

Simon A Levin

List of Publications by Year in descending order

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Version: 2024-02-01

502
papers

68,187
citations

906

116
h-index

834

245
g-index

541
all docs

541
docs citations

541
times ranked

55420
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Governance in the Face of Extreme Events: Lessons from Evolutionary Processes for Structuring Interventions, and the Need to Go Beyond. <i>Ecosystems</i> , 2022, 25, 697-711. | 3.4 | 18 |
| 2 | Fundamental limitations on efficiently forecasting certain epidemic measures in network models. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, . | 7.1 | 9 |
| 3 | Marine phytoplankton resilience may moderate oligotrophic ecosystem responses and biogeochemical feedbacks to climate change. <i>Limnology and Oceanography</i> , 2022, 67, . | 3.1 | 15 |
| 4 | Robots as models of evolving systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2120019119. | 7.1 | 10 |
| 5 | Earth stewardship: Shaping a sustainable future through interacting policy and norm shifts. <i>Ambio</i> , 2022, 51, 1907-1920. | 5.5 | 23 |
| 6 | Stepping Up: A U.S. Perspective on the Ten Steps to Responsible Inland Fisheries. <i>Fisheries</i> , 2022, 47, 68-77. | 0.8 | 0 |
| 7 | Punishment institutions selected and sustained through voting and learning. <i>Nature Sustainability</i> , 2022, 5, 578-585. | 23.7 | 4 |
| 8 | Governing sustainable transformations of urban social-ecological-technological systems. <i>Npj Urban Sustainability</i> , 2022, 2, . | 8.0 | 20 |
| 9 | Vaccination-hesitancy and global warming: distinct social challenges with similar behavioural solutions. <i>Royal Society Open Science</i> , 2022, 9, . | 2.4 | 4 |
| 10 | Understanding the coevolution of mask wearing and epidemics: A network perspective. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, . | 7.1 | 14 |
| 11 | Interacting with others while reacting to the environment. <i>Behavioral and Brain Sciences</i> , 2022, 45, . | 0.7 | 1 |
| 12 | More than ponds amid skyscrapers: Urban fisheries as multiscale human-natural systems. <i>Aquatic Ecosystem Health and Management</i> , 2022, 25, 49-58. | 0.6 | 2 |
| 13 | Ecological complexity and the biosphere: the next 30 years. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2022, 377, . | 4.0 | 14 |
| 14 | Fish and fisheries in hot water: What is happening and how do we adapt?. <i>Population Ecology</i> , 2021, 63, 17-26. | 1.2 | 35 |
| 15 | Analysis of the risk premium in the forward market for salmon. <i>Journal of Commodity Markets</i> , 2021, 21, 100122. | 2.1 | 1 |
| 16 | Resolution of Respect Robert M. May (1936-2020). <i>Bulletin of the Ecological Society of America</i> , 2021, 102, e01769. | 0.2 | 0 |
| 17 | Superinfection and the evolution of an initial asymptomatic stage. <i>Royal Society Open Science</i> , 2021, 8, 202212. | 2.4 | 4 |
| 18 | Trajectory of individual immunity and vaccination required for SARS-CoV-2 community immunity: a conceptual investigation. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20200683. | 3.4 | 15 |

