Ricardo GalvÃ£o

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2563242/publications.pdf

Version: 2024-02-01

229 papers	2,223 citations	361413 20 h-index	315739 38 g-index
232 all docs	232 docs citations	232 times ranked	1739 citing authors

#	Article	IF	Citations
1	Aeromechanics of Membrane Wings with Implications for Animal Flight. AIAA Journal, 2008, 46, 2096-2106.	2.6	210
2	Overview of the JET results in support to ITER. Nuclear Fusion, 2017, 57, 102001.	3.5	150
3	Direct measurements of the kinematics and dynamics of bat flight. Bioinspiration and Biomimetics, 2006, 1, S10-S18.	2.9	136
4	Overview of the JET preparation for deuteriumâ€“tritium operation with the ITER like-wall. Nuclear Fusion, 2019, 59, 112021.	3.5	87
5	Efficient generation of energetic ions in multi-ion plasmas by radio-frequency heating. Nature Physics, 2017, 13, 973-978.	16.7	73
6	Plasma confinement using biased electrode in the TCABR tokamak. Nuclear Fusion, 2005, 45, 796-803.	3.5	71
7	Overview of the JET results. Nuclear Fusion, 2015, 55, 104001.	3.5	50
8	Overview of JET results. Nuclear Fusion, 2009, 49, 104006.	3.5	46
9	Overview of JET results. Nuclear Fusion, 2003, 43, 1540-1554.	3.5	38
10	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
11	Improved confinement events triggered by emissive electrode biasing on the tokamak ISTTOK. Nuclear Fusion, 2004, 44, 799-810.	3.5	34
12	Experimental studies of instabilities and confinement of energetic particles on JET and MAST. Nuclear Fusion, 2005, 45, 1168-1177.	3.5	34
13	Self-modulation of a strong electromagnetic wave in a positron-electron plasma induced by relativistic temperatures and phonon damping. Physical Review E, 1997, 55, 3381-3392.	2.1	33
14	Plasma residual rotation in the TCABR tokamak. Nuclear Fusion, 2003, 43, 1047-1056.	3.5	33
15	New regime of runaway discharges in tokamaks. Plasma Physics and Controlled Fusion, 2001, 43, 1181-1190.	2.1	28
16	Numerical computation of axisymmetric MHD-equilibria without conducting shell. Nuclear Fusion, 1976, 16, 457-464.	3.5	23
17	Parametric distortion of the optical-absorption coefficient of semiconductors by an additional infrared laser. Physical Review B, 1983, 28, 3593-3596.	3.2	23
18	Parametric decay of AlfvÃ©n waves in multicomponent plasmas. Physical Review E, 1996, 54, 4112-4120.	2.1	22

#	Article	IF	Citations
19	Self-modulation of linearly polarized electromagnetic waves in non-Maxwellian plasmas. Physics of Plasmas, 2010, 17, 042116.	1.9	22
20	Electromagnetic ion-beam instabilities in a cold plasma. Journal of Plasma Physics, 1996, 55, 77-86.	2.1	21
21	Stochastic dissociation of a laser-driven Morse oscillator. Journal of Physics B: Atomic and Molecular Physics, 1984, 17, L577-L582.	1.6	20
22	Nonaxisymmetric magnetorotational instability in ideal and viscous plasmas. Physics of Plasmas, 2008, 15, 052103.	1.9	20
23	Plasma boundary determination in ITER by the optimized current filament method. Nuclear Fusion, 1998, 38, 1829-1838.	3.5	18
24	Influence of a Strong Laser Field on the Stopping Power for Charged Test Particles in Nondegenerate Plasmas. Journal of the Physical Society of Japan, 1990, 59, 544-552.	1.6	17
25	Modulational instability of a circularly polarized wave in a magnetized electron-positron plasma with relativistic thermal energies. Physical Review E, 1997, 56, 4574-4580.	2.1	17
26	Runaway discharges in TCABR. Nuclear Fusion, 2004, 44, 631-644.	3.5	17
27	Magnetic islands and plasma rotation in the Tokamak Chauffage AlfvÃ©n BrÃ©silien tokamak. Physics of Plasmas, 2004, 11, 846-848.	1.9	16
28	Zonal flows generated by small-scale drift-AlfvÃ©n modes. Physics of Plasmas, 2006, 13, 042507.	1.9	16
29	The upgraded JET toroidal AlfvÃ©n eigenmode diagnostic system. Nuclear Fusion, 2016, 56, 112020.	3.5	16
30	Quantum theory of an electron in external fields using unitary transformations. American Journal of Physics, 1983, 51, 729-733.	0.7	15
31	Laser-enhanced mobility in semiconducting layered structures. Journal of Physics C: Solid State Physics, 1984, 17, L41-L45.	1.5	15
32	Engineering aspects of the ISTTOK operation in a multicycle alternating flat-top plasma current regime. Fusion Engineering and Design, 1998, 43, 101-113.	1.9	15
33	Ion Larmour Radius Effect on rf Ponderomotive Forces and Induced Poloidal Flow in Tokamak Plasmas. Physical Review Letters, 2000, 84, 1200-1203.	7.8	15
34	AlfvÃ©n wave heating and runaway discharges maintained by the avalanche effect in TCABR. Plasma Physics and Controlled Fusion, 2001, 43, A299-A312.	2.1	15
35	Advanced antenna system for AlfvÃ©n wave plasma heating and current drive in TCABR tokamak. Fusion Engineering and Design, 1998, 43, 15-28.	1.9	14
36	Dust-induced instability in a rotating plasma. Physics of Plasmas, 2008, 15, .	1.9	14

