## Simon A Levin

# List of Publications by Year in Descending Order

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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.

51,660 106 487 220 h-index g-index citations papers 59,747 541 7.9 7.93 L-index ext. citations avg, IF ext. papers

#	Paper	IF	Citations
487	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> , <b>2022</b> , 119,	11.5	3
486	Robots as models of evolving systems <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119, e2120019119	11.5	3
485	Earth stewardship: Shaping a sustainable future through interacting policy and norm shifts <i>Ambio</i> , <b>2022</b> , 1	6.5	2
484	Stepping Up: A U.S. Perspective on the Ten Steps to Responsible Inland Fisheries. <i>Fisheries</i> , <b>2022</b> , 47, 68-77	1.1	
483	Governing sustainable transformations of urban social-ecological-technological systems. <i>Npj Urban Sustainability</i> , <b>2022</b> , 2,		2
482	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> , <b>2021</b> , 118,	11.5	9
481	Risk transfer policies and climate-induced immobility among smallholder farmers. <i>Nature Climate Change</i> , <b>2021</b> , 11, 1046-1054	21.4	4
480	WTO must ban harmful fisheries subsidies. <i>Science</i> , <b>2021</b> , 374, 544	33.3	11
479	Boat to bowl: resilience through network rewiring of a community-supported fishery amid the COVID-19 pandemic. <i>Environmental Research Letters</i> , <b>2021</b> , 16, 034054	6.2	2
478	Our future in the Anthropocene biosphere. <i>Ambio</i> , <b>2021</b> , 50, 834-869	6.5	78
477	Emergent Field-Driven Robot Swarm States. <i>Physical Review Letters</i> , <b>2021</b> , 126, 108002	7.4	10
476	Partial immunity and SARS-CoV-2 mutations-Response. <i>Science</i> , <b>2021</b> , 372, 354-355	33.3	2
475	Optimal, near-optimal, and robust epidemic control. <i>Communications Physics</i> , <b>2021</b> , 4,	5.4	17
474	Modeling Atlantic herring fisheries as multiscalar human-natural systems. <i>Fisheries Research</i> , <b>2021</b> , 236, 105855	2.3	0
473	Epidemiological and evolutionary considerations of SARS-CoV-2 vaccine dosing regimes. <i>Science</i> , <b>2021</b> , 372, 363-370	33.3	90
472	Biased perceptions explain collective action deadlocks and suggest new mechanisms to prompt cooperation. <i>IScience</i> , <b>2021</b> , 24, 102375	6.1	2
471	A well-timed shift from local to global agreements accelerates climate change mitigation. <i>Nature Communications</i> , <b>2021</b> , 12, 2908	17.4	O

#### (2021-2021)

470	Analysis of the potential impact of durability, timing, and transmission blocking of COVID-19 vaccine on morbidity and mortality. <i>EClinicalMedicine</i> , <b>2021</b> , 35, 100863	11.3	14	
469	Generalized Stoichiometry and Biogeochemistry for Astrobiological Applications. <i>Bulletin of Mathematical Biology</i> , <b>2021</b> , 83, 73	2.1	2	
468	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> , <b>2021</b> , 118,	11.5	2	
467	Evolution of an asymptomatic first stage of infection in a heterogeneous population. <i>Journal of the Royal Society Interface</i> , <b>2021</b> , 18, 20210175	4.1	1	
466	Sunsetting as an adaptive strategy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	1	
465	Fish and fisheries in hot water: What is happening and how do we adapt?. <i>Population Ecology</i> , <b>2021</b> , 63, 17-26	2.1	10	
464	Analysis of the risk premium in the forward market for salmon. <i>Journal of Commodity Markets</i> , <b>2021</b> , 21, 100122	2.4		
463	Resolution of Respect Robert M. May (1936\(\textit{D}\)020). <i>Bulletin of the Ecological Society of America</i> , <b>2021</b> , 102, e01769	0.7		
462	Superinfection and the evolution of an initial asymptomatic stage. <i>Royal Society Open Science</i> , <b>2021</b> , 8, 202212	3.3	2	
461	Epidemiological and evolutionary considerations of SARS-CoV-2 vaccine dosing regimes <b>2021</b> ,		8	
460	Trajectory of individual immunity and vaccination required for SARS-CoV-2 community immunity: a conceptual investigation. <i>Journal of the Royal Society Interface</i> , <b>2021</b> , 18, 20200683	4.1	8	
459	Irrigated areas drive irrigation water withdrawals. <i>Nature Communications</i> , <b>2021</b> , 12, 4525	17.4	8	
458	Vaccine nationalism and the dynamics and control of SARS-CoV-2. <i>Science</i> , <b>2021</b> , 373, eabj7364	33.3	19	
457	Governance in the Face of Extreme Events: Lessons from Evolutionary Processes for Structuring Interventions, and the Need to Go Beyond. <i>Ecosystems</i> , <b>2021</b> , 1-15	3.9	3	
456	Dynamics of informal risk sharing in collective index insurance. <i>Nature Sustainability</i> , <b>2021</b> , 4, 426-432	22.1	5	
455	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> , <b>2021</b> , 118,	11.5	14	
454	Segregation and clustering of preferences erode socially beneficial coordination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	10	
453	The dynamics of political polarization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	6	

