Carlo Ettore Fiorini

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2948857/publications.pdf Version: 2024-02-01



| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Kaonic atoms measurements at the DAΦNE collider: the SIDDHARTA-2 experiment. EPJ Web of Conferences, 2022, 258, 07006. | 0.3 | 0 |
| 2 | Handheld Magnetic-Compliant Gamma-Ray Spectrometer for Environmental Monitoring and Scrap Metal Screening. Sensors, 2022, 22, 1412. | 3.8 | 11 |
| 3 | Main Features of the SIDDHARTA-2 Apparatus for Kaonic Deuterium X-Ray Measurements. EPJ Web of Conferences, 2022, 262, 01016. | 0.3 | 1 |
| 4 | Large area silicon drift detectors system for high precision timed x-ray spectroscopy. Measurement Science and Technology, 2022, 33, 095502. | 2.6 | 13 |
| 5 | A 144-SiPM 3―LaBr3 readout module for PMTs replacement in Gamma spectroscopy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1040, 167179. | 1.6 | 3 |
| 6 | GAMMA: A 16-Channel Spectroscopic ASIC for SiPMs Readout With 84-dB Dynamic Range. IEEE Transactions on Nuclear Science, 2021, 68, 2559-2572. | 2.0 | 27 |
| 7 | A Lightweight SiPM-Based Gamma-Ray Spectrometer for Environmental Monitoring with Drones. Lecture Notes in Electrical Engineering, 2021, , 55-61. | 0.4 | 3 |
| 8 | Reducing the MIPs Charge-Sharing Background in X-Ray Spectroscopic SDD Arrays. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-7. | 4.7 | 4 |
| 9 | Miniaturized USB-powered multi-channel module for gamma spectroscopy and imaging. Review of Scientific Instruments, 2021, 92, 063306. | 1.3 | 6 |
| 10 | The MiniSDD-Based 1-Mpixel Camera of the DSSC Project for the European XFEL. IEEE Transactions on Nuclear Science, 2021, 68, 1334-1350. | 2.0 | 28 |
| 11 | Silicon Drift Detectors' Spectroscopic Response during the SIDDHARTA-2 Kaonic Helium Run at the DAΦNE Collider. Condensed Matter, 2021, 6, 47. | 1.8 | 7 |
| 12 | A Filterless Fluorescence Detector Based on a Time-Gated SiPM. , 2021, , . | | 1 |
| 13 | Challenges for Microelectronics in Non-Invasive Medical Diagnostics. Sensors, 2020, 20, 3636. | 3.8 | 5 |
| 14 | A Directional Gamma-Ray Spectrometer With Microcontroller-Embedded Machine Learning. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2020, 10, 433-443. | 3.6 | 25 |
| 15 | Clinical SiPM-Based MRI-Compatible SPECT: Preliminary Characterization. IEEE Transactions on Radiation and Plasma Medical Sciences, 2020, 4, 371-377. | 3.7 | 15 |
| 16 | TERA: Throughput-Enhanced Readout ASIC for High-Rate Energy-Dispersive X-Ray Detection. IEEE Transactions on Nuclear Science, 2020, 67, 1746-1759. | 2.0 | 10 |
| 17 | A SiPM-based 144-Channel Detection System for Gamma Spectroscopy up to 20 MeV. , 2020, , . | | 0 |
| | | | |