#	Article	IF	Citations
37	Comment on â€œDebye shielding in a nonextensive plasmaâ€•[Phys. Plasmas 18, 062102 (2011)]. Physics of Plasmas, 2012, 19, 034701.	1.9	14
38	Quantum fluid model of coherent stimulated radiation by a dense relativistic cold electron beam. Physics of Plasmas, 2013, 20, .	1.9	14
39	'Natural elongation' of spherical tokamaks. Nuclear Fusion, 1992, 32, 1666-1669.	3.5	13
40	Parametric decays of a linearly polarized electromagnetic wave in an electron-positron plasma. Physical Review E, 1997, 56, 4581-4590.	2.1	13
41	Ion Transport in Tokamak Plasmas with Ion Banana Orbits Squeezed by AlfvÃ©n Waves. Physical Review Letters, 1998, 81, 3403-3406.	7.8	13
42	Plasma cleaning and analysis of archeological artefacts from SipÂn. Journal Physics D: Applied Physics, 2003, 36, 842-848.	2.8	13
43	On the use of MHD mode analysis as a technique for determination of q-profiles in JET plasmas. Review of Scientific Instruments, 2004, 75, 4274-4277.	1.3	12
44	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
45	An approach to a non-LTE Saha equation based on the Druyvesteyn energy distribution function: a comparison between the electron temperature obtained from OES and the Langmuir probe analysis. Journal Physics D: Applied Physics, 2009, 42, 135202.	2.8	12
46	Long-distance correlations in TCABR biasing experiments. Nuclear Fusion, 2012, 52, 063004.	3.5	12
47	Geodesic mode instability driven by the electron current in tokamak plasmas. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 800-803.	2.1	12
48	AlfvÃ©n wave driving forces and plasma flow in tokamak plasmas. Plasma Physics and Controlled Fusion, 1998, 40, 451-463.	2.1	11
49	Calculations of wave excitation and dissipation in Tokamak Chauffage AlfvÃ©n wave heating experiment in Brazil. Physics of Plasmas, 1999, 6, 2437-2442.	1.9	11
50	Arrangement of emissive and cold probes for fluctuation and Reynolds stress measurements. Review of Scientific Instruments, 2004, 75, 4331-4333.	1.3	11
51	Generation of magnetoacoustic zonal flows by AlfvÃ©n waves in a rotating plasma. Physics of Plasmas, 2007, 14, 082302.	1.9	11
52	Generation of zonal flows by kinetic AlfvÃ©n waves. Plasma Physics Reports, 2007, 33, 117-129.	0.9	11
53	Nonlocal magnetorotational instability. Physics of Plasmas, 2008, 15, 052109.	1.9	11
54	Modulation of whistler waves in nonthermal plasmas. Physics of Plasmas, 2011, 18, .	1.9	11

