Marta Sales-Pardo

List of Publications by Year
in descending order

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65 papers	5,072 citations	159525 30 h-index	102432 66 g-index
68 all docs	68 docs citations	68 times ranked	6194 citing authors

#	Article	IF	Citations
1	Modularity from fluctuations in random graphs and complex networks. Physical Review E, 2004, 70, 025101.	0.8	680
2	Missing and spurious interactions and the reconstruction of complex networks. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 22073-22078.	3.3	594
3	Extracting the hierarchical organization of complex systems. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 15224-15229.	3.3	465
4	Classes of complex networks defined by role-to-role connectivity profiles. Nature Physics, 2007, 3, 63-69.	6.5	363
5	Module identification in bipartite and directed networks. Physical Review E, 2007, 76, 036102.	0.8	324
6	Control of cellâ€“cell forces and collective cell dynamics by the intercellular adhesome. Nature Cell Biology, 2015, 17, 409-420.	4.6	275
7	Community assessment to advance computational prediction of cancer drug combinations in a pharmacogenomic screen. Nature Communications, 2019, 10, 2674.	5.8	240
8	Tunable magnetocaloric effect in ceramic perovskites. Applied Physics Letters, 1998, 73, 390-392.	1.5	202
9	The Possible Role of Resource Requirements and Academic Career-Choice Risk on Gender Differences in Publication Rate and Impact. PLoS ONE, 2012, 7, e51332.	1.1	179
10	Evolutionary Conservation of Speciesâ€™ Roles in Food Webs. Science, 2012, 335, 1489-1492.	6.0	161
11	Regulation of cell cycle progression by cellâ€“cell and cellâ€“matrix forces. Nature Cell Biology, 2018, 20, 646-654.	4.6	136
12	Effectiveness of Journal Ranking Schemes as a Tool for Locating Information. PLoS ONE, 2008, 3, e1683.	1.1	134
13	Origin of compartmentalization in food webs. Ecology, 2010, 91, 2941-2951.	1.5	126
14	Differences in Collaboration Patterns across Discipline, Career Stage, and Gender. PLoS Biology, 2016, 14, e1002573.	2.6	100
15	Statistical validation of a global model for the distribution of the ultimate number of citations accrued by papers published in a scientific journal. Journal of the Association for Information Science and Technology, 2010, 61, 1377-1385.	2.6	79
16	A Bayesian machine scientist to aid in the solution of challenging scientific problems. Science Advances, 2020, 6, eaav6971.	4.7	64
17	A network-based method for target selection in metabolic networks. Bioinformatics, 2007, 23, 1616-1622.	1.8	58
18	Multilayer Stochastic Block Models Reveal the Multilayer Structure of Complex Networks. Physical Review X, 2016, 6, .	2.8	58

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19	CliqueMS: a computational tool for annotating in-source metabolite ions from LC-MS untargeted metabolomics data based on a coelution similarity network. Bioinformatics, 2019, 35, 4089-4097.	1.8	57
20	A Network Inference Method for Large-Scale Unsupervised Identification of Novel Drug-Drug Interactions. PLoS Computational Biology, 2013, 9, e1003374.	1.5	50
21	iMet: A Network-Based Computational Tool To Assist in the Annotation of Metabolites from Tandem Mass Spectra. Analytical Chemistry, 2017, 89, 3474-3482.	3.2	46
22	Spin-phonon avalanches inMn12acetate. Physical Review B, 1999, 60, 11898-11901.	1.1	41
23	Consistencies and inconsistencies between model selection and link prediction in networks. Physical Review E, 2018, 97, 062316.	0.8	41
24	Mesoscopic modeling for nucleic acid chain dynamics. Physical Review E, 2005, 71, 051902.	0.8	40
25	Detection of node group membership in networks with group overlap. European Physical Journal B, 2009, 67, 277-284.	0.6	40
26	Identifying strategies for mitigating the global warming impact of the EU-25 economy using a multi-objective inputâ€“output approach. Energy Policy, 2015, 77, 21-30.	4.2	38
27	Predicting Human Preferences Using the Block Structure of Complex Social Networks. PLoS ONE, 2012, 7, e44620.	1.1	36
28	Fragility of the free-energy landscape of a directed polymer in random media. Physical Review E, 2002, 65, 066131.	0.8	35
29	Accurate and scalable social recommendation using mixed-membership stochastic block models. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14207-14212.	3.3	35
30	Justice Blocks and Predictability of U.S. Supreme Court Votes. PLoS ONE, 2011, 6, e27188.	1.1	34
31	The acute impact of polyphenols from Hibiscus sabdariffa in metabolic homeostasis: an approach combining metabolomics and gene-expression analyses. Food and Function, 2015, 6, 2957-2966.	2.1	25
32	The importance of being modular. Science, 2017, 357, 128-129.	6.0	23
33	Predicting future conflict between team-members with parameter-free models of social networks. Scientific Reports, 2013, 3, 1999.	1.6	22
34	Magnetocaloric effect in La0.65Ca0.35Ti1 â˜' xMnxO3 ceramic perovskites. Journal of Magnetism and Magnetic Materials, 1999, 196-197, 455-457.	1.0	20
35	Order-parameter fluctuations (OPF) in spin glasses: Monte Carlo simulations and exact results for small sizes. European Physical Journal B, 2001, 19, 565-582.	0.6	20
36	Tensorial and bipartite block models for link prediction in layered networks and temporal networks. Physical Review E, 2019, 99, 032307.	0.8	18

