

Michele Caraglio

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

473
citations

687363

13
h-index

752698

20
g-index

37
all docs

37
docs citations

37
times ranked

380
citing authors

#	ARTICLE	IF	CITATIONS
1	Entanglement entropy and twist fields. <i>Journal of High Energy Physics</i> , 2008, 2008, 076-076.	4.7	107
2	Stretching Response of Knotted and Unknotted Polymer Chains. <i>Physical Review Letters</i> , 2015, 115, 188301.	7.8	43
3	Physical Links: defining and detecting inter-chain entanglement. <i>Scientific Reports</i> , 2017, 7, 1156.	3.3	33
4	Mechanical Pulling of Linked Ring Polymers: Elastic Response and Link Localisation. <i>Polymers</i> , 2017, 9, 327.	4.5	21
5	Twist-bend coupling, twist waves, and the shape of DNA loops. <i>Physical Review E</i> , 2019, 100, 022402.	2.1	19
6	Overtwisting induces polygonal shapes in bent DNA. <i>Journal of Chemical Physics</i> , 2019, 150, 135101.	3.0	17
7	Effects of confinement on thermal stability and folding kinetics in a simple Ising-like model. <i>Physical Biology</i> , 2012, 9, 016006.	1.8	16
8	Topologically Linked Chains in Confinement. <i>ACS Macro Letters</i> , 2019, 8, 442-446.	4.8	16
9	Optimal navigation strategy of active Brownian particles in target-search problems. <i>Journal of Chemical Physics</i> , 2021, 155, 084901.	3.0	16
10	Translocation of links through a pore: effects of link complexity and size. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2020, 2020, 043203.	2.3	15
11	Target Search of Active Agents Crossing High Energy Barriers. <i>Physical Review Letters</i> , 2021, 126, 018001.	7.8	15
12	Pathways of mechanical unfolding of FnlII10: Low force intermediates. <i>Journal of Chemical Physics</i> , 2010, 133, 065101.	3.0	14
13	Direction-dependent mechanical unfolding and green fluorescent protein as a force sensor. <i>Physical Review E</i> , 2011, 84, 021918.	2.1	14
14	Driven Translocation of Linked Ring Polymers through a Pore. <i>Macromolecules</i> , 2017, 50, 9437-9444.	4.8	13
15	Growth dynamics and complexity of national economies in the global trade network. <i>Scientific Reports</i> , 2018, 8, 15230.	3.3	11
16	The influence of absorbing boundary conditions on the transition path time statistics. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 25676-25682.	2.8	10
17	Entropic measure unveils country competitiveness and product specialization in the World trade web. <i>Scientific Reports</i> , 2021, 11, 10189.	3.3	9
18	Plectoneme dynamics and statistics in braided polymers. <i>Physical Review E</i> , 2019, 99, 052503.	2.1	8

#	ARTICLE	IF	CITATIONS
19	Transition path times in asymmetric barriers. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 3512-3519.	2.8	8
20	Scaling symmetry, renormalization, and time series modeling: The case of financial assets dynamics. <i>Physical Review E</i> , 2013, 88, 062808.	2.1	7
21	Topological Disentanglement Dynamics of Torus Knots on Open Linear Polymers. <i>ACS Macro Letters</i> , 2019, , 576-581.	4.8	7
22	Dynamical properties of densely packed confined hard-sphere fluids. <i>Physical Review E</i> , 2020, 102, 012612.	2.1	7
23	Export dynamics as an optimal growth problem in the network of global economy. <i>Scientific Reports</i> , 2016, 6, 31461.	3.3	6
24	Topological Disentanglement of Linear Polymers under Tension. <i>Polymers</i> , 2020, 12, 2580.	4.5	6
25	Topological Friction and Relaxation Dynamics of Spatially Confined Catenated Polymers. <i>ACS Macro Letters</i> , 2022, 11, 1-6.	4.8	6
26	Dynamic properties of quasi-confined colloidal hard-sphere liquids near the glass transition. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2020, 2020, 093301.	2.3	5
27	Ensemble properties of high-frequency data and intraday trading rules. <i>Quantitative Finance</i> , 2015, 15, 231-245.	1.7	4
28	Option pricing with non-Gaussian scaling and infinite-state switching volatility. <i>Journal of Econometrics</i> , 2015, 187, 486-497.	6.5	4
29	Aftershock Prediction for High-Frequency Financial Marketsâ€™ Dynamics. <i>New Economic Windows</i> , 2013, , 49-58.	1.0	4
30	Geometric Predictors of Knotted and Linked Arcs. <i>ACS Polymers Au</i> , 2022, 2, 341-350.	4.1	4
31	Energy transfer in molecular devices. <i>Physical Review E</i> , 2014, 90, 062712.	2.1	3
32	Data Driven Approach to the Dynamics of Import and Export of G7 Countries. <i>Entropy</i> , 2018, 20, 735.	2.2	2
33	Emergence of effective temperatures in an out-of-equilibrium model of biopolymer folding. <i>Physical Review E</i> , 2021, 103, 062415.	2.1	1
34	An Improved Integration Scheme for Mode-Coupling-Theory Equations. <i>Communications in Computational Physics</i> , 2021, 29, 628-648.	1.7	1
35	How Fast Does the Clock of Finance Run?â€™ A Time-Definition Enforcing Stationarity and Quantifying Overnight Duration. <i>Journal of Risk and Financial Management</i> , 2021, 14, 384.	2.3	1
36	Tagged-particle motion in quasi-confined colloidal hard-sphere liquids. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2021, 2021, 043301.	2.3	0