Bruno Santos

List of Publications by Year
in descending order

53 papers	619 citations	933447 10 h-index	610901 24 g-index
53 all docs	53 docs citations	53 times ranked	882 citing authors

#	Article	IF	Citations
1	Advanced high-performance processing tools for diagnostics and control in fusion devices. Fusion Engineering and Design, 2021, 170, 112529.	1.9	2
2	The Design and Performance of the Real-Time Software Architecture for the ITER Radial Neutron Camera. IEEE Transactions on Nuclear Science, 2019, 66, 1310-1317.	2.0	8
3	Linux device driver for Radial Neutron Camera in view of ITER long pulses with variable data throughput. Fusion Engineering and Design, 2019, 146, 1698-1702.	1.9	2
4	Overview of the JET preparation for deuterium–tritium operation with the ITER like-wall. Nuclear Fusion, 2019, 59, 112021.	3.5	87
5	Upgraded gamma-ray diagnostics for DT campaigns at JET. Fusion Engineering and Design, 2019, 146, 1007-1010.	1.9	0
6	FPGA Code for the Data Acquisition and Real-Time Processing Prototype of the ITER Radial Neutron Camera. IEEE Transactions on Nuclear Science, 2019, 66, 1318-1323.	2.0	10
7	Real-Time Data Compression for Data Acquisition Systems Applied to the ITER Radial Neutron Camera. IEEE Transactions on Nuclear Science, 2019, 66, 1324-1329.	2.0	5
8	PCIe Hot-Plug Support Standardization Challenges in ATCA. IEEE Transactions on Nuclear Science, 2019, 66, 2282-2285.	2.0	1
9	MTCA control and data acquisition platform for Plasma Diagnostics. Journal of Instrumentation, 2019, 14, C11025-C11025.	1.2	4
10	New FPGA based hardware implementation for JET gamma-ray camera upgrade. Fusion Engineering and Design, 2018, 128, 188-192.	1.9	7
11	14 MeV calibration of JET neutron detectors—phase 1: calibration and characterization of the neutron source. Nuclear Fusion, 2018, 58, 026012.	3.5	22
12	Control and data acquisition software upgrade for JET gamma-ray diagnostics. Fusion Engineering and Design, 2018, 128, 117-121.	1.9	4
13	Monitoring and Hardware Management for Critical Fusion Plasma Instrumentation. EPJ Web of Conferences, 2018, 170, 02002.	0.3	0
14	The upgraded JET gamma-ray cameras based on high resolution/high count rate compact spectrometers. Review of Scientific Instruments, 2018, 89, 10I116.	1.3	21
15	High-Priority Prototype Testing in Support of System-Level Design Development of the ITER Radial Neutron Camera. IEEE Transactions on Plasma Science, 2018, 46, 1291-1297.	1.3	8
16	Taking advantage of the intercommunication features of IPMCs in ATCA CDAQ systems. Fusion Engineering and Design, 2018, 128, 138-142.	1.9	3
17	Efficient generation of energetic ions in multi-ion plasmas by radio-frequency heating. Nature Physics, 2017, 13, 973-978.	16.7	73
18	EPICS device support for an ATCA CDAQ Board with hot-plug capabilities. Fusion Engineering and Design, 2017, 123, 732-736.	1.9	4