452	Probabilistic Foundations of Spatial Mean-Field Models in Ecology and Applications. <i>SIAM Journal on Applied Dynamical Systems</i> , <b>2020</b> , 19, 2682-2719	2.8	4
45 <sup>1</sup>	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> , <b>2020</b> , 117, 11541-11550	11.5	14
450	Evolution of cooperation on temporal networks. <i>Nature Communications</i> , <b>2020</b> , 11, 2259	17.4	30
449	Combating climate change with matching-commitment agreements. <i>Scientific Reports</i> , <b>2020</b> , 10, 10251	4.9	7
448	Linking regional shifts in microbial genome adaptation with surface ocean biogeochemistry. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2020</b> , 375, 20190254	5.8	10
447	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> , <b>2020</b> , 117, 6300-6307	11.5	17
446	Opportunities for agent-based modelling in human dimensions of fisheries. <i>Fish and Fisheries</i> , <b>2020</b> , 21, 570-587	6	6
445	Coalition-structured governance improves cooperation to provide public goods. <i>Scientific Reports</i> , <b>2020</b> , 10, 9194	4.9	7
444	Global Marine Fishing across Space and Time. Sustainability, 2020, 12, 4714	3.6	10
443	Implications of localized charge for human influenza A H1N1 hemagglutinin evolution: Insights from deep mutational scans. <i>PLoS Computational Biology</i> , <b>2020</b> , 16, e1007892	5	2
442	An invitation for more research on transnational corporations and the biosphere. <i>Nature Ecology and Evolution</i> , <b>2020</b> , 4, 494	12.3	6
441	Dispersal Increases the Resilience of Tropical Savanna and Forest Distributions. <i>American Naturalist</i> , <b>2020</b> , 195, 833-850	3.7	6
440	Generating Controlled, Dynamic Chemical Landscapes to Study Microbial Behavior. <i>Journal of Visualized Experiments</i> , <b>2020</b> ,	1.6	1
439	Asynchrony between virus diversity and antibody selection limits influenza virus evolution. <i>ELife</i> , <b>2020</b> , 9,	8.9	12
438	Active Control and Sustained Oscillations in actSIS Epidemic Dynamics. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 807-812	0.7	1
437	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> , <b>2020</b> , 117, 129	ə <del>15:</del> 52	922
436	Landscape sustainability science in the drylands: mobility, rangelands and livelihoods. <i>Landscape Ecology</i> , <b>2020</b> , 35, 2433-2447	4.3	10
435	Linking Multiscalar Fisheries Using Metacoupling Models. Frontiers in Marine Science, 2020, 7,	4.5	4

