

Books and book chapters

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Papers in international refereed scientific journals

Author(s)	Paper title	Journal name	Volume, page	Year
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Carvalho PJ, H Thomsen, R Coelho, P Duarte, C Silva, H Fernandes	ISTTOK plasma control with the tomography diagnostic	Fusion Engineering and Design	85, 266	2010
Baião D, F Medina, M A Ochando, C Varandas, A Molinero, and J Chércoles	Implementation of multifilter based twin-prototypes for core electron temperature measurements in the TJ-II stellarator	Review of Scientific Instruments	81, 10D711	2010
M A Pedrosa, C Hidalgo, C Silva, B A Carreras, D Carralero, I Calvo and TJ-II Team	Long-range correlation during plasma transitions in the TJ-II stellarator	Contri. Plasma Phys,	50, 507	2010
A.M. Fernandes, R.C. Pereira, J. Sousa, A. Neto, P. Carvalho, A.J.N. Batista, B.B. Carvalho, C.A.F. Varandas, M. Tardocchi, G. Gorini and JET EFDA contributors	Parallel Processing Method for High Speed Real Time Digital Pulse Processing for Gamma-Ray Spectroscopy	Fusion Engineering and Design	85, 308	2010
R.C. Pereira, A.M.Fernandes, A. Neto, J. Sousa, A.J. Batista, B.B. Carvalho, C.M.B.A. Correia, C.A.F. Varandas and JET-EFDA contributors	ATCA Fast Data Acquisition & Processing System for JET Gamma-Ray Cameras Upgrade Diagnostic	IEEE Transactions on Nuclear Science	57, 683	2010
A.J.N. Batista, A. Neto, M. Correia, A.M. Fernandes,	ATCA Control System Hardware for the	IEEE Transactions on Nuclear Science	57, 583	2010

B.B. Carvalho, J.C. Fortunato, J. Sousa, C.A. F. Varandas, F. Sartori, M. Jennison and JET EFDA contributors	Plasma Vertical Stabilization in the JET Tokamak			
M. Nocente, M. Tardocchi, I. Chugunov, R. C. Pereira, T. Edlington, A. M. Fernandes, D. Gin, G. Grosso, V. Kiptily, A. Murari, A. Neto, E. Perelli Cippo, A. Pietropaolo, I. Proverbio, A. Shevelev, J. Sousa, B. Syme, G. Gorini and JET-EFDA Contributors	Energy Resolution of gamma-ray spectroscopy of JET plasmas with a LaBr3 scintillator detector and digital data acquisition	Review of Scientific Instruments	10D321	2010
F. Sartori, A. Barbalace, A.J.N. Batista, T. Bellizio, P. Card, G. De Tommasi, P. Mc Cullen, A. Neto, F. Piccolo, R. Vitelli, L. Zabeo, JET-EFDA contributors	The PCU JET Plasma Vertical Stabilization control system	Fusion Engineering and Design	85, 438	2010
B.B. Carvalho, A.J.N. Batista, M. Correia, A. Neto, H. Fernandes, B. Goncalves, J. Sousa	Reconfigurable ATCA hardware for plasma control and data acquisition	Fusion Engineering and Design	85, 298	2010
André C. Neto, Filippo Sartori, Fabio Piccolo, Riccardo Vitelli,	MARTE: A Multiplatform Real-Time Framework	IEEE Transactions on Nuclear Science	57, 479	2010

Gianmaria De Tommasi, Luca Zabeo, Antonio Barbalace, Horacio Fernandes, Daniel F. Valcárcel, Antonio J. N. Batista, and JET-EFDA CONTRIBUTORS				
V. V. Plyusnin, L. Jakubowski, J. Zebrowski, P. Duarte, K. Malinowski, H. Fernandes, C. Silva, M. Rabinski, and M. J. Sadowski	Characteristics of four-channel Cherenkov-type detector for measurements of runaway electrons in the ISTTOK tokamak	Review of Scientific Instruments	81, 10D304	2010
L. Jakubowski, K. Malinowski, V. V. Plyusnin, M. J. Sadowski, J. Zebrowski, M. Rabinski, H. Fernandes, C. Silva, P. Duarte, M.J. Jakubowski	Study of electron beams within ISTTOK tokamak by means of a multi-channel Cherenkov detector; their correlation with hard X-rays	Journal Nuclear Instruments and Methods in Physics Research A	v. 623, 686–689	2010
L. Jakubowski, J. Zebrowski, K. Malinowski, M. J. Sadowski, M. Rabinski, V. V. Plyusnin, H. Fernandes, C. Silva, P. Duarte	Measurement of high-energy electrons by means of a Cherenkov detector in ISTTOK tokamak	Journal Radiation Measurements	v. 45, 1014-1019	2010
T. Bellizio, G. De Tommasi, P. McCullen, A. Neto, F. Piccolo, F. Sartori, R. Vitelli, L. Zabeo	The Software Architecture of the New Vertical-Stabilization System for the JET Tokamak	IEEE Transactions on Plasma Science	38, 2465-2473	2010

