

Shawn T Brown

List of Publications by Year in descending order

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117
papers

9,226
citations

109137

35
h-index

39575

94
g-index

121
all docs

121
docs citations

121
times ranked

10626
citing authors

#	ARTICLE	IF	CITATIONS
1	How to Choose Target Facilities in a Region to Implement Carbapenem-resistant Enterobacteriaceae Control Measures. <i>Clinical Infectious Diseases</i> , 2021, 72, 438-447.	2.9	4
2	Understanding the impact of preprocessing pipelines on neuroimaging cortical surface analyses. <i>GigaScience</i> , 2021, 10, .	3.3	32
3	Bridges-2: A Platform for Rapidly-Evolving and Data Intensive Research. , 2021, , .		26
4	How Long-Term Acute Care Hospitals Can Play an Important Role in Controlling Carbapenem-Resistant Enterobacteriaceae in a Region: A Simulation Modeling Study. <i>American Journal of Epidemiology</i> , 2021, 190, 448-458.	1.6	6
5	How Introducing a Registry With Automated Alerts for Carbapenem-resistant Enterobacteriaceae (CRE) May Help Control CRE Spread in a Region. <i>Clinical Infectious Diseases</i> , 2020, 70, 843-849.	2.9	13
6	A Quantitative EEG Toolbox for the MNI Neuroinformatics Ecosystem: Normative SPM of EEG Source Spectra. <i>Frontiers in Neuroinformatics</i> , 2020, 14, 33.	1.3	12
7	Comparing perturbation models for evaluating stability of neuroimaging pipelines. <i>International Journal of High Performance Computing Applications</i> , 2020, 34, 491-501.	2.4	13
8	Performance benefits of Intel® Optane™ DC persistent memory for the parallel processing of large neuroimaging data. , 2020, , .		3
9	Deploying large fixed file datasets with SquashFS and Singularity. , 2020, , .		2
10	Performance Evaluation of Big Data Processing Strategies for Neuroimaging. , 2019, , .		3
11	The value of tailoring vial sizes to populations and locations. <i>Vaccine</i> , 2019, 37, 637-644.	1.7	13
12	Exploring the potential public health benefits of universal influenza vaccine. <i>Human Vaccines and Immunotherapeutics</i> , 2019, 15, 2919-2926.	1.4	3
13	A Serverless Tool for Platform Agnostic Computational Experiment Management. <i>Frontiers in Neuroinformatics</i> , 2019, 13, 12.	1.3	12
14	Modeling the economic impact of different vial-opening thresholds for measles-containing vaccines. <i>Vaccine</i> , 2019, 37, 2356-2368.	1.7	4
15	Economic value of vaccinating geographically hard-to-reach populations with measles vaccine: A modeling application in Kenya. <i>Vaccine</i> , 2019, 37, 2377-2386.	1.7	5
16	How coping can hide larger systems problems: the routine immunisation supply chain in Bihar, India. <i>BMJ Global Health</i> , 2019, 4, e001609.	2.0	11
17	The potential effects of introducing microneedle patch vaccines into routine vaccine supply chains. <i>Vaccine</i> , 2019, 37, 645-651.	1.7	9
18	Impact of seasonal influenza vaccination in the presence of vaccine interference. <i>Vaccine</i> , 2018, 36, 853-858.	1.7	7

