

Ivan C Cunha Nascimento

List of Publications by Year in descending order

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114
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114
all docs

114
docs citations

114
times ranked

491
citing authors

#	ARTICLE	IF	CITATIONS
1	Overview of plasma rotation studies on the TCABR tokamak. Plasma Physics and Controlled Fusion, 2021, 63, 075001.	2.1	2
2	Spatial inhomogeneity effects on burst temperature estimation using a triple probe configuration in Tokamak Chauffage Alfvén Brésilien tokamak. Journal of Plasma Physics, 2019, 85, .	2.1	3
3	H-mode access and the role of spectral shift with electrode biasing in the TCABR tokamak. Physics of Plasmas, 2018, 25, .	1.9	9
4	Recurrence Analysis of Turbulent Fluctuations in Magnetically Confined Plasmas. Springer Proceedings in Physics, 2016, , 341-353.	0.2	2
5	Excitation of Global Alfvén Waves by Low RF Power on TCABR. Journal of Physics: Conference Series, 2015, 591, 012002.	0.4	0
6	Electron density profile reconstruction on the TCABR sweeping reflectometer. Journal of Physics: Conference Series, 2015, 591, 012006.	0.4	0
7	Report on recent results obtained in TCABR. Journal of Physics: Conference Series, 2015, 591, 012001.	0.4	3
8	Investigation of rotation at the plasma edge in TCABR. Nuclear Fusion, 2015, 55, 093001.	3.5	4
9	Comparison of Plasma Visible Spectral Emissions Between Nova-UNICAMP and TCABR Tokamaks. Journal of Physics: Conference Series, 2014, 511, 012040.	0.4	0
10	Dynamical Effects in Confined Plasma Turbulence. Brazilian Journal of Physics, 2014, 44, 903-913.	1.4	0
11	Analysis of the electron temperature measurement in TCABR tokamak by Electron Cyclotron Emission and Infrared Thomson scattering diagnostics. Journal of Physics: Conference Series, 2014, 511, 012039.	0.4	4
12	Long-distance correlations in TCABR biasing experiments. Nuclear Fusion, 2012, 52, 063004.	3.5	12
13	Shearless transport barriers in magnetically confined plasmas. Plasma Physics and Controlled Fusion, 2012, 54, 124035.	2.1	19
14	Error analysis in the electron temperature measurements in TCABR. Journal of Physics: Conference Series, 2012, 370, 012045.	0.4	0
15	Dynamical analysis of turbulence in fusion plasmas and nonlinear waves. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 4690-4699.	3.3	3
16	Self-organized criticality in MHD driven plasma edge turbulence. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 753-757.	2.1	7
17	Radial dependence of self-organized criticality behavior in TCABR tokamak. Journal of Physics: Conference Series, 2011, 285, 012004.	0.4	0
18	Evidence of transport barrier in TCABR tokamak with high MHD activity. Journal of Physics: Conference Series, 2011, 285, 012010.	0.4	0

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19	Characterizing electrostatic turbulence in tokamak plasmas with high MHD activity. Journal of Physics: Conference Series, 2010, 246, 012014.	0.4	3
20	Recurrence quantification analysis of turbulent fluctuations in the plasma edge of Tokamak Chauffage Alfvén Brésilien tokamak. Physics of Plasmas, 2010, 17, 012303.	1.9	15
21	VUV spectral line emission measurements in the TCABR tokamak. Brazilian Journal of Physics, 2009, 39, 270-274.	1.4	3
22	Bicoherence in electrostatic turbulence driven by high magnetohydrodynamic activity in Tokamak Chauffage Alfvén Brésilien. Physics of Plasmas, 2009, 16, 042508.	1.9	14
23	Temporal behaviour of toroidal rotation velocity in the TCABR tokamak. Nuclear Fusion, 2009, 49, 115026.	3.5	8
24	Recurrence quantification analysis of electrostatic fluctuations in fusion plasmas. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 1088-1095.	2.1	22
25	Reduction of chaotic particle transport driven by drift waves in sheared flows. Physics of Plasmas, 2008, 15, .	1.9	34
26	Electrostatic turbulence driven by high magnetohydrodynamic activity in Tokamak Chauffage Alfvén Brésilien. Physics of Plasmas, 2008, 15, 062501.	1.9	12
27	Multifractality in plasma edge electrostatic turbulence. Physics of Plasmas, 2008, 15, 082311.	1.9	16
28	Impurity Line Emissions in VUV Region of TCABR Tokamak. AIP Conference Proceedings, 2008, , .	0.4	0
29	Spectral Line Profile Analysis Using Higher Diffraction Order in Vacuum Ultraviolet Region. AIP Conference Proceedings, 2008, , .	0.4	1
30	Effect of upâ€‘down and leftâ€‘right asymmetry of dust and/or heavy impurity distribution on plasma dynamics in the tokamak edge. Physica Scripta, 2007, 76, 314-319.	2.5	1
31	Suppression and excitation of MHD activity with an electrically polarized electrode at the TCABR tokamak plasma edge. Nuclear Fusion, 2007, 47, 1570-1576.	3.5	36
32	Plasma rotation measurement in small tokamaks using an optical spectrometer and a single photomultiplier as detector. Review of Scientific Instruments, 2007, 78, 043509.	1.3	12
33	Overview of Recent Results of TCABR. AIP Conference Proceedings, 2006, , .	0.4	3
34	Electron Temperature and Density Measurements by the Unicity of Particle Confinement Time on the TCABR Tokamak. AIP Conference Proceedings, 2006, , .	0.4	0
35	Density Limit in TCABR Plasmas With Alfvén Wave Heating. AIP Conference Proceedings, 2006, , .	0.4	1
36	Scrape-off layer turbulence modulated by Mirnov oscillations. European Physical Journal D, 2005, 55, 265-270.	0.4	9