434	Cutting Through the Noise: Bacterial Chemotaxis in Marine Microenvironments. <i>Frontiers in Marine Science</i> , <b>2020</b> , 7,	4.5	5
433	Quorum sensing via dynamic cytokine signaling comprehensively explains divergent patterns of effector choice among helper T cells. <i>PLoS Computational Biology</i> , <b>2020</b> , 16, e1008051	5	5
432	Corridors of Clarity: Four Principles to Overcome Uncertainty Paralysis in the Anthropocene. <i>BioScience</i> , <b>2020</b> , 70, 1139-1144	5.7	8
431	Immune life history, vaccination, and the dynamics of SARS-CoV-2 over the next 5 years. <i>Science</i> , <b>2020</b> , 370, 811-818	33.3	121
430	Robert May, 1936-2020: A man for all disciplines. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 23199-23201	11.5	
429	Economic and Behavioral Influencers of Vaccination and Antimicrobial Use. <i>Frontiers in Public Health</i> , <b>2020</b> , 8, 614113	6	13
428	Quorum sensing via dynamic cytokine signaling comprehensively explains divergent patterns of effector choice among helper T cells <b>2020</b> , 16, e1008051		
427	Quorum sensing via dynamic cytokine signaling comprehensively explains divergent patterns of effector choice among helper T cells <b>2020</b> , 16, e1008051		
426	Quorum sensing via dynamic cytokine signaling comprehensively explains divergent patterns of effector choice among helper T cells <b>2020</b> , 16, e1008051		
425	Quorum sensing via dynamic cytokine signaling comprehensively explains divergent patterns of effector choice among helper T cells <b>2020</b> , 16, e1008051		
424	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> , <b>2019</b> , 116, 10792-10797	,11.5	19
423	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> , <b>2019</b> , 116, 10681-10685	11.5	15
422	Spatial feedbacks and the dynamics of savanna and forest. <i>Theoretical Ecology</i> , <b>2019</b> , 12, 237-262	1.6	14
421	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> , <b>2019</b> , 116, 5233-5238	11.5	72
420	Incentivizing hospital infection control. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 6221-6225	11.5	9
419	Perceived entertainment and recreational value motivate illegal hunting in Southwest China. <i>Biological Conservation</i> , <b>2019</b> , 234, 100-106	6.2	16
418	Stability and recovery of coral-algae systems: the importance of recruitment seasonality and grazing influence. <i>Theoretical Ecology</i> , <b>2019</b> , 12, 61-72	1.6	8
417	Cooperation in the Climate Commons. <i>Review of Environmental Economics and Policy</i> , <b>2019</b> , 13, 227-247	6	22

416	Consensus and polarization in competing complex contagion processes. <i>Journal of the Royal Society Interface</i> , <b>2019</b> , 16, 20190196	4.1	14
4 <sup>1</sup> 5	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> , <b>2019</b> , 9, 11298-11313	2.8	7
414	Extreme temperature events will drive coral decline in the Coral Triangle. <i>Global Change Biology</i> , <b>2019</b> , 26, 2120	11.4	16
413	The architecture of robustness <b>2019</b> , 16-23		3
412	Transnational corporations and the challenge of biosphere stewardship. <i>Nature Ecology and Evolution</i> , <b>2019</b> , 3, 1396-1403	12.3	116
411	Path-dependent institutions drive alternative stable states in conservation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 689-694	11.5	11
410	Localized prosocial preferences, public goods, and common-pool resources. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 5305-5310	11.5	9
409	Local, Global, Multi-Level: Market Structure and Multi-Species Fishery Dynamics. <i>Ecological Economics</i> , <b>2019</b> , 156, 185-195	5.6	4
408	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> , <b>2018</b> , 21, 779-793	10	16
407	On the complex dynamics of savanna landscapes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E1336-E1345	11.5	31
406	Ecological and evolutionary dynamics of interconnectedness and modularity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 750-755	11.5	9
405	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> , <b>2018</b> , 115, E3463-E3470	) <sup>11.5</sup>	1111
404	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> , <b>2018</b> , 373,	5.8	29
403	Economic Incentives in the Socially Optimal Management of Infectious Disease: When [Formula: see text] is Not Enough. <i>EcoHealth</i> , <b>2018</b> , 15, 274-289	3.1	7
402	Reply to Abat et al.: Improved policies necessary to ensure an effective future for antibiotics.  Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E8111-E8112	2 <sup>11.5</sup>	2
401	Revenue-sharing clubs provide economic insurance and incentives for sustainability in common-pool resource systems. <i>Journal of Theoretical Biology</i> , <b>2018</b> , 454, 205-214	2.3	9
400	What is blue growth? The semantics of Bustainable Developmentlof marine environments. <i>Marine Policy</i> , <b>2018</b> , 87, 177-179	3.5	92
399	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> , <b>2018</b> , 115, 12224-12228	11.5	24

