Carter T Butts

List of Publications by Year
in descending order

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81 papers	5,100 citations	201575 27 h-index	106281 65 g-index
81 all docs	81 docs citations	81 times ranked	5718 citing authors

#	Article	IF	Citations
1	ergm: A Package to Fit, Simulate and Diagnose Exponential-Family Models for Networks. Journal of Statistical Software, 2008, 24, nihpa54860.	1.8	690
2	statnet: Software Tools for the Representation, Visualization, Analysis and Simulation of Network Data. Journal of Statistical Software, 2008, 24, 1548-7660.	1.8	561
3	Revisiting the Foundations of Network Analysis. Science, 2009, 325, 414-416.	6.0	427
4	Walking in Facebook: A Case Study of Unbiased Sampling of OSNs. , 2010, , .		387
5	Social network analysis: A methodological introduction. Asian Journal of Social Psychology, 2008, 11, 13-41.	1.1	358
6	Social Network Analysis withsna. Journal of Statistical Software, 2008, 24, .	1.8	311
7	Constructing and Modifying Sequence Statistics for relevent Using informR in ?. Journal of Statistical Software, 2015, 64, 1-36.	1.8	279
8	network: A Package for Managing Relational Data inR. Journal of Statistical Software, 2008, 24, .	1.8	233
9	Network inference, error, and informant (in)accuracy: a Bayesian approach. Social Networks, 2003, 25, 103-140.	1.3	173
10	Warning tweets: serial transmission of messages during the warning phase of a disaster event. Information, Communication and Society, 2014, 17, 765-787.	2.6	172
11	Geographical variability and network structure. Social Networks, 2012, 34, 82-100.	1.3	127
12	Spatial heterogeneity can lead to substantial local variations in COVID-19 timing and severity. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 24180-24187.	3.3	89
13	A cross-hazard analysis of terse message retransmission on Twitter. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14793-14798.	3.3	84
14	Responder Communication Networks in the World Trade Center Disaster: Implications for Modeling of Communication Within Emergency Settings. Journal of Mathematical Sociology, 2007, 31, 121-147.	0.6	76
15	The Persistence of Division. Socius, 2016, 2, 237802311663434.	1.1	67
16	What it Takes to Get Passed On: Message Content, Style, and Structure as Predictors of Retransmission in the Boston Marathon Bombing Response. PLoS ONE, 2015, 10, e0134452.	1.1	66
17	Lung Cancer Messages on Twitter: ContentÂAnalysis and Evaluation. Journal of the American College of Radiology, 2018, 15, 210-217.	0.9	55
18	Multiple imputation for missing edge data: A predictive evaluation method with application to Add Health. Social Networks, 2016, 45, 89-98.	1.3	51

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19	Interorganizational Collaboration in the Hurricane Katrina Response[*]. Journal of Social Structure, 2012, 13, 1-37.	1.3	43
20	Alcohol Use among Adolescent Youth: The Role of Friendship Networks and Family Factors in Multiple School Studies. PLoS ONE, 2015, 10, e0119965.	1.1	41
21	Mechanisms of Control in Emergent Interorganizational Networks. Policy Studies Journal, 2012, 40, 516-546.	3.2	38
22	COVID-19: Retransmission of official communications in an emerging pandemic. PLoS ONE, 2020, 15, e0238491.	1.1	36
23	The Relationship of Age to Personal Network Size, Relational Multiplexity, and Proximity to Alters in the Western United States. Journals of Gerontology - Series B Psychological Sciences and Social Sciences, 2015, 70, 91-99.	2.4	34
24	Coevolution of adolescent friendship networks and smoking and drinking behaviors with consideration of parental influence.. Psychology of Addictive Behaviors, 2016, 30, 312-324.	1.4	34
25	Extrapolative simulation of neighborhood networks based on population spatial distribution: Do they predict crime?. Social Networks, 2013, 35, 614-625.	1.3	33
26	Simulating Dynamic Network Models and Adolescent Smoking: The Impact of Varying Peer Influence and Peer Selection. American Journal of Public Health, 2015, 105, 2438-2448.	1.5	31
27	Sequence Characterization and Molecular Modeling of Clinically Relevant Variants of the SARS-CoV-2 Main Protease. Biochemistry, 2020, 59, 3741-3756.	1.2	30
28	Novel proteases from the genome of the carnivorous plant Drosera capensis : Structural prediction and comparative analysis. Proteins: Structure, Function and Bioinformatics, 2016, 84, 1517-1533.	1.5	29
29	Some Simple Algorithms for Structural Comparison. Computational and Mathematical Organization Theory, 2005, 11, 291-305.	1.5	28
30	Bernoulli Graph Bounds for Generalrandom Graphs. Sociological Methodology, 2011, 41, 299-345.	1.4	28
31	The interdependence of cigarette, alcohol, and marijuana use in the context of school-based social networks. PLoS ONE, 2018, 13, e0200904.	1.1	25
32	Thumbs up for privacy?: Differences in online self-disclosure behavior across national cultures. Social Science Research, 2016, 59, 155-170.	1.1	24
33	Comparative Exploratory Analysis of Intrinsically Disordered Protein Dynamics Using Machine Learning and Network Analytic Methods. Frontiers in Molecular Biosciences, 2019, 6, 42.	1.6	22
34	A cyclic peptide inhibitor of the SARS-CoV-2 main protease. European Journal of Medicinal Chemistry, 2021, 221, 113530.	2.6	22
35	Spatial Modeling of Social Networks. , 2011, , 222-250.		22
36	Research note: The consequences of different methods for handling missing network data in stochastic actor based models. Social Networks, 2015, 41, 56-71.	1.3	21

