

# Maher Kayal

## List of Publications by Year in descending order

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Version: 2024-02-01

43  
papers

328  
citations

1478280

6  
h-index

1199470

12  
g-index

44  
all docs

44  
docs citations

44  
times ranked

243  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hall Effect Sensors Design, Integration and Behavior Analysis. Journal of Sensor and Actuator Networks, 2013, 2, 85-97.	2.3	57
2	Comparative Study on the Performance of Five Different Hall Effect Devices. Sensors, 2013, 13, 2093-2112.	2.1	42
3	A fully integrated Hall sensor microsystem for contactless current measurement. , 2012, , .		35
4	High-Speed Power System Transient Stability Simulation Using Highly Dedicated Hardware. IEEE Transactions on Power Systems, 2013, 28, 4218-4227.	4.6	35
5	Temperature considerations on Hall Effect sensors current-related sensitivity behaviour. Analog Integrated Circuits and Signal Processing, 2013, 77, 355-364.	0.9	18
6	A Circuit Model for CMOS Hall Cells Performance Evaluation including Temperature Effects. Advances in Condensed Matter Physics, 2013, 2013, 1-10.	0.4	14
7	Geometrical parameters influence on the Hall effect sensors offset and drift. , 2011, , .		12
8	Temperature considerations on Hall Effect sensors current-related sensitivity behaviour. , 2012, , .		12
9	Reducing the Number of Comparators in Multibit $\Delta\Sigma$ Modulators. IEEE Transactions on Circuits and Systems I: Regular Papers, 2008, 55, 1011-1022.	3.5	9
10	A current-mode back-end for a sensor microsystem. , 2011, , .		9
11	A distributed, event-driven building management platform on web technologies. , 2015, , .		8
12	A Hall sensor microsystem with continuous gain calibration using fully integrated references. , 2012, , .		7
13	MOS-PN Hybrid Device With Minimum Dark Current for Sensitive Digital Photodetection. IEEE Photonics Technology Letters, 2014, 26, 2062-2065.	1.3	6
14	High-speed analog processing for real-time fault location in electrical power networks. , 2015, , .		6
15	Simultaneous High-Speed High-Resolution Nanomechanical Mass Sensing. IEEE Sensors Journal, 2014, 14, 2488-2489.	2.4	5
16	Automatic multi-state load profile identification with application to energy disaggregation. , 2017, , .		5
17	A DC power flow extension. , 2013, , .		4
18	OTA-C based high-speed analog processing for real-time fault location in electrical power networks. Analog Integrated Circuits and Signal Processing, 2016, 89, 61-67.	0.9	4

#	ARTICLE	IF	CITATIONS
19	Comparison of MPC Formulations for Building Control under Commercial Time-of-Use Tariffs. , 2019, , .		4
20	An internally non-linear ADC for a &#x03A3;&#x0394; accelerometer loop. , 2010, , .		3
21	An ultra high-speed, mixed-signal emulator for solving power system dynamic equations. , 2011, , .		3
22	Temperature influence investigation on Hall Effect sensors performance using a lumped circuit model. , 2012, , .		3
23	A self-regulating oscillator for sensor operation of nanoelectromechanical systems. , 2013, , .		3
24	Computing the Impact of White and Flicker Noise in Continuous-Time Integrator-Based ADCs. , 2016, , .		3
25	An event-driven low power electronics for loads metering and control in smart buildings. , 2016, , .		3
26	Implementation of a high-speed discrete-time analog emulator for real-time fault location in electrical power networks. , 2017, , .		3
27	High-speed analogue sampled-data signal processing for real-time fault location in electrical power networks. IET Circuits, Devices and Systems, 2018, 12, 624-629.	0.9	3
28	A mixed-signal platform dedicated to power system dynamic computation. , 2011, , .		2
29	Mixed-signal power system emulator extension to solve unbalanced fault transient stability analysis. , 2014, , .		2
30	Power flow method using a dedicated mixed-signal hardware platform. , 2015, , .		2
31	Design of a fA wide dynamic range ADC for current sensing. Analog Integrated Circuits and Signal Processing, 2018, 97, 405-415.	0.9	2
32	On-chip mass sensing at the physical limits of nanoelectromechanical systems. , 2013, , .		1
33	Transient stability analysis of series unbalanced conditions using dedicated mixed-signal hardware. , 2015, , .		1
34	Toward event-driven mechanism for load profile generation. , 2017, , .		1
35	A frequency-tunable impedance matching network based on coupled inductors for RF power amplifiers. , 2008, , .		0
36	9 MHz Vibrating Body FET tuning fork oscillator. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
37	Robust control of oscillating NEMS sensors. , 2013, , .		0
38	Distributed real-time dynamic security assessment using intelligent techniques. , 2013, , .		0
39	System-Level Design Considerations for Carbon Nanotube Electromechanical Resonators. Journal of Sensors, 2013, 2013, 1-12.	0.6	0
40	Optimized operation and temperature dependence of a direct light-to-time converter. , 2015, , .		0
41	Toward low-power PPG-based heart rate monitoring using a MOS-PN hybrid photosensor. , 2017, , .		0
42	Ultra High-Speed Hardware Emulator for Real-Time Fault Location in Multi-Conductor Power Systems. , 2018, , .		0
43	Switched-capacitor high-speed emulator for real-time fault location in electrical power systems. Analog Integrated Circuits and Signal Processing, 2018, 97, 449-456.	0.9	0