Plasma column displacement measurements by modified Rogowski sine-coil and Biot--Savart/magnetic flux equation solution on IR-T1 tokamak	Review of Scientific instruments	83, 053504		2010
I. S. Nedzelskiy, C. Silva, P. Duarte, H. Fernandes	Mass-sensitive ion probe for plasma boundary characterization on the tokamak ISTTOK	Contribution to Plasma Physics	50 (9), 866	2010
I. S. Nedzelskiy, A. Korotkov, M. Brix, P. Morgan, J. Vince, and JET EFDA Contributors	Characterization of the Li beam probe with a beam profile monitor on JET	Review of Scientific Instruments	81, 10D734	2010
M. Brix, D. Dodt, A. Korotkov, P. Morgan, D. Dunai, R. Fischer, A. Meigs, I. S. Nedzelskiy, J. Schweinzer, J. Vince, S. Zoletnik, and EFDA Contributors	Upgrade of the lithium beam diagnostic at JET	Review of Scientific Instruments	81, 10D733	2010
N.P. Barradas, R. Mateus, M. Fonseca, M.A. Reis, K. Lorenz, I. Vickridge	Thin film depth profiling using simultaneous particle backscattering and nuclear resonance profiling	Nuclear Instruments and Methods in Physics Research B	268, 1829	2010
L.C. Alves, E. Alves, N.P.	Erosion and re-deposition	Nuclear Instruments and	268, 1991	2010

Barradas, R. Mateus, P. Carvalho, J.P. Coad, A.M. Widdowson, J. Likonen, S. Koivuranta	processes in JET tiles studied with ion beams	Methods in Physics Research B		
E. Alves, L.C. Alves, N P Barradas, R. Mateus, P.A. Carvalho, G.M. Wright	Influence of temperature and plasma composition on deuterium retention in refractory metals	Nuclear Instruments and Methods in Physics Research B	268, 2124	2010
G.M.Wright, E. Alves, L.C. Alves, N.P. Barradas, P.A. Carvalho, R. Mateus, J. Rapp	Hydrogenic retention of high-Z refractory metals exposed to ITER divertor-relevant plasma conditions	Nuclear Fusion	50, 055004	2010
A.S. Duarte, B. Santos, T. Pereira, B.B. Carvalho, H. Fernandes, A. Neto, F. Janky, P. Cahyna, J. Písačka, M. Hron	FireSignal application Node for subsystem control	Fusion Engineering and Design	85, 496-499	2010
H. Figueiredo, C. Silva, B. Gonçalves, P. Duarte, H. Fernandes	Plasma flow and transport on the tokamak ISTTOK boundary plasma	J. Nucl. Mater.	doi:10.1016/j.jnucmat.2010.10.03	2010
D.F. Valcárcel, A.S. Duarte, A. Neto, I.S. Carvalho, B.B. Carvalho, H. Fernandes, J. Sousa, F. Sartori, F. Janky, P. Cahyna, M. Hron, R. Pánek	Real-Time Software for the COMPASS Tokamak Plasma Control	Fusion Engineering and Design	85, pp. 470-473	2010

G.M. Wright, R.S. Al, E. Alves, L.C. Alves, N.P. Barradas, A.W. Kleyn, N.J.L. Cardozo, H.J. van der Meiden, V. Philipps, G.J. van Rooij, A.E. Shumack, W.A.J. Vijvers, J. Westerhout, E. Zoethout, J. Rapp	Carbon film growth and hydrogenic retention of tungsten exposed to carbon-seeded high density deuterium plasmas	JOURNAL OF NUCLEAR MATERIALS	396, 176	2010

