

Brian W Bush

List of Publications by Year in descending order

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45
papers

1,001
citations

430874

18
h-index

454955

30
g-index

52
all docs

52
docs citations

52
times ranked

716
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal Shape Fluctuations, Landau Theory, and Giant Dipole Resonances in Hot Rotating Nuclei. <i>Physical Review Letters</i> , 1988, 61, 1926-1929.	7.8	88
2	Effects of thermal fluctuations on giant dipole resonances in hot rotating nuclei. <i>Nuclear Physics A</i> , 1990, 509, 461-498.	1.5	85
3	Unified approach to fuzzy graph problems. <i>Fuzzy Sets and Systems</i> , 2002, 125, 355-368.	2.7	82
4	Orientation fluctuations and the angular distribution of the giant-dipole-resonance \hat{I}^3 rays in hot rotating nuclei. <i>Physical Review Letters</i> , 1990, 65, 2527-2530.	7.8	71
5	Nuclear level densities in the static-path approximation: (I). A solvable model. <i>Nuclear Physics A</i> , 1992, 549, 43-58.	1.5	42
6	On the width of the giant dipole resonance in deformed nuclei. <i>Nuclear Physics A</i> , 1991, 531, 27-38.	1.5	39
7	Assessing the value of electric vehicle managed charging: a review of methodologies and results. <i>Energy and Environmental Science</i> , 2022, 15, 466-498.	30.8	39
8	Stochastic approach to giant dipole resonances in hot rotating nuclei. <i>Physical Review Letters</i> , 1989, 63, 2452-2455.	7.8	37
9	Effects of orientation fluctuations on the angular distribution of the giant dipole resonance \hat{I}^3 -rays in hot rotating nuclei. <i>Nuclear Physics A</i> , 1991, 531, 39-62.	1.5	33
10	Ethanol Distribution, Dispensing, and Use: Analysis of a Portion of the Biomass-to-Biofuels Supply Chain Using System Dynamics. <i>PLoS ONE</i> , 2012, 7, e35082.	2.5	32
11	Modeling Hydrogen Refueling Infrastructure to Support Passenger Vehicles $\hat{\epsilon}$. <i>Energies</i> , 2018, 11, 1171.	3.1	32
12	Future integrated mobility-energy systems: A modeling perspective. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 119, 109541.	16.4	32
13	Shape diffusion in the shell model. <i>Physical Review C</i> , 1992, 45, 1709-1719.	2.9	31
14	Modeling biofuel expansion effects on land use change dynamics. <i>Environmental Research Letters</i> , 2013, 8, 015003.	5.2	31
15	Understanding the life cycle surface land requirements of natural gas-fired electricity. <i>Nature Energy</i> , 2017, 2, 804-812.	39.5	30
16	Growing a sustainable biofuels industry: economics, environmental considerations, and the role of the Conservation Reserve Program. <i>Environmental Research Letters</i> , 2013, 8, 025016.	5.2	23
17	Time-dependent shape fluctuations and the giant dipole resonance in hot nuclei: Realistic calculations. <i>Nuclear Physics A</i> , 1990, 514, 434-460.	1.5	21
18	Maturation of biomass $\hat{\epsilon}$ biofuels conversion technology pathways for rapid expansion of biofuels production: a system dynamics perspective. <i>Biofuels, Bioproducts and Biorefining</i> , 2015, 9, 158-176.	3.7	21

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19	Nuclear level densities in the static-path approximation: (II). Spin dependence. Nuclear Physics A, 1993, 565, 399-426.	1.5	19
20	Smoke Production from Multiple Nuclear Explosions in Nonurban Areas. Science, 1985, 229, 465-469.	12.6	18
21	Time-dependent fluctuations and the giant dipole resonance in hot nuclei: Solvable models. Nuclear Physics A, 1991, 531, 1-26.	1.5	18
22	Using system dynamics to model the transition to biofuels in the United States. , 2008, , .		16
23	Potential leverage points for development of the cellulosic ethanol industry supply chain. Biofuels, 2015, 6, 21-29.	2.4	16
24	The systematics of the Landau theory of hot rotating nuclei. Nuclear Physics A, 1992, 549, 12-42.	1.5	13
25	Application of a variance-based sensitivity analysis method to the Biomass Scenario Learning Model. System Dynamics Review, 2017, 33, 311-335.	1.9	13
26	Simulation exploration through immersive parallel planes. , 2016, , .		11
27	Lessons from a large-scale systems dynamics modeling project: the example of the biomass scenario model. System Dynamics Review, 2019, 35, 55-69.	1.9	11
28	Exploring the future energy-mobility nexus: The transportation energy & mobility pathway options (TEMPO) model. Transportation Research, Part D: Transport and Environment, 2021, 98, 102967.	6.8	11
29	A case study to examine the imputation of missing data to improve clustering analysis of building electrical demand. Building Services Engineering Research and Technology, 2015, 36, 628-637.	1.8	10
30	Understanding the Developing Cellulosic Biofuels Industry through Dynamic Modeling. , 0, , .		8
31	Landau theory of shapes, shape fluctuations and giant dipole resonances in hot nuclei. Nuclear Physics A, 1988, 482, 57-64.	1.5	6
32	Measuring the uncertainties of pandemic influenza. International Journal of Risk Assessment and Management, 2012, 16, 1.	0.1	6
33	Enabling immersive engagement in energy system models with deep learning. Statistical Analysis and Data Mining, 2019, 12, 325-337.	2.8	6
34	Classical Hydrodynamics: Foundations of the Theory. Annals of Physics, 1993, 227, 97-150.	2.8	5
35	Graph Visualization for the Analysis of the Structure and Dynamics of Extreme-Scale Supercomputers. Information Visualization, 2004, 3, 209-222.	1.9	4
36	Analytic science for geospatial and temporal variability in renewable energy: A case study in estimating photovoltaic output in Arizona. Solar Energy, 2011, 85, 1945-1956.	6.1	4

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37	Coupling visualization, simulation, and deep learning for ensemble steering of complex energy models. , 2017, , .		4
38	Potential Energy Implications of Connected and Automated Vehicles: Exploring Key Leverage Points through Scenario Screening and Analysis. Transportation Research Record, 2019, 2673, 84-94.	1.9	4
39	Initial Smoke Distribution for Nuclear Winter Calculations. Aerosol Science and Technology, 1989, 10, 37-50.	3.1	3
40	A technique for generating supply and demand curves from system dynamics models. System Dynamics Review, 2020, 36, 373-384.	1.9	3
41	A Note on the Ignition of Vegetation by Nuclear Weapons. Combustion Science and Technology, 1987, 52, 25-38.	2.3	2
42	Simulation process and data flow for a large system dynamics model. Simulation, 0, , 003754972210933.	1.8	2
43	Classical hadrodynamics: application to soft nucleon-nucleon collisions. Nuclear Physics A, 1993, 560, 586-602.	1.5	1
44	Classical hadrodynamics: A new approach to ultrarelativistic heavy-ion collisions. Nuclear Physics A, 1995, 583, 705-710.	1.5	0
45	Learning and Tracking Ad Hoc Fiducial Markers in Spatial Augmented Reality. , 2021, , 565-587.		0