Mohieddine Amor Benammar

List of Publications by Year
in descending order

53 papers	1,521 citations	430442 18 h-index	500791 28 g-index
53 all docs	53 docs citations	53 times ranked	1527 citing authors

#	Article	IF	Citations
1	A Smart Rig for Calibration of Gas Sensor Nodes. Sensors, 2020, 20, 2341.	2.1	4
2	Design and realization of an open‑source and modular smart meter. Energy Science and Engineering, 2019, 7, 1405-1422.	1.9	19
3	New Fast Arctangent Approximation Algorithm for Generic Real-Time Embedded Applications. Sensors, 2019, 19, 5148.	2.1	5
4	Embedded Platform for Gas Applications Using Hardware/Software Co-Design and RFID. IEEE Sensors Journal, 2018, 18, 4633-4642.	2.4	14
5	A Modular IoT Platform for Real-Time Indoor Air Quality Monitoring. Sensors, 2018, 18, 581.	2.1	142
6	Smart-home automation using IoT-based sensing and monitoring platform. , 2018, , .		103
7	A simple method for extracting the parameters of the PV cell single-diode model. Renewable Energy, 2017, 113, 885-894.	4.3	73
8	Long-term performance analysis and power prediction of PV technology in the State of Qatar. Renewable Energy, 2017, 113, 952-965.	4.3	49
9	Review and simulation of leakage current in transformerless microinverters for PV applications. Renewable and Sustainable Energy Reviews, 2017, 74, 1240-1256.	8.2	35
10	Electronic nose system on the Zynq SoC platform. Microprocessors and Microsystems, 2017, 53, 145-156.	1.8	8
11	A Sinusoidal Encoder-to-Digital Converter Based on an Improved Tangent Method. IEEE Sensors Journal, 2017, 17, 5169-5179.	2.4	27
12	Quartz Crystal Microbalance Electronic Interfacing Systems: A Review. Sensors, 2017, 17, 2799.	2.1	126
13	Hybrid transparent conductive electrodes with copper nanowires embedded in a zinc oxide matrix and protected by reduced graphene oxide platelets. Journal of Applied Physics, 2016, 119, .	1.1	6
14	HW/SW co-design based implementation of Gas discrimination. , 2016, , .		0
15	An Empirical Study for PCA- and LDA-Based Feature Reduction for Gas Identification. IEEE Sensors Journal, 2016, 16, 5734-5746.	2.4	65
16	Integration of the inexpensive CuNWs based transparent counter electrode with dye sensitized photo sensors. RSC Advances, 2016, 6, 53123-53129.	1.7	3
17	Ultra-high aspect ratio copper nanowires as transparent conductive electrodes for dye sensitized solar cells. , 2016, , .		1
18	High Level Synthesis Based E-Nose System for Gas Applications. , 2016, , .		2

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19	A Novel PLL Resolver Angle Position Indicator. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 123-131.	2.4	40
20	A dynamic prognosis scheme for flexible operation of gas turbines. Applied Energy, 2016, 164, 686-701.	5.1	70
21	Angular position measurement using resolvers together with a robust linearization technique. , 2015, , .		3
22	Transient Gas Turbine Performance Diagnostics Through Nonlinear Adaptation of Compressor and Turbine Maps. Journal of Engineering for Gas Turbines and Power, 2015, 137, .	0.5	76
23	Ultrahigh Aspect Ratio Copper-Nanowire-Based Hybrid Transparent Conductive Electrodes with PEDOT:PSS and Reduced Graphene Oxide Exhibiting Reduced Surface Roughness and Improved Stability. ACS Applied Materials & Interfaces, 2015, 7, 16223-16230.	4.0	88
24	Performance-based prognosis scheme for industrial gas turbines. , 2015, , .		2
25	Two-Step Single Slope/SAR ADC with Error Correction for CMOS Image Sensor. Scientific World Journal, The, 2014, 2014, 1-6.	0.8	6
26	Continuous-Time$\Sigma\Delta$ADC with Implicit Variable Gain Amplifier for CMOS Image Sensor. Scientific World Journal, The, 2014, 2014, 1-7.	0.8	1
27	A multi-sensing reconfigurable platform for gas applications. , 2014, , .		4
28	A component map tuning method for performance prediction and diagnostics of gas turbine compressors. Applied Energy, 2014, 135, 572-585.	5.1	96
29	Development of energy efficient battery electric car for Shell Eco-Marathon competition - Qatar University experience. , 2014, , .		3
30	A new tracking technique for mechanical angle measurement. Measurement: Journal of the International Measurement Confederation, 2014, 54, 58-64.	2.5	25
31	A low power temperature sensor based on a voltage to time converter cell. , 2013, , .		2
32	A new fast tracking resolver for mechanical angle measurement. , 2013, , .		0
33	PCA IP-core for gas applications on the heterogenous zynq platform. , 2013, , .		2
34	A low power oscillator based temperature sensor for RFID applications. , 2013, , .		8
35	Dynamic Performance Simulation of an Aeroderivative Gas Turbine Using the Matlab Simulink Environment. , 2013, , .		24
36	Application of genetic algorithm in selection of dominant input variables in sensor fault diagnosis of nonlinear systems. , 2013, , .		1

#	Article	IF	Citations
37	Hardware PCA for gas identification systems using high level synthesis on the Zynq SoC. , 2013, , .		3
38	Design of Qatar University's first solar car for Shell Eco-marathon competition. , 2012, , .		13
39	Multiple sensor fault diagnosis for non-linear and dynamic system by evolving approach. , 2012, , .		2
40	A new PLL method for resolvers. , 2010, , .		10
41	Digitally-tuned resolver converter. Procedia Chemistry, 2009, 1, 449-452.	0.7	4
42	Development of a remote lab for electrical engineering program. , 2009, , .		5
43	Novel linearizer for tangent/cotangent converter. , 2009, , .		6
44	Development of a remote lab for electrical engineering program. , 2009, , .		5
45	A Resolver Angle Estimator Based on Its Excitation Signal. IEEE Transactions on Industrial Electronics, 2009, 56, 574-580.	5.2	71
46	A novel method for estimating the angle from analog co-sinusoidal quadrature signals. Sensors and Actuators A: Physical, 2008, 142, 225-231.	2.0	38
47	A New Low Cost Linear Resolver Converter. IEEE Sensors Journal, 2008, 8, 1620-1627.	2.4	63
48	An open-loop technique for angle determination from position encoders. , 2008, , .		1
49	A new angle determination method for resolvers. , 2008, , .		1
50	A resolver converter based upon a novel open-loop technique. , 2008, , .		1
51	A Novel Converter for Sinusoidal Encoders. , 2006, , .		5
52	A High Precision Resolver-to-DC Converter. IEEE Transactions on Instrumentation and Measurement, 2005, 54, 2289-2296.	2.4	80
53	A Novel Resolver-to-360>tex<^circ>/tex<Linearized Converter. IEEE Sensors Journal, 2004, 4, 96-101.	2.4	80