Wilfried Uhring

List of Publications by Year in descending order

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840776 996975 84 441 11 15 citations h-index g-index papers 84 84 84 354 docs citations times ranked citing authors all docs

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | A low-cost high-repetition-rate picosecond laser diode pulse generator. , 2004, , . | | 31 |
| 2 | High-throughput time-correlated single photon counting. Lab on A Chip, 2014, 14, 4338-4343. | 6.0 | 31 |
| 3 | Very high long-term stability synchroscan streak camera. Review of Scientific Instruments, 2003, 74, 2646-2653. | 1.3 | 24 |
| 4 | Sizing of Lithium-lon Battery/Supercapacitor Hybrid Energy Storage System for Forklift Vehicle. Energies, 2020, 13, 4518. | 3.1 | 21 |
| 5 | Streak camera: a multidetector for diffuse optical tomography. Applied Optics, 2003, 42, 3313. | 2.1 | 19 |
| 6 | Carbon Dioxide Sensingâ€"Biomedical Applications to Human Subjects. Sensors, 2022, 22, 188. | 3.8 | 18 |
| 7 | Single snapshot of optical properties image quality improvement using anisotropic two-dimensional windows filtering. Journal of Biomedical Optics, 2019, 24, 1. | 2.6 | 16 |
| 8 | Towards sensitive, high-throughput, biomolecular assays based on fluorescence lifetime. Methods and Applications in Fluorescence, 2017, 5, 034002. | 2.3 | 15 |
| 9 | Real-time, wide-field, and quantitative oxygenation imaging using spatiotemporal modulation of light. Journal of Biomedical Optics, 2019, 24, 1. | 2.6 | 14 |
| 10 | Single snapshot imaging of optical properties using a single-pixel camera: a simulation study. Journal of Biomedical Optics, 2019, 24, 1. | 2.6 | 14 |
| 11 | Measuring hemoglobin spectra: searching for carbamino-hemoglobin. Journal of Biomedical Optics, 2020, 25, . | 2.6 | 13 |
| 12 | A New Spatiotemporal CMOS Imager With Analog Accumulation Capability for Nanosecond Low-Power Pulse Detections. IEEE Sensors Journal, 2006, 6, 1200-1208. | 4.7 | 11 |
| 13 | Study and Influence of Standardized Driving Cycles on the Sizing of Li-Ion Battery / Supercapacitor Hybrid Energy Storage. , 2019, , . | | 11 |
| 14 | Streak camera in standard (Bi)CMOS (bipolar complementary metal-oxide-semiconductor) technology. Measurement Science and Technology, 2010, 21, 115203. | 2.6 | 10 |
| 15 | High-dynamic-range microscope imaging based on exposure bracketing in full-field optical coherence tomography. Optics Letters, 2016, 41, 1313. | 3.3 | 10 |
| 16 | Real-time optical properties and oxygenation imaging using custom parallel processing in the spatial frequency domain. Biomedical Optics Express, 2019, 10, 3916. | 2.9 | 9 |
| 17 | A Fully Characterizable Asynchronous Multiphase Delay Generator. IEEE Transactions on Nuclear Science, 2011, 58, 418-425. | 2.0 | 7 |
| 18 | Detection of defects in a transparent polymer with high resolution tomography using white light scanning interferometry and noise reduction., 2015,,. | | 7 |