#	Article	IF	Citations
19	PCIe hot-plug event handling tasks using PICMG standard interrupt mechanism for ATCA based instrumentation. Fusion Engineering and Design, 2017, 123, 703-706.	1.9	3
20	Upgrade of the tangential gamma-ray spectrometer beam-line for JET DT experiments. Fusion Engineering and Design, 2017, 123, 749-753.	1.9	11
21	SEU mitigation exploratory tests in a ITER related FPGA. Fusion Engineering and Design, 2017, 118, 111-116.	1.9	4
22	Real-time software tools for the performance analysis of the ITER Radial Neutron Camera. Fusion Engineering and Design, 2017, 123, 1001-1005.	1.9	5
23	CeBr3â€"based detector for gamma-ray spectrometer upgrade at JET. Fusion Engineering and Design, 2017, 123, 986-989.	1.9	4
24	Development of MPPC-based detectors for high count rate DT campaigns at JET. Fusion Engineering and Design, 2017, 123, 940-944.	1.9	5
25	Overview of the JET results in support to ITER. Nuclear Fusion, 2017, 57, 102001.	3.5	150
26	Interfacing ATCA Hot-Swap with PCIe Hot-Plug for high-availability instrumentation in critical systems. Fusion Engineering and Design, 2017, 124, 1187-1190.	1.9	3
27	High performance detectors for upgraded gamma ray diagnostics for JET DT campaigns. Physica Scripta, 2016, 91, 064003.	2.5	18
28	Development of High-Availability ATCA/PCIe Data Acquisition Instrumentation. IEEE Transactions on Nuclear Science, 2016, 63, 1620-1624.	2.0	8
29	Test results of an ITER relevant FPGA when irradiated with neutrons. , 2015, , .		3
30	Development of high-availability ATCA/PCIe data acquisition instrumentation. , 2015, , .		0
31	PCI express hotplug implementation for ATCA based instrumentation. Fusion Engineering and Design, 2015, 96-97, 738-741.	1.9	10
32	ATCA Shelf Manager EPICS device support for ITER CODAC Core System. Fusion Engineering and Design, 2015, 96-97, 938-942.	1.9	4
33	Precision Time Protocol support hardware for ATCA control and data acquisition system. Fusion Engineering and Design, 2015, 96-97, 760-764.	1.9	2
34	Coupling DCS and MARTe: two real-time control frameworks in collaboration. Fusion Engineering and Design, 2014, 89, 3125-3130.	1.9	3
35	Intelligent Platform Management Controller Software Architecture in ATCA Modules for Fast Control Systems. IEEE Transactions on Nuclear Science, 2014, 61, 2318-2322.	2.0	3
36	Overview of the COMPASS CODAC system. Fusion Engineering and Design, 2014, 89, 177-185.	1.9	8

#	Article	IF	Citations
37	The ITER Fast Plant System Controller ATCA prototype Real-Time Software Architecture. Fusion Engineering and Design, 2013, 88, 541-546.	1.9	10
38	EPICS device support module as ATCA system manager for the ITER fast plant system controller. Fusion Engineering and Design, 2013, 88, 1117-1121.	1.9	5
39	Control and data acquisition ATCA/AXIe board designed for high system availability and reliability of nuclear fusion experiments. Fusion Engineering and Design, 2013, 88, 1332-1337.	1.9	10
40	N+1 redundancy on ATCA instrumentation for Nuclear Fusion. Fusion Engineering and Design, 2013, 88, 1418-1422.	1.9	6
41	Timing distribution and synchronization of an ATCA fast controller for fusion devices. , 2012, , .		0
42	Intelligent Platform Management Controller software architecture in ATCA modules for fast control systems. , 2012, , .		0
43	Implementation of an ATCA/AXIe board for fast control and data acquisition systems of nuclear fusion devices. , 2012, , .		0
44	ITER fast plant system controller prototype based on ATCA platform. Fusion Engineering and Design, 2012, 87, 2024-2029.	1.9	35
45	NetCDF based data archiving system applied to ITER Fast Plant System Control prototype. Fusion Engineering and Design, 2012, 87, 2223-2228.	1.9	3
46	OpenMeetings as a browser-based teleconferencing tool for EFDA laboratories. Fusion Engineering and Design, 2011, 86, 1282-1285.	1.9	0
47	ITER prototype fast plant system controller based on ATCA platform. , 2011, , .		2
48	FireSignal application Node for subsystem control. Fusion Engineering and Design, 2010, 85, 496-499.	1.9	5
49	Integration of EPICS subsystem control on FireSignal. , 2010, , .		2
50	Real time control of plasmas and ECRH systems on TCV. Nuclear Fusion, 2009, 49, 085017.	3.5	13
51	The integration of the new advanced digital plasma control system in TCV. Fusion Engineering and Design, 2008, 83, 215-219.	1.9	17
52	TCV Advanced Plasma Control System Software Architecture and Preliminary Results. IEEE Transactions on Nuclear Science, 2008, 55, 316-321.	2.0	6
53	TCV Advanced Plasma Control System Software Architecture and Results. , 2007, , .		0