Joaquim Fort

List of Publications by Year
in descending order

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62 papers	2,128 citations	257101 24 h-index	243296 44 g-index
62 all docs	62 docs citations	62 times ranked	1851 citing authors

#	Article	IF	Citations
1	Tracing the Origin and Spread of Agriculture in Europe. PLoS Biology, 2005, 3, e410.	2.6	314
2	Time-Delayed Theory of the Neolithic Transition in Europe. Physical Review Letters, 1999, 82, 867-870.	2.9	181
3	Wavefronts in time-delayed reaction-diffusion systems. Theory and comparison to experiment. Reports on Progress in Physics, 2002, 65, 895-954.	8.1	117
4	Synthesis between demic and cultural diffusion in the Neolithic transition in Europe. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 18669-18673.	3.3	114
5	Time-Delayed Spread of Viruses in Growing Plaques. Physical Review Letters, 2002, 89, 178101.	2.9	106
6	Local thermodynamic derivation of Young's equation. Journal of Colloid and Interface Science, 2004, 272, 420-429.	5.0	78
7	Modeling the role of voyaging in the coastal spread of the Early Neolithic in the West Mediterranean. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 897-902.	3.3	78
8	Transport on fractal river networks: Application to migration fronts. Theoretical Population Biology, 2006, 69, 88-93.	0.5	76
9	Demic and cultural diffusion propagated the Neolithic transition across different regions of Europe. Journal of the Royal Society Interface, 2015, 12, 20150166.	1.5	71
10	A mathematical approach to virus therapy of glioblastomas. Biology Direct, 2016, 11, 1.	1.9	62
11	Palaeolithic Populations and Waves of Advance. Cambridge Archaeological Journal, 2004, 14, 53-61.	0.6	59
12	Progress in front propagation research. Reports on Progress in Physics, 2008, 71, 086001.	8.1	53
13	Speed of wave-front solutions to hyperbolic reaction-diffusion equations. Physical Review E, 1999, 60, 5231-5243.	0.8	52
14	Reaction-diffusion waves of advance in the transition to agricultural economics. Physical Review E, 1999, 60, 5894-5901.	0.8	51
15	Cultural Diffusion Was the Main Driving Mechanism of the Neolithic Transition in Southern Africa. PLoS ONE, 2014, 9, e113672.	1.1	50
16	The Neolithic Transition in the Iberian Peninsula: Data Analysis and Modeling. Journal of Archaeological Method and Theory, 2014, 21, 447-460.	1.4	50
17	Multidelayed random walks: Theory and application to the neolithic transition in Europe. Physical Review E, 2004, 70, 031913.	0.8	47
18	Modelling the Neolithic Transition in the Near East and Europe. American Antiquity, 2012, 77, 203-219.	0.6	46

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19	THE ROLE OF THE DELAY TIME IN THE MODELING OF BIOLOGICAL RANGE EXPANSIONS. Ecology, 2004, 85, 258-264.	1.5	39
20	Realistic dispersion kernels applied to cohabitation reactionâ€“dispersion equations. Journal of Statistical Mechanics: Theory and Experiment, 2008, 2008, P10012.	0.9	37
21	Fronts from integrodifference equations and persistence effects on the Neolithic transition. Physical Review E, 2007, 76, 031913.	0.8	32
22	Language extinction and linguistic fronts. Journal of the Royal Society Interface, 2014, 11, 20140028.	1.5	29
23	Space Competition and Time Delays in Human Range Expansions. Application to the Neolithic Transition. PLoS ONE, 2012, 7, e51106.	1.1	28
24	Population expansion in the western Pacific (Austronesia): a wave of advance model. Antiquity, 2003, 77, 520-530.	0.5	26
25	The ancient cline of haplogroup K implies that the Neolithic transition in Europe was mainly demic. Scientific Reports, 2017, 7, 11229.	1.6	23
26	Dynamical evolution of discrete epidemic models. Physica A: Statistical Mechanics and Its Applications, 2000, 284, 309-317.	1.2	21
27	Fronts from complex two-dimensional dispersal kernels: Theory and application to Reidâ€™s paradox. Journal of Applied Physics, 2007, 101, 094701.	1.1	20
28	Modelling the effect of Mesolithic populations on the slowdown of the Neolithic transition. Journal of Archaeological Science, 2012, 39, 3671-3676.	1.2	20
29	Spatial dimensions increase the effect of cultural drift. Journal of Archaeological Science, 2011, 38, 1294-1299.	1.2	19
30	The spread of domesticated rice in eastern and southeastern Asia was mainly demic. Journal of Archaeological Science, 2019, 101, 123-130.	1.2	18
31	Anisotropic dispersion, space competition and the slowdown of the Neolithic transition. New Journal of Physics, 2010, 12, 123002.	1.2	17
32	Estimating the relative importance of demic and cultural diffusion in the spread of the Neolithic in Scandinavia. Journal of the Royal Society Interface, 2018, 15, 20180597.	1.5	17
33	A simple scaling approach to Mott conductivity. Physica B: Condensed Matter, 2004, 344, 62-65.	1.3	15
34	Time-delayed fronts from biased random walks. New Journal of Physics, 2007, 9, 234-234.	1.2	13
35	Assessing the importance of cultural diffusion in the Bantu spread into southeastern Africa. PLoS ONE, 2019, 14, e0215573.	1.1	13
36	Virus infection speeds: Theory versus experiment. Physical Review E, 2010, 82, 061905.	0.8	11

