Abner

List of Publications by Year
in descending order

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		567281	580821
62	725	15	25
papers	citations	h-index	g-index

62	62	62	483
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Implementation of the Numerical Laplace Transform: A Review Task Force on Frequency Domain Methods for EMT Studies, Working Group on Modeling and Analysis of System Transients Using Digital Simulation, General Systems Subcommittee, IEEE Power Engineering Society. IEEE Transactions on Power Delivery, 2008, 23, 2599-2609.	4.3	160
2	Application of Balanced Realizations for Model-Order Reduction of Dynamic Power System Equivalents. IEEE Transactions on Power Delivery, 2016, 31, 2304-2312.	4.3	50
3	The Modified Harmonic Domain: Interharmonics. IEEE Transactions on Power Delivery, 2011, 26, 235-241.	4.3	45
4	Dynamic Harmonic Domain Modeling of Transients in Three-Phase Transmission Lines. IEEE Transactions on Power Delivery, 2008, 23, 2294-2301.	4.3	38
5	Vector Fitting-Based Calculation of Frequency-Dependent Network Equivalents by Frequency Partitioning and Model-Order Reduction. IEEE Transactions on Power Delivery, 2009, 24, 410-415.	4.3	34
6	Extended Harmonic Domain Model of a Wind Turbine Generator for Harmonic Transient Analysis. IEEE Transactions on Power Delivery, 2016, 31, 1360-1368.	4.3	30
7	${z}$-Transform-Based Methods for Electromagnetic Transient Simulations. IEEE Transactions on Power Delivery, 2007, 22, 1799-1805.	4.3	29
8	Harmonic modeling and simulation of a stand-alone photovoltaic-battery-supercapacitor hybrid system. International Journal of Electrical Power and Energy Systems, 2019, 105, 70-78.	5.5	26
9	Frequency-Domain Computation of Steady and Dynamic States Including Nonlinear Elements. IEEE Transactions on Power Delivery, 2009, 24, 1609-1615.	4.3	24
10	Pole-Selective Residue Perturbation Technique for Passivity Enforcement of FDNEs. IEEE Transactions on Power Delivery, 2018, 33, 2746-2754.	4.3	18
11	Frequency-Domain Fitting Techniques: A Review. IEEE Transactions on Power Delivery, 2020, 35, 1102-1110.	4.3	18
12	Flexible extended harmonic domain approach for transient state analysis of switched systems. Electric Power Systems Research, 2018, 155, 40-47.	3.6	17
13	Partitioned Fitting and DC Correction for the Simulation of Electromagnetic Transients in Transmission Lines/Cables. IEEE Transactions on Power Delivery, 2018, 33, 3246-3248.	4.3	17
14	A Broad Range Algorithm for the Evaluation of Carson's Integral. IEEE Transactions on Power Delivery, 2007, 22, 1188-1193.	4.3	16
15	Enhanced Fitting to Obtain an Accurate DC Response of Transmission Lines in the Analysis of Electromagnetic Transients. IEEE Transactions on Power Delivery, 2014, 29, 2614-2621.	4.3	16
16	Direct Frequency Domain Computation of Transmission Line Transients Due to Switching Operations. IEEE Transactions on Power Delivery, 2008, 23, 2255-2261.	4.3	12
17	Harmonic/State Model-Order Reduction_newline of Nonlinear Networks. IEEE Transactions on Power Delivery, 2016, 31, 1379-1387.	4.3	12
18	Interfacing transient stability and extended harmonic domain for dynamic harmonic analysis of power systems. IET Generation, Transmission and Distribution, 2016, 10, 2720-2730.	2.5	11

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19	A frequency-domain equivalent-based approach to compute periodic steady-state of electrical networks. Electric Power Systems Research, 2015, 125, 100-108.	3.6	9
20	Reformulating Extended Harmonic Domain Models for Accurate Representation of Harmonics Dynamics. IEEE Transactions on Power Delivery, 2016, 31, 2562-2564.	4.3	9
21	A novel frequency-domain approach for distributed harmonic analysis of multi-area interconnected power systems. Electric Power Systems Research, 2017, 143, 669-681.	3.6	9
22	A Loewner/MPMâ€”VF Combined Rational Fitting Approach. IEEE Transactions on Power Delivery, 2020, 35, 802-808.	4.3	8
23	Passivity Enforcement of FDNEs via Perturbation of Singularity Test Matrix. IEEE Transactions on Power Delivery, 2020, 35, 1648-1655.	4.3	8
24	Frequency-Domain Simulation of Electromagnetic Transients Using Variable Sampling Time-Step. IEEE Transactions on Power Delivery, 2015, 30, 2602-2604.	4.3	7
25	Periodic Steady State Assessment of Microgrids with Photovoltaic Generation Using Limit Cycle Extrapolation and Cubic Splines. Energies, 2018, 11, 2096.	3.1	7
26	Experimental validation of a hybrid TD/FEHD model of a wind turbine generator for harmonic transient analysis. Electric Power Systems Research, 2018, 163, 49-58.	3.6	6
27	Stability assessment of a stand-alone wind-photovoltaic-battery system via Floquet Theory. Renewable Energy, 2021, 171, 149-158.	8.9	6
28	Fast Steady-State Computation of Electrical Networks Involving Nonlinear and Photovoltaic Components. IEEE Transactions on Smart Grid, 2021, 12, 3107-3114.	9.0	6
29	Frequency Domain Modeling of Photovoltaic Systems for Transient Analysis. IEEE Transactions on Power Delivery, 2022, 37, 3762-3770.	4.3	6
30	Dielectric Response Model for Transformer Insulation Using Frequency Domain Spectroscopy and Vector Fitting. Energies, 2022, 15, 2655.	3.1	6
31	Two-port network equivalent of VSC-HVDC for power flow studies. Electric Power Systems Research, 2018, 163, 430-440.	3.6	5
32	Enhancements in vector fitting implementation by using stopping criterion, frequency partitioning and model order reduction. International Journal of Electrical Power and Energy Systems, 2020, 120, 105905.	5.5	5
33	Periodic steady state solution of distribution networks via sweeping iterations. IET Generation, Transmission and Distribution, 2013, 7, 567-575.	2.5	4
34	Reduced-order extended harmonic domain modeling of switched networks. , 2016, , .		4
35	Reduced-sample numerical Laplace transform for transient and steady-state simulations: Application to networks involving power electronic converters. International Journal of Electrical Power and Energy Systems, 2019, 109, 480-494.	5.5	4
36	Alternative Approach to Alleviate Passivity Violations of Rational-Based Fitted Functions. IEEE Transactions on Power Delivery, 2019, 34, 1161-1170.	4.3	4