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|----|--|------|-----------|
| 19 | Boat to bowl: resilience through network rewiring of a community-supported fishery amid the COVID-19 pandemic. <i>Environmental Research Letters</i> , 2021, 16, 034054. | 5.2 | 12 |
| 20 | Our future in the Anthropocene biosphere. <i>Ambio</i> , 2021, 50, 834-869. | 5.5 | 275 |
| 21 | Emergent Field-Driven Robot Swarm States. <i>Physical Review Letters</i> , 2021, 126, 108002. | 7.8 | 44 |
| 22 | Partial immunity and SARS-CoV-2 mutationsâ€™Response. <i>Science</i> , 2021, 372, 354-355. | 12.6 | 2 |
| 23 | Optimal, near-optimal, and robust epidemic control. <i>Communications Physics</i> , 2021, 4, . | 5.3 | 61 |
| 24 | Modeling Atlantic herring fisheries as multiscale human-natural systems. <i>Fisheries Research</i> , 2021, 236, 105855. | 1.7 | 4 |
| 25 | Epidemiological and evolutionary considerations of SARS-CoV-2 vaccine dosing regimes. <i>Science</i> , 2021, 372, 363-370. | 12.6 | 185 |
| 26 | Biased perceptions explain collective action deadlocks and suggest new mechanisms to prompt cooperation. <i>IScience</i> , 2021, 24, 102375. | 4.1 | 14 |
| 27 | A well-timed shift from local to global agreements accelerates climate change mitigation. <i>Nature Communications</i> , 2021, 12, 2908. | 12.8 | 2 |
| 28 | Analysis of the potential impact of durability, timing, and transmission blocking of COVID-19 vaccine on morbidity and mortality. <i>EClinicalMedicine</i> , 2021, 35, 100863. | 7.1 | 35 |
| 29 | Generalized Stoichiometry and Biogeochemistry for Astrobiological Applications. <i>Bulletin of Mathematical Biology</i> , 2021, 83, 73. | 1.9 | 12 |
| 30 | Unifying deterministic and stochastic ecological dynamics via a landscape-flux approach. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, . | 7.1 | 10 |
| 31 | On the Coevolution of Economic and Ecological Systems. <i>Annual Review of Resource Economics</i> , 2021, 13, 355-377. | 3.7 | 4 |
| 32 | Evolution of an asymptomatic first stage of infection in a heterogeneous population. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20210175. | 3.4 | 2 |
| 33 | Sunsetting as an adaptive strategy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, . | 7.1 | 3 |
| 34 | Introduction to PNAS special issue on evolutionary models of financial markets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, e2104800118. | 7.1 | 37 |
| 35 | Irrigated areas drive irrigation water withdrawals. <i>Nature Communications</i> , 2021, 12, 4525. | 12.8 | 42 |
| 36 | Vaccine nationalism and the dynamics and control of SARS-CoV-2. <i>Science</i> , 2021, 373, eabj7364. | 12.6 | 80 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | Dynamics of informal risk sharing in collective index insurance. <i>Nature Sustainability</i> , 2021, 4, 426-432. | 23.7 | 12 |
| 38 | WTO must ban harmful fisheries subsidies. <i>Science</i> , 2021, 374, 544-544. | 12.6 | 45 |
| 39 | Risk transfer policies and climate-induced immobility among smallholder farmers. <i>Nature Climate Change</i> , 2021, 11, 1046-1054. | 18.8 | 20 |
| 40 | Interindividual cooperation mediated by partisanship complicates Madison's cure for "mischiefs of faction". <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, . | 7.1 | 18 |
| 41 | Link recommendation algorithms and dynamics of polarization in online social networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, . | 7.1 | 69 |
| 42 | Segregation and clustering of preferences erode socially beneficial coordination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, . | 7.1 | 18 |
| 43 | The dynamics of political polarization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, . | 7.1 | 28 |
| 44 | Extreme temperature events will drive coral decline in the Coral Triangle. <i>Global Change Biology</i> , 2020, 26, 2120-2133. | 9.5 | 36 |
| 45 | Landscape sustainability science in the drylands: mobility, rangelands and livelihoods. <i>Landscape Ecology</i> , 2020, 35, 2433-2447. | 4.2 | 29 |
| 46 | Linking Multiscalar Fisheries Using Metacoupling Models. <i>Frontiers in Marine Science</i> , 2020, 7, . | 2.5 | 8 |
| 47 | Cutting Through the Noise: Bacterial Chemotaxis in Marine Microenvironments. <i>Frontiers in Marine Science</i> , 2020, 7, . | 2.5 | 12 |
| 48 | Quorum sensing via dynamic cytokine signaling comprehensively explains divergent patterns of effector choice among helper T cells. <i>PLoS Computational Biology</i> , 2020, 16, e1008051. | 3.2 | 11 |
| 49 | Corridors of Clarity: Four Principles to Overcome Uncertainty Paralysis in the Anthropocene. <i>BioScience</i> , 2020, 70, 1139-1144. | 4.9 | 14 |
| 50 | Immune life history, vaccination, and the dynamics of SARS-CoV-2 over the next 5 years. <i>Science</i> , 2020, 370, 811-818. | 12.6 | 210 |
| 51 | Robert May, 1936-2020: A man for all disciplines. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 23199-23201. | 7.1 | 0 |
| 52 | Economic and Behavioral Influencers of Vaccination and Antimicrobial Use. <i>Frontiers in Public Health</i> , 2020, 8, 614113. | 2.7 | 33 |
| 53 | Probabilistic Foundations of Spatial Mean-Field Models in Ecology and Applications. <i>SIAM Journal on Applied Dynamical Systems</i> , 2020, 19, 2682-2719. | 1.6 | 10 |
| 54 | Dynamics in a simple evolutionary-epidemiological model for the evolution of an initial asymptomatic infection stage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 11541-11550. | 7.1 | 28 |

