

Bernard Cazelles

List of Publications by Year in descending order

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106
papers

5,290
citations

76326

40
h-index

95266

68
g-index

120
all docs

120
docs citations

120
times ranked

6847
citing authors

#	ARTICLE	IF	CITATIONS
1	Wavelet analysis of ecological time series. <i>Oecologia</i> , 2008, 156, 287-304.	2.0	552
2	Linking climate change to lemming cycles. <i>Nature</i> , 2008, 456, 93-97.	27.8	377
3	Time-dependent spectral analysis of epidemiological time-series with wavelets. <i>Journal of the Royal Society Interface</i> , 2007, 4, 625-636.	3.4	257
4	Nonstationary Influence of El Niño on the Synchronous Dengue Epidemics in Thailand. <i>PLoS Medicine</i> , 2005, 2, e106.	8.4	239
5	Avian influenza H5N1 viral and bird migration networks in Asia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 172-177.	7.1	169
6	Shifting patterns: malaria dynamics and rainfall variability in an African highland. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2008, 275, 123-132.	2.6	140
7	Modelling population dynamics of seabirds: importance of the effects of climate fluctuations on breeding proportions. <i>Oikos</i> , 2005, 108, 511-522.	2.7	103
8	Analysing multiple time series and extending significance testing in wavelet analysis. <i>Marine Ecology - Progress Series</i> , 2008, 359, 11-23.	1.9	93
9	Influence of spatial heterogeneity on an emerging infectious disease: the case of dengue epidemics. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2005, 272, 1171-1177.	2.6	92
10	Evidence of a shift in the cyclicity of Antarctic seabird dynamics linked to climate. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2005, 272, 887-895.	2.6	92
11	Climatic oscillations and tuna catch rates in the Indian Ocean: a wavelet approach to time series analysis. <i>Fisheries Oceanography</i> , 2007, 16, 95-104.	1.7	92
12	Estimation of CHD risk in a French working population using a modified Framingham model. <i>Journal of Clinical Epidemiology</i> , 1994, 47, 1353-1364.	5.0	91
13	Periodic climate cooling enhanced natural disasters and wars in China during AD 10â€“1900. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010, 277, 3745-3753.	2.6	89
14	Dengue Dynamics in Binh Thuan Province, Southern Vietnam: Periodicity, Synchronicity and Climate Variability. <i>PLoS Neglected Tropical Diseases</i> , 2010, 4, e747.	3.0	88
15	Increasing airline travel may facilitate co-circulation of multiple dengue virus serotypes in Asia. <i>PLoS Neglected Tropical Diseases</i> , 2017, 11, e0005694.	3.0	86
16	Reconstruction of a 1,910-y-long locust series reveals consistent associations with climate fluctuations in China. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 14521-14526.	7.1	85
17	Wavelet analysis in ecology and epidemiology: impact of statistical tests. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20130585.	3.4	84
18	Spatiotemporal Dynamics of Dengue Epidemics, Southern Vietnam. <i>Emerging Infectious Diseases</i> , 2013, 19, 945-953.	4.3	83