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37	A Traveling Wave Based Fault Location Method Using Unsynchronized Current Measurements. , 2019, , .		4
38	Alternative Series-Based Solution to Approximate Pollaczek's Integral. IEEE Transactions on Power Delivery, 2012, 27, 2425-2427.	4.3	3
39	Accurate and Reduced Order Identification of Propagation Function for Electromagnetic Transient Analysis of Cables. IEEE Transactions on Power Delivery, 2020, 35, 968-976.	4.3	3
40	Dual-Band Reduced-Order Model of an HVDC Link Embedded Into a Power Network for EMT Studies. IEEE Transactions on Energy Conversion, 2020, 35, 416-424.	5.2	3
41	Lumped-parameters equivalent of a photovoltaic system for load flow analysis. Renewable Energy, 2021, 170, 163-171.	8.9	3
42	Frequency-Domain Simulation of Networks Including Electronic Devices. IEEE Transactions on Power Delivery, 2009, 24, 2455-2456.	4.3	2
43	Assessment of Harmonic Resonances in Switched Networks. IEEE Transactions on Power Delivery, 2011, 26, 2058-2059.	4.3	2
44	Harmonic domain model of a wind turbine generator for steady-state analysis. , 2015, , .		2
45	Multi-frequency sweeping method for periodic steady-state computations on the graphics processor unit. Electric Power Systems Research, 2015, 121, 295-301.	3.6	2
46	Efficient harmonic-based simulation of switched networks linked to nonlinear circuits. , 2016, , .		2
47	Frequency-domain modeling of time-periodic switched electrical networks: A review. Ain Shams Engineering Journal, 2018, 9, 2527-2533.	6.1	2
48	Practical frequency-domain characterization of switching converters under PWM via Floquet theory. Electric Power Systems Research, 2019, 175, 105849.	3.6	2
49	Reformulating Phase-Shifting Property in Dynamic Harmonic Domain: Time-Periodic Case. IEEE Transactions on Smart Grid, 2019, 10, 3498-3500.	9.0	2
50	SVD-based reduced-order rational approximation on specific frequency bandwidth. , 2015, , .		1
51	Floquet domain for open-loop transient simulation of switched devices. , 2018, , .		1
52	Interharmonic and Harmonic Steady-State Computation of a Grid-Tied Photovoltaic System. , 2019, , .		1
53	Interharmonic Modeling and Simulation via the Flexible Extended Harmonic Domain. , 2019, , .		1
54	Dominant Modes Identification of Linear Systems via Geometrical Search. IEEE Transactions on Power Delivery, 2021, 36, 3289-3298.	4.3	1

#	Article	IF	Citations
55	Sequential Simulation of Three-Phase Photovoltaic Systems in Frequency Domain. , 2021, , .		1
56	Closed-Form calculation of linear Time-Periodic systems via the dynamic flexible extended harmonic domain. International Journal of Electrical Power and Energy Systems, 2022, 143, 108408.	5.5	1
57	Guest Editorial Special Issue on Advances in the Simulation of Power System Transients. IEEE Transactions on Power Delivery, 2016, 31, 2303-2303.	4.3	0
58	Flexible harmonic domain model of a photovoltaic system for steady-state analysis. , 2017, , .		0
59	Modeling and Transient Simulation of Switching Converters-Based Power Systems: Boost Converter. , 2019, , .		0
60	Partitioned Fitting and DC Correction for the Simulation of Electromagnetic Transients in Transmission Lines/Cables. , 2019, , .		0
61	Partitioned fitting and DC correction in transmission line/cable models for wideband EMT studies. Electric Power Systems Research, 2020, 189, 106809.	3.6	0
62	Secant Method Applied to Control of HVDC in the Harmonic Domain. , 2022, , .		0