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	Overview of the JET results in support to ITER. Nuclear Fusion, 2017, 57, 102001.	3.5	150
2	Overview of the JET preparation for deuterium–tritium operation with the ITER like-wall. Nuclear Fusion, 2019, 59, 112021.	3.5	87
3	Efficient generation of energetic ions in multi-ion plasmas by radio-frequency heating. Nature Physics, 2017, 13, 973-978.	16.7	73
4	ITER fast plant system controller prototype based on ATCA platform. Fusion Engineering and Design, 2012, 87, 2024-2029.	1.9	35
5	14 MeV calibration of JET neutron detectors—phase 1: calibration and characterization of the neutron source. Nuclear Fusion, 2018, 58, 026012.	3.5	22
6	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
7	High performance detectors for upgraded gamma ray diagnostics for JET DT campaigns. Physica Scripta, 2016, 91, 064003.	2.5	18
8	The integration of the new advanced digital plasma control system in TCV. Fusion Engineering and Design, 2008, 83, 215-219.	1.9	17
9	Real time control of plasmas and ECRH systems on TCV. Nuclear Fusion, 2009, 49, 085017.	3.5	13
10	Upgrade of the tangential gamma-ray spectrometer beam-line for JET DT experiments. Fusion Engineering and Design, 2017, 123, 749-753.	1.9	11
11	The ITER Fast Plant System Controller ATCA prototype Real-Time Software Architecture. Fusion Engineering and Design, 2013, 88, 541-546.	1.9	10
12	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
13	PCI express hotplug implementation for ATCA based instrumentation. Fusion Engineering and Design, 2015, 96-97, 738-741.	1.9	10
14	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
15	Overview of the COMPASS CODAC system. Fusion Engineering and Design, 2014, 89, 177-185.	1.9	8
16	Development of High-Availability ATCA/PCIe Data Acquisition Instrumentation. IEEE Transactions on Nuclear Science, 2016, 63, 1620-1624.	2.0	8
17	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
18	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

#	Article	IF	Citations
19	New FPGA based hardware implementation for JET gamma-ray camera upgrade. Fusion Engineering and Design, 2018, 128, 188-192.	1.9	7
20	TCV Advanced Plasma Control System Software Architecture and Preliminary Results. IEEE Transactions on Nuclear Science, 2008, 55, 316-321.	2.0	6
21	N+1 redundancy on ATCA instrumentation for Nuclear Fusion. Fusion Engineering and Design, 2013, 88, 1418-1422.	1.9	6
22	FireSignal application Node for subsystem control. Fusion Engineering and Design, 2010, 85, 496-499.	1.9	5
23	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
24	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
25	Development of MPPC-based detectors for high count rate DT campaigns at JET. Fusion Engineering and Design, 2017, 123, 940-944.	1.9	5
26	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
27	ATCA Shelf Manager EPICS device support for ITER CODAC Core System. Fusion Engineering and Design, 2015, 96-97, 938-942.	1.9	4
28	EPICS device support for an ATCA CDAQ Board with hot-plug capabilities. Fusion Engineering and Design, 2017, 123, 732-736.	1.9	4
29	SEU mitigation exploratory tests in a ITER related FPGA. Fusion Engineering and Design, 2017, 118, 111-116.	1.9	4
30	CeBr3â€"based detector for gamma-ray spectrometer upgrade at JET. Fusion Engineering and Design, 2017, 123, 986-989.	1.9	4
31	Control and data acquisition software upgrade for JET gamma-ray diagnostics. Fusion Engineering and Design, 2018, 128, 117-121.	1.9	4
32	MTCA control and data acquisition platform for Plasma Diagnostics. Journal of Instrumentation, 2019, 14, C11025-C11025.	1.2	4
33	NetCDF based data archiving system applied to ITER Fast Plant System Control prototype. Fusion Engineering and Design, 2012, 87, 2223-2228.	1.9	3
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	Test results of an ITER relevant FPGA when irradiated with neutrons. , 2015, , .		3

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37	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
38	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
39	Taking advantage of the intercommunication features of IPMCs in ATCA CDAQ systems. Fusion Engineering and Design, 2018, 128, 138-142.	1.9	3
40	Integration of EPICS subsystem control on FireSignal. , 2010, , .		2
41	ITER prototype fast plant system controller based on ATCA platform. , 2011, , .		2
42	Precision Time Protocol support hardware for ATCA control and data acquisition system. Fusion Engineering and Design, 2015, 96-97, 760-764.	1.9	2
43	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
44	Advanced high-performance processing tools for diagnostics and control in fusion devices. Fusion Engineering and Design, 2021, 170, 112529.	1.9	2
45	PCIe Hot-Plug Support Standardization Challenges in ATCA. IEEE Transactions on Nuclear Science, 2019, 66, 2282-2285.	2.0	1
46	TCV Advanced Plasma Control System Software Architecture and Results. , 2007, , .		0
47	OpenMeetings as a browser-based teleconferencing tool for EFDA laboratories. Fusion Engineering and Design, 2011, 86, 1282-1285.	1.9	0
48	Timing distribution and synchronization of an ATCA fast controller for fusion devices. , 2012, , .		0
49	Intelligent Platform Management Controller software architecture in ATCA modules for fast control systems. , 2012, , .		0
50	Implementation of an ATCA/AXIe board for fast control and data acquisition systems of nuclear fusion devices. , 2012, , .		0
51	Development of high-availability ATCA/PCIe data acquisition instrumentation. , 2015, , .		0
52	Monitoring and Hardware Management for Critical Fusion Plasma Instrumentation. EPJ Web of Conferences, 2018, 170, 02002.	0.3	0
53	Upgraded gamma-ray diagnostics for DT campaigns at JET. Fusion Engineering and Design, 2019, 146, 1007-1010.	1.9	0