Catherine Linard

List of Publications by Year
in descending order

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68 papers	5,413 citations	136740 32 h-index	102304 66 g-index
79 all docs	79 docs citations	79 times ranked	7071 citing authors

#	Article	IF	Citations
1	Past and future spread of the arbovirus vectors Aedes aegypti and Aedes albopictus. Nature Microbiology, 2019, 4, 854-863.	5.9	699
2	Disaggregating Census Data for Population Mapping Using Random Forests with Remotely-Sensed and Ancillary Data. PLoS ONE, 2015, 10, e0107042.	1.1	655
3	Dynamic population mapping using mobile phone data. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15888-15893.	3.3	633
4	Population Distribution, Settlement Patterns and Accessibility across Africa in 2010. PLoS ONE, 2012, 7, e31743.	1.1	448
5	Pathogenic landscapes: Interactions between land, people, disease vectors, and their animal hosts. International Journal of Health Geographics, 2010, 9, 54.	1.2	290
6	High Resolution Population Distribution Maps for Southeast Asia in 2010 and 2015. PLoS ONE, 2013, 8, e55882.	1.1	211
7	High-resolution gridded population datasets for Latin America and the Caribbean in 2010, 2015, and 2020. Scientific Data, 2015, 2, 150045.	2.4	156
8	Geographical random forests: a spatial extension of the random forest algorithm to address spatial heterogeneity in remote sensing and population modelling. Geocarto International, 2021, 36, 121-136.	1.7	149
9	Predicting the risk of avian influenza A H7N9 infection in live-poultry markets across Asia. Nature Communications, 2014, 5, 4116.	5.8	145
10	Modelling spatial patterns of urban growth in Africa. Applied Geography, 2013, 44, 23-32.	1.7	141
11	Spatiotemporal patterns of population in mainland China, 1990 to 2010. Scientific Data, 2016, 3, 160005.	2.4	115
12	Determinants of the geographic distribution of Puumala virus and Lyme borreliosis infections in Belgium. International Journal of Health Geographics, 2007, 6, 15.	1.2	109
13	Income Disparities and the Global Distribution of Intensively Farmed Chicken and Pigs. PLoS ONE, 2015, 10, e0133381.	1.1	98
14	Mapping populations at risk: improving spatial demographic data for infectious disease modeling and metric derivation. Population Health Metrics, 2012, 10, 8.	1.3	88
15	Large-scale spatial population databases in infectious disease research. International Journal of Health Geographics, 2012, 11, 7.	1.2	80
16	Assessing the use of global land cover data for guiding large area population distribution modelling. Geo Journal, 2011, 76, 525-538.	1.7	79
17	A high resolution spatial population database of Somalia for disease risk mapping. International Journal of Health Geographics, 2010, 9, 45.	1.2	64
18	The effects of spatial population dataset choice on estimates of population at risk of disease. Population Health Metrics, 2011, 9, 4.	1.3	63

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19	Environmental conditions and Puumala virus transmission in Belgium. International Journal of Health Geographics, 2007, 6, 55.	1.2	62
20	Using Local Climate Zones in Sub-Saharan Africa to tackle urban health issues. Urban Climate, 2019, 27, 227-242.	2.4	61
21	A multi-agent simulation to assess the risk of malaria re-emergence in southern France. Ecological Modelling, 2009, 220, 160-174.	1.2	55
22	The impact of urbanization and population density on childhood Plasmodium falciparum parasite prevalence rates in Africa. Malaria Journal, 2017, 16, 49.	0.8	51
23	Examining the correlates and drivers of human population distributions across low- and middle-income countries. Journal of the Royal Society Interface, 2017, 14, 20170401.	1.5	51
24	Sub-national mapping of population pyramids and dependency ratios in Africa and Asia. Scientific Data, 2017, 4, 170089.	2.4	46
25	Global mapping of highly pathogenic avian influenza H5N1 and H5Nx clade 2.3.4.4 viruses with spatial cross-validation. ELife, 2016, 5, .	2.8	45
26	Spatial analysis and characteristics of pig farming in Thailand. BMC Veterinary Research, 2016, 12, 218.	0.7	45
27	Mapping intra-urban malaria risk using high resolution satellite imagery: a case study of Dar es Salaam. International Journal of Health Geographics, 2016, 15, 26.	1.2	45
28	Using remote sensing to map larval and adult populations of Anopheles hyrcanus (Diptera: Culicidae) a potential malaria vector in Southern France. International Journal of Health Geographics, 2008, 7, 9.	1.2	43
29	Millennium development health metrics: where do Africaâ€™s children and women of childbearing age live?. Population Health Metrics, 2013, 11, 11.	1.3	39
30	Need for an Integrated Deprived Area â€œSlumâ€•Mapping System (IDEAMAPS) in Low- and Middle-Income Countries (LMICs). Social Sciences, 2020, 9, 80.	0.7	38
31	Population mapping of poor countries. Nature, 2011, 474, 36-36.	13.7	37
32	People and Pixels 20Âyears later: the current data landscape and research trends blending population and environmental data. Population and Environment, 2019, 41, 209-234.	1.3	35
33	Dynamic denominators: the impact of seasonally varying population numbers on disease incidence estimates. Population Health Metrics, 2016, 14, 35.	1.3	32
34	Brucella-positive raw milk cheese sold on the inner European market: A public health threat due to illegal import?. Food Control, 2019, 100, 130-137.	2.8	31
35	Supervised Classification of Built-Up Areas in Sub-Saharan African Cities Using Landsat Imagery and OpenStreetMap. Remote Sensing, 2018, 10, 1145.	1.8	29
36	Comparisons of two global built area land cover datasets in methods to disaggregate human population in eleven countries from the global South. International Journal of Digital Earth, 2020, 13, 78-100.	1.6	27

