

# Xiaopeng Fu

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Flexible Shifted-Frequency analysis for Multi-Timescale simulations of active distribution networks. Applied Energy, 2022, 321, 119371.	10.1	3
2	Improving Numerical Accuracy in Time-Domain Simulation for Power Electronics Circuits. IEEE Open Access Journal of Power and Energy, 2021, 8, 157-165.	3.4	9
3	A parallelization-in-time approach for accelerating EMT simulations. Electric Power Systems Research, 2021, 197, 107346.	3.6	2
4	GPU-based power converter transient simulation with matrix exponential integration and memory management. International Journal of Electrical Power and Energy Systems, 2020, 122, 106186.	5.5	6
5	Interpolation for power electronic circuit simulation revisited with matrix exponential and dense outputs. Electric Power Systems Research, 2020, 189, 106714.	3.6	4
6	Exponential integration algorithm for large-scale wind farm simulation with Krylov subspace acceleration. Applied Energy, 2019, 254, 113692.	10.1	10
7	Extended MANA Formulation for Time-domain Simulations of Combined Power and Gas Networks. Energy Procedia, 2019, 158, 6576-6581.	1.8	3
8	Functional Mock-Up Interface Based Parallel Multistep Approach With Signal Correction for Electromagnetic Transients Simulations. IEEE Transactions on Power Systems, 2019, 34, 2482-2484.	6.5	5
9	Augmented Sensitivity Estimation Based Voltage Control Strategy of Active Distribution Networks With PMU Measurement. IEEE Access, 2019, 7, 44987-44997.	4.2	29
10	A Universal Design of FPGA-Based Real-Time Simulator for Active Distribution Networks Based on Reconfigurable Computing. Energies, 2019, 12, 2086.	3.1	1
11	A Comparison of Numerical Integration Methods and Discontinuity Treatment for EMT Simulations. , 2018, , .		7
12	Extendable multirate real-time simulation of active distribution networks based on field programmable gate arrays. Applied Energy, 2018, 228, 2422-2436.	10.1	4
13	Multiscale Simulation of Power System Transients Based on the Matrix Exponential Function. IEEE Transactions on Power Systems, 2017, 32, 1913-1926.	6.5	18
14	Synchronisation mechanism and interfaces design of multi-FPGA-based real-time simulator for microgrids. IET Generation, Transmission and Distribution, 2017, 11, 3088-3096.	2.5	16
15	GPU based parallel matrix exponential algorithm for large scale power system electromagnetic transient simulation. , 2016, , .		2
16	Accurate dense output formula for exponential integrators using the scaling and squaring method. Applied Mathematics Letters, 2015, 43, 101-107.	2.7	8
17	Matrix exponential based electromagnetic transients simulation algorithm with Krylov subspace approximation and accurate dense output. , 2014, , .		2
18	EMTP-type realization of model reduction algorithms for transient simulation of distribution networks. , 2014, , .		2

#	ARTICLE	IF	CITATIONS
19	Adaptive DAE solving algorithm for power system transient simulation via matrix exponential operator. , 2014, , .		0
20	Parallel kernel solver of an FPGA-based real-time simulator for active distribution networks. IET Renewable Power Generation, 0, , .	3.1	0
21	Asynchronous multi-rate method of real-time simulation for active distribution networks. IET Renewable Power Generation, 0, , .	3.1	0