Philip Greulich

List of Publications by Year
in descending order

22 papers	851 citations	687363 13 h-index	752698 20 g-index
28 all docs	28 docs citations	28 times ranked	900 citing authors

#	Article	IF	Citations
1	Differentiation imbalance in single oesophageal progenitor cells causes clonal immortalization andÂfieldÂchange. Nature Cell Biology, 2014, 16, 612-619.	10.3	154
2	Growthâ€dependent bacterial susceptibility to ribosomeâ€targeting antibiotics. Molecular Systems Biology, 2015, 11, 796.	7.2	123
3	Mutational Pathway Determines Whether Drug Gradients Accelerate Evolution of Drug-Resistant Cells. Physical Review Letters, 2012, 109, 088101.	7.8	100
4	Mixed population of competing totally asymmetric simple exclusion processes with a shared reservoir of particles. Physical Review E, 2012, 85, 011142.	2.1	66
5	Intracellular transport by single-headed kinesin KIF1A: Effects of single-motor mechanochemistry and steric interactions. Physical Review E, 2007, 75, 041905.	2.1	62
6	A single dividing cell population with imbalanced fate drives oesophageal tumour growth. Nature Cell Biology, 2016, 18, 967-978.	10.3	57
7	Dynamic heterogeneity as a strategy of stem cell self-renewal. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7509-7514.	7.1	54
8	Phase diagram and edge effects in the ASEP with bottlenecks. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 1972-1986.	2.6	45
9	Quantitative modelling predicts the impact of DNA methylation on RNA polymerase II traffic. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 14995-15000.	7.1	42
10	Single-bottleneck approximation for driven lattice gases with disorder and open boundary conditions. Journal of Statistical Mechanics: Theory and Experiment, 2008, 2008, P04009.	2.3	33
11	Predicting the dynamics of bacterial growth inhibition by ribosome-targeting antibiotics. Physical Biology, 2017, 14, 065005.	1.8	23
12	Disordered driven lattice gases with boundary reservoirs and Langmuir kinetics. Physical Review E, 2009, 79, 031107.	2.1	19
13	Totally asymmetric exclusion process with site-wise dynamic disorder. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 065002.	2.1	18
14	Intra-cellular traffic: bio-molecular motors on filamentary tracks. European Physical Journal B, 2008, 64, 593-600.	1.5	13
15	Universal principles of lineage architecture and stem cell identity in renewing tissues. Development (Cambridge), 2021, 148, .	2.5	11
16	Universality of clonal dynamics poses fundamental limits to identify stem cell self-renewal strategies. ELife, 2020, 9, .	6.0	7
17	Stability and steady state of complex cooperative systems: a diakoptic approach. Royal Society Open Science, 2019, 6, 191090.	2.4	6
18	The physics of cell fate. , 2020, , 189-206.		5

#	Article	IF	Citations
19	Boundary-induced orientation of dynamic filament networks and vesicle agglomerations. Physical Review E, 2011, 84, 060902.	2.1	3
20	Mathematical Modelling of Clonal Stem Cell Dynamics. Methods in Molecular Biology, 2019, 1975, 107-129.	0.9	3
21	Extreme value statistics of mutation accumulation in renewing cell populations. Physical Review E, 2018, 98, .	2.1	2
22	Statistical Properties of Disordered Driven Lattice Gases with Open Boundaries. , 2009, , 307-313.		0