#	Article	IF	Citations
55	Second harmonic effect on geodesic modes in tokamak plasmas. Physics of Plasmas, 2013, 20, .	1.9	11
56	TAE stability calculations compared to TAE antenna results in JET. Nuclear Fusion, 2018, 58, 082007.	3.5	11
57	Modification of AlfvÃ©n wave dispersion and AlfvÃ©n wave heating in multiple ion species tokamak plasmas. Plasma Physics and Controlled Fusion, 1997, 39, 1551-1560.	2.1	10
58	Rotation effect on geodesic and zonal flow modes in tokamak plasmas with isothermal magnetic surfaces. Plasma Physics and Controlled Fusion, 2011, 53, 105003.	2.1	10
59	Tokamak research at University of Sï¿½o Paulo. Journal of Fusion Energy, 1993, 12, 295-302.	1.2	9
60	Decay of the ion-cyclotron instability in magnetized plasmas with thermally anisotropic minority ions. Plasma Physics and Controlled Fusion, 1994, 36, 1679-1689.	2.1	9
61	Influence of conducting side limiters on the excitation of Alfven waves in tokamak plasmas. Nuclear Fusion, 1996, 36, 503-508.	3.5	9
62	Plasma rotation in toroidal devices with circular cross-sections. Physics of Plasmas, 1998, 5, 3358-3365.	1.9	9
63	ECE radiometry in the TCABR tokamak. Brazilian Journal of Physics, 2004, 34, 1771-1779.	1.4	9
64	Low frequency heating and flow driven by the dynamic ergodic divertor in tokamaks. Nuclear Fusion, 2004, 44, S83-S92.	3.5	9
65	Neoclassical generation of toroidal zonal flow by drift wave turbulence. Physics of Plasmas, 2006, 13, 032502.	1.9	9
66	H-mode access and the role of spectral shift with electrode biasing in the TCABR tokamak. Physics of Plasmas, 2018, 25, .	1.9	9
67	Mercier stability of non-circular cross-section configurations. Nuclear Fusion, 1975, 15, 785-792.	3.5	8
68	Timeâ€resolved analysis of Mirnov oscillations. Review of Scientific Instruments, 1992, 63, 3710-3715.	1.3	8
69	Scanning probe microscopy of vacuum-arc-deposited metallic and diamond-like carbon thin films. Thin Solid Films, 1998, 325, 19-23.	1.8	8
70	Laser-assisted stopping power of a hot plasma for a system of correlated ions. Physical Review E, 1999, 60, 7441-7448.	2.1	8
71	The analysis of alfvÃ©n wave current drive and plasma heating in TCABR tokamak. Brazilian Journal of Physics, 2002, 32, 57.	1.4	8
72	Transport threshold model of subsonic neoclassical tearing modes in tokamaks. Physics of Plasmas, 2003, 10, 3975-3983.	1.9	8

#	Article	IF	Citations
73	Application of microwave reflectometry to register AlfvÃ©n wave resonances in the TCABR tokamak. Review of Scientific Instruments, 2004, 75, 655-660.	1.3	8
74	Comparison of limiter and emissive electrode bias on the tokamak ISTTOK. Journal of Nuclear Materials, 2005, 337-339, 415-419.	2.7	8
75	Magnetorotational instability in the Hall regime in a hot-electron plasma. Physics of Plasmas, 2007, 14, 112108.	1.9	8
76	Temporal behaviour of toroidal rotation velocity in the TCABR tokamak. Nuclear Fusion, 2009, 49, 115026.	3.5	8
77	Determination of the minimum value of the safety factor from geodesic AlfvÃ©n eigenmodes in Joint European Torus. Physics of Plasmas, 2010, 17, .	1.9	8
78	Effect of a radiation field on electrons bound on liquid helium. Physical Review B, 1983, 28, 5313-5315.	3.2	7
79	Extension of drift magnetic island theory beyond the common profile function approximation. Physics of Plasmas, 2000, 7, 4763-4765.	1.9	7
80	Possible resolution of the â€œmain intrigueâ€•of the neoclassical tearing mode theory. Physics of Plasmas, 2000, 7, 3474-3475.	1.9	7
81	Diamond flow controller microtubes. Journal of Micromechanics and Microengineering, 2002, 12, 108-110.	2.6	7
82	Description and characterization of a ECR plasma device developed for thin film deposition. Brazilian Journal of Physics, 2003, 33, 123-127.	1.4	7
83	Particle flows in dusty plasmas of the tokamak edge. Physics of Plasmas, 2004, 11, 4138-4141.	1.9	7
84	Identification of local AlfvÃ©n wave resonances with reflectometry as a diagnostic tool in tokamaks. Nuclear Fusion, 2006, 46, S722-S729.	3.5	7
85	Contributions to the theory of magnetorotational instability and waves in a rotating plasma. Journal of Experimental and Theoretical Physics, 2008, 106, 154-165.	0.9	7
86	Nonlinear evolution of a single coherent mode in a turbulent plasma. Plasma Physics and Controlled Fusion, 2014, 56, 055004.	2.1	7
87	Influence of Toroidal Effects on the Stability of the Internal Kink Mode. Physical Review Letters, 1978, 41, 870-873.	7.8	6
88	Ballooning stability of tokamak, screw-pinch, and turbulently heated tokamak plasmas. Nuclear Fusion, 1982, 22, 1135-1144.	3.5	6
89	Inverse bremsstrahlung in relativistic quantum plasmas. Physical Review E, 2013, 87, 063112.	2.1	6
90	Anomalous plasma resistivity in prepulsed flashlamp discharges. Applied Physics Letters, 1978, 33, 280-281.	3.3	5

