

Adam B Birchfield

List of Publications by Year in descending order

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30
papers

954
citations

933447

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h-index

1281871

11
g-index

30
all docs

30
docs citations

30
times ranked

543
citing authors

#	ARTICLE	IF	CITATIONS
1	Grid Structural Characteristics as Validation Criteria for Synthetic Networks. IEEE Transactions on Power Systems, 2017, 32, 3258-3265.	6.5	446
2	Power Flow Convergence and Reactive Power Planning in the Creation of Large Synthetic Grids. IEEE Transactions on Power Systems, 2018, 33, 6667-6674.	6.5	73
3	Modeling, Tuning, and Validating System Dynamics in Synthetic Electric Grids. IEEE Transactions on Power Systems, 2018, 33, 6501-6509.	6.5	68
4	Statistical Considerations in the Creation of Realistic Synthetic Power Grids for Geomagnetic Disturbance Studies. IEEE Transactions on Power Systems, 2016, , 1-1.	6.5	61
5	A Metric-Based Validation Process to Assess the Realism of Synthetic Power Grids. Energies, 2017, 10, 1233.	3.1	45
6	Application of Large-Scale Synthetic Power System Models for Energy Economic Studies. , 2017, , .		37
7	Building Highly Detailed Synthetic Electric Grid Data Sets for Combined Transmission and Distribution Systems. IEEE Open Access Journal of Power and Energy, 2020, 7, 478-488.	3.4	33
8	Educational Applications of Large Synthetic Power Grids. IEEE Transactions on Power Systems, 2019, 34, 765-772.	6.5	24
9	A Comparison of Peak Electric Fields and GICs in the Pacific Northwest Using 1â€ and 3â€ Conductivity. Space Weather, 2017, 15, 1535-1547.	3.7	23
10	Load modeling in synthetic electric grids. , 2018, , .		23
11	Techniques for Drawing Geographic One-Line Diagrams: Substation Spacing and Line Routing. IEEE Transactions on Power Systems, 2018, 33, 7269-7276.	6.5	16
12	An Interactive, Stand-Alone and Multi-User Power System Simulator for the PMU Time Frame. , 2019, , .		16
13	Using Detailed Ground Modeling to Evaluate Electric Grid Impacts of Late-Time High-Altitude Electromagnetic Pulses (E3 HEMP). IEEE Transactions on Power Systems, 2019, 34, 1549-1557.	6.5	13
14	The Use of Geographic Data Views to Help With Wide-Area Electric Grid Situational Awareness. , 2021, , .		11
15	Wide-Area Electric Grid Visualization Using Pseudo-Geographic Mosaic Displays. , 2019, , .		10
16	Techniques for Maintaining Situational Awareness During Large-Scale Electric Grid Simulations. , 2021, , .		8
17	Impact of 1D vs 3D Earth Conductivity Based Electric Fields on Geomagnetically Induced Currents. , 2018, , .		6
18	Towards Developing Implementable High Altitude Electromagnetic Pulse E3 Mitigation Strategies for Large-Scale Electric Grids. , 2022, , .		6

#	ARTICLE	IF	CITATIONS
19	Mosaic Packing to Visualize Large-Scale Electric Grid Data. IEEE Open Access Journal of Power and Energy, 2020, 7, 212-221.	3.4	5
20	Additional Insights in Creating Large-Scale, High Quality Synthetic Grids: A Case Study. , 2021, , .		5
21	Security Considerations in Transmission Planning for Creating Large Synthetic Power Grids. , 2018, , .		4
22	Delaunay Triangulation Based Wide-Area Visualization of Electric Transmission Grids. , 2021, , .		4
23	Building Synthetic Power Transmission Networks of Many Voltage Levels, Spanning Multiple Areas. , 2018, , .		4
24	Using Large Scale Synthetic Systems for Undergraduate Research in Electric Grid Islanding. , 2018, , .		3
25	Towards Operational Validation: Mapping Power System Inputs to Operating Conditions. , 2018, , .		3
26	Reactive Power and Voltage Control Issues Associated with Large Penetration of Distributed Energy Resources in Power Systems. , 2022, , .		3
27	Synthesize Phasor Measurement Unit Data Using Large-Scale Electric Network Models. , 2019, , .		2
28	Graph Crossings in Electric Transmission Grids. , 2021, , .		1
29	Techniques for Creating Synthetic Combined Electric and Natural Gas Transmission Grids. , 2022, , .		1
30	Preliminary Analysis of Network Fragility and Resilience in Large Electric Grids. , 2021, , .		0