18 DOI Estimation for a Clinical MRI-Compatible SPECT Insert. , 2020, , .

0

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | First Prototype of 2×2 SCARLET: Readout ASIC for Bump-bonded SDD Array for Large Event Throughput. , 2020, , . | | 3 |
| 20 | Implementation of Real-Time Machine Learning Algorithms for 3D Scintillation Position Estimation in Thick Crystals. , 2020, , . | | 2 |
| 21 | A Compact 4-Decade Dynamic Range Readout Module for Gamma Spectroscopy and Imaging. , 2019, , . | | 11 |
| 22 | Assessment of analog pulse processor performance for ultra high-rate x-ray spectroscopy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 945, 162479. | 1.6 | 19 |
| 23 | Charge Sensitive Amplifier With Offset-Compensated V-to-I Converter for the Mini-SDD-Based DSSC Detector. IEEE Transactions on Nuclear Science, 2019, 66, 2233-2238. | 2.0 | 3 |
| 24 | Validation and Performance Assessment of a Preclinical SiPM-Based SPECT/MRI Insert. IEEE Transactions on Radiation and Plasma Medical Sciences, 2019, 3, 483-490. | 3.7 | 13 |
| 25 | Characterization of ARDESIA: a 4-channel SDD X-ray spectrometer for synchrotron measurements at high count rates. Journal of Instrumentation, 2019, 14, P06027-P06027. | 1.2 | 20 |
| 26 | Spectroscopic performance of a Sr co-doped 3―LaBr3 scintillator read by a SiPM array. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 931, 158-161. | 1.6 | 19 |
| 27 | Energy Response of Silicon Drift Detectors for Kaonic Atom Precision Measurements. Condensed Matter, 2019, 4, 31. | 1.8 | 20 |
| 28 | ARDESIA: A fast silicon drift detector X-ray spectrometer for synchrotron applications. X-Ray Spectrometry, 2019, 48, 382-386. | 1.4 | 7 |
| 29 | 32-Channel Detection Unit for Combined XRF-XRD in Mining Transportable Applications. , 2019, , . | | 2 |
| 30 | A High Dynamic Range 144-SiPM Detection Module for Gamma Spectroscopy and Imaging with 3―LaBr3. , 2019, , . | | 4 |
| 31 | A SiPM-Based Clinical MRI-Compatible SPECT Insert. , 2019, , . | | 1 |
| 32 | GAMMA: a High Dynamic Range 16-ch ASIC for Large Scintillators Readout with SiPM Array. , 2019, , . | | 3 |
| 33 | Passivated SDD-Based Detection Unit to Improve Reliability in Scintillation Detection. , 2019, , . | | Ο |
| 34 | Spectroscopic Performance of TERA: Fast Multichannel Analog Pulse Processor ASIC for X-ray Detection Applications. , 2019, , . | | 0 |
| 35 | Wireless and Robust Radioactivity Detector for Environmental Monitoring. , 2019, , . | | 1 |
| 36 | Application of Silicon Drift Detectors for the Readout of a CdWO ₄ Scintillating Crystal. IEEE Transactions on Nuclear Science, 2018, 65, 1040-1046. | 2.0 | 7 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | High-Resolution Gamma-Ray Spectroscopy With a SiPM-Based Detection Module for 1―and 2― LaBr ₃ :Ce Readout. IEEE Transactions on Nuclear Science, 2018, 65, 645-655. | 2.0 | 24 |
| 38 | Development of clinical simultaneous SPECT/MRI. British Journal of Radiology, 2018, 91, 20160690. | 2.2 | 51 |
| 39 | LAILA: a Compact, High-Dynamic Range Readout for High-Density SiPM Arrays. , 2018, , . | | 3 |
| 40 | Characterization of the First Prototype of TERA: A Readout ASIC for Ultra High Rate X-ray Detection Applications. , 2018, , . | | 1 |
| 41 | SPECT/MRI INSERT Compatibility: Assessment, Solutions, and Design Guidelines. IEEE Transactions on Radiation and Plasma Medical Sciences, 2018, 2, 369-379. | 3.7 | 28 |
| 42 | Characterization of the Detection Module of the INSERT SPECT/MRI Clinical System. IEEE Transactions on Radiation and Plasma Medical Sciences, 2018, 2, 554-563. | 3.7 | 19 |
| 43 | GAMMA ASIC: 8-channels Prototype Measurements and Development of a New 16-channels Prototype. , 2018, , . | | 4 |
| 44 | SiPM-Based Scrap Metal Radioactivity Detector Embeddable in Lifting Electromagnets. , 2018, , . | | 2 |
| 45 | ETTORE: a 12-Channel Front-End ASIC for SDDs with Integrated JFET. , 2018, , . | | 6 |
| 46 | Simultaneous SPECT/MR Imaging with a SiPM-Based Preclinical Insert. , 2018, , . | | 1 |
| 47 | Laser-Based Scintillator Crystal Emulator for Optical Testing of SiPM Readout Technologies. , 2018, , . | | 1 |
| 48 | ARDESIA Detection Module: A Four-Channel Array of SDDs for Mcps X-Ray Spectroscopy in Synchrotron Radiation Applications. IEEE Transactions on Nuclear Science, 2018, 65, 1355-1364. | 2.0 | 20 |
| 49 | A SiPM-Readout ASIC for SPECT Applications. IEEE Transactions on Radiation and Plasma Medical Sciences, 2018, 2, 404-410. | 3.7 | 27 |
| 50 | Development of a Practical Calibration Procedure for a Clinical SPECT/MRI System Using a Single INSERT Prototype Detector and Multimini Slit-Slat Collimator. IEEE Transactions on Radiation and Plasma Medical Sciences, 2018, 2, 380-386. | 3.7 | 7 |
| 51 | A Bulk Control Circuit for Open-Loop Front-Ends for X-Ray Pixel Detectors. IEEE Transactions on Nuclear Science, 2017, 64, 1605-1610. | 2.0 | 2 |
| 52 | Characterization of high density SiPM non-linearity and energy resolution for prompt gamma imaging applications. Journal of Instrumentation, 2017, 12, P07001-P07001. | 1.2 | 18 |
| 53 | An open-loop front-end stage with signal compression capability and improved PSRR for mini-SDD pixel detectors. Journal of Instrumentation, 2017, 12, T12008-T12008. | 1.2 | 2 |
| 54 | Study of PMOS front-end solution with signal compression for XFEL MiniSDD X-ray detectors. , 2016, , . | | 2 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | SFERA: An Integrated Circuit for the Readout of X and <inline-formula> <tex-math notation="LaTeX">\$gamma \$ </tex-math </inline-formula> -Ray Detectors. IEEE Transactions on Nuclear Science, 2016, 63, 1797-1807. | 2.0 | 46 |
| 56 | Development of arrays of Silicon Drift Detectors and readout ASIC for the SIDDHARTA experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 824, 449-451. | 1.6 | 14 |
| 57 | A 12-bit SAR ADC integrated on a multichannel silicon drift detector readout IC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 824, 353-355. | 1.6 | 6 |
| 58 | A CMOS self-triggered gated integrator circuit for SiPM readout in SPECT applications. , 2015, , . | | 1 |
| 59 | Experimental Evaluation of a SiPM-Based Scintillation Detector for MR-Compatible SPECT Systems. IEEE Transactions on Nuclear Science, 2015, 62, 2122-2128. | 2.0 | 27 |
| 60 | Silicon Drift Detectors and CUBE Preamplifiers for High-Resolution X-ray Spectroscopy. IEEE Transactions on Nuclear Science, 2015, 62, 221-227. | 2.0 | 45 |
| 61 | Development of a Detector for Gamma-Ray Spectroscopy Based on Silicon Drift Detector Arrays and 2 <formula formulatype="inline"><tex notation="TeX">\${^prime}{^prime}\$</tex> </formula> Lanthanum Bromide Scintillator. IEEE Transactions on Nuclear Science, 2015, 62, 2334-2342. | 2.0 | 8 |
| 62 | Collimator Design for a Brain SPECT/MRI Insert. IEEE Transactions on Nuclear Science, 2015, 62, 1716-1724. | 2.0 | 20 |
| 63 | A Simple Technique for Signal Compression in High Dynamic Range, High Speed X-ray Pixel Detectors. IEEE Transactions on Nuclear Science, 2014, 61, 2595-2600. | 2.0 | 16 |
| 64 | Simulation of the expected performance of INSERT: A new multi-modality SPECT/MRI system for preclinical and clinical imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 734, 141-146. | 1.6 | 21 |
| 65 | Prompt gamma imaging of proton pencil beams at clinical dose rate. Physics in Medicine and Biology, 2014, 59, 5849-5871. | 3.0 | 120 |
| 66 | ANGUS: A multichannel CMOS circuit for large capacitance silicon photomultiplier detectors for SPECT applications. , 2014, , . | | 12 |
| 67 | A compact SiPM photodetector array for SPECT applications. , 2014, , . | | 4 |
| 68 | Development of a SiPM-based Anger camera for INSERT, a new multi-modality SPECT/MRI system for preclinical and clinical imaging. , 2014, , . | | 5 |
| 69 | A Multichannel Integrated Readout Circuit for High Throughput X-Ray Spectroscopy With Silicon Drift Detectors. IEEE Transactions on Nuclear Science, 2013, 60, 430-436. | 2.0 | 13 |
| 70 | Silicon Drift Detectors for Readout of Scintillators in Gamma-Ray Spectroscopy. IEEE Transactions on Nuclear Science, 2013, 60, 2923-2933. | 2.0 | 23 |
| 71 | High rate X-ray spectroscopy with "CUBE" preamplifier coupled with silicon drift detector. , 2012, , . | | 18 |
| 72 | Development of the DEPFET Sensor With Signal Compression: A Large Format X-Ray Imager With Mega-Frame Readout Capability for the European XFEL. IEEE Transactions on Nuclear Science, 2012, 59, 3339-3351. | 2.0 | 83 |