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19	Detection of imperfect population synchrony in an uncertain world. <i>Journal of Animal Ecology</i> , 2003, 72, 953-968.	2.8	74
20	Long-Term Species, Sexual and Individual Variations in Foraging Strategies of Fur Seals Revealed by Stable Isotopes in Whiskers. <i>PLoS ONE</i> , 2012, 7, e32916.	2.5	74
21	Complex interplays among population dynamics, environmental forcing, and exploitation in fisheries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 5420-5425.	7.1	72
22	Urbanization prolongs hantavirus epidemics in cities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 4707-4712.	7.1	72
23	The influence of geographic and climate factors on the timing of dengue epidemics in Peru, 1994-2008. <i>BMC Infectious Diseases</i> , 2011, 11, 164.	2.9	70
24	Measuring the effects of COVID-19-related disruption on dengue transmission in southeast Asia and Latin America: a statistical modelling study. <i>Lancet Infectious Diseases</i> , The, 2022, 22, 657-667.	9.1	68
25	Interannual cycles of Hantaan virus outbreaks at the human-animal interface in Central China are controlled by temperature and rainfall. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 8041-8046.	7.1	67
26	How environmental conditions impact mosquito ecology and Japanese encephalitis: An eco-epidemiological approach. <i>Environment International</i> , 2015, 79, 17-24.	10.0	63
27	Large-Scale Comparative Analysis of Pertussis Population Dynamics: Periodicity, Synchrony, and Impact of Vaccination. <i>American Journal of Epidemiology</i> , 2005, 161, 1159-1167.	3.4	57
28	Porcupine Feeding Scars and Climatic Data Show Ecosystem Effects of the Solar Cycle. <i>American Naturalist</i> , 2004, 164, 283-297.	2.1	56
29	Changes in Rodent Abundance and Weather Conditions Potentially Drive Hemorrhagic Fever with Renal Syndrome Outbreaks in Xi'an, China, 2005-2012. <i>PLoS Neglected Tropical Diseases</i> , 2015, 9, e0003530.	3.0	53
30	Regional-scale climate-variability synchrony of cholera epidemics in West Africa. <i>BMC Infectious Diseases</i> , 2007, 7, 20.	2.9	52
31	Periodic temperature-associated drought/flood drives locust plagues in China. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 823-831.	2.6	51
32	Can Human Movements Explain Heterogeneous Propagation of Dengue Fever in Cambodia?. <i>PLoS Neglected Tropical Diseases</i> , 2012, 6, e1957.	3.0	51
33	Using the Kalman filter and dynamic models to assess the changing HIV/AIDS epidemic. <i>Mathematical Biosciences</i> , 1997, 140, 131-154.	1.9	47
34	Symbolic dynamics for identifying similarity between rhythms of ecological time series. <i>Ecology Letters</i> , 2004, 7, 755-763.	6.4	47
35	Infectious Diseases, Climate Influences, and Nonstationarity. <i>PLoS Medicine</i> , 2006, 3, e328.	8.4	47
36	Animal Reservoir, Natural and Socioeconomic Variations and the Transmission of Hemorrhagic Fever with Renal Syndrome in Chenzhou, China, 2006-2010. <i>PLoS Neglected Tropical Diseases</i> , 2014, 8, e2615.	3.0	47

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37	UNIVERSAL POWER LAWS GOVERN INTERMITTENT RARITY IN COMMUNITIES OF INTERACTING SPECIES. <i>Ecology</i> , 1999, 80, 1505-1521.	3.2	44
38	Atmospheric Moisture Variability and Transmission of Hemorrhagic Fever with Renal Syndrome in Changsha City, Mainland China, 1991â€“2010. <i>PLoS Neglected Tropical Diseases</i> , 2013, 7, e2260.	3.0	44
39	Quantifying the added value of climate information in a spatio-temporal dengue model. <i>Stochastic Environmental Research and Risk Assessment</i> , 2016, 30, 2067-2078.	4.0	44
40	How predictable is chaos?. <i>Nature</i> , 1992, 355, 25-26.	27.8	43
41	Explaining rapid reinfections in multiple-wave influenza outbreaks: Tristan da Cunha 1971 epidemic as a case study. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 3635-3643.	2.6	43
42	Anti-phase regularization of coupled chaotic maps modelling bursting neurons. <i>Europhysics Letters</i> , 2001, 56, 504-509.	2.0	42
43	Anthropogenically driven environmental changes shift the ecological dynamics of hemorrhagic fever with renal syndrome. <i>PLoS Pathogens</i> , 2017, 13, e1006198.	4.7	41
44	<i>Aedes</i> mosquitoes acquire and transmit Zika virus by breeding in contaminated aquatic environments. <i>Nature Communications</i> , 2019, 10, 1324.	12.8	41
45	Detecting population heterogeneity in effects of North Atlantic Oscillations on seabird body condition: get into the rhythm. <i>Oikos</i> , 2010, 119, 1526-1536.	2.7	38
46	Accounting for non-stationarity in epidemiology by embedding time-varying parameters in stochastic models. <i>PLoS Computational Biology</i> , 2018, 14, e1006211.	3.2	38
47	Spatiotemporal variation of the association between climate dynamics and HFERS outbreaks in Eastern China during 2005-2016 and its geographic determinants. <i>PLoS Neglected Tropical Diseases</i> , 2018, 12, e0006554.	3.0	38
48	The Moran Effect and Phase Synchronization in Complex Spatial Community Dynamics. <i>American Naturalist</i> , 2001, 157, 670-676.	2.1	37
49	Interannual Variability of Human Plague Occurrence in the Western United States Explained by Tropical and North Pacific Ocean Climate Variability. <i>American Journal of Tropical Medicine and Hygiene</i> , 2010, 83, 624-632.	1.4	35
50	Hemorrhagic fever with renal syndrome in China: Mechanisms on two distinct annual peaks and control measures. <i>International Journal of Biomathematics</i> , 2018, 11, 1850030.	2.9	35
51	Transmission dynamics of re-emerging rabies in domestic dogs of rural China. <i>PLoS Pathogens</i> , 2018, 14, e1007392.	4.7	35
52	Detecting dynamic spatial correlation patterns with generalized wavelet coherence and non-stationary surrogate data. <i>Scientific Reports</i> , 2019, 9, 7389.	3.3	34
53	Identification of Chinese plague foci from long-term epidemiological data. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 8196-8201.	7.1	33
54	Teleconnection between phytoplankton dynamics in north temperate lakes and global climatic oscillation by time-frequency analysis. <i>Water Research</i> , 2019, 154, 267-276.	11.3	33