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19	Simulating the Impact of Sugar-Sweetened Beverage Warning Labels in Three Cities. American Journal of Preventive Medicine, 2018, 54, 197-204.	1.6	37
20	Integration of "omics" Data and Phenotypic Data Within a Unified Extensible Multimodal Framework. Frontiers in Neuroinformatics, 2018, 12, 91.	1.3	6
21	Dual-chamber injection device for measles-rubella vaccine: The potential impact of introducing varying sizes of the devices in 3 countries. Vaccine, 2018, 36, 5879-5885.	1.7	6
22	Boutiques: a flexible framework to integrate command-line applications in computing platforms. GigaScience, 2018, 7, .	3.3	35
23	Potential Consequences of Not Using Live Attenuated Influenza Vaccine. American Journal of Preventive Medicine, 2017, 53, 500-503.	1.6	1
24	Economic impact of thermostable vaccines. Vaccine, 2017, 35, 3135-3142.	1.7	40
25	Modeling The Economic And Health Impact Of Increasing Children's Physical Activity In The United States. Health Affairs, 2017, 36, 902-908.	2.5	51
26	Does Choice of Influenza Vaccine Type Change Disease Burden and Cost-Effectiveness in the United States? An Agent-Based Modeling Study. American Journal of Epidemiology, 2017, 185, 822-831.	1.6	13
27	Map of different vaccine supply chain efficiency measures. Vaccine, 2017, 35, 199-200.	1.7	10
28	Reply to: Estimating the Full Value of High-Dose Influenza Vaccine. Journal of the American Geriatrics Society, 2017, 65, 2111-2112.	1.3	1
29	System redesign of the immunization supply chain: Experiences from Benin and Mozambique. Vaccine, 2017, 35, 2162-2166.	1.7	31
30	When are solar refrigerators less costly than on-grid refrigerators: A simulation modeling study. Vaccine, 2017, 35, 2224-2228.	1.7	11
31	Cost-effectiveness and public health impact of alternative influenza vaccination strategies in high-risk adults. Vaccine, 2017, 35, 5708-5713.	1.7	11
32	Geospatial Planning and the Resulting Economic Impact of Human Papillomavirus Vaccine Introduction in Mozambique. Sexually Transmitted Diseases, 2017, 44, 222-226.	0.8	6
33	Does cost-effectiveness of influenza vaccine choice vary across the U.S.? An agent-based modeling study. Vaccine, 2017, 35, 3974-3981.	1.7	14
34	Simulating the Impact of Crime on African American Women's Physical Activity and Obesity. Obesity, 2017, 25, 2149-2155.	1.5	29
35	The Economic Value of Long-Lasting Insecticidal Nets and Indoor Residual Spraying Implementation in Mozambique. American Journal of Tropical Medicine and Hygiene, 2017, 96, 1430-1440.	0.6	5
36	Cost Effectiveness of Influenza Vaccine for U.S. Children. American Journal of Preventive Medicine, 2016, 51, 309-317.	1.6	11

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37	The economic value of increasing geospatial access to tetanus toxoid immunization in Mozambique. <i>Vaccine</i> , 2016, 34, 4161-4165.	1.7	9
38	Cost Effectiveness and Public Health Effect of Influenza Vaccine Strategies for U.S. Elderly Adults. <i>Journal of the American Geriatrics Society</i> , 2016, 64, 2126-2131.	1.3	34
39	Re-designing the Mozambique vaccine supply chain to improve access to vaccines. <i>Vaccine</i> , 2016, 34, 4998-5004.	1.7	55
40	The impact of implementing a demand forecasting system into a low-income country's supply chain. <i>Vaccine</i> , 2016, 34, 3663-3669.	1.7	25
41	The economic and operational value of using drones to transport vaccines. <i>Vaccine</i> , 2016, 34, 4062-4067.	1.7	201
42	The Apollo Structured Vocabulary: an OWL2 ontology of phenomena in infectious disease epidemiology and population biology for use in epidemic simulation. <i>Journal of Biomedical Semantics</i> , 2016, 7, 50.	0.9	13
43	Modeling the economic and epidemiologic impact of hookworm vaccine and mass drug administration (MDA) in Brazil, a high transmission setting. <i>Vaccine</i> , 2016, 34, 2197-2206.	1.7	33
44	Cost Effectiveness of Influenza Vaccine Choices in Children Aged 2-8 Years in the U.S.. <i>American Journal of Preventive Medicine</i> , 2016, 50, 600-608.	1.6	8
45	Weekends as social distancing and their effect on the spread of influenza. <i>Computational and Mathematical Organization Theory</i> , 2016, 22, 71-87.	1.5	9
46	Quantifying the Exposure to Antibiotic-Resistant Pathogens Among Patients Discharged From a Single Hospital Across All California Healthcare Facilities. <i>Infection Control and Hospital Epidemiology</i> , 2015, 36, 1275-1282.	1.0	13
47	Modular vaccine packaging increases packing efficiency. <i>Vaccine</i> , 2015, 33, 3135-3141.	1.7	7
48	Costs of vaccine programs across 94 low- and middle-income countries. <i>Vaccine</i> , 2015, 33, A99-A108.	1.7	68
49	Quantifying the Economic Value and Quality of Life Impact of Earlier Influenza Vaccination. <i>Medical Care</i> , 2015, 53, 218-229.	1.1	17
50	One size does not fit all: The impact of primary vaccine container size on vaccine distribution and delivery. <i>Vaccine</i> , 2015, 33, 3242-3247.	1.7	33
51	Landscaping the structures of GAVI country vaccine supply chains and testing the effects of radical redesign. <i>Vaccine</i> , 2015, 33, 4451-4458.	1.7	33
52	Advances in molecular quantum chemistry contained in the Q-Chem 4 program package. <i>Molecular Physics</i> , 2015, 113, 184-215.	0.8	2,561
53	A planning model for the WHO-EPI vaccine distribution network in developing countries. <i>IIE Transactions</i> , 2014, 46, 853-865.	2.1	60
54	A large-scale immuno-epidemiological simulation of influenza A epidemics. <i>BMC Public Health</i> , 2014, 14, 1019.	1.2	30