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37	Malaria risk assessment and mapping using satellite imagery and boosted regression trees in the Peruvian Amazon. Scientific Reports, 2019, 9, 15173.	1.6	26
38	Emerging challenges of infectious diseases as a feature of land systems. Current Opinion in Environmental Sustainability, 2019, 38, 31-36.	3.1	25
39	Exposure to green space and pollen allergy symptom severity: A case-crossover study in Belgium. Science of the Total Environment, 2021, 781, 146682.	3.9	25
40	Improving Urban Population Distribution Models with Very-High Resolution Satellite Information. Data, 2019, 4, 13.	1.2	23
41	Spatial characterization of colonies of the flying fox bat, a carrier of Nipah Virus in Thailand. BMC Veterinary Research, 2015, 11, 81.	0.7	20
42	Risk of Malaria Reemergence in Southern France: Testing Scenarios with a Multiagent Simulation Model. EcoHealth, 2009, 6, 135-147.	0.9	19
43	Quantifying the effects of using detailed spatial demographic data on health metrics: a systematic analysis for the AfriPop, AsiaPop, and AmeriPop projects. Lancet, The, 2013, 381, S142.	6.3	18
44	Spatio-temporal monitoring and modelling of birch pollen levels in Belgium. Aerobiologia, 2019, 35, 703-717.	0.7	18
45	Annually modelling built-settlements between remotely-sensed observations using relative changes in subnational populations and lights at night. Computers, Environment and Urban Systems, 2020, 80, 101444.	3.3	18
46	Spatio-temporal epidemiology of highly pathogenic avian influenza (subtype H5N1) in poultry in eastern India. Spatial and Spatio-temporal Epidemiology, 2014, 11, 45-57.	0.9	17
47	Modelling changing population distributions: an example of the Kenyan Coast, 1979â€“2009. International Journal of Digital Earth, 2017, 10, 1017-1029.	1.6	17
48	Mapping 20 Years of Urban Expansion in 45 Urban Areas of Sub-Saharan Africa. Remote Sensing, 2021, 13, 525.	1.8	17
49	Extending Data for Urban Health Decision-Making: a Menu of New and Potential Neighborhood-Level Health Determinants Datasets in LMICs. Journal of Urban Health, 2019, 96, 514-536.	1.8	16
50	H7N9 and H5N1 avian influenza suitability models for China: accounting for new poultry and live-poultry markets distribution data. Stochastic Environmental Research and Risk Assessment, 2017, 31, 393-402.	1.9	15
51	An evaluation of species distribution models to estimate tree diversity at genus level in a heterogeneous urban-rural landscape. Landscape and Urban Planning, 2020, 198, 103770.	3.4	12
52	Modelling the Wealth Index of Demographic and Health Surveys within Cities Using Very High-Resolution Remotely Sensed Information. Remote Sensing, 2019, 11, 2543.	1.8	11
53	Diversity of urban growth patterns in Sub-Saharan Africa in the 1960â€“2010 period. African Geographical Review, 2020, 39, 45-57.	0.6	11
54	Modelling and mapping the intra-urban spatial distribution of Plasmodium falciparum parasite rate using very-high-resolution satellite derived indicators. International Journal of Health Geographics, 2020, 19, 38.	1.2	11

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55	Residential green space types, allergy symptoms and mental health in a cohort of tree pollen allergy patients. Landscape and Urban Planning, 2021, 210, 104070.	3.4	11
56	Mobile Phone Data for Urban Climate Change Adaptation: Reviewing Applications, Opportunities and Key Challenges. Sustainability, 2020, 12, 1501.	1.6	9
57	Transformative Urban Changes of Beijing in the Decade of the 2000s. Remote Sensing, 2020, 12, 652.	1.8	7
58	Clade-level Spatial Modelling of HPAI H5N1 Dynamics in the Mekong Region Reveals New Patterns and Associations with Agro-Ecological Factors. Scientific Reports, 2016, 6, 30316.	1.6	6
59	Mapping abundance distributions of allergenic tree species in urbanized landscapes: A nation-wide study for Belgium using forest inventory and citizen science data. Landscape and Urban Planning, 2022, 218, 104286.	3.4	6
60	Automated supervised classification of Ouagadougou built-up areas in Landsat scenes using OpenStreetMap. , 2017, , .		5
61	Association between local airborne tree pollen composition and surrounding land cover across different spatial scales in Northern Belgium. Urban Forestry and Urban Greening, 2021, 61, 127082.	2.3	5
62	Residential green space in association with the methylation status in a CpG site within the promoter region of the placental serotonin receptor HTR2A. Epigenetics, 2022, 17, 1863-1874.	1.3	4
63	An Application of Geographical Random Forests for Population Estimation in Dakar, Senegal using Very-High-Resolution Satellite Imagery. , 2019, , .		3
64	Neighbourhood-level housing quality indices for health assessment in Dakar, Senegal. Geospatial Health, 2021, 16, .	0.3	3
65	Fusion Scheme for Automatic and Large-Scaled Built-up Mapping. , 2018, , .		2
66	SARS-CoV-2 emergence and diffusion: a new disease manifesting humanâ€“environment interactions and a global geography of health. Current Opinion in Environmental Sustainability, 2020, 46, 43-45.	3.1	2
67	Modalities and preferred routes of geographic spread of cholera from endemic areas in eastern Democratic Republic of the Congo. PLoS ONE, 2022, 17, e0263160.	1.1	2
68	Worldpop - Fusion of Earth and Big Data for Intraurban Population Mapping. , 2018, , .		0