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37	Status report on fusion research. Nuclear Fusion, 2005, 45, A1-A28.	3.5	22
38	Plasma confinement using biased electrode in the TCABR tokamak. Nuclear Fusion, 2005, 45, 796-803.	3.5	71
39	Not completely flattened radial profile of the electron temperature in the vicinity of magnetic islands in Tokamak Chauffage Alfvén Brésilien. Physics of Plasmas, 2005, 12, 052501.	1.9	4
40	Determination of rational surface position and magnetic island width from electron cyclotron emission (ECE) radiometry in TCABR. IEEE Transactions on Plasma Science, 2005, 33, 2046-2050.	1.3	1
41	Joint research using small tokamaks. Nuclear Fusion, 2005, 45, S245-S254.	3.5	11
42	Identification of the Alfvén wave resonances in the TCABR tokamak by the microwave reflectometry. Brazilian Journal of Physics, 2004, 34, 1715-1721.	1.4	0
43	Application of microwave reflectometry to register Alfvén wave resonances in the TCABR tokamak. Review of Scientific Instruments, 2004, 75, 655-660.	1.3	8
44	Magnetic islands and plasma rotation in the Tokamak Chauffage Alfvén Brésilien tokamak. Physics of Plasmas, 2004, 11, 846-848.	1.9	16
45	Runaway discharges in TCABR. Nuclear Fusion, 2004, 44, 631-644.	3.5	17
46	Particle flows in dusty plasmas of the tokamak edge. Physics of Plasmas, 2004, 11, 4138-4141.	1.9	7
47	Drift stabilization of internal resistive-wall modes in tokamaks. Plasma Physics Reports, 2003, 29, 779-784.	0.9	2
48	Fluid treatment of convective-transport threshold model of neoclassical tearing modes in tokamaks. Physics of Plasmas, 2003, 10, 3790-3792.	1.9	5
49	Transport threshold model of subsonic neoclassical tearing modes in tokamaks. Physics of Plasmas, 2003, 10, 3975-3983.	1.9	8
50	Plasma residual rotation in the TCABR tokamak. Nuclear Fusion, 2003, 43, 1047-1056.	3.5	33
51	Role of trapped and circulating particles in inducing current drive and radial electric field by Alfvén waves in tokamaks. Journal of Plasma Physics, 2002, 67, 301-308.	2.1	3
52	Plasma recombination in runaway discharges in tokamak TCABR. Brazilian Journal of Physics, 2002, 32, 81-84.	1.4	4
53	Plasma resistivity determination in runaway discharges from positive voltage spikes on TCABR tokamak. Brazilian Journal of Physics, 2002, 32, 107-111.	1.4	3
54	TCABR interferometer. Brazilian Journal of Physics, 2002, 32, 123-130.	1.4	3