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55	Structure in the variability of the basic reproductive number (R0) for Zika epidemics in the Pacific islands. <i>ELife</i> , 2016, 5, .	6.0	33
56	Unexpected coherence and conservation. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2001, 268, 2595-2602.	2.6	30
57	Cholera Threat to Humans in Ghana Is Influenced by Both Global and Regional Climatic Variability. <i>EcoHealth</i> , 2007, 3, 223-231.	2.0	30
58	Surface water areas significantly impacted 2014 dengue outbreaks in Guangzhou, China. <i>Environmental Research</i> , 2016, 150, 299-305.	7.5	29
59	Early-life sexual segregation: ontogeny of isotopic niche differentiation in the Antarctic fur seal. <i>Scientific Reports</i> , 2016, 6, 33211.	3.3	28
60	Predictability and chaos in bird vigilant behaviour. <i>Animal Behaviour</i> , 1996, 52, 457-472.	1.9	27
61	Effects of regime shifts on the population dynamics of the grey-sided vole in Hokkaido, Japan. <i>Climate Research</i> , 2006, 32, 109-118.	1.1	27
62	Coastal biophysical processes and the biogeography of rocky intertidal species along the south-eastern Pacific. <i>Journal of Biogeography</i> , 2019, 46, 420-431.	3.0	25
63	Adaptive control of chaotic systems in a noisy environment. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1995, 196, 326-330.	2.1	23
64	Does homologous reinfection drive multiple-wave influenza outbreaks? Accounting for immunodynamics in epidemiological models. <i>Epidemics</i> , 2013, 5, 187-196.	3.0	22
65	Dynamics with riddled basins of attraction in models of interacting populations. <i>Chaos, Solitons and Fractals</i> , 2001, 12, 301-311.	5.1	21
66	Time series analysis of tuna and swordfish catches and climate variability in the Indian Ocean (1968-2003). <i>Aquatic Living Resources</i> , 2008, 21, 277-285.	1.2	21
67	Reproduction management affects breeding ecology and reproduction costs in feral urban Pigeons (<i>Columba livia</i>). <i>Canadian Journal of Zoology</i> , 2010, 88, 781-787.	1.0	20
68	Complex Synchronization Phenomena in Ecological Systems. <i>AIP Conference Proceedings</i> , 2002, , .	0.4	19
69	Self-purification in a lotic ecosystem: a model of dissolved organic carbon and benthic microorganisms dynamics. <i>Ecological Modelling</i> , 1991, 58, 91-117.	2.5	18
70	An ecological and digital epidemiology analysis on the role of human behavior on the 2014 Chikungunya outbreak in Martinique. <i>Scientific Reports</i> , 2017, 7, 5967.	3.3	18
71	Dynamics of the COVID-19 epidemic in Ireland under mitigation. <i>BMC Infectious Diseases</i> , 2021, 21, 735.	2.9	18
72	Influenza A Gradual and Epochal Evolution: Insights from Simple Models. <i>PLoS ONE</i> , 2009, 4, e7426.	2.5	18