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37	Sequence comparison, molecular modeling, and network analysis predict structural diversity in cysteine proteases from the Cape sundew, Drosera capensis. Computational and Structural Biotechnology Journal, 2016, 14, 271-282.	1.9	19
38	Peer Influence, Peer Selection and Adolescent Alcohol Use: a Simulation Study Using a Dynamic Network Model of Friendship Ties and Alcohol Use. Prevention Science, 2017, 18, 382-393.	1.5	18
39	The First 60 Days: American Public Health Agencies' Social Media Strategies in the Emerging COVID-19 Pandemic. Health Security, 2020, 18, 454-460.	0.9	17
40	Molecular Mechanism of Aggregation of the Cataract-Related Î³D-Crystallin W42R Variant from Multiscale Atomistic Simulations. Biochemistry, 2019, 58, 3691-3699.	1.2	16
41	Network-Based Classification and Modeling of Amyloid Fibrils. Journal of Physical Chemistry B, 2019, 123, 5452-5462.	1.2	16
42	A dynamic process interpretation of the sparse ERGM reference model. Journal of Mathematical Sociology, 2019, 43, 40-57.	0.6	15
43	A Flexible Parameterization for Baseline Mean Degree in Multiple-Network ERGMs. Journal of Mathematical Sociology, 2015, 39, 163-167.	0.6	14
44	Structure prediction and network analysis of chitinases from the Cape sundew, Drosera capensis. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 636-643.	1.1	13
45	A perfect sampling method for exponential family random graph models. Journal of Mathematical Sociology, 2018, 42, 17-36.	0.6	13
46	Getting the Word Out, Rain or Shine: The Impact of Message Features and Hazard Context on Message Passing Online. Weather, Climate, and Society, 2019, 11, 763-776.	0.5	13
47	Celebrity Cancer on Twitter: Mapping a Novel Opportunity for Cancer Prevention. Cancer Control, 2019, 26, 107327481982582.	0.7	13
48	Point process models for household distributions within small areal units. Demographic Research, 0, 26, 593-632.	2.0	13
49	Multi-Conformation Monte Carlo: A Method for Introducing Flexibility in Efficient Simulations of Many-Protein Systems. Journal of Physical Chemistry B, 2016, 120, 8115-8126.	1.2	12
50	Activity correlation spectroscopy: a novel method for inferring social relationships from activity data. Social Network Analysis and Mining, 2017, 7, 1.	1.9	12
51	Mutual assent or unilateral nomination? A performance comparison of intersection and union rules for integrating self-reports of social relationships. Social Networks, 2018, 55, 55-62.	1.3	12
52	Cutting Through the Noise: Predictors of Successful Online Message Retransmission in the First 8 Months of the COVID-19 Pandemic. Health Security, 2021, 19, 31-43.	0.9	12
53	Protein structure networks provide insight into active site flexibility in esterase/lipases from the carnivorous plantDrosera capensis. Integrative Biology (United Kingdom), 2018, 10, 768-779.	0.6	10
54	Predicting Regional Selfâ€identification from Spatial Network Models. Geographical Analysis, 2015, 47, 50-72.	1.9	9

