

M Carmen Romano

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,365
citations

304743

22
h-index

361022

35
g-index

39
all docs

39
docs citations

39
times ranked

1319
citing authors

#	ARTICLE	IF	CITATIONS
1	Multivariate recurrence plots. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2004, 330, 214-223.	2.1	132
2	How much information is contained in a recurrence plot?. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2004, 330, 343-349.	2.1	126
3	Ribosome Traffic on mRNAs Maps to Gene Ontology: Genome-wide Quantification of Translation Initiation Rates and Polysome Size Regulation. <i>PLoS Computational Biology</i> , 2013, 9, e1002866.	3.2	112
4	Estimation of the direction of the coupling by conditional probabilities of recurrence. <i>Physical Review E</i> , 2007, 76, 036211.	2.1	108
5	Mixed population of competing totally asymmetric simple exclusion processes with a shared reservoir of particles. <i>Physical Review E</i> , 2012, 85, 011142.	2.1	66
6	Distinguishing Direct from Indirect Interactions in Oscillatory Networks with Multiple Time Scales. <i>Physical Review Letters</i> , 2010, 104, 038701.	7.8	65
7	Integrative Model of Oxidative Stress Adaptation in the Fungal Pathogen <i>Candida albicans</i> . <i>PLoS ONE</i> , 2015, 10, e0137750.	2.5	57
8	Queueing Phase Transition: Theory of Translation. <i>Physical Review Letters</i> , 2009, 102, 198104.	7.8	49
9	The Dynamics of Supply and Demand in mRNA Translation. <i>PLoS Computational Biology</i> , 2011, 7, e1002203.	3.2	46
10	Synchronization Analysis of Coupled Noncoherent Oscillators. <i>Nonlinear Dynamics</i> , 2006, 44, 135-149.	5.2	41
11	Characterization of stickiness by means of recurrence. <i>Chaos</i> , 2007, 17, 043101.	2.5	35
12	Synthetic biology routes to bio-artificial intelligence. <i>Essays in Biochemistry</i> , 2016, 60, 381-391.	4.7	34
13	Novel mRNA-specific effects of ribosome drop-off on translation rate and polysome profile. <i>PLoS Computational Biology</i> , 2017, 13, e1005555.	3.2	33
14	A max-plus model of ribosome dynamics during mRNA translation. <i>Journal of Theoretical Biology</i> , 2012, 303, 128-140.	1.7	32
15	A yeast tRNA mutant that causes pseudohyphal growth exhibits reduced rates of CAG codon translation. <i>Molecular Microbiology</i> , 2013, 87, 284-300.	2.5	31
16	Deciphering mRNA Sequence Determinants of Protein Production Rate. <i>Physical Review Letters</i> , 2018, 120, 128101.	7.8	30
17	Spurious Structures in Recurrence Plots Induced by Embedding. <i>Nonlinear Dynamics</i> , 2006, 44, 299-305.	5.2	29
18	A systems biology analysis of long and short-term memories of osmotic stress adaptation in fungi. <i>BMC Research Notes</i> , 2012, 5, 258.	1.4	28

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19	Ribosome recycling induces optimal translation rate at low ribosomal availability. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20140589.	3.4	28
20	From START to FINISH: The Influence of Osmotic Stress on the Cell Cycle. <i>PLoS ONE</i> , 2013, 8, e68067.	2.5	27
21	Hypothesis test for synchronization: Twin surrogates revisited. <i>Chaos</i> , 2009, 19, 015108.	2.5	26
22	Transport on a lattice with dynamical defects. <i>Physical Review E</i> , 2013, 87, 012705.	2.1	25
23	Power series solution of the inhomogeneous exclusion process. <i>Physical Review E</i> , 2018, 97, 052139.	2.1	22
24	Multiple phase transitions in a system of exclusion processes with limited reservoirs of particles and fuel carriers. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2012, 2012, P03002.	2.3	21
25	Limited Resources in a Driven Diffusion Process. <i>Physical Review Letters</i> , 2010, 105, 078102.	7.8	19
26	Minimal model of transcriptional elongation processes with pauses. <i>Physical Review E</i> , 2014, 90, 050701.	2.1	19
27	Identification of the mRNA targets of tRNA-specific regulation using genome-wide simulation of translation. <i>Nucleic Acids Research</i> , 2016, 44, gkw630.	14.5	19
28	Stepping and Crowding of Molecular Motors: Statistical Kinetics from an Exclusion Process Perspective. <i>Biophysical Journal</i> , 2014, 107, 1176-1184.	0.5	18
29	Analysing GCN4 translational control in yeast by stochastic chemical kinetics modelling and simulation. <i>BMC Systems Biology</i> , 2011, 5, 131.	3.0	16
30	Controlling translation elongation efficiency: tRNA regulation of ribosome flux on the mRNA. <i>Biochemical Society Transactions</i> , 2014, 42, 160-165.	3.4	14
31	Slow sites in an exclusion process with limited resources. <i>Physical Review E</i> , 2010, 82, 051920.	2.1	12
32	Introduction to Focus Issue: Dynamics in Systems Biology. <i>Chaos</i> , 2010, 20, 045101.	2.5	10
33	Analysis of Bivariate Coupling by Means of Recurrence. , 2008, , 153-182.		10
34	Hierarchical organization of a reference system in newborn spontaneous movements. , 2007, 30, 568-586.		8
35	The molecular aetiology of tRNA synthetase depletion: induction of a GCN4 amino acid starvation response despite homeostatic maintenance of charged tRNA levels. <i>Nucleic Acids Research</i> , 2020, 48, 3071-3088.	14.5	8
36	Translational control of gene expression via interacting feedback loops. <i>Physical Review E</i> , 2019, 100, 050402.	2.1	2

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37	The wiper model: avalanche dynamics in an exclusion process. Journal of Statistical Mechanics: Theory and Experiment, 2013, 2013, P10015.	2.3	0