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73	Extraction of nonlinear dynamics from short and noisy time series. <i>Chaos, Solitons and Fractals</i> , 2001, 12, 2051-2069.	5.1	17
74	French economic cycles: a wavelet analysis of French retrospective GNP series. <i>Clometrica</i> , 2009, 3, 275-300.	1.8	15
75	Environmental multi-scale effects on zooplankton inter-specific synchrony. <i>Limnology and Oceanography</i> , 2017, 62, 1355-1365.	3.1	15
76	Intrinsic and extrinsic drivers of transmission dynamics of hemorrhagic fever with renal syndrome caused by Seoul hantavirus. <i>PLoS Neglected Tropical Diseases</i> , 2019, 13, e0007757.	3.0	15
77	The relationship between rising temperatures and malaria incidence in Hainan, China, from 1984 to 2010: a longitudinal cohort study. <i>Lancet Planetary Health</i> , The, 2022, 6, e350-e358.	11.4	15
78	Comparison of stochastic and deterministic frameworks in dengue modelling. <i>Mathematical Biosciences</i> , 2019, 310, 1-12.	1.9	14
79	Parallel trends in the transmission of SARS-CoV-2 and retail/recreation and public transport mobility during non-lockdown periods. <i>International Journal of Infectious Diseases</i> , 2021, 104, 693-695.	3.3	14
80	Temporal Variability of MODIS Phenological Indices in the Temperate Rainforest of Northern Patagonia. <i>Remote Sensing</i> , 2018, 10, 956.	4.0	13
81	Predictability, chaos and coordination in bird vigilant behaviour. <i>Animal Behaviour</i> , 1999, 57, 497-500.	1.9	11
82	A mechanistic and data-driven reconstruction of the time-varying reproduction number: Application to the COVID-19 epidemic. <i>PLoS Computational Biology</i> , 2021, 17, e1009211.	3.2	11
83	Pathogens trigger top-down climate forcing on ecosystem dynamics. <i>Oecologia</i> , 2016, 181, 519-532.	2.0	10
84	Dengue modeling in rural Cambodia: Statistical performance versus epidemiological relevance. <i>Epidemics</i> , 2019, 26, 43-57.	3.0	10
85	Long-term persistence of monotypic dengue transmission in small size isolated populations, French Polynesia, 1978-2014. <i>PLoS Neglected Tropical Diseases</i> , 2020, 14, e0008110.	3.0	9
86	Blowout bifurcation with non-normal parameters in population dynamics. <i>Physical Review E</i> , 2001, 64, 032901.	2.1	8
87	The niche reduction approach: an opportunity for optimal control of infectious diseases in low-income countries?. <i>BMC Public Health</i> , 2014, 14, 753.	2.9	8
88	Interpretation of interannual variability in long-term aquatic ecological surveys. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2020, 77, 894-903.	1.4	8
89	Adaptive synchronization of globally coupled chaotic oscillators using control in noisy environments. <i>Physica D: Nonlinear Phenomena</i> , 1997, 103, 452-465.	2.8	7
90	Coupled Biospheric Synchrony of the Coastal Temperate Ecosystem in Northern Patagonia: A Remote Sensing Analysis. <i>Remote Sensing</i> , 2019, 11, 2092.	4.0	7

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91	Ecological Dynamics: Integrating Empirical, Statistical, and Analytical Methods. Trends in Ecology and Evolution, 2020, 35, 1090-1099.	8.7	7
92	Patterns of variations in large pelagic fish: A comparative approach between the Indian and the Atlantic Oceans. Progress in Oceanography, 2010, 86, 276-282.	3.2	6
93	Universal Power Laws Govern Intermittent Rarity in Communities of Interacting Species. Ecology, 1999, 80, 1505.	3.2	6
94	Malaria elimination on Hainan Island despite climate change. Communications Medicine, 2022, 2, .	4.2	5
95	Coherence of dengue incidence and climate in the wet and dry zones of Sri Lanka. Science of the Total Environment, 2020, 724, 138269.	8.0	4
96	Stochastic Epidemic Models inference and diagnosis with Poisson Random Measure Data Augmentation. Mathematical Biosciences, 2021, 335, 108583.	1.9	4
97	Climatic Regulation of Vegetation Phenology in Protected Areas along Western South America. Remote Sensing, 2021, 13, 2590.	4.0	4
98	Synchronization of a Network of Chaotic Neurons Using Adaptive Control in Noisy Environment. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1998, 08, 1821-1830.	1.7	3
99	Comment on "Dynamical mechanism for coexistence of dispersing species without trade-offs in spatially extended ecological systems". Physical Review E, 2002, 66, 013901.	2.1	3
100	NOISE-INDUCED SYNCHRONIZATION IN MULTITROPHIC CHAOTIC ECOLOGICAL SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 1779-1788.	1.7	3
101	Major urban centers have weak influence on the timing of dengue epidemics in Southeast Asia. International Journal of Infectious Diseases, 2014, 21, 217.	3.3	3
102	Spatiotemporal variation of the association between sea surface temperature and chlorophyll in global ocean during 2002-2019 based on a novel WCA-BME approach. International Journal of Applied Earth Observation and Geoinformation, 2021, 105, 102620.	2.8	2
103	Changes in biologically controlled carbon fluxes in a small stream following continuous supply of excess organic load. Hydrobiologia, 1990, 192, 123-141.	2.0	1
104	Adaptive control of chaotic systems in a noisy environment. Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 196, 326-330.	2.1	1
105	Resynchronisation of globally coupled chaotic oscillators using adaptive control. Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 210, 95-100.	2.1	0
106	Spatial and temporal dynamics of dengue in southern Vietnam. International Journal of Infectious Diseases, 2012, 16, e13-e14.	3.3	0