

Cheng-Ta Chiang

List of Publications by Year in descending order

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50
papers

300
citations

1040056

9
h-index

996975

15
g-index

50
all docs

50
docs citations

50
times ranked

309
citing authors

#	ARTICLE	IF	CITATIONS
1	A Semicylindrical Capacitive Sensor With Interface Circuit Used for Flow Rate Measurement. IEEE Sensors Journal, 2006, 6, 1564-1570.	4.7	45
2	A Low-Photocurrent CMOS Retinal Focal-Plane Sensor With a Pseudo-BJT Smoothing Network and an Adaptive Current Schmitt Trigger for Scanner Applications. IEEE Sensors Journal, 2004, 4, 510-518.	4.7	37
3	Design of a High-Sensitivity Ambient Particulate Matter 2.5 Particle Detector for Personal Exposure Monitoring Devices. IEEE Sensors Journal, 2018, 18, 165-169.	4.7	21
4	A Monolithic CMOS Autocompensated Sensor Transducer for Capacitive Measuring Systems. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 2472-2486.	4.7	16
5	Design of a Digitized Vibration Detector Implemented by CMOS Digitized Capacitive Transducer With In-Plane Sol Accelerometer. IEEE Sensors Journal, 2014, 14, 2546-2556.	4.7	14
6	Design of a CMOS MEMS Accelerometer Used in IoT Devices for Seismic Detection. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2018, 8, 566-577.	3.6	14
7	A CMOS Digitized Silicon Condenser Microphone for Acoustic Applications. IEEE Sensors Journal, 2011, 11, 296-304.	4.7	12
8	Development of a Calibrated Transducer CMOS Circuit for Water Turbidity Monitoring. IEEE Sensors Journal, 2016, 16, 4478-4483.	4.7	10
9	Design of a Calibrated Salinity Sensor Transducer for Monitoring Salinity of Ocean Environment and Aquaculture. IEEE Sensors Journal, 2015, 15, 5151-5157.	4.7	9
10	A CMOS Seawater Salinity to Digital Converter for IoT Applications of Fish Farms. IEEE Transactions on Circuits and Systems I: Regular Papers, 2017, 64, 2591-2597.	5.4	9
11	Design of CMOS Monolithic Digitized Light Transducer With Calibration Technique for Ambient Light Sensor Applications. IEEE Sensors Journal, 2013, 13, 1931-1940.	4.7	8
12	Design of a Gas Sensor Transducer Circuitry With Calibration Ability for CO ₂ Concentration Detection. IEEE Sensors Journal, 2016, 16, 6367-6373.	4.7	8
13	Design of an Ultraviolet Light Intensity Monitor for Personally Wearable Devices. IEEE Sensors Journal, 2018, 18, 4673-4678.	4.7	8
14	Design of a Calibrated Liquid Level Sensor Transducer for Detecting Rainfall of Botanic Garden. IEEE Sensors Journal, 2015, 15, 3311-3316.	4.7	7
15	Design of A CMOS Intelligent Light Sensing Chip for Automatic Brightness Tuning Applications. IEEE Sensors Journal, 2013, 13, 4955-4961.	4.7	6
16	A CMOS Fish Spoilage Detector for IoT Applications of Fish Markets. IEEE Sensors Journal, 2018, 18, 375-381.	4.7	6
17	A Pitaya Dye-Sensitized Solar Cell Monitor for Environmental Sunlight Intensity Detection. IEEE Sensors Journal, 2019, 19, 4229-4236.	4.7	6
18	A CMOS readout circuit with frequency optimization for microphone sensor arrays. , 2010, , .		5