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55	Unless changes are made in Benin, multiple storage and transport bottlenecks may prevent vaccines from reaching the population. <i>Vaccine</i> , 2014, 32, 2518-2519.	1.7	8
56	The benefits of redesigning Benin's vaccine supply chain. <i>Vaccine</i> , 2014, 32, 4097-4103.	1.7	74
57	A passive cold storage device economic model to evaluate selected immunization location scenarios. <i>Vaccine</i> , 2013, 31, 5232-5238.	1.7	17
58	Contagious Diseases in the United States from 1888 to the Present. <i>New England Journal of Medicine</i> , 2013, 369, 2152-2158.	13.9	222
59	FRED (A Framework for Reconstructing Epidemic Dynamics): an open-source software system for modeling infectious diseases and control strategies using census-based populations. <i>BMC Public Health</i> , 2013, 13, 940.	1.2	159
60	Modeling the regional spread and control of vancomycin-resistant enterococci. <i>American Journal of Infection Control</i> , 2013, 41, 668-673.	1.1	29
61	Removing the regional level from the Niger vaccine supply chain. <i>Vaccine</i> , 2013, 31, 2828-2834.	1.7	51
62	The Potential Regional Impact of Contact Precaution Use in Nursing Homes to Control Methicillin-Resistant <i>Staphylococcus aureus</i> . <i>Infection Control and Hospital Epidemiology</i> , 2013, 34, 151-160.	1.0	33
63	The Regional Healthcare Ecosystem Analyst (RHEA): a simulation modeling tool to assist infectious disease control in a health system. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2013, 20, e139-e146.	2.2	40
64	Dynamic Simulation of Crime Perpetration and Reporting to Examine Community Intervention Strategies. <i>Health Education and Behavior</i> , 2013, 40, 87S-97S.	1.3	10
65	Geospatial Analytics to Evaluate Point-of-Dispensing Sites for Mass Immunizations in Allegheny County, Pennsylvania. <i>Journal of Public Health Management and Practice</i> , 2013, 19, S31-S36.	0.7	7
66	Only Adding Stationary Storage to Vaccine Supply Chains May Create and Worsen Transport Bottlenecks. <i>Journal of Public Health Management and Practice</i> , 2013, 19, S65-S67.	0.7	10
67	The Importance of Nursing Homes in the Spread of Methicillin-resistant <i>Staphylococcus aureus</i> (MRSA) Among Hospitals. <i>Medical Care</i> , 2013, 51, 205-215.	1.1	85
68	Augmenting Transport versus Increasing Cold Storage to Improve Vaccine Supply Chains. <i>PLoS ONE</i> , 2013, 8, e64303.	1.1	38
69	Geotemporal Analysis of <i>Neisseria meningitidis</i> Clones in the United States: 2000-2005. <i>PLoS ONE</i> , 2013, 8, e82048.	1.1	8
70	Simulation Shows Hospitals That Cooperate On Infection Control Obtain Better Results Than Hospitals Acting Alone. <i>Health Affairs</i> , 2012, 31, 2295-2303.	2.5	44
71	A Decision-Theoretic Model of Disease Surveillance and Control and a Prototype Implementation for the Disease Influenza. , 2012, , .		0
72	Impact of Introducing the Pneumococcal and Rotavirus Vaccines Into the Routine Immunization Program in Niger. <i>American Journal of Public Health</i> , 2012, 102, 269-276.	1.5	41

