

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 Soil Yeast Count Monitor for Plant Growing Applications. IEEE Sensors Journal, 2021, 21, 23510-23517. | 4.7 | 2 |
| 2 | A Novel Capsaicin Concentration Detector for Individuals With Capsaicin Sensitivity. IEEE Sensors Journal, 2021, 21, 13727-13734. | 4.7 | 2 |
| 3 | Design of a Water Salinity Difference Detector for Monitoring Instantaneous Salinity Changes in Aquaculture. IEEE Sensors Journal, 2020, 20, 3242-3248. | 4.7 | 2 |
| 4 | A Glucose Concentration Detector With Wide-Range Converter Used on Livestock. IEEE Sensors Journal, 2020, 20, 6114-6120. | 4.7 | 1 |
| 5 | A CMOS Capsaicin Concentration Converter with Auto-Sensitivity Control Circuits for Sensing Scoville Scale Applications. , 2020, , . | | 1 |
| 6 | A CMOS Fish Freshness to Continuous-Time Incremental Sigma-Delta Modulator for Monitoring Fish Freshness in Fish Markets. , 2019, , . | | 3 |
| 7 | 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 |
| 8 | A Pitaya Dye-Sensitized Solar Cell Monitor for Environmental Sunlight Intensity Detection. IEEE Sensors Journal, 2019, 19, 4229-4236. | 4.7 | 6 |
| 9 | A Wide-Range Sugar Concentration to Duty Cycle Converter with Scaling Circuits for Detecting Sugar Concentration Applications. , 2019, , . | | 2 |
| 10 | A Citric Acid Concentration Detector Used With Chicken Poultry Drinking Solution. IEEE Sensors Journal, 2019, 19, 1135-1140. | 4.7 | 3 |
| 11 | 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 |
| 12 | 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 |
| 13 | A CMOS Fish Spoilage Detector for IoT Applications of Fish Markets. IEEE Sensors Journal, 2018, 18, 375-381. | 4.7 | 6 |
| 14 | An infrared photocurrent intensity to continuous-time incremental sigma-delta modulator for monitoring unplanned self-extubation of patients in medical institution. , 2018, , . | | 1 |
| 15 | Design of an Ultraviolet Light Intensity Monitor for Personally Wearable Devices. IEEE Sensors Journal, 2018, 18, 4673-4678. | 4.7 | 8 |
| 16 | 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 |
| 17 | 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 |
| 18 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | Development of a Calibrated Transducer CMOS Circuit for Water Turbidity Monitoring. IEEE Sensors Journal, 2016, 16, 4478-4483. | 4.7 | 10 |
| 22 | Design of a Calibrated Liquid Level Sensor Transducer for Detecting Rainfall of Botanic Garden. IEEE Sensors Journal, 2015, 15, 3311-3316. | 4.7 | 7 |
| 23 | 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 |
| 24 | 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 |
| 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 Biologically Expansion/Contraction Motion Sensor and Its Implementation on Z-Motion Direction/Velocity Detection. IEEE Sensors Journal, 2015, 15, 2166-2176. | 4.7 | 2 |
| 27 | 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 |
| 28 | 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 |
| 29 | Design of A CMOS Intelligent Light Sensing Chip for Automatic Brightness Tuning Applications. IEEE Sensors Journal, 2013, 13, 4955-4961. | 4.7 | 6 |
| 30 | Design of a PA controller for a quad-band cell phone. , 2013, , . | | 1 |
| 31 | 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 |
| 32 | A CMOS monolithic light to sigma-delta modulator for environmental monitoring applications. , 2013, , . | | 0 |
| 33 | A CMOS hybrid random number generator for cryptographic systems. , 2012, , . | | 0 |
| 34 | A versatile gas/vision tracking robot for security system applications. , 2012, , . | | 1 |
| 35 | A CMOS auto-calibrated light-to-frequency converter. , 2012, , . | | 1 |
| 36 | A low-cost CMOS intelligent light-sensing chip for environment light-sensing applications. , 2012, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Design of a CMOS Led Print Head Driver With Compensation Circuits. IEEE Sensors Journal, 2012, 12, 870-879. | 4.7 | 0 |
| 38 | A 12-bit 50 MS/s pipelined ADC with power optimized strategy for ultrasonic imaging instruments. , 2012, , . | | 3 |
| 39 | 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 |
| 40 | A CMOS retinal computational sensor for 2-D image tracking and velocity measuring. , 2011, , . | | 1 |
| 41 | A CMOS retinal rotational sensor for clockwise/counterclockwise detecting and velocity measuring. , 2011, , . | | 1 |
| 42 | A CMOS LED print head driver with compensation circuits. , 2011, , . | | 0 |
| 43 | A CMOS Digitized Silicon Condenser Microphone for Acoustic Applications. IEEE Sensors Journal, 2011, 11, 296-304. | 4.7 | 12 |
| 44 | Design of a CMOS phase to digital transducer for optical incremental sensors. Sensors and Actuators A: Physical, 2011, 170, 106-113. | 4.1 | 5 |
| 45 | A CMOS phase to digital converter for optical encoders. , 2011, , . | | 0 |
| 46 | 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 |
| 47 | A CMOS readout circuit with frequency optimization for microphone sensor arrays. , 2010, , . | | 5 |
| 48 | A Monolithic CMOS Autocompensated Sensor Transducer for Capacitive Measuring Systems. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 2472-2486. | 4.7 | 16 |
| 49 | A Semicylindrical Capacitive Sensor With Interface Circuit Used for Flow Rate Measurement. IEEE Sensors Journal, 2006, 6, 1564-1570. | 4.7 | 45 |
| 50 | 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 |