

# David P Chassin

## List of Publications by Year in descending order

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45  
papers

2,361  
citations

567144

15  
h-index

677027

22  
g-index

57  
all docs

57  
docs citations

57  
times ranked

2202  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluating North American electric grid reliability using the Barabási-Albert network model. <i>Physical Review E: Statistical Mechanics and Its Applications</i> , 2005, 355, 667-677.	1.2	210
2	A State-Queueing Model of Thermostatically Controlled Appliances. <i>IEEE Transactions on Power Systems</i> , 2004, 19, 1666-1673.	4.6	207
3	Modeling Uncertainties in Aggregated Thermostatically Controlled Loads Using a State Queueing Model. <i>IEEE Transactions on Power Systems</i> , 2005, 20, 725-733.	4.6	163
4	Estimation of WECC System Inertia Using Observed Frequency Transients. <i>IEEE Transactions on Power Systems</i> , 2005, 20, 1190-1192.	4.6	141
5	GridLAB-D: An Agent-Based Simulation Framework for Smart Grids. <i>Journal of Applied Mathematics</i> , 2014, 2014, 1-12.	0.4	133
6	Load modeling in power system studies: WECC progress update. , 2008, , .		125
7	Modeling framework and validation of a smart grid and demand response system for wind power integration. <i>Applied Energy</i> , 2014, 113, 199-207.	5.1	113
8	Multi-State Load Models for Distribution System Analysis. <i>IEEE Transactions on Power Systems</i> , 2011, 26, 2425-2433.	4.6	92
9	A Power Hardware-in-the-Loop Platform With Remote Distribution Circuit Cosimulation. <i>IEEE Transactions on Industrial Electronics</i> , 2015, 62, 2236-2245.	5.2	91
10	Transactive control of fast-acting demand response based on thermostatic loads in real-time retail electricity markets. <i>Applied Energy</i> , 2018, 210, 1310-1320.	5.1	89
11	Renewable resources portfolio optimization in the presence of demand response. <i>Applied Energy</i> , 2016, 162, 139-148.	5.1	88
12	Aggregate model for heterogeneous thermostatically controlled loads with demand response. , 2012, , .		74
13	A new thermostat for real-time price demand response: Cost, comfort and energy impacts of discrete-time control without deadband. <i>Applied Energy</i> , 2015, 155, 816-825.	5.1	65
14	Aggregate modeling of fast-acting demand response and control under real-time pricing. <i>Applied Energy</i> , 2016, 181, 288-298.	5.1	38
15	Development and Validation of Aggregated Models for Thermostatic Controlled Loads with Demand Response. , 2012, , .		36
16	Decentralized Coordination through Digital Technology, Dynamic Pricing, and Customer-Driven Control: The GridWise Testbed Demonstration Project. <i>Electricity Journal</i> , 2008, 21, 51-59.	1.3	30
17	Aggregated modeling of thermostatic loads in demand response: A systems and control perspective. , 2011, , .		29
18	Electric Vehicle Participation in Transactive Power Systems Using Real-Time Retail Prices. , 2016, , .		24

#	ARTICLE	IF	CITATIONS
19	A test bed for self-regulating distribution systems: Modeling integrated renewable energy and demand response in the GridLAB-D/MATLAB environment. , 2012, , .		23
20	Interconnection-wide hour-ahead scheduling in the presence of intermittent renewables and demand response: A surplus maximizing approach. Applied Energy, 2017, 189, 336-351.	5.1	17
21	$\frac{H}{2} \times 10^2$ transactive control of electric power regulation from fast-acting demand response in the presence of high renewables. Applied Energy, 2017, 205, 304-315.	5.1	17
22	Fault Induced Delayed Voltage Recovery (FIDVR) model validation. , 2016, , .		14
23	On the Equilibrium Dynamics of Demand Response in Thermostatic Loads. , 2011, , .		12
24	What Can the Smart Grid Do for You? And What Can You Do for the Smart Grid?. Electricity Journal, 2010, 23, 57-63.	1.3	11
25	Techno-economic feasibility of a photovoltaic-equipped plug-in electric vehicle public parking lot with coordinated charging. IET Energy Systems Integration, 2020, 2, 261-272.	1.1	11
26	Adaptive Dynamic Simulations for Distribution Systems Using Multistate Load Models. IEEE Transactions on Smart Grid, 2019, 10, 2257-2266.	6.2	10
27	Agent-Based Simulation for Interconnection-Scale Renewable Integration and Demand Response Studies. Engineering, 2015, 1, 422-435.	3.2	8
28	A common data architecture for energy data analytics. , 2017, , .		8
29	Opening Up Transactive Systems: Introducing TESS and Specification in a Field Deployment. Energies, 2021, 14, 3970.	1.6	8
30	Optimal subhourly electricity resource dispatch under multiple price signals with high renewable generation availability. Applied Energy, 2018, 213, 262-271.	5.1	6
31	Accelerating the Gauss-Seidel Power Flow Solver on a High Performance Reconfigurable Computer. , 2009, , .		5
32	The pacific northwest demand response market demonstration. , 2008, , .		4
33	Integration of price-driven demand response using plug-in electric vehicles in smart grids. , 2016, , .		4
34	Thread Group Multithreading: Accelerating the Computation of an Agent-Based Power System Modeling and Simulation Tool – C GridLAB-D. , 2014, , .		3
35	Impact of Building-Level Motor Protection on Power System Transient Behaviors. , 2018, , .		3
36	Generation of composite load protection profiles for reliable system operation. , 2018, , .		3

#	ARTICLE	IF	CITATIONS
37	Load Control Analysis for Intermittent Generation Mitigation. , 2013, , .		2
38	Addressing key challenges in transportation mode electrification. , 2016, , .		2
39	Detailed Modeling of Residential End-Use Motor Load and Protection for Distribution System Transient Study. , 2019, , .		2
40	A Nonlinear Regression Method for Composite Protection Modeling of Induction Motor Loads. , 2020, , .		2
41	Electrical Load Modeling and Simulation. Power Systems, 2013, , 281-334.	0.3	2
42	Introduction to Integrating Distributed and Renewable Resources Minitrack. , 2014, , .		1
43	Beneficial Complexity: A Field Experiment in Technology, Institutions, and Institutional Change in the Electric Power Industry. SSRN Electronic Journal, 0, , .	0.4	1
44	Title: Aggregate modeling and control of demand response speaker: David chassin. , 2012, , .		0
45	Optimization of Customer Subscription Rates to Electric Utility Tariffs. , 2015, , .		0