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73	Preparedness for Pandemics. <i>Journal of Public Health Management and Practice</i> , 2012, 18, 233-240.	0.7	2
74	FRED Navigator: An interactive system for visualizing results from large-scale epidemic simulations. , 2012, , .		4
75	How influenza vaccination policy may affect vaccine logistics. <i>Vaccine</i> , 2012, 30, 4517-4523.	1.7	23
76	The impact of making vaccines thermostable in Niger's vaccine supply chain. <i>Vaccine</i> , 2012, 30, 5637-5643.	1.7	76
77	School closure as an influenza mitigation strategy: how variations in legal authority and plan criteria can alter the impact. <i>BMC Public Health</i> , 2012, 12, 977.	1.2	20
78	Recent performance improvements to the DFT and TDDFT in GAMESS. <i>Journal of Computational Chemistry</i> , 2012, 33, 723-731.	1.5	8
79	Modeling the Spread of Methicillin-Resistant <i>Staphylococcus aureus</i> (MRSA) Outbreaks throughout the Hospitals in Orange County, California. <i>Infection Control and Hospital Epidemiology</i> , 2011, 32, 562-572.	1.0	62
80	The optimal number of routine vaccines to order at health clinics in low or middle income countries. <i>Vaccine</i> , 2011, 29, 5512-5518.	1.7	20
81	Replacing the measles ten-dose vaccine presentation with the single-dose presentation in Thailand. <i>Vaccine</i> , 2011, 29, 3811-3817.	1.7	41
82	The Role of Subway Travel in an Influenza Epidemic: A New York City Simulation. <i>Journal of Urban Health</i> , 2011, 88, 982-995.	1.8	108
83	Would school closure for the 2009 H1N1 influenza epidemic have been worth the cost?: a computational simulation of Pennsylvania. <i>BMC Public Health</i> , 2011, 11, 353.	1.2	90
84	Impact of changing the measles vaccine vial size on Niger's vaccine supply chain: a computational model. <i>BMC Public Health</i> , 2011, 11, 425.	1.2	61
85	The Benefits To All Of Ensuring Equal And Timely Access To Influenza Vaccines In Poor Communities. <i>Health Affairs</i> , 2011, 30, 1141-1150.	2.5	43
86	Economic Value of Dengue Vaccine in Thailand. <i>American Journal of Tropical Medicine and Hygiene</i> , 2011, 84, 764-772.	0.6	49
87	Dynamic Simulation of Community Crime and Crime-Reporting Behavior. <i>Lecture Notes in Computer Science</i> , 2011, , 97-104.	1.0	3
88	Maintaining Vaccine Delivery Following the Introduction of the Rotavirus and Pneumococcal Vaccines in Thailand. <i>PLoS ONE</i> , 2011, 6, e24673.	1.1	35
89	Long-Term Care Facilities: Important Participants of the Acute Care Facility Social Network?. <i>PLoS ONE</i> , 2011, 6, e29342.	1.1	37
90	Simulating School Closure Strategies to Mitigate an Influenza Epidemic. <i>Journal of Public Health Management and Practice</i> , 2010, 16, 252-261.	0.7	145

