Wojciech Zaboł,otny

List of Publications by Year
in descending order

71 papers	275 citations	1307366 7 h-index	1125617 13 g-index
72 all docs	72 docs citations	72 times ranked	243 citing authors

#	Article	IF	Citations
1	Design of soft-X-ray tomographic system in WEST using GEM detectors. Fusion Engineering and Design, 2015, 96-97, 856-860.	1.0	37
2	Dual port memory based Heapsort implementation for FPGA. Proceedings of SPIE, 2011, , .	0.8	25
3	Title is missing!. Journal of Clinical Monitoring and Computing, 1997, 14, 185-198.	0.3	19
4	Synchronization methods for the PAC RPC trigger system in the CMS experiment. Measurement Science and Technology, 2007, 18, 2446-2455.	1.4	13
5	Development of GEM detector for tokamak SXR tomography system: Preliminary laboratory tests. Fusion Engineering and Design, 2017, 123, 877-881.	1.0	13
6	Optimization of FPGA processing of GEM detector signal. , 2011, , .		10
7	Serial data acquisition for GEM-2D detector. Proceedings of SPIE, 2014, , .	0.8	10
8	Multichannel Data Acquisition System for GEM Detectors. Journal of Fusion Energy, 2019, 38, 467-479.	0.5	8
9	Radiation tests of CMS RPC muon trigger electronic components. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 538, 708-717.	0.7	7
10	Data processing boards design for CBM experiment. Proceedings of SPIE, 2014, , .	0.8	7
11	The software-defined fast post-processing for GEM soft x-ray diagnostics in the Tungsten Environment in Steady-state Tokamak thermal fusion reactor. Review of Scientific Instruments, 2018, 89, 063504.	0.6	7
12	Fast data transmission from serial data acquisition for the GEM detector system. Proceedings of SPIE, 2015, , .	0.8	6
13	Fast Data-Driven Readout System for the Wide Aperture Silicon Tracking System of the BM@N Experiment. Physics of Particles and Nuclei, 2021, 52, 830-834.	0.2	6
14	DMA implementations for FPGA-based data acquisition systems. , 2017, , .		6
15	Optimized ethernet transmission of acquired data from FPGA to embedded system. Proceedings of SPIE, 2013, , .	0.8	5
16	Introducing parallelism to histogramming functions for GEM systems. Proceedings of SPIE, 2015, , .	0.8	5
17	GEM detector development for tokamak plasma radiation diagnostics: SXR poloidal tomography. Proceedings of SPIE, 2015, , .	0.8	5
18	FPGA and Embedded Systems Based Fast Data Acquisition and Processing for GEM Detectors. Journal of Fusion Energy, 2019, 38, 480-489.	0.5	5

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19	Implementation of the data acquisition system for the Resistive Plate Chamber pattern comparator muon trigger in the CMS experiment. Measurement Science and Technology, 2007, 18, 2456-2464.	1.4	4
20	On algorithmic optimization of histogramming functions for GEM systems. Proceedings of SPIE, 2015, , .	0.8	4
21	An FPGA-Based High-Speed Error Resilient Data Aggregation and Control for High Energy Physics Experiment. IEEE Transactions on Nuclear Science, 2017, 64, 933-944.	1.2	4
22	Critical Closing Pressure During a Controlled Increase in Intracranial Pressure. Acta Neurochirurgica Supplementum, 2018, 126, 133-137.	0.5	4
23	Novel Application of Parallel Computing Techniques in Soft X-Rays Plasma Measurement Systems for the WEST Experimental Thermal Fusion Reactor. , 2018, , .		4
24	Feasibility of FPGA to HPC computation migration of plasma impurities diagnostic algorithms. International Journal of Electronics and Telecommunications, 2017, 63, 323-328.	0.6	4
25	Embedded controller for GEM detector readout system. , 2013, , .		3
26	Head of the bed elevation angle recorder for intensive care unit. Proceedings of SPIE, 2013, , .	0.8	3
27	Interface and protocol development for STS read-out ASIC in the CBM experiment at FAIR. Proceedings of SPIE, 2014, , .	0.8	3
28	FPGA implementation of overlap MTF trigger: preliminary study. , 2014, , .		3
29	CBM Experiment Local and Global Implications. International Journal of Electronics and Telecommunications, 2016, 62, 89-96.	0.6	3
30	Modeling of serial data acquisition structure for GEM detector system in Matlab. Proceedings of SPIE, 2016, , .	0.8	3
31	The computation in diagnostics for tokamaks: systems, designs, approaches. Proceedings of SPIE, 2017, , .	0.8	3
32	<title>DSP algorithms in FPGA: proposition of a new architecture</title>. Proceedings of SPIE, 2007, , .	0.8	2
33	Low cost USB-local bus interface for FPGA based systems. Proceedings of SPIE, 2012, , .	0.8	2
34	Implementation of PCI Express bus communication for FPGA-based data acquisition system. Proceedings of SPIE, 2012, , .	0.8	2
35	Development of embedded PC and FPGA based systems with virtual hardware. , 2012, , .		2
36	Implementation of PCIe-SerDes-DDR3 communication in a multi-FPGA data acquisition system. , 2013, , .		2