#	Article	IF	Citations
91	Linear birefringence and optical activity in the far-infrared propagation in a Tokamak. Plasma Physics, 1983, 25, 1215-1235.	0.9	5
92	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
93	On the stochastic ionisation of electrons in quantum well structures. Journal of Physics B: Atomic and Molecular Physics, 1985, 18, 3835-3847.	1.6	5
94	Theory of beat-wave current drive. Journal of Plasma Physics, 1986, 35, 483-492.	2.1	5
95	Ballooning stability of JET discharges. Plasma Physics and Controlled Fusion, 1989, 31, 2101-2110.	2.1	5
96	Anomalous and neoclassical transport suppression by the radial electric field, induced by AlfvÃ©n waves in tokamaks. Physics of Plasmas, 1999, 6, 3548-3553.	1.9	5
97	On a bootstrap-like mechanism of radio frequency wave current drive in tokamaks. Physics of Plasmas, 2000, 7, 1060-1063.	1.9	5
98	Fluid treatment of convective-transport threshold model of neoclassical tearing modes in tokamaks. Physics of Plasmas, 2003, 10, 3790-3792.	1.9	5
99	Whistler instability driven by relativistic electron tail in tokamaks. Plasma Physics and Controlled Fusion, 2003, 45, L63-L70.	2.1	5
100	Electron density measurements from right-hand cutoff of ECE in the TCABR tokamak. Brazilian Journal of Physics, 2004, 34, 1780-1785.	1.4	5
101	Electron emissive electrode for the plasma biasing experiment on tokamak ISTTOK. Review of Scientific Instruments, 2004, 75, 4240-4242.	1.3	5
102	Nanostructured europium oxide thin films deposited by pulsed laser ablation of a metallic target in a He buffer atmosphere. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2010, 28, 1092-1098.	2.1	5
103	Characterization of the transition from collisional to stochastic heating in a RF discharge. Journal Physics D: Applied Physics, 2010, 43, 025209.	2.8	5
104	Identification of geodesic chirping AlfvÃ©n modes andq-factor estimation in hot core tokamak plasmas in ASDEX Upgrade. Plasma Physics and Controlled Fusion, 2011, 53, 025006.	2.1	5
105	The role of lower hybrid resonance and helicon waves excitations in aÂmagnetized plasma for coating production of complex crystalline structures as hydroxyapatite. Vacuum, 2017, 146, 233-245.	3.5	5
106	Transport equations in magnetized plasmas for non-Maxwellian distribution functions. Physics of Plasmas, 2018, 25, 102308.	1.9	5
107	Effect of collisions on the mechanism of isotope separation by ion-cyclotron waves. Plasma Physics and Controlled Fusion, 1986, 28, 515-525.	2.1	4
108	Influence of the Hall effect on convection in plasmas. Physics of Fluids B, 1992, 4, 4187-4189.	1.7	4

