Bengt Oelmann

List of Publications by Year
in descending order

34	292	9	15
papers	citations	h-index	g-index

34	34	34	283
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	One-diode photovoltaic model parameters at indoor illumination levels â€" A comparison. Solar Energy, 2019, 180, 707-716.	6.1	46
2	A comparative study of in-sensor processing vs. raw data transmission using ZigBee, BLE and Wi-Fi for data intensive monitoring applications. , 2014, , .		29
3	Characterization of Indoor Light Conditions by Light Source Classification. IEEE Sensors Journal, 2017, 17, 3884-3891.	4.7	28
4	Power Estimation for Indoor Light Energy Harvesting Systems. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 7513-7521.	4.7	25
5	A Survey on Variable Reluctance Energy Harvesters in Low-Speed Rotating Applications. IEEE Sensors Journal, 2018, 18, 3426-3435.	4.7	18
6	Printed touch sensor for interactive packaging and display. , 2007, , .		14
7	Design, modeling and optimization of an m-shaped variable reluctance energy harvester for rotating applications. Energy Conversion and Management, 2019, 195, 1280-1294.	9.2	14
8	An Apparatus for the Performance Estimation of Pressure Fluctuation Energy Harvesters. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 2705-2713.	4.7	10
9	A space-coiling resonator for improved energy harvesting in fluid power systems. Sensors and Actuators A: Physical, 2019, 291, 58-67.	4.1	10
10	Performance of An Electromagnetic Energy Harvester with Linear and Nonlinear Springs under Real Vibrations. Sensors, 2020, 20, 5456.	3.8	9
11	On the Performance of the Two-Diode Model for Photovoltaic Cells Under Indoor Artificial Lighting. IEEE Access, 2021, 9, 1350-1361.	4.2	9
12	A Comparison of One- and Two-Diode Model Parameters at Indoor Illumination Levels. IEEE Access, 2020, 8, 172057-172064.	4.2	8
13	Self-Powered Wireless Sensor Using a Pressure Fluctuation Energy Harvester. Sensors, 2021, 21, 1546.	3.8	8
14	Design Optimization and Comparison of Cylindrical Electromagnetic Vibration Energy Harvesters. Sensors, 2021, 21, 7985.	3.8	8
15	Model and Placement Optimization of a Sky Surveillance Visual Sensor Network. , 2011, , .		7
16	The effects of temperature gradient on transient behavior of low-range differential air pressure calibration setup. , 2015, , .		6
17	On the Modeling of Solar-Powered Wireless Sensor Nodes. Journal of Sensor and Actuator Networks, 2014, 3, 207-223.	3.9	5
18	High Performance Reference Setup for Characterization and Calibration of Low-Range Differential Pressure Sensors. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 154-162.	4.7	5

#	Article	IF	Citations
19	Torque Sensor Based on Differential Air Pressure Using Volumetric Strain. IEEE Sensors Journal, 2017, 17, 3269-3277.	4.7	5
20	A Scalable, Data-driven Approach for Power Estimation of Photovoltaic Devices under Indoor Conditions. , 2019, , .		5
21	System Implementation Trade-Offs for Low-Speed Rotational Variable Reluctance Energy Harvesters. Sensors, 2021, 21, 6317.	3.8	4
22	Influence of Refresh Circuits Connected to Low Power Digital Quasi-Floating Gate Designs. , 2006, , .		3
23	A concept for remotely reconfigurable solar energy harvesting testbeds. , 2017, , .		3
24	Estimating Harvestable Energy in Time-Varying Indoor Light Conditions. , 2020, , .		3
25	Initial characterization of a 2V 1.1kW MOSFET commutated DC motor. , 2016, , .		2
26	Torque sensor design considering thermal stability for harsh industrial environments. , 2018, , .		2
27	Energy-autonomous On-rotor RPM Sensor Using Variable Reluctance Energy Harvesting. , 2019, , .		2
28	Investigation of a 2 V 1.1 kW MOSFET commutated DC motor. , 2016, , .		1
29	Force Transmission Interfaces for Pressure Fluctuation Energy Harvesters. , 2018, , .		1
30	Suitability of Communication Technologies for Harvester-Powered IoT-Nodes. , 2019, , .		1
31	Functional verification of a torque sensor based on the volumetric strain method. , 2016, , .		1
32	Remote image capturing with low-cost and low-power wireless camera nodes. , 2014, , .		0
33	Design optimization of differential air pressure sensor calibration setup for sensitivity minimization to thermal gradient. , 2015, , .		0
34	Distributed Measurement of Light Conditions for Indoor Photovoltaic Applications. , 2020, , .		0