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91	Protecting health care workers: a pandemic simulation based on Allegheny County. <i>Influenza and Other Respiratory Viruses</i> , 2010, 4, 61-72.	1.5	56
92	A computer simulation of vaccine prioritization, allocation, and rationing during the 2009 H1N1 influenza pandemic. <i>Vaccine</i> , 2010, 28, 4875-4879.	1.7	109
93	Single versus multi-dose vaccine vials: An economic computational model. <i>Vaccine</i> , 2010, 28, 5292-5300.	1.7	82
94	A Computer Simulation of Employee Vaccination to Mitigate an Influenza Epidemic. <i>American Journal of Preventive Medicine</i> , 2010, 38, 247-257.	1.6	84
95	Vaccination Deep Into a Pandemic Wave. <i>American Journal of Preventive Medicine</i> , 2010, 39, e21-e29.	1.6	37
96	Optimization and Parallelization of DFT and TDDFT in GAMESS on DoD HPC Machines. , 2008, , .		2
97	PSI3: An open-source Ab Initio electronic structure package. <i>Journal of Computational Chemistry</i> , 2007, 28, 1610-1616.	1.5	258
98	New Ferroelectrics for Naval SONAR and Modeling of Nanoscale Ferroelectric Nonvolatile Memory Materials. , 2006, , .		0
99	Interpolation density values on a cartesian grid: Improving the efficiency of Lebedev based numerical integration in Kohn-Sham density functional algorithms. <i>Chemical Physics Letters</i> , 2006, 418, 490-495.	1.2	11
100	A combined density functional theory and molecular mechanics (QM/MM) study of FeCO vibrations in carbonmonoxy myoglobin. <i>Chemical Physics Letters</i> , 2006, 419, 563-566.	1.2	15
101	Advances in methods and algorithms in a modern quantum chemistry program package. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 3172-3191.	1.3	2,597
102	Efficient computation of the exchange-correlation contribution in the density functional theory through multiresolution. <i>Journal of Chemical Physics</i> , 2006, 124, 094109.	1.2	21
103	IncDFT: Improving the efficiency of density functional theory using some old tricks. <i>Chemical Physics Letters</i> , 2005, 408, 395-402.	1.2	13
104	Cyclopentadiene Annulated Polycyclic Aromatic Hydrocarbons: Investigations of Electron Affinities. <i>Journal of the American Chemical Society</i> , 2003, 125, 1064-1071.	6.6	36
105	σ and π electronic states of linear disilaketenyldiene (SiSiO): analysis of the Renner effect in the σ state. Comparison with the analogous multiple bonded systems SiCO, CSiO, and CCO. <i>Polyhedron</i> , 2002, 21, 599-609.	1.0	6
106	Electron Affinities of Polycyclic Aromatic Hydrocarbons. <i>Journal of Physical Chemistry A</i> , 2001, 105, 524-528.	1.1	124
107	Assessment of Density Functional Theory for Model SN2 Reactions: $\text{CH}_3\text{X} + \text{F}^-(\text{X} = \text{F}, \text{Cl}, \text{CN}, \text{OH}, \text{SH}, \text{NH}_2)$. <i>J. Phys. Chem. B</i> , 2001, 105, 11114-11124.	1.1	118
108	The 2-silaketenyl radical (HCSiO): Ground and first excited electronic states. <i>Journal of Molecular Structure</i> , 2000, 556, 293-302.	1.8	1

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109	The silaketenyliene (SiCO) molecule: Characterization of the $\tilde{X}^1\Sigma^+$ and $\tilde{A}^1\Sigma^+$ states. Journal of Chemical Physics, 2000, 112, 3201-3207.	1.2	17
110	The 1-silaketenyl radical (HSiCO): Ground and first excited electronic states. Journal of Chemical Physics, 2000, 112, 2168-2175.	1.2	1
111	Binuclear Homoleptic Nickel Carbonyls: Incorporation of Ni ²⁺ Ni Single, Double, and Triple Bonds, Ni ₂ (CO) _x (x= 5, 6, 7). Journal of the American Chemical Society, 2000, 122, 1989-1994.	6.6	61
112	$\tilde{X}^1\Sigma^+$ - and $\tilde{A}^1\Sigma^+$ Electronic States of Ketenylidene (CCO): Analysis of the Renner Effect in the Upper State. Journal of Physical Chemistry A, 2000, 104, 3603-3612.	1.1	12
113	The 2-Silaketenyliene (CSiO) Radical: Electronic Structure of the $\tilde{X}^1\Sigma^+$ - and $\tilde{A}^1\Sigma^+$ States. Journal of Physical Chemistry A, 2000, 104, 10165-10172.	1.1	13
114	The disilaketenyl radical (HSiSiO) in its ground and first excited electronic states. Journal of Chemical Physics, 1999, 111, 227-234.	1.2	2
115	A Systematic Application of Density Functional Theory to Some Carbon-Containing Molecules and Their Anions. Journal of Physical Chemistry A, 1999, 103, 4065-4077.	1.1	86
116	Excited electronic states of carbon disulphide. Molecular Physics, 1999, 96, 693-704.	0.8	17
117	Excited electronic states of carbon disulphide. , 0, .		2