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55	Why I know but don't believe. Science, 2016, 354, 286-287.	6.0	9
56	A Novel Simulation Method for Binary Discrete Exponential Families, With Application to Social Networks. Journal of Mathematical Sociology, 2015, 39, 174-202.	0.6	8
57	On the equivalence of the edge/isolate and edge/concurrent tie ERGM families, and their extensions. Journal of Mathematical Sociology, 2016, 40, 1-6.	0.6	8
58	Network Hamiltonian models reveal pathways to amyloid fibril formation. Scientific Reports, 2020, 10, 15668.	1.6	8
59	Structural Change and Homeostasis in Organizations: A Decision-Theoretic Approach. Journal of Mathematical Sociology, 2007, 31, 295-321.	0.6	7
60	Spatio-temporal filtering techniques for the detection of disaster-related communication. Social Science Research, 2016, 59, 137-154.	1.1	7
61	The Droserasin 1 PSI: A Membrane-Interacting Antimicrobial Peptide from the Carnivorous Plant Drosera capensis. Biomolecules, 2020, 10, 1069.	1.8	7
62	On the validity of perceived social structure. Journal of Mathematical Psychology, 2020, 98, 102384.	1.0	7
63	Geographical patterns of social cohesion drive disparities in early COVID infection hazard. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2121675119.	3.3	7
64	Cascades of emotional support in friendship networks and adolescent smoking. PLoS ONE, 2017, 12, e0180204.	1.1	6
65	Staying connected under fire: Effects of individual roles and organizational specialization on the robustness of emergency-phase communication networks. Social Networks, 2021, 64, 1-15.	1.3	5
66	Neural Upscaling from Residue-Level Protein Structure Networks to Atomistic Structures. Biomolecules, 2021, 11, 1788.	1.8	5
67	Finite Mixtures of ERGMs for Modeling Ensembles of Networks. Bayesian Analysis, 2022, 17, .	1.6	5
68	A life history graph approach to the analysis and comparison of life histories. Advances in Life Course Research, 2015, 25, 16-34.	0.8	4
69	Phase transitions in the edge/concurrent vertex model. Journal of Mathematical Sociology, 2021, 45, 135-147.	0.6	4
70	#Ebola: Emergency Risk Messages on Social Media. Health Security, 2020, 18, 461-472.	0.9	4
71	A multi-contextual examination of non-school friendships and their impact on adolescent deviance and alcohol use. PLoS ONE, 2021, 16, e0245837.	1.1	3
72	A dynamic process reference model for sparse networks with reciprocity. Journal of Mathematical Sociology, 2020, , 1-27.	0.6	1

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73	Bayesian Estimation of the Hydroxyl Radical Diffusion Coefficient at Low Temperature and High Pressure from Atomistic Molecular Dynamics. Journal of Chemical Physics, 2021, 155, 194504.	1.2	1
74	Cover Image, Volume 84, Issue 10. Proteins: Structure, Function and Bioinformatics, 2016, 84, C1.	1.5	0
75	Retrospective Network Imputation from Life History Data: The Impact of Designs. Sociological Methodology, 2020, 50, 131-167.	1.4	0
76	Insight into Selecting Adolescents for Drinking Intervention Programs: a Simulation Based on Stochastic Actorâ€“Oriented Models. Prevention Science, 2022, 23, 48-58.	1.5	0
77	Bayesian analysis of static light scattering data for globular proteins. PLoS ONE, 2021, 16, e0258429.	1.1	0
78	COVID-19: Retransmission of official communications in an emerging pandemic. , 2020, 15, e0238491.		0
79	COVID-19: Retransmission of official communications in an emerging pandemic. , 2020, 15, e0238491.		0
80	COVID-19: Retransmission of official communications in an emerging pandemic. , 2020, 15, e0238491.		0
81	COVID-19: Retransmission of official communications in an emerging pandemic. , 2020, 15, e0238491.		0