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19	Design of a CMOS phase to digital transducer for optical incremental sensors. Sensors and Actuators A: Physical, 2011, 170, 106-113.	4.1	5
20	A 12-bit multi-channel dual-mode successive approximation ADC for power management bus (Pmbus) devices. International Journal of Circuit Theory and Applications, 2013, 41, 498-513.	2.0	5
21	Design of a CMOS Digitized Gas Transducer With Noise Shaping for CO ₂ Concentration Monitoring Applications. IEEE Sensors Journal, 2016, 16, 975-982.	4.7	5
22	A CMOS Wearable Infrared Light Intensity Digital Converter for Monitoring Unplanned Self-Extubation of Patients. IEEE Sensors Journal, 2019, 19, 6430-6436.	4.7	5
23	A CMOS MEMS Audio Transducer Implemented by Silicon Condenser Microphone With Analog Front-End Circuits of Audio Codec. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2012, 20, 1656-1667.	3.1	4
24	A 12-bit 50 MS/s pipelined ADC with power optimized strategy for ultrasonic imaging instruments. , 2012, , .		3
25	Design of a CMOS Calibrated Monolithic Illumination Meter for Monitoring Solar Radiation of Tomato Crops. IEEE Sensors Journal, 2015, 15, 5285-5290.	4.7	3
26	A CMOS Monolithic Position-Sensitive Detector With Stray Illumination Noise Removal for Light-Spot Position Detection Applications. IEEE Sensors Journal, 2017, 17, 1918-1924.	4.7	3
27	A CMOS Fish Freshness to Continuous-Time Incremental Sigma-Delta Modulator for Monitoring Fish Freshness in Fish Markets. , 2019, , .		3
28	A Citric Acid Concentration Detector Used With Chicken Poultry Drinking Solution. IEEE Sensors Journal, 2019, 19, 1135-1140.	4.7	3
29	A CMOS Biologically Expansion/Contraction Motion Sensor and Its Implementation on Z-Motion Direction/Velocity Detection. IEEE Sensors Journal, 2015, 15, 2166-2176.	4.7	2
30	A Wide-Range Sugar Concentration to Duty Cycle Converter with Scaling Circuits for Detecting Sugar Concentration Applications. , 2019, , .		2
31	Design of a Water Salinity Difference Detector for Monitoring Instantaneous Salinity Changes in Aquaculture. IEEE Sensors Journal, 2020, 20, 3242-3248.	4.7	2
32	A Soil Yeast Count Monitor for Plant Growing Applications. IEEE Sensors Journal, 2021, 21, 23510-23517.	4.7	2
33	A Novel Capsaicin Concentration Detector for Individuals With Capsaicin Sensitivity. IEEE Sensors Journal, 2021, 21, 13727-13734.	4.7	2
34	A CMOS retinal computational sensor for 2-D image tracking and velocity measuring. , 2011, , .		1
35	A CMOS retinal rotational sensor for clockwise/counterclockwise detecting and velocity measuring. , 2011, , .		1
36	A versatile gas/vision tracking robot for security system applications. , 2012, , .		1

#	ARTICLE	IF	CITATIONS
37	A CMOS auto-calibrated light-to-frequency converter. , 2012, , .		1
38	Design of a PA controller for a quad-band cell phone. , 2013, , .		1
39	Design of a CMOS Digitized Wind Transducer With Noise Insensitivity for Wind Environmental Monitoring Applications. IEEE Sensors Journal, 2015, 15, 2046-2053.	4.7	1
40	Design of a CMOS Chlorophyll Concentration Detector Based on Organic Chlorophyll Battery for Measuring Vegetable Chlorophyll Concentration. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2017, 25, 1725-1730.	3.1	1
41	An infrared photocurrent intensity to continuous-time incremental sigma-delta modulator for monitoring unplanned self-extubation of patients in medical institution. , 2018, , .		1
42	A Glucose Concentration Detector With Wide-Range Converter Used on Livestock. IEEE Sensors Journal, 2020, 20, 6114-6120.	4.7	1
43	A CMOS Capsaicin Concentration Converter with Auto-Sensitivity Control Circuits for Sensing Scoville Scale Applications. , 2020, , .		1
44	A low-cost CMOS dual-mode AC/DC data converter for signal measuring technique. Analog Integrated Circuits and Signal Processing, 2010, 63, 255-271.	1.4	0
45	A CMOS LED print head driver with compensation circuits. , 2011, , .		0
46	A CMOS phase to digital converter for optical encoders. , 2011, , .		0
47	A CMOS hybrid random number generator for cryptographic systems. , 2012, , .		0
48	A low-cost CMOS intelligent light-sensing chip for environment light-sensing applications. , 2012, , .		0
49	Design of a CMOS Led Print Head Driver With Compensation Circuits. IEEE Sensors Journal, 2012, 12, 870-879.	4.7	0
50	A CMOS monolithic light to sigma-delta modulator for environmental monitoring applications. , 2013, , .		0