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37	Fast data transmission in dynamic data acquisition system for plasma diagnostics. Proceedings of SPIE, 2014, , .	0.8	2
38	OMTF firmware overview. Proceedings of SPIE, 2015, , .	0.8	2
39	Internal monitoring of GBTx emulator using IPbus for CBM experiment. , 2015, , .		2
40	Integration of GBTx emulator with MUCH-XYTER and data processing board for CBM experiment. , 2016, , .		2
41	The development of algorithms for the deployment of new version of GEM-detector-based acquisition system. , 2016, , .		2
42	Data distribution and dispatching software for processing measurement data acquired with SXR GEM-based system. , 2018, , .		2
43	Selection of hardware platform for CBM Common Readout Interface. , 2017, , .		2
44	CRI board for CBM experiment: preliminary studies. , 2018, , .		2
45	Python based integration of GEM detector electronics with JET data acquisition system. , 2014, , .		1
46	Version control friendly project management system for FPGA designs. , 2016, , .		1
47	Parallel computing in soft X‑rays plasma diagnostic systems for thermal fusion reactors—feasibility studies for GPUs. Concurrency Computation Practice and Experience, 2020, 32, e5235.	1.4	1
48	Safe and Reusable Approach for Pin-to-Port Assignment in Multiboard FPGA Data Acquisition and Control Designs. IEEE Transactions on Nuclear Science, 2021, 68, 1186-1193.	1.2	1
49	Matlab-based modeling of GEM diagnostic data sequencer. , 2018, , .		1
50	Automatic latency equalization in VHDL-implemented complex pipelined systems. , 2016, , .		1
51	Implementation of multistandard video signals integrator. , 2017, , .		1
52	GBT oriented firmware for Data Processing Boards for CBM. , 2019, , .		1
53	Concept of the platform architecture for data integration from the Border Guard observation systems. , 2019, , .		1
54	<title>Module for transmission of biomedical data</title>. , 2006, 6159, 998.		0

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55	J2ME implementation of system for storing and accessing of sensitive data on patient's mobile device. , 2011, , .		0
56	Tethered Forth system for FPGA applications. Proceedings of SPIE, 2013, , .	0.8	0
57	Improvement of FPGA control via high speed but high latency interfaces. , 2015, , .		0
58	Object oriented hardware-software test bench for OMTF diagnosis. Proceedings of SPIE, 2015, , .	0.8	0
59	Versatile method to increase speed of external control with scatter-gather method in peripheral device. Proceedings of SPIE, 2015, , .	0.8	0
60	GEM detectors development for radiation environment: neutron tests and simulations. , 2016, , .		0
61	Localizing wushu players on a platform based on a video recording. , 2017, , .		0
62	Charge cluster identification for multidimensional GEM detector structures. , 2018, , .		0
63	GEM-based plasma radiation diagnostics development: design aspects affecting its performance. , 2018, , .		0
64	Implementation of heapsort in programmable logic with high-level synthesis. , 2018, , .		0
65	The methodology of development of real-time and high-throughput heterogeneous devices for plasma confinement fusion diagnostics. , 2018, , .		0
66	Mobile distribution point architecture concept of ICT infrastructure. , 2019, , .		0
67	GEM detector charge signals sequencer implementation for WEST experiment. , 2019, , .		0
68	Synchronization between computation and acquisition parts in the GEM detector-based measurement system. , 2019, , .		0
69	Video signals integrator: configuration database. , 2019, , .		0
70	Commanding a police operation with a Mobile Distribution Point of ICT Infrastructure. , 2020, , 43-53.		0
71	Control and Diagnostics System Generator for Complex FPGA-Based Measurement Systems. Sensors, 2021, 21, 7378.	2.1	0