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37	A Comment on Amplification and Spread of Viruses in a Growing Plaque. Journal of Theoretical Biology, 2002, 214, 515-518.	0.8	10
38	Time-delayed reaction-diffusion fronts. Physical Review E, 2009, 80, 057103.	0.8	10
39	Vertical cultural transmission effects on demic front propagation: Theory and application to the Neolithic transition in Europe. Physical Review E, 2011, 83, 056124.	0.8	10
40	Can a linguistic serial founder effect originating in Africa explain the worldwide phonemic cline?. Journal of the Royal Society Interface, 2016, 13, 20160185.	1.5	10
41	Front Speed of Language Replacement. Human Biology, 2012, 84, 755-772.	0.4	9
42	Accelerated tumor invasion under non-isotropic cell dispersal in glioblastomas. New Journal of Physics, 2013, 15, 055001.	1.2	9
43	Modeling Demic and Cultural Diffusion: An Introduction. Human Biology, 2015, 87, 141.	0.4	7
44	Bounds for the speed of combustion flames: The effect of mass diffusion. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 1987-1998.	1.2	6
45	Biased dispersal can explain fast human range expansions. Scientific Reports, 2020, 10, 9036.	1.6	6
46	Irreversible thermodynamics of Poisson processes with reaction. Physical Review E, 1999, 60, 6168-6171.	0.8	5
47	Age-dependent mortality, fecundity and mobility effects on front speeds: theory and application to the Neolithic transition. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, P11006.	0.9	5
48	The Neolithic Transition: Diffusion of People or Diffusion of Culture?. , 2018, , 313-331.		5
49	A serial founder effect model of phonemic diversity based on phonemic loss in low-density populations. PLoS ONE, 2018, 13, e0198346.	1.1	5
50	Long-distance dispersal effects and Neolithic waves of advance. Journal of Archaeological Science, 2020, 119, 105148.	1.2	5
51	Generalized analytical expressions for the burning velocity in a combustion model with non-constant transport coefficients and several specific heats. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 4959-4972.	1.2	4
52	Cohabitation reactionâ€“diffusion model for virus focal infections. Physica A: Statistical Mechanics and Its Applications, 2014, 416, 611-619.	1.2	4
53	On Approximate Solutions to the Wavefront Speed Problem. Journal of Statistical Physics, 2002, 107, 805-820.	0.5	3
54	Front propagation and cultural transmission. Theory and application to Neolithic transitions. Chaos, Solitons and Fractals, 2021, 148, 111060.	2.5	3

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55	The Spread of Agriculture: Quantitative Laws in Prehistory?. Computational Social Sciences, 2021, , 17-28.	0.4	3
56	Lag-driven motion in front propagation. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 4946-4955.	1.2	2
57	Luigi Luca Cavalli-Sforza (1922â€“2018). Human Biology, 2018, 90, 89.	0.4	2
58	Prehistoric spread rates and genetic clines. , 0, , .		2
59	Electric fire hazards at home and in the classroom. Physics Education, 2013, 48, 558-560.	0.3	0
60	Modelling Cultural Shift: Application to Processes of Language Displacement. Computational Social Sciences, 2016, , 219-232.	0.4	0
61	Population Spread and Cultural Transmission in Neolithic Transitions. Computational Social Sciences, 2016, , 189-197.	0.4	0
62	Prehistoric spread rates and genetic clines. , 0, , .		0