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55	Gas breakdown in the TCABR Tokamak: Model, simulation and experimental results. , 2001, , .		0
56	Bolometric calibration for TCABR performed with a synchrotron light source. , 2001, , .		0
57	Runaway discharges in TCABR. , 2001, , .		2
58	A model for plasma discharges simulation in Tokamak devices. , 2001, , .		0
59	Alfvén wave heating and runaway discharges maintained by the avalanche effect in TCABR. Plasma Physics and Controlled Fusion, 2001, 43, A299-A312.	2.1	15
60	New regime of runaway discharges in tokamaks. Plasma Physics and Controlled Fusion, 2001, 43, 1181-1190.	2.1	28
61	Electron drift effects on magnetic islands. Physics of Plasmas, 2001, 8, 4020-4029.	1.9	4
62	Calculations of Alfvén wave driving forces, plasma flow, and current drive in the Tokamak Chauffage Alfvén wave experiment in Brazil (TCABR). Physics of Plasmas, 2001, 8, 210-215.	1.9	3
63	Effect of plasma subsonic toroidal flows induced by Alfvén waves on transport processes in the edge of elongated tokamaks. Brazilian Journal of Physics, 2001, 31, 34-41.	1.4	1
64	On a bootstrap-like mechanism of radio frequency wave current drive in tokamaks. Physics of Plasmas, 2000, 7, 1060-1063.	1.9	5
65	Positive voltage spikes in runaway tokamak discharges. Physics of Plasmas, 2000, 7, 2894-2897.	1.9	4
66	Ion Larmor Radius Effect on rf Ponderomotive Forces and Induced Poloidal Flow in Tokamak Plasmas. Physical Review Letters, 2000, 84, 1200-1203.	7.8	15
67	Extension of drift magnetic island theory beyond the common profile function approximation. Physics of Plasmas, 2000, 7, 4763-4765.	1.9	7
68	Possible resolution of the "main intrigue" of the neoclassical tearing mode theory. Physics of Plasmas, 2000, 7, 3474-3475.	1.9	7
69	Effect of the radial electric field, induced by Alfvén waves, on transport processes in tokamaks. Nuclear Fusion, 1999, 39, 2119-2125.	3.5	0
70	Alfvén wave heating, current drive, plasma flow and improved confinement scenarios in tokamaks. Plasma Physics and Controlled Fusion, 1999, 41, A487-A494.	2.1	1
71	Alfvén and fast wave forces, affecting ions in magnetic traps with closed magnetic surfaces. Physics of Plasmas, 1999, 6, 1378-1381.	1.9	1
72	Relativistic plasma viscosity of the Burnett kind. Physical Review E, 1999, 60, 4754-4759.	2.1	4

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73	Anomalous and neoclassical transport suppression by the radial electric field, induced by Alfvén waves in tokamaks. <i>Physics of Plasmas</i> , 1999, 6, 3548-3553.	1.9	5
74	High precision pick-up (Mirnov) coils for disruption studies in the T-11M and TCABR tokamaks. <i>Review of Scientific Instruments</i> , 1999, 70, 449-451.	1.3	2
75	Calculations of wave excitation and dissipation in Tokamak Chauffage Alfvén wave heating experiment in Brazil. <i>Physics of Plasmas</i> , 1999, 6, 2437-2442.	1.9	11
76	Runaway discharge in the small Brazilian Tokamak TBR-1. <i>Physics of Plasmas</i> , 1999, 6, 4002-4007.	1.9	4
77	Eigenmodes of a Toroidal Cavity with a Conducting Separating Wall. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1998, 19, 1783-1793.	0.6	0
78	Advanced antenna system for Alfvén wave plasma heating and current drive in TCABR tokamak. <i>Fusion Engineering and Design</i> , 1998, 43, 15-28.	1.9	14
79	Alfvén wave driving forces and plasma flow in tokamak plasmas. <i>Plasma Physics and Controlled Fusion</i> , 1998, 40, 451-463.	2.1	11
80	Enhanced diffusion and isotope extraction driven by ion-cyclotron surface waves in a rippled magnetic field. <i>Plasma Sources Science and Technology</i> , 1998, 7, 410-415.	3.1	1
81	Plasma boundary determination in ITER by the optimized current filament method. <i>Nuclear Fusion</i> , 1998, 38, 1829-1838.	3.5	18
82	Ion Transport in Tokamak Plasmas with Ion Banana Orbits Squeezed by Alfvén Waves. <i>Physical Review Letters</i> , 1998, 81, 3403-3406.	7.8	13
83	Plasma rotation in toroidal devices with circular cross-sections. <i>Physics of Plasmas</i> , 1998, 5, 3358-3365.	1.9	9
84	Simplified magnetic diagnostic methods for tokamaks. <i>Nuclear Fusion</i> , 1998, 38, 1385-1395.	3.5	3
85	A complex probe for measurements of turbulence in the edge of magnetically confined plasmas. <i>Review of Scientific Instruments</i> , 1997, 68, 4418-4423.	1.3	2
86	Influence of resonant magnetic perturbations on plasma edge turbulence. <i>Physics of Plasmas</i> , 1997, 4, 329-336.	1.9	5
87	Modification of Alfvén wave dispersion and Alfvén wave heating in multiple ion species tokamak plasmas. <i>Plasma Physics and Controlled Fusion</i> , 1997, 39, 1551-1560.	2.1	10
88	Correlation between Plasma Edge Electrostatic and Magnetic Oscillations in the Brazilian Tokamak TBR. <i>Journal of the Physical Society of Japan</i> , 1997, 66, 3453-3460.	1.6	11
89	Temperature fluctuations and plasma edge turbulence in the Brazilian tokamak TBR. <i>Physics of Plasmas</i> , 1996, 3, 971-977.	1.9	16
90	Tokamak research at University of São Paulo. <i>Journal of Fusion Energy</i> , 1993, 12, 295-302.	1.2	9