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| 19 | A single photon avalanche detector in a 180 nm standard CMOS technology. , 2015, , . | | 7 |
| 20 | Comparison of two time-resolved detectors for diffuse optical tomography: photomultiplier tube-time-correlated single photon counting and multichannel streak camera., 2003,,. | | 6 |
| 21 | 200 ps FWHM and 100 MHz repetition rate ultrafast gated camera for optical medical functional imaging. Proceedings of SPIE, 2012, , . | 0.8 | 6 |
| 22 | Evaluation of size influence on performance figures of a single photon avalanche diode fabricated in a 180Ânm standard CMOS technology. Analog Integrated Circuits and Signal Processing, 2016, 89, 69-76. | 1.4 | 6 |
| 23 | Body-biasing considerations with SPAD FDSOI: advantages and drawbacks., 2019,,. | | 6 |
| 24 | Image processing provides low-frequency jitter correction for synchroscan streak camera temporal resolution enhancement., 2004, 5457, 245. | | 5 |
| 25 | Integrated streak camera in standard (Bi)CMOS technology. , 2010, , . | | 5 |
| 26 | Time-gated near-infrared spectroscopic imaging of brain activation: a simulation proof of concept. Proceedings of SPIE, 2011 , , . | 0.8 | 5 |
| 27 | Sub-500-ps Temporal Resolution Streak-Mode Optical Sensor. IEEE Sensors Journal, 2015, 15, 6570-6583. | 4.7 | 5 |
| 28 | A hybrid time to digital converter based on digital delay locked loop and analog time to amplitude converter. , 2017, , . | | 5 |
| 29 | An Ultrafast Active Quenching Active Reset Circuit with 50% SPAD Afterpulsing Reduction in a 28 nm FD-SOI CMOS Technology Using Body Biasing Technique. Sensors, 2021, 21, 4014. | 3.8 | 5 |
| 30 | 12 × 7.14 GS/s rate time-resolved BiCMOS imager. , 2010, , . | | 4 |
| 31 | A time-gated near-infrared spectroscopic imaging device for clinical applications Proceedings of SPIE, 2013, , . | 0.8 | 4 |
| 32 | 10-ps Resolution hybrid time to digital converter in a 0.18 μm CMOS technology. , 2014, , . | | 4 |
| 33 | On the influence of strong magnetic field on MOS transistors. , 2016, , . | | 4 |
| 34 | A real time 3D video CMOS sensor with time gated photon counting. , 2017, , . | | 4 |
| 35 | An Asynchronous Fixed Priority Arbiter for High througput Time Correlated Single Photon Counting Systems. , 2018, , . | | 4 |
| 36 | A 5 Million Frames Per Second 3D Stacked Image Sensor With In-Pixel Digital Storage. , 2018, , . | | 4 |

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| 37 | Design Methodology and Timing Considerations for implementing a TDC on a Cyclone V FPGA Target. , 2020, , . | | 4 |
| 38 | < title $>$ Model of an instrumented optoelectronic transmission system in HDL-A and VHDL-AMS $<$ /title $>$. , 1999, , . | | 3 |
| 39 | A fast high-resolution CMOS imager for nanosecond light pulse detections. , 2004, 5451, 434. | | 3 |
| 40 | A safe, low-cost, and portable instrumentation for bedside time-resolved picosecond near infrared spectroscopy. Proceedings of SPIE, 2009, , . | 0.8 | 3 |
| 41 | Streak-mode optical sensor in standard BiCMOS technology. , 2011, , . | | 3 |
| 42 | A 64 single photon avalanche diode array in 0.18 $\hat{A}\mu m$ CMOS standard technology with versatile quenching circuit for quick prototyping. , 2012, , . | | 3 |
| 43 | Ultrafast Imaging in Standard (Bi)CMOS Technology. , 0, , . | | 3 |
| 44 | Signal conditioning circuits for 3D-integrated burst image sensors with on-chip A/D conversion. Proceedings of SPIE, 2015, , . | 0.8 | 3 |
| 45 | Embedded fluorescence lifetime determination for high throughput real-time droplet sorting with microfluidics. , $2017, $, . | | 3 |
| 46 | Parallelized Integrated Time-Correlated Photon Counting System for High Photon Counting Rate Applications. , 0, , . | | 3 |
| 47 | Comparison of Time Resolved Optical Turbidity Measurements for Water Monitoring to Standard Real-Time Techniques. Sensors, 2021, 21, 3136. | 3.8 | 3 |
| 48 | Measuring hemoglobin spectra: searching for carbamino-hemoglobin. Journal of Biomedical Optics, 2020, 25, . | 2.6 | 3 |
| 49 | An Ultrafast Active Quenching Circuit for SPAD in CMOS 28nm FDSOI Technology. , 2020, , . | | 3 |
| 50 | Real-time measurement of microscopic surface shape using high-speed cameras with continuously scanning interference microscopy., 2004, 5458, 101. | | 2 |
| 51 | Modular streak camera concept with independent design of electro-optical configuration and electronics., 2005,,. | | 2 |
| 52 | Compatibility of temporal multiplexed spatial light modulator with optical image processing. Optics Communications, 2007, 275, 27-37. | 2.1 | 2 |
| 53 | Methods for improvement of spatial light modulator image rendering. Optical Engineering, 2009, 48, 034002. | 1.0 | 2 |
| 54 | A new high-resolution Time-to-Digital Converter concept based on a 128 stage 0.35 µm CMOS delay generator., 2009,,. | | 2 |