Reply to Charra et al.: Global longitudinal assessment of 2019 changes in defined daily doses. 398 Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E11433-E114 $\frac{11}{3}$ 5.5 Cascading regime shifts within and across scales. Science, 2018, 362, 1379-1383 397 128 33.3 Marine phytoplankton stoichiometry mediates nonlinear interactions between nutrient supply, 396 4.6 14 temperature, and atmospheric CO<sub&gt;2&lt;/sub&gt;. Biogeosciences, 2018, 15, 2761-2779 Incomplete cooperation and co-benefits: deepening climate cooperation with a proliferation of 395 11 4.5 small agreements. Climatic Change, 2017, 144, 65-79 Spatial heterogeneity can resolve the nitrogen paradox of tropical forests. Ecology, 2017, 98, 1049-10614.6 394 13 Farming and public goods production in populations. Proceedings of the National Academy of 11.5 393 14 Sciences of the United States of America, 2017, 114, 2289-2294 Marine Ecosystems as Complex Adaptive Systems: Emergent Patterns, Critical Transitions, and 392 23 3.9 Public Goods. Ecosystems, 2017, 20, 458-476 Maintaining cooperation in social-ecological systems:. Theoretical Ecology, 2017, 10, 155-165 391 1.6 14 Robert Treat Paine III (1933-2016). Proceedings of the National Academy of Sciences of the United 11.5 O 390 States of America, 2017, 114, 6881-6882 Short-range dispersal maintains a volatile marine metapopulation: the brown alga Postelsia 389 4.6 palmaeformis. Ecology, 2017, 98, 1560-1573 The growth of finfish in global open-ocean aquaculture under climate change. Proceedings of the 388 4.4 39 Royal Society B: Biological Sciences, 2017, 284, Characterizing fisheries connectivity in marine social@cological systems. ICES Journal of Marine 387 38 2.7 Science, **2017**, 74, 2087-2096 386 Reducing antimicrobial use in food animals. *Science*, **2017**, 357, 1350-1352 236 33.3 The pleasure of pursuit: recreational hunters in rural Southwest China exhibit low exit rates in 385 4.1 response to declining catch. Ecology and Society, 2017, 22, Mobility can promote the evolution of cooperation via emergent self-assortment dynamics. PLoS 384 5 14 Computational Biology, **2017**, 13, e1005732 383 Social Creation of Pro-social Preferences for Collective Action **2017**, 127-143 5 Transboundary capital and pollution flows and the emergence of regional inequalities. Discrete and 382 1.3 O Continuous Dynamical Systems - Series B, 2017, 22, 913-922 The role of phytoplankton diversity in the emergent oceanic stoichiometry. Journal of Plankton 381 2.2 29 Research, **2016**, 38, 1021-1035

