

Mohieddine Amor Benammar

List of Publications by Year in descending order

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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 Modular IoT Platform for Real-Time Indoor Air Quality Monitoring. <i>Sensors</i> , 2018, 18, 581.	2.1	142
2	Quartz Crystal Microbalance Electronic Interfacing Systems: A Review. <i>Sensors</i> , 2017, 17, 2799.	2.1	126
3	Smart-home automation using IoT-based sensing and monitoring platform. , 2018, , .		103
4	A component map tuning method for performance prediction and diagnostics of gas turbine compressors. <i>Applied Energy</i> , 2014, 135, 572-585.	5.1	96
5	Ultrahigh Aspect Ratio Copper-Nanowire-Based Hybrid Transparent Conductive Electrodes with PEDOT:PSS and Reduced Graphene Oxide Exhibiting Reduced Surface Roughness and Improved Stability. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 16223-16230.	4.0	88
6	A Novel Resolver-to-360° Linearized Converter. <i>IEEE Sensors Journal</i> , 2004, 4, 96-101.	2.4	80
7	A High Precision Resolver-to-DC Converter. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2005, 54, 2289-2296.	2.4	80
8	Transient Gas Turbine Performance Diagnostics Through Nonlinear Adaptation of Compressor and Turbine Maps. <i>Journal of Engineering for Gas Turbines and Power</i> , 2015, 137, .	0.5	76
9	A simple method for extracting the parameters of the PV cell single-diode model. <i>Renewable Energy</i> , 2017, 113, 885-894.	4.3	73
10	A Resolver Angle Estimator Based on Its Excitation Signal. <i>IEEE Transactions on Industrial Electronics</i> , 2009, 56, 574-580.	5.2	71
11	A dynamic prognosis scheme for flexible operation of gas turbines. <i>Applied Energy</i> , 2016, 164, 686-701.	5.1	70
12	An Empirical Study for PCA- and LDA-Based Feature Reduction for Gas Identification. <i>IEEE Sensors Journal</i> , 2016, 16, 5734-5746.	2.4	65
13	A New Low Cost Linear Resolver Converter. <i>IEEE Sensors Journal</i> , 2008, 8, 1620-1627.	2.4	63
14	Long-term performance analysis and power prediction of PV technology in the State of Qatar. <i>Renewable Energy</i> , 2017, 113, 952-965.	4.3	49
15	A Novel PLL Resolver Angle Position Indicator. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2016, 65, 123-131.	2.4	40
16	A novel method for estimating the angle from analog co-sinusoidal quadrature signals. <i>Sensors and Actuators A: Physical</i> , 2008, 142, 225-231.	2.0	38
17	Review and simulation of leakage current in transformerless microinverters for PV applications. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 74, 1240-1256.	8.2	35
18	A Sinusoidal Encoder-to-Digital Converter Based on an Improved Tangent Method. <i>IEEE Sensors Journal</i> , 2017, 17, 5169-5179.	2.4	27

#	ARTICLE	IF	CITATIONS
19	A new tracking technique for mechanical angle measurement. Measurement: Journal of the International Measurement Confederation, 2014, 54, 58-64.	2.5	25
20	Dynamic Performance Simulation of an Aeroderivative Gas Turbine Using the Matlab Simulink Environment. , 2013, , .		24
21	Design and realization of an open-source and modular smart meter. Energy Science and Engineering, 2019, 7, 1405-1422.	1.9	19
22	Embedded Platform for Gas Applications Using Hardware/Software Co-Design and RFID. IEEE Sensors Journal, 2018, 18, 4633-4642.	2.4	14
23	Design of Qatar University's first solar car for Shell Eco-marathon competition. , 2012, , .		13
24	A new PLL method for resolvers. , 2010, , .		10
25	A low power oscillator based temperature sensor for RFID applications. , 2013, , .		8
26	Electronic nose system on the Zynq SoC platform. Microprocessors and Microsystems, 2017, 53, 145-156.	1.8	8
27	Novel linearizer for tangent/cotangent converter. , 2009, , .		6
28	Two-Step Single Slope/SAR ADC with Error Correction for CMOS Image Sensor. Scientific World Journal, The, 2014, 2014, 1-6.	0.8	6
29	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
30	A Novel Converter for Sinusoidal Encoders. , 2006, , .		5
31	Development of a remote lab for electrical engineering program. , 2009, , .		5
32	Development of a remote lab for electrical engineering program. , 2009, , .		5
33	New Fast Arctangent Approximation Algorithm for Generic Real-Time Embedded Applications. Sensors, 2019, 19, 5148.	2.1	5
34	Digitally-tuned resolver converter. Procedia Chemistry, 2009, 1, 449-452.	0.7	4
35	A multi-sensing reconfigurable platform for gas applications. , 2014, , .		4
36	A Smart Rig for Calibration of Gas Sensor Nodes. Sensors, 2020, 20, 2341.	2.1	4

#	ARTICLE	IF	CITATIONS
37	Hardware PCA for gas identification systems using high level synthesis on the Zynq SoC. , 2013, , .		3
38	Development of energy efficient battery electric car for Shell Eco-Marathon competition - Qatar University experience. , 2014, , .		3
39	Angular position measurement using resolvers together with a robust linearization technique. , 2015, , .		3
40	Integration of the inexpensive CuNWs based transparent counter electrode with dye sensitized photo sensors. RSC Advances, 2016, 6, 53123-53129.	1.7	3
41	Multiple sensor fault diagnosis for non-linear and dynamic system by evolving approach. , 2012, , .		2
42	A low power temperature sensor based on a voltage to time converter cell. , 2013, , .		2
43	PCA IP-core for gas applications on the heterogenous zynq platform. , 2013, , .		2
44	Performance-based prognosis scheme for industrial gas turbines. , 2015, , .		2
45	High Level Synthesis Based E-Nose System for Gas Applications. , 2016, , .		2
46	An open-loop technique for angle determination from position encoders. , 2008, , .		1
47	A new angle determination method for resolvers. , 2008, , .		1
48	A resolver converter based upon a novel open-loop technique. , 2008, , .		1
49	Application of genetic algorithm in selection of dominant input variables in sensor fault diagnosis of nonlinear systems. , 2013, , .		1
50	Continuous-Time \hat{I} ADC with Implicit Variable Gain Amplifier for CMOS Image Sensor. Scientific World Journal, The, 2014, 2014, 1-7.	0.8	1
51	Ultra-high aspect ratio copper nanowires as transparent conductive electrodes for dye sensitized solar cells. , 2016, , .		1
52	A new fast tracking resolver for mechanical angle measurement. , 2013, , .		0
53	HW/SW co-design based implementation of Gas discrimination. , 2016, , .		0