Francesca Di Patti

List of Publications by Year
in descending order

37	650	759233	580821
papers	citations	12	25
		h-index	g-index

41	41	41	573
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Stochastic Turing patterns in the Brusselator model. Physical Review E, 2010, 81, 046215.	2.1	122
2	Stability of synchronization in simplicial complexes. Nature Communications, 2021, 12, 1255.	12.8	117
3	Diauxie and co-utilization of carbon sources can coexist during bacterial growth in nutritionally complex environments. Nature Communications, 2020, 11, 3135.	12.8	51
4	Enhanced stochastic oscillations in autocatalytic reactions. Physical Review E, 2009, 79, 036112.	2.1	39
5	Stochastic Turing patterns on a network. Physical Review E, 2012, 86, 046105.	2.1	35
6	Turing instabilities in reaction-diffusion systems with cross diffusion. European Physical Journal B, 2013, 86, 1.	1.5	33
7	Robust stochastic Turing patterns in the development of a one-dimensional cyanobacterial organism. PLoS Biology, 2018, 16, e2004877.	5.6	30
8	Hopping in the Crowd to Unveil Network Topology. Physical Review Letters, 2018, 120, 158301.	7.8	20
9	Spatial model of autocatalytic reactions. Physical Review E, 2010, 81, 056110.	2.1	19
10	A unique circulating miRNA profile highlights thrombo-inflammation in Behçet's syndrome. Annals of the Rheumatic Diseases, 2022, 81, 386-397.	0.9	17
11	Benjamin–Feir instabilities on directed networks. Chaos, Solitons and Fractals, 2017, 96, 8-16.	5.1	15
12	Multiple-scale theory of topology-driven patterns on directed networks. Physical Review E, 2016, 93, 032317.	2.1	14
13	Topological stabilization for synchronized dynamics on networks. European Physical Journal B, 2017, 90, 1.	1.5	14
14	Robust, coherent, and synchronized circadian clock-controlled oscillations along Anabaena filaments. ELife, 2021, 10, .	6.0	14
15	Noise processing by microRNA-mediated circuits: The Incoherent Feed-Forward Loop, revisited. Heliyon, 2016, 2, e00095.	3.2	11
16	Ginzburg-Landau approximation for self-sustained oscillators weakly coupled on complex directed graphs. Communications in Nonlinear Science and Numerical Simulation, 2018, 56, 447-456.	3.3	11
17	A synthetic ecosystem for the multi-level modelling of heterotroph-phototroph metabolic interactions. Ecological Modelling, 2019, 399, 13-22.	2.5	10
18	Optimal search strategies on complex multi-linked networks. Scientific Reports, 2015, 5, 9869.	3.3	9

#	Article	IF	Citations
19	Analytical study of non Gaussian fluctuations in a stochastic scheme of autocatalytic reactions. European Physical Journal: Special Topics, 2012, 212, 5-22.	2.6	8
20	Modelling the pharmacokinetics of tramadol: On the difference between CYP2D6 extensive and poor metabolizers. Journal of Theoretical Biology, 2008, 254, 568-574.	1.7	7
21	Non-Gaussian fluctuations in stochastic models with absorbing barriers. Europhysics Letters, 2011, 96, 50011.	2.0	7
22	System size expansion for systems with an absorbing state. Physical Review E, 2011, 83, 010102.	2.1	6
23	Deterministic and stochastic aspects of VEGF-A production and the cooperative behavior of tumoral cell colony. Journal of Theoretical Biology, 2011, 272, 55-63.	1.7	6
24	An "Incremental" mathematical model for Immune Thrombocytopenic Purpura (ITP). Mathematical and Computer Modelling, 2005, 42, 1299-1314.	2.0	5
25	Can a microscopic stochastic model explain the emergence of pain cycles in patients?. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P01004.	2.3	5
26	Genome-Wide Analysis of Promoters: Clustering by Alignment and Analysis of Regular Patterns. PLoS ONE, 2014, 9, e85260.	2.5	5
27	Noise–Seeded Developmental Pattern Formation in Filamentous Cyanobacteria. Life, 2018, 8, 58.	2.4	5
28	Drift-induced Benjamin-Feir instabilities. Europhysics Letters, 2016, 114, 68003.	2.0	4
29	The second will be first: competition on directed networks. Scientific Reports, 2016, 6, 27116.	3.3	4
30	Circulating miRNome profiling data in Behçet's syndrome. Data in Brief, 2021, 38, 107435.	1.0	3
31	Thermodynamics of DNA denaturation in a model of bacterial intergenic sequences. Chaos, Solitons and Fractals, 2020, 130, 109446.	5.1	2
32	On the molecular mechanisms driving pain perception and emergent collective behaviors. Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 1385-1399.	3.3	1
33	Analysis of resorbable mesh implants in short-term human muscular fascia cultures: a pilot study. Hernia: the Journal of Hernias and Abdominal Wall Surgery, 2020, 24, 1283-1291.	2.0	1
34	PHASE EQUILIBRIA OF POLYDISPERSE HYDROCARBONS: MOMENT FREE ENERGY METHOD ANALYSIS. , 2007, , .		0
35	A stochastic reaction scheme for drug/metabolite interaction. Journal of Theoretical Biology, 2009, 259, 382-388.	1.7	0
36	A Method for the Structure-Based, Genome-Wide Analysis of Bacterial Intergenic Sequences Identifies Shared Compositional and Functional Features. Genes, 2019, 10, 834.	2.4	0

#	Article	IF	Citations
37	Biologically Inspired Classifier. Lecture Notes in Computer Science, 2008, , 332-339.	1.3	0