

Maria R D'orsogna

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

992
citations

623734

14
h-index

434195

31
g-index

41
all docs

41
docs citations

41
times ranked

941
citing authors

#	ARTICLE	IF	CITATIONS
1	Statistical physics of crime: A review. <i>Physics of Life Reviews</i> , 2015, 12, 1-21.	2.8	221
2	State transitions and the continuum limit for a 2D interacting, self-propelled particle system. <i>Physica D: Nonlinear Phenomena</i> , 2007, 232, 33-47.	2.8	214
3	Multi-Vehicle Flocking: Scalability of Cooperative Control Algorithms using Pairwise Potentials. <i>Proceedings - IEEE International Conference on Robotics and Automation</i> , 2007, , .	0.0	89
4	First passage times in homogeneous nucleation and self-assembly. <i>Journal of Chemical Physics</i> , 2012, 137, 244107.	3.0	40
5	Diffusion-Dependent Mechanisms of Receptor Engagement and Viral Entry. <i>Journal of Physical Chemistry B</i> , 2010, 114, 15403-15412.	2.6	31
6	Using excess deaths and testing statistics to determine COVID-19 mortalities. <i>European Journal of Epidemiology</i> , 2021, 36, 545-558.	5.7	29
7	Recidivism and Rehabilitation of Criminal Offenders: A Carrot and Stick Evolutionary Game. <i>PLoS ONE</i> , 2014, 9, e85531.	2.5	29
8	Multistage adsorption of diffusing macromolecules and viruses. <i>Journal of Chemical Physics</i> , 2007, 127, 105101.	3.0	25
9	Phthalates, heavy metals and PAHs in an overpopulated coastal region: Inferences from Abruzzo, central Italy. <i>Marine Pollution Bulletin</i> , 2017, 125, 501-512.	5.0	25
10	Enhancement of cargo processivity by cooperating molecular motors. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 4851.	2.8	20
11	Criminal Defectors Lead to the Emergence of Cooperation in an Experimental, Adversarial Game. <i>PLoS ONE</i> , 2013, 8, e61458.	2.5	18
12	Swarming in viscous fluids: Three-dimensional patterns in swimmer- and force-induced flows. <i>Physical Review E</i> , 2016, 93, 043112.	2.1	18
13	First Passage and Cooperativity of Queuing Kinetics. <i>Physical Review Letters</i> , 2005, 95, 170603.	7.8	16
14	Exact steady-state velocity of ratchets driven by random sequential adsorption. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, 5575-5584.	2.1	15
15	Optimal Cytoplasmic Transport in Viral Infections. <i>PLoS ONE</i> , 2009, 4, e8165.	2.5	15
16	Territorial developments based on graffiti: A statistical mechanics approach. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2013, 392, 252-270.	2.6	15
17	A statistical model of COVID-19 testing in populations: effects of sampling bias and testing errors. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2022, 380, 20210121.	3.4	15
18	Interplay of chemotaxis and chemokinesis mechanisms in bacterial dynamics. <i>Physical Review E</i> , 2003, 68, 021925.	2.1	14

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19	Temporal clustering of disorder events during the COVID-19 pandemic. PLoS ONE, 2021, 16, e0250433.	2.5	14
20	Combinatoric analysis of heterogeneous stochastic self-assembly. Journal of Chemical Physics, 2013, 139, 121918.	3.0	13
21	Moth Mating: Modeling Female Pheromone Calling and Male Navigational Strategies to Optimize Reproductive Success. Applied Sciences (Switzerland), 2020, 10, 6543.	2.5	13
22	Modelling radicalization: how small violent fringe sects develop into large indoctrinated societies. Royal Society Open Science, 2017, 4, 170678.	2.4	12
23	Age-structured social interactions enhance radicalization. Journal of Mathematical Sociology, 2018, 42, 128-151.	1.2	10
24	Coarsening and accelerated equilibration in mass-conserving heterogeneous nucleation. Physical Review E, 2011, 84, 011608.	2.1	9
25	The Effects of Statistical Multiplicity of Infection on Virus Quantification and Infectivity Assays. Biophysical Journal, 2018, 114, 2974-2985.	0.5	9
26	Local alliances and rivalries shape near-repeat terror activity of al-Qaeda, ISIS, and insurgents. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 20898-20903.	7.1	9
27	Physics for better human societies. Physics of Life Reviews, 2015, 12, 40-43.	2.8	8
28	A mathematical model of reward-mediated learning in drug addiction. Chaos, 2022, 32, 021102.	2.5	8
29	A bistable belief dynamics model for radicalization within sectarian conflict. Quarterly of Applied Mathematics, 2017, 75, 19-37.	0.7	7
30	Growth and containment of a hierarchical criminal network. Physical Review E, 2016, 93, 022308.	2.1	7
31	External conversions of player strategy in an evolutionary game: A cost-benefit analysis through optimal control. European Journal of Applied Mathematics, 2013, 24, 131-159.	2.9	6
32	Quantifying the Sensitivity of HIV-1 Viral Entry to Receptor and Coreceptor Expression. Journal of Physical Chemistry B, 2016, 120, 6189-6199.	2.6	5
33	Chiral molecule adsorption on helical polymers. Physical Review E, 2004, 69, 021805.	2.1	4
34	Mathematical modeling of depressive disorders: Circadian driving, bistability and dynamical transitions. Computational and Structural Biotechnology Journal, 2021, 19, 664-690.	4.1	3
35	Impacts of California Proposition 47 on crime in Santa Monica, California. PLoS ONE, 2021, 16, e0251199.	2.5	2
36	Stochastic Model of Randomly End-Linked Polymer Network Microregions. Macromolecules, 2021, 54, 126-142.	4.8	2

#	ARTICLE	IF	CITATIONS
37	Crime, punishment, and evolution in an adversarial game. European Journal of Applied Mathematics, 2016, 27, 317-337.	2.9	1
38	Viral Entry into Cells. , 2010, , .		0