#	Article	IF	Citations
109	Space-charge effects on nonlinear amplification of inverse bremsstrahlung electron acceleration. Physical Review E, 1994, 49, R4807-R4810.	2.1	4
110	Relativistic plasma viscosity of the Burnett kind. Physical Review E, 1999, 60, 4754-4759.	2.1	4
111	Runaway discharge in the small Brazilian Tokamak TBR-1. Physics of Plasmas, 1999, 6, 4002-4007.	1.9	4
112	Positive voltage spikes in runaway tokamak discharges. Physics of Plasmas, 2000, 7, 2894-2897.	1.9	4
113	Electron drift effects on magnetic islands. Physics of Plasmas, 2001, 8, 4020-4029.	1.9	4
114	Plasma recombination in runaway discharges in tokamak TCABR. Brazilian Journal of Physics, 2002, 32, 81-84.	1.4	4
115	Not completely flattened radial profile of the electron temperature in the vicinity of magnetic islands in Tokamak Chauffage AlfvÃ©n BrÃ©silien. Physics of Plasmas, 2005, 12, 052501.	1.9	4
116	Recombinative plasma in electron runaway discharge. Physics of Plasmas, 2005, 12, 072508.	1.9	4
117	Generation of zonal flows by ion-temperature-gradient and related modes in the presence of neoclassical viscosity. Physics of Plasmas, 2006, 13, 052516.	1.9	4
118	Resistive internal kink modes in a differentially rotating cylindrical plasma. Physics of Plasmas, 2007, 14, 112104.	1.9	4
119	A possible model for â€˜snakesâ€™. Plasma Physics and Controlled Fusion, 2007, 49, L11-L15.	2.1	4
120	Effect of the magnetic field curvature on the generation of zonal flows by drift-AlfvÃ©n waves. Plasma Physics Reports, 2007, 33, 407-419.	0.9	4
121	Ideal internal kink modes in a differentially rotating cylindrical plasma. Plasma Physics Reports, 2008, 34, 538-546.	0.9	4
122	Multipoint Thomson Scattering Diagnostic For The TCABR Tokamak With Centimeter Spatial Resolution. AIP Conference Proceedings, 2008, , .	0.4	4
123	SCTE: An open-source Perl framework for testing equipment control and data acquisition. Computer Physics Communications, 2012, 183, 1511-1518.	7.5	4
124	Magnetorotational instability, current relaxation, and current-vortex sheet. Physics of Plasmas, 2013, 20, 082126.	1.9	4
125	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
126	Investigation of rotation at the plasma edge in TCABR. Nuclear Fusion, 2015, 55, 093001.	3.5	4

#	Article	IF	Citations
127	Drift and geodesic effects on the ion sound eigenmode in tokamak plasmas. Plasma Physics Reports, 2016, 42, 424-429.	0.9	4
128	Geodesic mode instability driven by electron and ion fluxes during neutral beam injection in tokamaks. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 3066-3070.	2.1	4
129	Application of the suydam method to the balloonings stability problem. Computer Physics Communications, 1981, 22, 399-402.	7.5	3
130	Influence of equilibrium flows on the resistive internal kink and reconnecting modes. Physics of Fluids, 1981, 24, 365.	1.4	3
131	Simplified magnetic diagnostic methods for tokamaks. Nuclear Fusion, 1998, 38, 1385-1395.	3.5	3
132	Calculations of AlfvÃ©n wave driving forces, plasma flow, and current drive in the Tokamak Chauffage AlfvÃ©n wave experiment in Brazil (TCABR). Physics of Plasmas, 2001, 8, 210-215.	1.9	3
133	Role of trapped and circulating particles in inducing current drive and radial electric field by AlfvÃ©n waves in tokamaks. Journal of Plasma Physics, 2002, 67, 301-308.	2.1	3
134	Results of localized AlfvÃ©n wave heating in TCABR. Brazilian Journal of Physics, 2004, 34, 1707-1714.	1.4	3
135	Diaceleric structures in magnetized plasmas. Physics of Plasmas, 2004, 11, 16-22.	1.9	3
136	Overview of Recent Results of TCABR. AIP Conference Proceedings, 2006, , .	0.4	3
137	Fast drift AlfvÃ©n waves excited at the low-frequency band in tokamak plasmas. Physics of Plasmas, 2007, 14, 104506.	1.9	3
138	Comparative electron temperature measurements of Thomson scattering and electron cyclotron emission diagnostics in TCABR plasmas. Review of Scientific Instruments, 2010, 81, 10D529.	1.3	3
139	Ion-acoustic double-layers in a magnetized plasma with nonthermal electrons. Physics of Plasmas, 2013, 20, 112301.	1.9	3
140	Gamma-ray free-electron lasers: Quantum fluid model. Europhysics Letters, 2014, 108, 65002.	2.0	3
141	Geodesic mode instability driven by electron and ion fluxes in tokamaks. Physics of Plasmas, 2015, 22, 114503.	1.9	3
142	Report on recent results obtained in TCABR. Journal of Physics: Conference Series, 2015, 591, 012001.	0.4	3
143	Geodesic modes driven by plasma fluxes during oblique NB heating in tokamaks. Physics of Plasmas, 2018, 25, 122507.	1.9	3
144	Plasma resistivity determination in runaway discharges from positive voltage spikes on TCABR tokamak. Brazilian Journal of Physics, 2002, 32, 107-111.	1.4	3