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| 55 | Efficiency improvement of high rate integrated time correlated single photon counting systems by incorporating an embedded FIFO. , $2015, \dots$ | | 2 |
| 56 | Sub-nanosecond gated photon counting for high spatial resolution CMOS imagers. , 2016, , . | | 2 |
| 57 | A Scalable Architecture for Multi Millions Frames per Second CMOS Sensor With Digital Storage. , 2018, , . | | 2 |
| 58 | Embedded Fluorescence Lifetime Determination for High-Throughput, Low-Photon-Number Applications. Journal of Signal Processing Systems, 2019, 91, 819-831. | 2.1 | 2 |
| 59 | A spatiotemporal CMOS imager for nanosecond low power pulse detections. , 0, , . | | 1 |
| 60 | A fast CMOS array imager for nanosecond light pulse detection in accumulation mode. , 2004, , . | | 1 |
| 61 | Optical implementation of the filtered backprojection algorithm. Optical Engineering, 2007, 46, 108202. | 1.0 | 1 |
| 62 | Integrated Circuit Architectures for High-Speed Time-Resolved Imaging. , 2010, , . | | 1 |
| 63 | Architectures and signal reconstruction methods for nanosecond resolution Integrated Streak Camera in standard CMOS technology. , 2010, , . | | 1 |
| 64 | Sub-200 fs rms jitter constant fraction discriminator for streak camera triggering. , 2014, , . | | 1 |
| 65 | Impact of laser phase and amplitude noises on streak camera temporal resolution. Review of Scientific Instruments, 2015, 86, 094703. | 1.3 | 1 |
| 66 | Improvement in measurements of hydroxyapatite layers by hybrid high dynamic range image processing in white-light interferometry. Materials Today: Proceedings, 2017, 4, S36-S43. | 1.8 | 1 |
| 67 | Modeling the effect of strong magnetic field on n-type MOSFET in strong inversion. , 2018, , . | | 1 |
| 68 | Basics of Micro/Nano Fluidics and Biology. Microtechnology and MEMS, 2020, , 7-87. | 0.2 | 1 |
| 69 | Time-Resolved fluorescence measurement system for real-time high-throughput microfluidic droplet sorting. , 2020, , . | | 1 |
| 70 | Design and Characterization of an Asynchronous Fixed Priority Tree Arbiter for SPAD Array Readout. Sensors, 2021, 21, 3949. | 3.8 | 1 |
| 71 | An Active Quenching Circuit for a Native 3D SPAD Pixel in a 28 nm CMOS FDSOI Technology. , 2021, , . | | 1 |
| 72 | Synchroscan streak camera temporal resolution improvement by phase-locked loop technique., 2003, 4948, 324. | | 0 |

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| 73 | FLC-SLM dynamic improvement with temporal multiplexing: application to optical image processing., 2006, 6183, 390. | | O |
| 74 | VHDL-AMS models of FLC for spatial light modulator virtual prototyping., 2006, 6183, 400. | | 0 |
| 75 | Capabilities of a new spatiotemporal CMOS imager for nanosecond low power pulse detection. , 2006, 6187, 472. | | 0 |
| 76 | Analogue-driven bistable ferroelectric liquid crystals. Analog Integrated Circuits and Signal Processing, 2008, 57, 187-196. | 1.4 | 0 |
| 77 | Optoelectronic implementation of helical cone-beam computed tomography algorithms. Optical Engineering, 2008, 47, 058201. | 1.0 | O |
| 78 | Performances of a solid streak camera in standard CMOS technology with nanosecond time resolution. Proceedings of SPIE, 2008, , . | 0.8 | 0 |
| 79 | Electrothermal analysis of 3D integrated ultra-fast image sensor with digital frame storage. , 2015, , . | | O |
| 80 | High-resolution full-field optical coherence tomography using high dynamic range image processing. Proceedings of SPIE, 2016, , . | 0.8 | 0 |
| 81 | Introduction to the special issue on IEEE NEWCAS 2017. Analog Integrated Circuits and Signal Processing, 2018, 97, 395-396. | 1.4 | 0 |
| 82 | Skew Reduction on a long transmission line using multiple local DLLs for high-speed imagery. , 2018, , . | | 0 |
| 83 | A High Dynamic Range High Speed Pixel Operating at 100 Million Frames Per Second. , 2020, , . | | 0 |
| 84 | Real-time multispectral optical imaging using GPGPU processing. , 2019, , . | | 0 |