

# SÃ©bastien Lion

## List of Publications by Year in descending order

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Version: 2024-02-01

35  
papers

1,659  
citations

394421

19  
h-index

377865

34  
g-index

41  
all docs

41  
docs citations

41  
times ranked

1698  
citing authors

#	ARTICLE	IF	CITATIONS
1	An epiâ€evolutionary model for predicting the adaptation of sporeâ€producing pathogens to quantitative resistance in heterogeneous environments. <i>Evolutionary Applications</i> , 2022, 15, 95-110.	3.1	9
2	Targeted vaccination and the speed of SARS-CoV-2 adaptation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	16
3	Antigenic escape selects for the evolution of higher pathogen transmission and virulence. <i>Nature Ecology and Evolution</i> , 2022, 6, 51-62.	7.8	22
4	Multimorph Eco-Evolutionary Dynamics in Structured Populations. <i>American Naturalist</i> , 2022, 200, 345-372.	2.1	4
5	Evolution of classâ€structured populations in periodic environments. <i>Evolution; International Journal of Organic Evolution</i> , 2022, 76, 1674-1688.	2.3	4
6	Epidemiological and evolutionary consequences of periodicity in treatment coverage. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20203007.	2.6	8
7	Regulation of prophage induction and lysogenization by phage communication systems. <i>Current Biology</i> , 2021, 31, 5046-5051.e7.	3.9	32
8	On the evolutionary epidemiology of SARS-CoV-2. <i>Current Biology</i> , 2020, 30, R849-R857.	3.9	160
9	Variability in the durability of CRISPR-Cas immunity. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20180097.	4.0	25
10	Ecoâ€evolutionary feedbacksâ€”Theoretical models and perspectives. <i>Functional Ecology</i> , 2019, 33, 13-30.	3.6	137
11	Beyond R0 Maximisation: On Pathogen Evolution and Environmental Dimensions. <i>Trends in Ecology and Evolution</i> , 2018, 33, 458-473.	8.7	75
12	From the Price equation to the selection gradient in class-structured populations: a quasi-equilibrium route. <i>Journal of Theoretical Biology</i> , 2018, 447, 178-189.	1.7	9
13	Class Structure, Demography, and Selection: Reproductive-Value Weighting in Nonequilibrium, Polymorphic Populations. <i>American Naturalist</i> , 2018, 191, 620-637.	2.1	30
14	Theoretical Approaches in Evolutionary Ecology: Environmental Feedback as a Unifying Perspective. <i>American Naturalist</i> , 2018, 191, 21-44.	2.1	96
15	Evolutionary emergence of infectious diseases in heterogeneous host populations. <i>PLoS Biology</i> , 2018, 16, e2006738.	5.6	84
16	Ebola evolution during the 2013-2016 outbreak. <i>Peer Community in Evolutionary Biology</i> , 2018, , 100019.	0.0	0
17	Spatial evolutionary epidemiology of spreading epidemics. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20161170.	2.6	38
18	Moment equations in spatial evolutionary ecology. <i>Journal of Theoretical Biology</i> , 2016, 405, 46-57.	1.7	21

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19	Spatial structure, host heterogeneity and parasite virulence: implications for vaccine-driven evolution. <i>Ecology Letters</i> , 2015, 18, 779-789.	6.4	10
20	Spatial Structure, Transmission Modes and the Evolution of Viral Exploitation Strategies. <i>PLoS Pathogens</i> , 2015, 11, e1004810.	4.7	51
21	Beyond Mortality: Sterility As a Neglected Component of Parasite Virulence. <i>PLoS Pathogens</i> , 2015, 11, e1005229.	4.7	19
22	Quantifying the epidemic spread of Ebola virus (EBOV) in Sierra Leone using phylodynamics. <i>Virulence</i> , 2014, 5, 825-827.	4.4	25
23	Multiple infections, kin selection and the evolutionary epidemiology of parasite traits. <i>Journal of Evolutionary Biology</i> , 2013, 26, 2107-2122.	1.7	26
24	Evolution of suicide as a defence strategy against pathogens in a spatially structured environment. <i>Ecology Letters</i> , 2013, 16, 446-453.	6.4	55
25	Evolution in structured populations: beyond the kin versus group debate. <i>Trends in Ecology and Evolution</i> , 2011, 26, 193-201.	8.7	71
26	Within-host parasite cooperation and the evolution of virulence. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 3738-3747.	2.6	56
27	LIFE HISTORY, HABITAT SATURATION AND THE EVOLUTION OF FECLINDITY AND SURVIVAL ALTRUISM. <i>Evolution; International Journal of Organic Evolution</i> , 2010, 64, 1594-1606.	2.3	32
28	Are parasites "prudent" in space?. <i>Ecology Letters</i> , 2010, 13, 1245-1255.	6.4	80
29	The evolution of juvenile-adult interactions in populations structured in age and space. <i>Theoretical Population Biology</i> , 2009, 76, 132-145.	1.1	14
30	Habitat saturation and the spatial evolutionary ecology of altruism. <i>Journal of Evolutionary Biology</i> , 2009, 22, 1487-1502.	1.7	61
31	Relatedness in spatially structured populations with empty sites: An approach based on spatial moment equations. <i>Journal of Theoretical Biology</i> , 2009, 260, 121-131.	1.7	10
32	Self-structuring in spatial evolutionary ecology. <i>Ecology Letters</i> , 2008, 11, 277-295.	6.4	234
33	From Infanticide to Parental Care: Why Spatial Structure Can Help Adults Be Good Parents. <i>American Naturalist</i> , 2007, 170, E26-E46.	2.1	49
34	The evolution of parasite manipulation of host dispersal. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2006, 273, 1063-1071.	2.6	58
35	An extension to the metabolic control theory taking into account correlations between enzyme concentrations. <i>FEBS Journal</i> , 2004, 271, 4375-4391.	0.2	15