 | When conflicts get heated, so does the planet: coupled social-climate dynamics under inequality. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021 , 288, 20211357 | 4.4 | 0 |
| 15 | Network structural metrics as early warning signals of widespread vaccine refusal in social-epidemiological networks. <i>Journal of Theoretical Biology</i> , 2021 , 531, 110881 | 2.3 | 0 |

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| 14 | Local Overfishing Patterns Have Regional Effects on Health of Coral, and Economic Transitions Can Promote Its Recovery.. <i>Bulletin of Mathematical Biology</i> , 2022 , 84, 46 | 2.1 | ○ |
| 13 | Estimating COVID-19 cases and deaths prevented by non-pharmaceutical interventions, and the impact of individual actions: A retrospective model-based analysis.. <i>Epidemics</i> , 2022 , 39, 100557 | 5.1 | ○ |
| 12 | Cervical cancer incidence can increase despite HPV vaccination [Author's reply]. <i>Lancet Infectious Diseases, The</i> , 2010 , 10, 595 | 25.5 | |
| 11 | Parameterizing a dynamic influenza model using longitudinal versus age-stratified case notifications yields different predictions of vaccine impacts. <i>Mathematical Biosciences and Engineering</i> , 2019 , 16, 3753-3770 | 2.1 | |
| 10 | Spatially-implicit modelling of disease-behaviour interactions in the context of non-pharmaceutical interventions. <i>Mathematical Biosciences and Engineering</i> , 2018 , 15, 461-483 | 2.1 | |
| 9 | A nested model for tuberculosis: Combining within-host and between-host processes in a single framework. <i>International Journal of Modern Physics C</i> , 2150167 | 1.1 | |
| 8 | Go big or go home: A model-based assessment of general strategies to slow the spread of forest pests via infested firewood 2020 , 15, e0238979 | | |
| 7 | Go big or go home: A model-based assessment of general strategies to slow the spread of forest pests via infested firewood 2020 , 15, e0238979 | | |
| 6 | Go big or go home: A model-based assessment of general strategies to slow the spread of forest pests via infested firewood 2020 , 15, e0238979 | | |
| 5 | Go big or go home: A model-based assessment of general strategies to slow the spread of forest pests via infested firewood 2020 , 15, e0238979 | | |
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| 1 | Go big or go home: A model-based assessment of general strategies to slow the spread of forest pests via infested firewood 2020 , 15, e0238979 | | |