380	A collective navigation hypothesis for homeward migration in anadromous salmonids. <i>Fish and Fisheries</i> , <b>2016</b> , 17, 525-542	6	51
379	A keystone ecologist: Robert Treat Paine, 1933-2016. <i>Ecology</i> , <b>2016</b> , 97, 2905-2909	4.6	1
378	Collective behavior as a driver of critical transitions in migratory populations. <i>Movement Ecology</i> , <b>2016</b> , 4, 18	4.6	20
377	The content and availability of information affects the evolution of social-information gathering strategies. <i>Theoretical Ecology</i> , <b>2016</b> , 9, 455-476	1.6	3
376	Robustness of norm-driven cooperation in the commons. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2016</b> , 283,	4.4	23
375	Wealth reallocation and sustainability under climate change. <i>Nature Climate Change</i> , <b>2016</b> , 6, 237-244	21.4	38
374	Physical limits on bacterial navigation in dynamic environments. <i>Journal of the Royal Society Interface</i> , <b>2016</b> , 13, 20150844	4.1	18
373	Heterogeneous Preference and Local Nonlinearity in Consensus Decision Making. <i>Physical Review Letters</i> , <b>2016</b> , 116, 038701	7.4	17
372	Evolutionary dynamics of collective index insurance. <i>Journal of Mathematical Biology</i> , <b>2016</b> , 72, 997-101	102	5
371	Use antimicrobials wisely. <i>Nature</i> , <b>2016</b> , 537, 159-61	50.4	35
37 <sup>1</sup>	Use antimicrobials wisely. <i>Nature</i> , <b>2016</b> , 537, 159-61  Slowing Down of Recovery as Generic Risk Marker for Acute Severity Transitions in Chronic Diseases. <i>Critical Care Medicine</i> , <b>2016</b> , 44, 601-6	50.4	35 56
	Slowing Down of Recovery as Generic Risk Marker for Acute Severity Transitions in Chronic	1.4	
370	Slowing Down of Recovery as Generic Risk Marker for Acute Severity Transitions in Chronic Diseases. <i>Critical Care Medicine</i> , <b>2016</b> , 44, 601-6  The right incentives enable ocean sustainability successes and provide hope for the future	1.4	56
37° 369	Slowing Down of Recovery as Generic Risk Marker for Acute Severity Transitions in Chronic Diseases. <i>Critical Care Medicine</i> , <b>2016</b> , 44, 601-6  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> , <b>2016</b> , 113, 14507-1451. Human-environment interactions in population and ecosystem health. <i>Proceedings of the National</i>	1.4 4 <sup>11.5</sup>	56 89
37° 369 368	Slowing Down of Recovery as Generic Risk Marker for Acute Severity Transitions in Chronic Diseases. <i>Critical Care Medicine</i> , <b>2016</b> , 44, 601-6  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> , <b>2016</b> , 113, 14507-14516  Human-environment interactions in population and ecosystem health. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 14502-14506	1.4 4 <sup>11.5</sup> 11.5	56 89 48
37° 369 368 367	Slowing Down of Recovery as Generic Risk Marker for Acute Severity Transitions in Chronic Diseases. <i>Critical Care Medicine</i> , <b>2016</b> , 44, 601-6  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> , <b>2016</b> , 113, 14507-14514  Human-environment interactions in population and ecosystem health. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 14502-14506  Social norms as solutions. <i>Science</i> , <b>2016</b> , 354, 42-43  Natural search algorithms as a bridge between organisms, evolution, and ecology. <i>Proceedings of</i>	1.4 4 <sup>11.5</sup> 11.5	56 89 48 314
37° 369 368 367 366	Slowing Down of Recovery as Generic Risk Marker for Acute Severity Transitions in Chronic Diseases. <i>Critical Care Medicine</i> , <b>2016</b> , 44, 601-6  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> , <b>2016</b> , 113, 14507-1451.  Human-environment interactions in population and ecosystem health. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 14502-14506  Social norms as solutions. <i>Science</i> , <b>2016</b> , 354, 42-43  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> , <b>2016</b> , 113, 9413-20	1.4 4 <sup>11.5</sup> 11.5 33.3	56 89 48 314 24

