

# Adam B Birchfield

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

954  
citations

933447

10  
h-index

1281871

11  
g-index

30  
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30  
docs citations

30  
times ranked

543  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reactive Power and Voltage Control Issues Associated with Large Penetration of Distributed Energy Resources in Power Systems. , 2022, , .		3
2	Towards Developing Implementable High Altitude Electromagnetic Pulse E3 Mitigation Strategies for Large-Scale Electric Grids. , 2022, , .		6
3	Techniques for Creating Synthetic Combined Electric and Natural Gas Transmission Grids. , 2022, , .		1
4	The Use of Geographic Data Views to Help With Wide-Area Electric Grid Situational Awareness. , 2021, , .		11
5	Delaunay Triangulation Based Wide-Area Visualization of Electric Transmission Grids. , 2021, , .		4
6	Preliminary Analysis of Network Fragility and Resilience in Large Electric Grids. , 2021, , .		0
7	Techniques for Maintaining Situational Awareness During Large-Scale Electric Grid Simulations. , 2021, , .		8
8	Additional Insights in Creating Large-Scale, High Quality Synthetic Grids: A Case Study. , 2021, , .		5
9	Graph Crossings in Electric Transmission Grids. , 2021, , .		1
10	Mosaic Packing to Visualize Large-Scale Electric Grid Data. IEEE Open Access Journal of Power and Energy, 2020, 7, 212-221.	3.4	5
11	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
12	Educational Applications of Large Synthetic Power Grids. IEEE Transactions on Power Systems, 2019, 34, 765-772.	6.5	24
13	An Interactive, Stand-Alone and Multi-User Power System Simulator for the PMU Time Frame. , 2019, , .		16
14	Synthesize Phasor Measurement Unit Data Using Large-Scale Electric Network Models. , 2019, , .		2
15	Wide-Area Electric Grid Visualization Using Pseudo-Geographic Mosaic Displays. , 2019, , .		10
16	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
17	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
18	Modeling, Tuning, and Validating System Dynamics in Synthetic Electric Grids. IEEE Transactions on Power Systems, 2018, 33, 6501-6509.	6.5	68

#	ARTICLE	IF	CITATIONS
19	Load modeling in synthetic electric grids. , 2018, , .		23
20	Impact of 1D vs 3D Earth Conductivity Based Electric Fields on Geomagnetically Induced Currents. , 2018, , .		6
21	Using Large Scale Synthetic Systems for Undergraduate Research in Electric Grid Islanding. , 2018, , .		3
22	Security Considerations in Transmission Planning for Creating Large Synthetic Power Grids. , 2018, , .		4
23	Towards Operational Validation: Mapping Power System Inputs to Operating Conditions. , 2018, , .		3
24	Techniques for Drawing Geographic One-Line Diagrams: Substation Spacing and Line Routing. IEEE Transactions on Power Systems, 2018, 33, 7269-7276.	6.5	16
25	Building Synthetic Power Transmission Networks of Many Voltage Levels, Spanning Multiple Areas. , 2018, , .		4
26	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
27	Grid Structural Characteristics as Validation Criteria for Synthetic Networks. IEEE Transactions on Power Systems, 2017, 32, 3258-3265.	6.5	446
28	A Metric-Based Validation Process to Assess the Realism of Synthetic Power Grids. Energies, 2017, 10, 1233.	3.1	45
29	Application of Large-Scale Synthetic Power System Models for Energy Economic Studies. , 2017, , .		37
30	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