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|----|---|------|-----------|
| 55 | Evolution of cooperation on temporal networks. <i>Nature Communications</i> , 2020, 11, 2259. | 12.8 | 78 |
| 56 | Combating climate change with matching-commitment agreements. <i>Scientific Reports</i> , 2020, 10, 10251. | 3.3 | 14 |
| 57 | Linking regional shifts in microbial genome adaptation with surface ocean biogeochemistry. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190254. | 4.0 | 33 |
| 58 | Social dimensions of fertility behavior and consumption patterns in the Anthropocene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 6300-6307. | 7.1 | 33 |
| 59 | Opportunities for agent-based modelling in human dimensions of fisheries. <i>Fish and Fisheries</i> , 2020, 21, 570-587. | 5.3 | 16 |
| 60 | Coalition-structured governance improves cooperation to provide public goods. <i>Scientific Reports</i> , 2020, 10, 9194. | 3.3 | 9 |
| 61 | Global Marine Fishing across Space and Time. <i>Sustainability</i> , 2020, 12, 4714. | 3.2 | 19 |
| 62 | Implications of localized charge for human influenza A H1N1 hemagglutinin evolution: Insights from deep mutational scans. <i>PLoS Computational Biology</i> , 2020, 16, e1007892. | 3.2 | 3 |
| 63 | An invitation for more research on transnational corporations and the biosphere. <i>Nature Ecology and Evolution</i> , 2020, 4, 494-494. | 7.8 | 9 |
| 64 | Special issue of the <i>Journal of Mathematical Biology</i> to honor Alan Hastings's 65th birthday. <i>Journal of Mathematical Biology</i> , 2020, 80, 1-2. | 1.9 | 0 |
| 65 | Dispersal Increases the Resilience of Tropical Savanna and Forest Distributions. <i>American Naturalist</i> , 2020, 195, 833-850. | 2.1 | 13 |
| 66 | Generating Controlled, Dynamic Chemical Landscapes to Study Microbial Behavior. <i>Journal of Visualized Experiments</i> , 2020, , . | 0.3 | 2 |
| 67 | Caring for the future can turn tragedy into comedy for long-term collective action under risk of collapse. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 12915-12922. | 7.1 | 48 |
| 68 | Asynchrony between virus diversity and antibody selection limits influenza virus evolution. <i>ELife</i> , 2020, 9, . | 6.0 | 25 |
| 69 | Active Control and Sustained Oscillations in actSIS Epidemic Dynamics. <i>IFAC-PapersOnLine</i> , 2020, 53, 807-812. | 0.9 | 3 |
| 70 | Title is missing!. , 2020, 16, e1008051. | | 0 |
| 71 | Title is missing!. , 2020, 16, e1008051. | | 0 |
| 72 | Title is missing!. , 2020, 16, e1008051. | | 0 |