#	Article	IF	Citations
145	Non-linear distortion of ion acoustic wave packets. Physics Letters, Section A: General, Atomic and Solid State Physics, 1979, 70, 105-106.	2.1	2
146	Resistive instabilities in reversed-field confinement configurations without shear. Physics of Fluids, 1981, 24, 661.	1.4	2
147	A note on the effects of screening on the electronic states of an atom embedded in a laser fusion plasma. Journal of Physics B: Atomic and Molecular Physics, 1986, 19, L71-L74.	1.6	2
148	Effect of beam density on nonlinear amplification of inverse-bremsstrahlung electron acceleration. Journal of Plasma Physics, 1997, 57, 697-707.	2.1	2
149	Title is missing!. Astrophysics and Space Science, 1997, 256, 311-319.	1.4	2
150	High precision pick-up (Mirnov) coils for disruption studies in the T-11M and TCABR tokamaks. Review of Scientific Instruments, 1999, 70, 449-451.	1.3	2
151	Runaway discharges in TCABR. , 2001, , .		2
152	Drift stabilization of internal resistive-wall modes in tokamaks. Plasma Physics Reports, 2003, 29, 779-784.	0.9	2
153	Recent Results of Alfvèn Wave Studies in TCABR. AIP Conference Proceedings, 2003, , .	0.4	2
154	The analysis of AlfvÃ©n wave antenna implementation in the ETE spherical tokamak. Brazilian Journal of Physics, 2004, 34, 1722-1728.	1.4	2
155	Nonlinear viscosity and its role in drift-AlfvÃ©n modes. Physics of Plasmas, 2005, 12, 122509.	1.9	2
156	Unified theory of Mercier-ballooning and AlfvÃ©n eigenmodes in positive-shear tokamaks with large-orbit energetic ions. Physics of Plasmas, 2005, 12, 042507.	1.9	2
157	Spatial dust distribution and plasma dynamics in the tokamak edge. Plasma Physics and Controlled Fusion, 2007, 49, 803-808.	2.1	2
158	A Far Infrared Super Radiant FEL. Journal of Infrared, Millimeter and Terahertz Waves, 2007, 28, 699-704.	0.6	2
159	Externally driven global AlfvÃ©n eigenmodes applied for effective mass number measurement on TCABR. Physics of Plasmas, 2014, 21, 122509.	1.9	2
160	Data Acquisition and Automation for Plasma Rotation Diagnostic in the TCABR Tokamak. Journal of Physics: Conference Series, 2015, 591, 012007.	0.4	2
161	Geodesic modes driven by untrapped resonances of NB energetic ions in tokamaks. Physics of Plasmas, 2019, 26, 102508.	1.9	2
162	Overview of plasma rotation studies on the TCABR tokamak. Plasma Physics and Controlled Fusion, 2021, 63, 075001.	2.1	2

