

Andrea Parmeggiani

List of Publications by Year in descending order

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41
papers

1,869
citations

430874

18
h-index

302126

39
g-index

46
all docs

46
docs citations

46
times ranked

1079
citing authors

#	ARTICLE	IF	CITATIONS
1	Phase Coexistence in Driven One-Dimensional Transport. <i>Physical Review Letters</i> , 2003, 90, 086601.	7.8	408
2	Energy transduction of isothermal ratchets: Generic aspects and specific examples close to and far from equilibrium. <i>Physical Review E</i> , 1999, 60, 2127-2140.	2.1	235
3	Totally asymmetric simple exclusion process with Langmuir kinetics. <i>Physical Review E</i> , 2004, 70, 046101.	2.1	218
4	Stochastic Self-Assembly of ParB Proteins Builds the Bacterial DNA Segregation Apparatus. <i>Cell Systems</i> , 2015, 1, 163-173.	6.2	118
5	ATP-Driven Separation of Liquid Phase Condensates in Bacteria. <i>Molecular Cell</i> , 2020, 79, 293-303.e4.	9.7	107
6	Totally Asymmetric Simple Exclusion Process on Networks. <i>Physical Review Letters</i> , 2011, 107, 068702.	7.8	84
7	Variable Combinations of Specific Ephrin Ligand/Eph Receptor Pairs Control Embryonic Tissue Separation. <i>PLoS Biology</i> , 2014, 12, e1001955.	5.6	67
8	Modeling Cytoskeletal Traffic: An Interplay between Passive Diffusion and Active Transport. <i>Physical Review Letters</i> , 2013, 110, 098102.	7.8	63
9	Exclusion processes on networks as models for cytoskeletal transport. <i>New Journal of Physics</i> , 2013, 15, 085005.	2.9	58
10	Understanding totally asymmetric simple-exclusion-process transport on networks: Generic analysis via effective rates and explicit vertices. <i>Physical Review E</i> , 2009, 80, 041128.	2.1	53
11	A conserved mechanism drives partition complex assembly on bacterial chromosomes and plasmids. <i>Molecular Systems Biology</i> , 2018, 14, e8516.	7.2	53
12	Dynamic correlation functions and Boltzmann-Langevin approach for driven one-dimensional lattice gas. <i>Physical Review E</i> , 2005, 72, 036123.	2.1	38
13	Internal Motility in Stiffening Actin-Myosin Networks. <i>Physical Review Letters</i> , 2004, 93, 268101.	7.8	37
14	Detachment of molecular motors under tangential loading. <i>Europhysics Letters</i> , 2001, 56, 603-609.	2.0	34
15	Surfing on Protein Waves: Proteophoresis as a Mechanism for Bacterial Genome Partitioning. <i>Physical Review Letters</i> , 2017, 119, 028101.	7.8	34
16	Motor protein traffic regulation by supply-demand balance of resources. <i>Physical Biology</i> , 2014, 11, 056006.	1.8	26
17	Form-finding of complex tensegrity structures: application to cell cytoskeleton modelling. <i>Comptes Rendus - Mecanique</i> , 2006, 334, 662-668.	2.1	25
18	Transport on a lattice with dynamical defects. <i>Physical Review E</i> , 2013, 87, 012705.	2.1	25

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19	Physical Modeling of a Sliding Clamp Mechanism for the Spreading of ParB at Short Genomic Distance from Bacterial Centromere Sites. <i>IScience</i> , 2020, 23, 101861.	4.1	22
20	Role of network junctions for the totally asymmetric simple exclusion process. <i>Physical Review E</i> , 2013, 88, 042104.	2.1	18
21	Stepping and Crowding of Molecular Motors: Statistical Kinetics from an Exclusion Process Perspective. <i>Biophysical Journal</i> , 2014, 107, 1176-1184.	0.5	18
22	Collective phenomena in intracellular processes. <i>Genome Informatics</i> , 2004, 15, 46-55.	0.4	17
23	HEX-TASEP: dynamics of pinned domains for TASEP transport on a periodic lattice of hexagonal topology. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 295213.	1.8	12
24	Long-Range Protein Coupling Mediated by Critical Low-Energy Modes of Tubular Lipid Membranes. <i>Physical Review Letters</i> , 2010, 105, 028102.	7.8	12
25	Macrophage morphological plasticity and migration is Rac signalling and MMP9 dependant. <i>Scientific Reports</i> , 2021, 11, 10123.	3.3	10
26	Renewal processes and fluctuation analysis of molecular motor stepping. <i>Physical Biology</i> , 2005, 2, 207-222.	1.8	9
27	Looping and clustering model for the organization of protein-DNA complexes on the bacterial genome. <i>New Journal of Physics</i> , 2018, 20, 035002.	2.9	9
28	Mechanical instabilities of aorta drive blood stem cell production: a live study. <i>Cellular and Molecular Life Sciences</i> , 2020, 77, 3453-3464.	5.4	9
29	Centrosomal targeting of Syk kinase is controlled by its catalytic activity and depends on microtubules and the dynein motor. <i>FASEB Journal</i> , 2013, 27, 109-122.	0.5	7
30	Stochastic modelling of collective motor protein transport through a crossing of microtubules. <i>Journal of Theoretical Biology</i> , 2020, 505, 110370.	1.7	6
31	Taming Nonequilibrium Statistics. <i>Physics Magazine</i> , 2012, 5, .	0.1	5
32	Foci of cyclin A2 interact with actin and RhoA in mitosis. <i>Scientific Reports</i> , 2016, 6, 27215.	3.3	5
33	Supercoiled DNA and non-equilibrium formation of protein complexes: A quantitative model of the nucleoprotein ParBS partition complex. <i>PLoS Computational Biology</i> , 2021, 17, e1008869.	3.2	4
34	Modelling the effect of ribosome mobility on the rate of protein synthesis. <i>European Physical Journal E</i> , 2021, 44, 19.	1.6	3
35	Modeling and live imaging of mechanical instabilities in the zebrafish aorta during hematopoiesis. <i>Scientific Reports</i> , 2021, 11, 9316.	3.3	3
36	Non-Equilibrium Collective Transport on Molecular Highways. , 2009, , 667-677.		3

#	ARTICLE	IF	CITATIONS
37	Micromechanics of Molecular Motors: Experiments and Theory., 2004, , 151-176.		2
38	Low-frequency phonon dynamics and related thermal properties of axially stressed single-walled carbon nanotubes. Journal of Physics Condensed Matter, 2019, 31, 425302.	1.8	2
39	Phase separation of polymer-bound particles induced by loop-mediated one dimensional effective long-range interactions. Physical Review Research, 2020, 2, .	3.6	2
40	Relaxation time asymmetry in stator dynamics of the bacterial flagellar motor. Science Advances, 2022, 8, eabl8112.	10.3	2
41	Modelling Collective Cytoskeletal Transport and Intracellular Traffic. Mathematics for Industry, 2014, , 1-25.	0.4	0