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|----|---|-----|-----------|
| 73 | Title is missing!. , 2020, 16, e1008051. | | 0 |
| 74 | Stability and recovery of coral-algae systems: the importance of recruitment seasonality and grazing influence. <i>Theoretical Ecology</i> , 2019, 12, 61-72. | 1.0 | 11 |
| 75 | Cooperation in the Climate Commons. <i>Review of Environmental Economics and Policy</i> , 2019, 13, 227-247. | 7.0 | 55 |
| 76 | Consensus and polarization in competing complex contagion processes. <i>Journal of the Royal Society Interface</i> , 2019, 16, 20190196. | 3.4 | 24 |
| 77 | Effects of human-induced prey depletion on large carnivores in protected areas: Lessons from modeling tiger populations in stylized spatial scenarios. <i>Ecology and Evolution</i> , 2019, 9, 11298-11313. | 1.9 | 10 |
| 78 | Special issue of theoretical ecology to honor Alan Hastings's 65th birthday. <i>Theoretical Ecology</i> , 2019, 12, 129-130. | 1.0 | 0 |
| 79 | Bacteria push the limits of chemotactic precision to navigate dynamic chemical gradients. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 10792-10797. | 7.1 | 41 |
| 80 | Spatial patterning among savanna trees in high-resolution, spatially extensive data. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 10681-10685. | 7.1 | 30 |
| 81 | Spatial feedbacks and the dynamics of savanna and forest. <i>Theoretical Ecology</i> , 2019, 12, 237-262. | 1.0 | 20 |
| 82 | Role of economics in analyzing the environment and sustainable development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 5233-5238. | 7.1 | 128 |
| 83 | Incentivizing hospital infection control. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 6221-6225. | 7.1 | 22 |
| 84 | Perceived entertainment and recreational value motivate illegal hunting in Southwest China. <i>Biological Conservation</i> , 2019, 234, 100-106. | 4.1 | 22 |
| 85 | The architecture of robustness. , 2019, , . | | 5 |
| 86 | Dynamic analysis and decision-making in disease-behavior systems with perceptions. , 2019, , . | | 1 |
| 87 | Transnational corporations and the challenge of biosphere stewardship. <i>Nature Ecology and Evolution</i> , 2019, 3, 1396-1403. | 7.8 | 194 |
| 88 | Path-dependent institutions drive alternative stable states in conservation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 689-694. | 7.1 | 21 |
| 89 | Localized prosocial preferences, public goods, and common-pool resources. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 5305-5310. | 7.1 | 15 |
| 90 | Local, Global, Multi-Level: Market Structure and Multi-Species Fishery Dynamics. <i>Ecological Economics</i> , 2019, 156, 185-195. | 5.7 | 10 |

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|-----|---|------|-----------|
| 91 | How ecology shapes exploitation: a framework to predict the behavioural response of human and animal foragers along exploration–exploitation trade-offs. <i>Ecology Letters</i> , 2018, 21, 779-793. | 6.4 | 32 |
| 92 | On the complex dynamics of savanna landscapes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E1336-E1345. | 7.1 | 54 |
| 93 | Ecological and evolutionary dynamics of interconnectedness and modularity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 750-755. | 7.1 | 10 |
| 94 | Global increase and geographic convergence in antibiotic consumption between 2000 and 2015. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E3463-E3470. | 7.1 | 1,907 |
| 95 | From single steps to mass migration: the problem of scale in the movement ecology of the Serengeti wildebeest. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20170012. | 4.0 | 45 |
| 96 | Economic Incentives in the Socially Optimal Management of Infectious Disease: When R_0 is Not Enough. <i>EcoHealth</i> , 2018, 15, 274-289. | 2.0 | 9 |
| 97 | What is blue growth? The semantics of ‘Sustainable Development’ of marine environments. <i>Marine Policy</i> , 2018, 87, 177-179. | 3.2 | 147 |
| 98 | Conserved behavioral circuits govern high-speed decision-making in wild fish shoals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 12224-12228. | 7.1 | 52 |
| 99 | Reply to Charra et al.: Global longitudinal assessment of 2019 changes in defined daily doses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E11433-E11435. | 7.1 | 4 |
| 100 | Cascading regime shifts within and across scales. <i>Science</i> , 2018, 362, 1379-1383. | 12.6 | 220 |
| 101 | The Economics of Infectious Disease, Trade and Pandemic Risk. <i>EcoHealth</i> , 2018, 15, 241-243. | 2.0 | 15 |
| 102 | Marine phytoplankton stoichiometry mediates nonlinear interactions between nutrient supply, temperature, and atmospheric CO ₂ . <i>Biogeosciences</i> , 2018, 15, 2761-2779. | 3.3 | 24 |
| 103 | Quantifying resilience of humans and other animals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 11883-11890. | 7.1 | 204 |
| 104 | Reply to Abat et al.: Improved policies necessary to ensure an effective future for antibiotics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E8111-E8112. | 7.1 | 4 |
| 105 | Revenue-sharing clubs provide economic insurance and incentives for sustainability in common-pool resource systems. <i>Journal of Theoretical Biology</i> , 2018, 454, 205-214. | 1.7 | 17 |
| 106 | Incomplete cooperation and co-benefits: deepening climate cooperation with a proliferation of small agreements. <i>Climatic Change</i> , 2017, 144, 65-79. | 3.6 | 17 |
| 107 | Spatial heterogeneity can resolve the nitrogen paradox of tropical forests. <i>Ecology</i> , 2017, 98, 1049-1061. | 3.2 | 15 |
| 108 | Farming and public goods production in <i>Caenorhabditis elegans</i> populations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 2289-2294. | 7.1 | 25 |