## (2014-2015)

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344	Mathematical model of adult stem cell regeneration with cross-talk between genetic and epigenetic regulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, E880-7	11.5	37
343	Global antibiotic consumption 2000 to 2010: an analysis of national pharmaceutical sales data. <i>Lancet Infectious Diseases, The</i> , <b>2014</b> , 14, 742-750	25.5	1285
342	Evolutionary comparison between viral lysis rate and latent period. <i>Journal of Theoretical Biology</i> , <b>2014</b> , 345, 32-42	2.3	25
341	Mechanistic analysis of the search behaviour of Caenorhabditis elegans. <i>Journal of the Royal Society Interface</i> , <b>2014</b> , 11, 20131092	4.1	34
340	Public goods in relation to competition, cooperation, and spite. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111 Suppl 3, 10838-45	11.5	66
339	Disease risk mitigation: the equivalence of two selective mixing strategies on aggregate contact patterns and resulting epidemic spread. <i>Journal of Theoretical Biology</i> , <b>2014</b> , 363, 262-70	2.3	9
338	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> , <b>2014</b> , 10, e1003937	5	10
337	Impact of ocean phytoplankton diversity on phosphate uptake. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 17540-5	11.5	68
336	Urban ecology: advancing science and society. Frontiers in Ecology and the Environment, 2014, 12, 574-5	i <b>8</b> ₫.5	46
335	Managing the climate commons at the nexus of ecology, behaviour and economics. <i>Nature Climate Change</i> , <b>2014</b> , 4, 1057-1063	21.4	34
334	Merging economics and epidemiology to improve the prediction and management of infectious disease. <i>EcoHealth</i> , <b>2014</b> , 11, 464-75	3.1	62
333	Cross-reactive immune responses as primary drivers of malaria chronicity. <i>Infection and Immunity</i> , <b>2014</b> , 82, 140-51	3.7	11
332	Some Perspectives on Linked Ecosystems and Socioeconomic Systems <b>2014</b> , 95-116		8
331	Decision Accuracy and the Role of Spatial Interaction in Opinion Dynamics. <i>Journal of Statistical Physics</i> , <b>2013</b> , 151, 203-217	1.5	4
330	Regime shifts in a social-ecological system. <i>Theoretical Ecology</i> , <b>2013</b> , 6, 359-372	1.6	131
329	Reciprocal insurance among Kenyan pastoralists. <i>Theoretical Ecology</i> , <b>2013</b> , 6, 173-187	1.6	16
328	The evolution of intermittent breeding. <i>Journal of Mathematical Biology</i> , <b>2013</b> , 66, 685-703	2	32
327	Social-ecological systems as complex adaptive systems: modeling and policy implications. <i>Environment and Development Economics</i> , <b>2013</b> , 18, 111-132	1.8	381

## (2012-2013)

326	Contributions of gopher mound and casting disturbances to plant community structure in a Cascade Range meadow complex. <i>Botany</i> , <b>2013</b> , 91, 555-561	1.3	13
325	Linking plant disease risk and precipitation drivers: a dynamical systems framework. <i>American Naturalist</i> , <b>2013</b> , 181, E1-16	3.7	19
324	Visual sensory networks and effective information transfer in animal groups. <i>Current Biology</i> , <b>2013</b> , 23, R709-11	6.3	238
323	Strong latitudinal patterns in the elemental ratios of marine plankton and organic matter. <i>Nature Geoscience</i> , <b>2013</b> , 6, 279-283	18.3	311
322	Competition for water and light in closed-canopy forests: a tractable model of carbon allocation with implications for carbon sinks. <i>American Naturalist</i> , <b>2013</b> , 181, 314-30	3.7	68
321	Social Norms and Global Environmental Challenges: The Complex Interaction of Behaviors, Values, and Policy. <i>BioScience</i> , <b>2013</b> , 63, 164-175	5.7	156
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4	Cascading regime shifts within and across scales		5
3	Marine Ecosystems as Complex Adaptive Systems: Emergent Patterns, Critical Transitions, and Public Goods		1

2 Modeling and Analysis of the Spread of COVID-19 Under a Multiple-Strain Model with Mutations

7

Vaccine nationalism and the dynamics and control of SARS-CoV-2

3