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91	Simultaneous measurement of ion and electron temperatures in the scrape-off layer of a small tokamak. Review of Scientific Instruments, 1991, 62, 2700-2708.	1.3	9
92	Disruptive instabilities in the discharges of the TBR-1 small Tokamak. Plasma Physics and Controlled Fusion, 1989, 31, 147-156.	2.1	27
93	Radiation physics (Report on the 4th International Symposium, São Paulo, Brazil, 3-7 October 1988). Nuclear Fusion, 1989, 29, 855-857.	3.5	0
94	Electron temperature measurements in the TBR-1 tokamak by the two-foil absorbing method. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1989, 280, 593-596.	1.6	2
95	Wall conditioning by ECR plasmas in a small tokamak. Journal of Nuclear Materials, 1989, 165, 233-237.	2.7	1
96	Influence of resonant helical windings on the mirnov oscillations in a small tokamak. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1988, 10, 1193-1198.	0.4	13
97	Mirnov Oscillations in a Small Tokamak. IEEE Transactions on Plasma Science, 1986, 14, 279-281.	1.3	12
98	Electrostatic ion probe for tokamak plasma edge diagnostic. Review of Scientific Instruments, 1986, 57, 2205-2209.	1.3	12
99	Particle diffusion in TBR. Societa Italiana Di Fisica Nuovo Cimento B-General Physics, Relativity Astronomy and Mathematical Physics and Methods, 1984, 83, 1-11.	0.2	5
100	Concentration of E2 strength near the fission barrier of Th232. Physical Review C, 1982, 25, 1689-1692.	2.9	5
101	Electrofission of 234U, 236U and 238U: Angular distributions and E2 strength functions. Nuclear Physics A, 1982, 389, 378-402.	1.5	30
102	Fission decay of the giant quadrupole resonance for U234. Physical Review C, 1981, 23, 2595-2598.	2.9	8
103	Test of E2 virtual-photon spectra calculated in the distorted-wave Born approximation. Physical Review C, 1980, 22, 1794-1795.	2.9	4
104	E2 giant resonances and an M1 component in the photofission of U236. Physical Review C, 1980, 22, 1996-2007.	2.9	18
105	Determination of the giant E2 isoscalar resonance for 236U. Lettere Al Nuovo Cimento Rivista Internazionale Della Societa Italiana Di Fisica, 1979, 26, 487-491.	0.4	13
106	Electric quadrupole giant resonance in the photofission of U238. Physical Review C, 1978, 18, 863-869.	2.9	35
107	Present Status of Photofission of Actinides Near Threshold. Nuclear Science and Engineering, 1976, 60, 19-26.	1.1	20
108	Elastic Electron Scattering from the M7 and M9 Magnetization Density of Bi209. Physical Review Letters, 1976, 36, 566-569.	7.8	8

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109	Electrofission and photofission of ^{238}U in the energy range 6-60 MeV. <i>Physical Review C</i> , 1976, 14, 1499-1505.	2.9	25
110	Nuclear excitation by electrons and positrons. <i>Nuclear Physics A</i> , 1975, 246, 210-220.	1.5	59
111	Elastic electron scattering from the M7 magnetization density of ^{51}V . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1974, 53, 168-170.	4.1	10
112	Gamma-rays from ^{139}Pr and ^{143}Sm . <i>Il Nuovo Cimento B</i> , 1967, 47, 306-309.	0.1	14
113	Gamma rays from ^{111}Sn and ^{116}In . <i>Il Nuovo Cimento B</i> , 1967, 50, 345-354.	0.1	9
114	Electrodisintegration of Nuclei by Positrons and Electrons. <i>Physical Review</i> , 1965, 139, B562-B566.	2.7	13