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37	Reducing global environmental inequality: Determining regional quotas for environmental burdens through systems optimisation. Journal of Cleaner Production, 2020, 270, 121828.	4.6	16
38	Time-dependent heat capacity ofMn12clusters. Physical Review B, 1999, 60, 14557-14560.	1.1	14
39	Leader evaluation and team cohesiveness in the process of team development: A matter of gender?. PLoS ONE, 2017, 12, e0186045.	1.1	14
40	Long-Term Evolution of Email Networks: Statistical Regularities, Predictability and Stability of Social Behaviors. PLoS ONE, 2016, 11, e0146113.	1.1	12
41	Modular coherence of protein dynamics in yeast cell polarity system. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 7647-7652.	3.3	11
42	Comparison of methods for the detection of node group membership in bipartite networks. European Physical Journal B, 2009, 72, 671-677.	0.6	10
43	Optimal prediction of decisions and model selection in social dilemmas using block models. EPJ Data Science, 2018, 7, .	1.5	10
44	Automatic modeling of socioeconomic drivers of energy consumption and pollution using Bayesian symbolic regression. Sustainable Production and Consumption, 2022, 30, 596-607.	5.7	10
45	Micro-bias and macro-performance. European Physical Journal B, 2009, 67, 369-375.	0.6	9
46	Rejuvenation in the random energy model. Europhysics Letters, 2001, 56, 181-186.	0.7	8
47	Statistics of lowest droplets in two-dimensional Gaussian Ising spin glasses. Physical Review B, 2003, 67, .	1.1	8
48	Form follows function: the architecture of complex networks. Molecular Systems Biology, 2006, 2, 42.	3.2	8
49	Bone Fusion in Normal and Pathological Development is Constrained by the Network Architecture of the Human Skull. Scientific Reports, 2017, 7, 3376.	1.6	8
50	Temperature shifts in the Sinai model: static and dynamical effects. Journal of Physics A, 2003, 36, 665-684.	1.6	7
51	Inferring propagation paths for sparsely observed perturbations on complex networks. Science Advances, 2016, 2, e1501638.	4.7	7
52	Node Metadata Can Produce Predictability Crossovers in Network Inference Problems. Physical Review X, 2022, 12, .	2.8	7
53	A conjectured scenario for order-parameter fluctuations in spin glasses. Journal of Physics A, 2000, 33, 6505-6526.	1.6	6
54	The Impact of Individual Biases on Consensus Formation. PLoS ONE, 2013, 8, e58989.	1.1	5

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55	Complex decision-making strategies in a stock market experiment explained as the combination of few simple strategies. EPJ Data Science, 2021, 10, .	1.5	5
56	Scaling approach to order parameter fluctuations in disordered frustrated systems. Journal of Physics A, 2001, 34, L333-L339.	1.6	4
57	Evolution of protein families: Is it possible to distinguish between domains of life?. Gene, 2007, 402, 81-93.	1.0	4
58	Gene regulatory network inference in long-lived C.Âelegans reveals modular properties that are predictive of novel aging genes. IScience, 2022, 25, 103663.	1.9	4
59	From clean dishes to clean hands. IEEE Engineering in Medicine and Biology Magazine, 2008, 27, 26-28.	1.1	3
60	GHG Emissions Minimization at the Macroeconomic Level via a Multi-objective Optimization/Input-output Approach: A Case Study of the EU-25 Economy. Computer Aided Chemical Engineering, 2014, , 1069-1074.	0.3	3
61	A comprehensive study on different modelling approaches to predict platelet deposition rates in a perfusion chamber. Scientific Reports, 2015, 5, 13606.	1.6	3
62	Bayesian Machine Scientist to Compare Data Collapses for the Nikuradse Dataset. Physical Review Letters, 2020, 124, 084503.	2.9	3
63	Phenomenological Model for Predicting the Catabolic Potential of an Arbitrary Nutrient. PLoS Computational Biology, 2012, 8, e1002762.	1.5	2
64	Scaling and optimal synergy: Two principles determining microbial growth in complex media. Physical Review E, 2015, 91, 062703.	0.8	1
65	Network-Based Models for Social Recommender Systems. , 2019, , 491-512.		0