CARLO ETTORE FIORINI

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | VERDI-3: A versatile readout ASIC for different families of radiation detectors. , 2012, , . | | 2 |
| 74 | The HICAM Gamma Camera. IEEE Transactions on Nuclear Science, 2012, 59, 537-544. | 2.0 | 22 |
| 75 | Characterization of the Flip Capacitor Filter for the XFEL-DSSC Project. IEEE Transactions on Nuclear Science, 2011, 58, 2032-2038. | 2.0 | 13 |
| 76 | A new measurement of kaonic hydrogen X-rays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 704, 113-117. | 4.1 | 314 |
| 77 | Performance of silicon-drift detectors in kaonic atom X-ray measurements. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 628, 264-267. | 1.6 | 27 |
| 78 | "CUBE", A low-noise CMOS preamplifier as alternative to JFET front-end for high-count rate spectroscopy. , 2011, , . | | 57 |
| 79 | A fast current readout strategy for the XFEL DePFET detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 624, 360-366. | 1.6 | 19 |
| 80 | Expected performance of the DEPFET sensor with signal compression: A large format X-ray imager with mega-frame readout capability for the European XFEL. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 624, 509-519. | 1.6 | 71 |
| 81 | ICARUS-SDD: a 16 channel ASIC for silicon drift detectors read-out. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 504, 304-306. | 1.6 | 7 |
| 82 | Single-side biasing of silicon drift detectors with homogeneous light-entrance window. IEEE Transactions on Nuclear Science, 2000, 47, 1691-1695. | 2.0 | 24 |
| 83 | Gamma ray spectroscopy with CsI(Tl) scintillator coupled to silicon drift chamber. IEEE Transactions on Nuclear Science, 1997, 44, 2553-2560. | 2.0 | 90 |