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|-----|--|------|-----------|
| 109 | Marine Ecosystems as Complex Adaptive Systems: Emergent Patterns, Critical Transitions, and Public Goods. <i>Ecosystems</i> , 2017, 20, 458-476. | 3.4 | 33 |
| 110 | Maintaining cooperation in social-ecological systems:. <i>Theoretical Ecology</i> , 2017, 10, 155-165. | 1.0 | 22 |
| 111 | Robert Treat Paine III (1933â€“2016). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 6881-6882. | 7.1 | 2 |
| 112 | Shortâ€“range dispersal maintains a volatile marine metapopulation: the brown alga <i>Postelsia palmaeformis</i> . <i>Ecology</i> , 2017, 98, 1560-1573. | 3.2 | 6 |
| 113 | The growth of finfish in global open-ocean aquaculture under climate change. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20170834. | 2.6 | 69 |
| 114 | Characterizing fisheries connectivity in marine socialâ€“ecological systems. <i>ICES Journal of Marine Science</i> , 2017, 74, 2087-2096. | 2.5 | 81 |
| 115 | Reducing antimicrobial use in food animals. <i>Science</i> , 2017, 357, 1350-1352. | 12.6 | 448 |
| 116 | The pleasure of pursuit: recreational hunters in rural Southwest China exhibit low exit rates in response to declining catch. <i>Ecology and Society</i> , 2017, 22, . | 2.3 | 29 |
| 117 | Social Creation of Pro-social Preferences for Collective Action. , 2017, , 127-143. | | 10 |
| 118 | Mobility can promote the evolution of cooperation via emergent self-assortment dynamics. <i>PLoS Computational Biology</i> , 2017, 13, e1005732. | 3.2 | 28 |
| 119 | Transboundary capital and pollution flows and the emergence of regional inequalities. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2017, 22, 913-922. | 0.9 | 2 |
| 120 | A collective navigation hypothesis for homeward migration in anadromous salmonids. <i>Fish and Fisheries</i> , 2016, 17, 525-542. | 5.3 | 73 |
| 121 | Use antimicrobials wisely. <i>Nature</i> , 2016, 537, 159-161. | 27.8 | 47 |
| 122 | Slowing Down of Recovery as Generic Risk Marker for Acute Severity Transitions in Chronic Diseases. <i>Critical Care Medicine</i> , 2016, 44, 601-606. | 0.9 | 73 |
| 123 | The right incentives enable ocean sustainability successes and provide hope for the future. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 14507-14514. | 7.1 | 123 |
| 124 | Humanâ€“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. | 7.1 | 83 |
| 125 | Social norms as solutions. <i>Science</i> , 2016, 354, 42-43. | 12.6 | 476 |
| 126 | Natural search algorithms as a bridge between organisms, evolution, and ecology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 9413-9420. | 7.1 | 44 |

