SÃ©bastien Lion

List of Publications by Year
in descending order

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35 papers	1,659 citations	393982 19 h-index	377514 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. Evolutionary Applications, 2022, 15, 95-110.	1.5	9
2	Targeted vaccination and the speed of SARS-CoV-2 adaptation. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	16
3	Antigenic escape selects for the evolution of higher pathogen transmission and virulence. Nature Ecology and Evolution, 2022, 6, 51-62.	3.4	22
4	Multimorph Eco-Evolutionary Dynamics in Structured Populations. American Naturalist, 2022, 200, 345-372.	1.0	4
5	Evolution of classâ€structured populations in periodic environments. Evolution; International Journal of Organic Evolution, 2022, 76, 1674-1688.	1.1	4
6	Epidemiological and evolutionary consequences of periodicity in treatment coverage. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20203007.	1.2	8
7	Regulation of prophage induction and lysogenization by phage communication systems. Current Biology, 2021, 31, 5046-5051.e7.	1.8	32
8	On the evolutionary epidemiology of SARS-CoV-2. Current Biology, 2020, 30, R849-R857.	1.8	160
9	Variability in the durability of CRISPR-Cas immunity. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20180097.	1.8	25
10	Ecoâ€evolutionary feedbacksâ€”Theoretical models and perspectives. Functional Ecology, 2019, 33, 13-30.	1.7	137
11	Beyond R0 Maximisation: On Pathogen Evolution and Environmental Dimensions. Trends in Ecology and Evolution, 2018, 33, 458-473.	4.2	75
12	From the Price equation to the selection gradient in class-structured populations: a quasi-equilibrium route. Journal of Theoretical Biology, 2018, 447, 178-189.	0.8	9
13	Class Structure, Demography, and Selection: Reproductive-Value Weighting in Nonequilibrium, Polymorphic Populations. American Naturalist, 2018, 191, 620-637.	1.0	30
14	Theoretical Approaches in Evolutionary Ecology: Environmental Feedback as a Unifying Perspective. American Naturalist, 2018, 191, 21-44.	1.0	96
15	Evolutionary emergence of infectious diseases in heterogeneous host populations. PLoS Biology, 2018, 16, e2006738.	2.6	84
16	Ebola evolution during the 2013-2016 outbreak. Peer Community in Evolutionary Biology, 2018, , 100019.	0.0	0
17	Spatial evolutionary epidemiology of spreading epidemics. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20161170.	1.2	38
18	Moment equations in spatial evolutionary ecology. Journal of Theoretical Biology, 2016, 405, 46-57.	0.8	21

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19	Spatial structure, host heterogeneity and parasite virulence: implications for vaccineâ€driven evolution. Ecology Letters, 2015, 18, 779-789.	3.0	10
20	Spatial Structure, Transmission Modes and the Evolution of Viral Exploitation Strategies. PLoS Pathogens, 2015, 11, e1004810.	2.1	51
21	Beyond Mortality: Sterility As a Neglected Component of Parasite Virulence. PLoS Pathogens, 2015, 11, e1005229.	2.1	19
22	Quantifying the epidemic spread of Ebola virus (EBOV) in Sierra Leone using phylodynamics. Virulence, 2014, 5, 825-827.	1.8	25
23	Multiple infections, kin selection and the evolutionary epidemiology of parasite traits. Journal of Evolutionary Biology, 2013, 26, 2107-2122.	0.8	26
24	Evolution of suicide as a defence strategy against pathogens in a spatially structured environment. Ecology Letters, 2013, 16, 446-453.	3.0	55
25	Evolution in structured populations: beyond the kin versus group debate. Trends in Ecology and Evolution, 2011, 26, 193-201.	4.2	71
26	Within-host parasite cooperation and the evolution of virulence. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 3738-3747.	1.2	56
27	LIFE HISTORY, HABITAT SATURATION AND THE EVOLUTION OF FECUNDITY AND SURVIVAL ALTRUISM. Evolution; International Journal of Organic Evolution, 2010, 64, 1594-1606.	1.1	32
28	Are parasites â€˜prudentâ€™â€™ in space?. Ecology Letters, 2010, 13, 1245-1255.	3.0	80
29	The evolution of juvenile-adult interactions in populations structured in age and space. Theoretical Population Biology, 2009, 76, 132-145.	0.5	14
30	Habitat saturation and the spatial evolutionary ecology of altruism. Journal of Evolutionary Biology, 2009, 22, 1487-1502.	0.8	61
31	Relatedness in spatially structured populations with empty sites: An approach based on spatial moment equations. Journal of Theoretical Biology, 2009, 260, 121-131.	0.8	10
32	Selfâ€structuring in spatial evolutionary ecology. Ecology Letters, 2008, 11, 277-295.	3.0	234
33	From Infanticide to Parental Care: Why Spatial Structure Can Help Adults Be Good Parents. American Naturalist, 2007, 170, E26-E46.	1.0	49
34	The evolution of parasite manipulation of host dispersal. Proceedings of the Royal Society B: Biological Sciences, 2006, 273, 1063-1071.	1.2	58
35	An extension to the metabolic control theory taking into account correlations between enzyme concentrations. FEBS Journal, 2004, 271, 4375-4391.	0.2	15