

# 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	Self-structuring in spatial evolutionary ecology. <i>Ecology Letters</i> , 2008, 11, 277-295.	6.4	234
2	On the evolutionary epidemiology of SARS-CoV-2. <i>Current Biology</i> , 2020, 30, R849-R857.	3.9	160
3	Eco-evolutionary feedbacks: Theoretical models and perspectives. <i>Functional Ecology</i> , 2019, 33, 13-30.	3.6	137
4	Theoretical Approaches in Evolutionary Ecology: Environmental Feedback as a Unifying Perspective. <i>American Naturalist</i> , 2018, 191, 21-44.	2.1	96
5	Evolutionary emergence of infectious diseases in heterogeneous host populations. <i>PLoS Biology</i> , 2018, 16, e2006738.	5.6	84
6	Are parasites prudent in space?. <i>Ecology Letters</i> , 2010, 13, 1245-1255.	6.4	80
7	Beyond R0 Maximisation: On Pathogen Evolution and Environmental Dimensions. <i>Trends in Ecology and Evolution</i> , 2018, 33, 458-473.	8.7	75
8	Evolution in structured populations: beyond the kin versus group debate. <i>Trends in Ecology and Evolution</i> , 2011, 26, 193-201.	8.7	71
9	Habitat saturation and the spatial evolutionary ecology of altruism. <i>Journal of Evolutionary Biology</i> , 2009, 22, 1487-1502.	1.7	61
10	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
11	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
12	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
13	Spatial Structure, Transmission Modes and the Evolution of Viral Exploitation Strategies. <i>PLoS Pathogens</i> , 2015, 11, e1004810.	4.7	51
14	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
15	Spatial evolutionary epidemiology of spreading epidemics. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20161170.	2.6	38
16	LIFE HISTORY, HABITAT SATURATION AND THE EVOLUTION OF FECUNDITY AND SURVIVAL ALTRUISM. <i>Evolution; International Journal of Organic Evolution</i> , 2010, 64, 1594-1606.	2.3	32
17	Regulation of prophage induction and lysogenization by phage communication systems. <i>Current Biology</i> , 2021, 31, 5046-5051.e7.	3.9	32
18	Class Structure, Demography, and Selection: Reproductive-Value Weighting in Nonequilibrium, Polymorphic Populations. <i>American Naturalist</i> , 2018, 191, 620-637.	2.1	30

#	ARTICLE	IF	CITATIONS
19	Multiple infections, kin selection and the evolutionary epidemiology of parasite traits. <i>Journal of Evolutionary Biology</i> , 2013, 26, 2107-2122.	1.7	26
20	Quantifying the epidemic spread of Ebola virus (EBOV) in Sierra Leone using phylodynamics. <i>Virulence</i> , 2014, 5, 825-827.	4.4	25
21	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
22	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
23	Moment equations in spatial evolutionary ecology. <i>Journal of Theoretical Biology</i> , 2016, 405, 46-57.	1.7	21
24	Beyond Mortality: Sterility As a Neglected Component of Parasite Virulence. <i>PLoS Pathogens</i> , 2015, 11, e1005229.	4.7	19
25	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
26	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
27	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
28	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
29	Spatial structure, host heterogeneity and parasite virulence: implications for vaccine-driven evolution. <i>Ecology Letters</i> , 2015, 18, 779-789.	6.4	10
30	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
31	An epi-evolutionary model for predicting the adaptation of spore-producing pathogens to quantitative resistance in heterogeneous environments. <i>Evolutionary Applications</i> , 2022, 15, 95-110.	3.1	9
32	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
33	Multimorph Eco-Evolutionary Dynamics in Structured Populations. <i>American Naturalist</i> , 2022, 200, 345-372.	2.1	4
34	Evolution of class-structured populations in periodic environments. <i>Evolution; International Journal of Organic Evolution</i> , 2022, 76, 1674-1688.	2.3	4
35	Ebola evolution during the 2013-2016 outbreak. <i>Peer Community in Evolutionary Biology</i> , 2018, , 100019.	0.0	0