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|-----|--|------|-----------|
| 127 | A keystone ecologist: Robert Treat Paine, 1933–2016. <i>Ecology</i> , 2016, 97, 2905-2909. | 3.2 | 3 |
| 128 | Collective behavior as a driver of critical transitions in migratory populations. <i>Movement Ecology</i> , 2016, 4, 18. | 2.8 | 27 |
| 129 | The content and availability of information affects the evolution of social-information gathering strategies. <i>Theoretical Ecology</i> , 2016, 9, 455-476. | 1.0 | 4 |
| 130 | Robustness of norm-driven cooperation in the commons. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20152431. | 2.6 | 34 |
| 131 | Wealth reallocation and sustainability under climate change. <i>Nature Climate Change</i> , 2016, 6, 237-244. | 18.8 | 52 |
| 132 | Physical limits on bacterial navigation in dynamic environments. <i>Journal of the Royal Society Interface</i> , 2016, 13, 20150844. | 3.4 | 24 |
| 133 | Heterogeneous Preference and Local Nonlinearity in Consensus Decision Making. <i>Physical Review Letters</i> , 2016, 116, 038701. | 7.8 | 27 |
| 134 | Evolutionary dynamics of collective index insurance. <i>Journal of Mathematical Biology</i> , 2016, 72, 997-1010. | 1.9 | 6 |
| 135 | The role of phytoplankton diversity in the emergent oceanic stoichiometry. <i>Journal of Plankton Research</i> , 2016, 38, 1021-1035. | 1.8 | 39 |
| 136 | Biome-scale nitrogen fixation strategies selected by climatic constraints on nitrogen cycle. <i>Nature Plants</i> , 2015, 1, 15182. | 9.3 | 73 |
| 137 | Decreased water limitation under elevated CO ₂ amplifies potential for forest carbon sinks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 7213-7218. | 7.1 | 53 |
| 138 | A new approach to financial regulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 12543-12544. | 7.1 | 20 |
| 139 | Beyond Ebola: lessons to mitigate future pandemics. <i>The Lancet Global Health</i> , 2015, 3, e354-e355. | 6.3 | 42 |
| 140 | Termite mounds can increase the robustness of dryland ecosystems to climatic change. <i>Science</i> , 2015, 347, 651-655. | 12.6 | 202 |
| 141 | What Mathematics can do for Sustainability. <i>Bulletin of Mathematical Biology</i> , 2015, 77, 251-253. | 1.9 | 3 |
| 142 | Fitness tradeoffs between spores and nonaggregating cells can explain the coexistence of diverse genotypes in cellular slime molds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 2776-2781. | 7.1 | 63 |
| 143 | On the evolutionary interplay between dispersal and local adaptation in heterogeneous environments. <i>Evolution; International Journal of Organic Evolution</i> , 2015, 69, 1390-1405. | 2.3 | 41 |
| 144 | The potential for alternative stable states in nutrient-enriched invaded grasslands. <i>Theoretical Ecology</i> , 2015, 8, 399-417. | 1.0 | 12 |

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|-----|---|------|-----------|
| 145 | The social benefits of private infectious disease-risk mitigation. <i>Theoretical Ecology</i> , 2015, 8, 467-479. | 1.0 | 6 |
| 146 | Eluding catastrophic shifts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E1828-36. | 7.1 | 97 |
| 147 | Global trends in antimicrobial use in food animals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 5649-5654. | 7.1 | 2,521 |
| 148 | Modeling tiger population and territory dynamics using an agent-based approach. <i>Ecological Modelling</i> , 2015, 312, 347-362. | 2.5 | 56 |
| 149 | Social information use and the evolution of unresponsiveness in collective systems. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20140893. | 3.4 | 33 |
| 150 | From Management to Stewardship: Viewing Forests As Complex Adaptive Systems in an Uncertain World. <i>Conservation Letters</i> , 2015, 8, 368-377. | 5.7 | 183 |
| 151 | Implications of the spatial dynamics of fire spread for the bistability of savanna and forest. <i>Journal of Mathematical Biology</i> , 2015, 70, 329-341. | 1.9 | 48 |
| 152 | Public goods in relation to competition, cooperation, and spite. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 10838-10845. | 7.1 | 87 |
| 153 | Disease risk mitigation: The equivalence of two selective mixing strategies on aggregate contact patterns and resulting epidemic spread. <i>Journal of Theoretical Biology</i> , 2014, 363, 262-270. | 1.7 | 11 |
| 154 | An Extra Dimension to Decision-Making in Animals: The Three-way Trade-off between Speed, Effort per-Unit-Time and Accuracy. <i>PLoS Computational Biology</i> , 2014, 10, e1003937. | 3.2 | 17 |
| 155 | Bridging Disciplines To Enact Change: An Interview with Tyler Prize Laureate Simon Levin, PhD. <i>Sustainability</i> , 2014, 7, 138-139. | 0.7 | 0 |
| 156 | Impact of ocean phytoplankton diversity on phosphate uptake. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 17540-17545. | 7.1 | 93 |
| 157 | Urban ecology: advancing science and society. <i>Frontiers in Ecology and the Environment</i> , 2014, 12, 574-581. | 4.0 | 60 |
| 158 | Managing the climate commons at the nexus of ecology, behaviour and economics. <i>Nature Climate Change</i> , 2014, 4, 1057-1063. | 18.8 | 46 |
| 159 | Merging Economics and Epidemiology to Improve the Prediction and Management of Infectious Disease. <i>EcoHealth</i> , 2014, 11, 464-475. | 2.0 | 87 |
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