

# Christian Dufour

## List of Publications by Year in descending order

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34  
papers

1,307  
citations

933447

10  
h-index

996975

15  
g-index

35  
all docs

35  
docs citations

35  
times ranked

1052  
citing authors

#	ARTICLE	IF	CITATIONS
1	Real-Time Simulation Technologies for Power Systems Design, Testing, and Analysis. IEEE Power and Energy Technology Systems Journal, 2015, 2, 63-73.	2.8	359
2	A Combined State-Space Nodal Method for the Simulation of Power System Transients. IEEE Transactions on Power Delivery, 2011, 26, 928-935.	4.3	214
3	Applications of Real-Time Simulation Technologies in Power and Energy Systems. IEEE Power and Energy Technology Systems Journal, 2015, 2, 103-115.	2.8	149
4	On the Use of Real-Time Simulation Technology in Smart Grid Research and Development. IEEE Transactions on Industry Applications, 2014, 50, 3963-3970.	4.9	81
5	Hardware-In-the-Loop Simulation of Finite-Element Based Motor Drives with RT-LAB and JMAG. , 2006, , .		54
6	Banshee distribution network benchmark and prototyping platform for hardware-in-the-loop integration of microgrid and device controllers. Journal of Engineering, 2019, 2019, 5365-5373.	1.1	45
7	FPGA-Based Real-Time Simulation of Finite-Element Analysis Permanent Magnet Synchronous Machine Drives. , 2007, , .		42
8	FPGA permanent magnet synchronous motor floating-point models with variable-DQ and spatial harmonic Finite-Element Analysis solvers. , 2012, , .		36
9	General-purpose reconfigurable low-latency electric circuit and motor drive solver on FPGA. , 2012, , .		33
10	An Advanced Real-Time Electro-Magnetic Simulator for power systems with a simultaneous state-space nodal solver. , 2010, , .		25
11	Very-high speed control of an FPGA-based finite-element-analysis permanent magnet synchronous virtual motor drive system. , 2008, , .		23
12	Power system simulation algorithms for parallel computer architectures. , 2012, , .		22
13	A Wideband Line/Cable Model for Real-Time Simulations of Power System Transients. IEEE Transactions on Power Delivery, 2012, 27, 2211-2218.	4.3	22
14	FPGA-based Switched Reluctance Motor Drive and DC-DC converter models for high-bandwidth HIL real-time simulator. , 2013, , .		19
15	A Smart Distribution Grid Laboratory. , 2011, , .		16
16	InfiniBand-Based Real-Time Simulation of HVDC, STATCOM, and SVC Devices with Commercial-Off-The-Shelf PCs and FPGAs. Industrial Electronics Society (IECON ), Annual Conference of IEEE, 2006, , .	0.0	15
17	Hardware-in-the-Loop Testing of hybrid vehicle motor drives at Ford Motor Company. , 2010, , .		15
18	Real-Time Simulation Using Transient Stability, ElectroMagnetic Transient and FPGA-Based High-Resolution Solvers. , 2012, , .		15

#	ARTICLE	IF	CITATIONS
19	Accurate simulation of a 6-pulse inverter with real-time event compensation in ARTEMISâ„¢. Mathematics and Computers in Simulation, 2003, 63, 161-172.	4.4	13
20	Delay-free parallelization for real-time simulation of a large active distribution grid model. , 2016, , .		13
21	Stability and Accuracy Analysis of Power Hardware-in-the-loop Simulation of Inductor Coupled Systems. IEJ Transactions on Industry Applications, 2010, 130, 902-912.	0.2	13
22	Real-Time Simulation of Power Electronic Systems and Devices. Advances in Industrial Control, 2012, , 451-487.	0.5	11
23	FPGA-based Ultra-Low Latency HIL Fault Testing of a Permanent Magnet Motor Drive using RT-LAB-XSG. Simulation, 2008, 84, 161-171.	1.8	10
24	Internally Consistent Nonlinear Behavioral Model of a PM Synchronous Machine for Hardware-in-the-Loop Simulation. IEEE Transactions on Magnetics, 2014, 50, 853-856.	2.1	10
25	An induction machine and power electronic test system on a field-programmable gate array. Mathematics and Computers in Simulation, 2016, 130, 112-123.	4.4	10
26	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
27	On the use of real-time simulation technology in smart grid research and development. , 2013, , .		7
28	A Comparison of Numerical Integration Methods and Discontinuity Treatment for EMT Simulations. , 2018, , .		7
29	Real-time simulation of finite-element analysis permanent magnet synchronous machine drives on a FPGA card. , 2007, , .		6
30	Real-time simulation and control of reluctance motor drives for high speed operation with reduced torque ripple. , 2011, , .		3
31	Testing 750 node distribution grids and devices. , 2015, , .		3
32	Real-Time Hardware-in-the-Loop in Railway. , 2012, , 221-248.		3
33	Power Hardware-in-the-loop Simulation of a Gas Engine Cogeneration System for Developing a Power Converter System. IEJ Transactions on Industry Applications, 2010, 130, 646-654.	0.2	1
34	Hardware-in-the-Loop Simulation of High-Power Modular Converters and Drives. Lecture Notes in Electrical Engineering, 2020, , 17-29.	0.4	0