#	Article	IF	Citations
163	Collisional transport in axisymmetric plasma columns with strong longitudinal flows: application to solar loops. Brazilian Journal of Physics, 2005, 35, 544-553.	1.4	2
164	On the method of Fisher and Bekefi for measuring the confinement time of a tokamak plasma. Physics Letters, Section A: General, Atomic and Solid State Physics, 1980, 78, 68-70.	2.1	1
165	Effects of finite- beta on the adiabatic invariant J in axisymmetric magnetic confinement configurations. Plasma Physics, 1980, 22, 465-475.	0.9	1
166	Laser-assisted coulomb excitation of nuclei. Lettere Al Nuovo Cimento Rivista Internazionale Della SocietÃ Italiana Di Fisica, 1983, 38, 375-380.	0.4	1
167	Resistive mode in rotating plasma columns including the hall current. Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics, 1983, 122, 289-293.	0.9	1
168	Resistive stability of canonical profiles. Nuclear Fusion, 1993, 33, 1089-1093.	3.5	1
169	A particle-in-cell simulation of nonlinear amplification of inverse Bremsstrahlung electron acceleration. Journal Physics D: Applied Physics, 1997, 30, 1759-1762.	2.8	1
170	Enhanced diffusion and isotope extraction driven by ion-cyclotron surface waves in a rippled magnetic field. Plasma Sources Science and Technology, 1998, 7, 410-415.	3.1	1
171	AlfvÃ©n wave heating, current drive, plasma flow and improved confinement scenarios in tokamaks. Plasma Physics and Controlled Fusion, 1999, 41, A487-A494.	2.1	1
172	AlfvÃ©n and fast wave forces, affecting ions in magnetic traps with closed magnetic surfaces. Physics of Plasmas, 1999, 6, 1378-1381.	1.9	1
173	Elfimov and GalvÃ£o Reply:. Physical Review Letters, 2000, 85, 2409-2409.	7.8	1
174	Calculations of alfvÃ©n wave heating in TCABR tokamak. Brazilian Journal of Physics, 2002, 32, 34.	1.4	1
175	Global Alfven Wave Heating of the Magnetosphere of Young Stars. Astrophysical Journal, 2004, 600, 292-295.	4.5	1
176	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
177	RF antenna analysis with the ICANT code. Fusion Engineering and Design, 2006, 81, 2205-2212.	1.9	1
178	Plasma rotation effect on interaction of low frequency fields with plasmas at the rational surfaces in tokamaks. Nuclear Fusion, 2006, 46, S154-S158.	3.5	1
179	Density Limit in TCABR Plasmas With Alfvèn Wave Heating. AIP Conference Proceedings, 2006, , .	0.4	1
180	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

#	Article	IF	Citations
181	Viscous relaxation of drift-AlfvÃ©n waves in tokamaks and its application for triggering improved confinement regimes. Physics of Plasmas, 2007, 14, 014503.	1.9	1
182	High-frequency extensions of magnetorotational instability in astrophysical plasmas. Plasma Physics Reports, 2008, 34, 678-687.	0.9	1
183	Anisotropy of thermal stresses in confined dusty plasmas. Plasma Sources Science and Technology, 2008, 17, 015006.	3.1	1
184	Spectral Line Profile Analysis Using Higher Diffraction Order in Vacuum Ultraviolet Region. AIP Conference Proceedings, 2008, , .	0.4	1
185	Reconstruction activities and first results from the Thomson scattering diagnostic on the TCABR tokamak. Journal of Physics: Conference Series, 2010, 227, 012027.	0.4	1
186	Nonlinear stationary structures in nonthermal plasmas. Journal of Physics: Conference Series, 2012, 370, 012044.	0.4	1
187	Imperfect relativistic mirrors in the quantum regime. Physics of Plasmas, 2014, 21, 053109.	1.9	1
188	Transport equations for lower hybrid waves in a turbulent plasma. Journal of Plasma Physics, 2015, 81, .	2.1	1
189	Interplay between intrinsic plasma rotation and magnetic island evolution in disruptive discharges. Plasma Physics Reports, 2016, 42, 465-471.	0.9	1
190	Mass number identification by AlfvÃ©n wave diagnostics in hydrogen and helium plasmas in TCABR. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 1189-1192.	2.1	1
191	Magnetic Confinement Fusion Concepts/Configurations. , 2021, , 383-403.		1
192	Effect of plasma subsonic toroidal flows induced by AlfvÃ©n waves on transport processes in the edge of elongated tokamaks. Brazilian Journal of Physics, 2001, 31, 34-41.	1.4	1
193	Neoclassical ion transport in the edge of axially-symmetric arbitrary cross-section tokamak with plasma subsonic toroidal flows. Brazilian Journal of Physics, 2002, 32, .	1.4	1
194	Surface-wave instabilities in a plasma rotating with step-like frequency profile. Brazilian Journal of Physics, 2009, 39, .	1.4	1
195	Polarization Equation for a High-Frequency EM Wave Propagating through a Cold Plasma. IEEE Transactions on Plasma Science, 1974, 2, 211-214.	1.3	0
196	Comments on the paper by D.R. Cohn, R.R. Parker and D.L. Jassby, â€˜Characteristics of high-density tokamak ignition reactorsâ€™, Nucl. Fusion 16 1 (1976) 31. Nuclear Fusion, 1976, 16, 1043-1044.	3.5	0
197	Â-Dependence of the particle and energy confinement times in the low collisionality regime in toroidal systems. Plasma Physics, 1978, 20, 409-414.	0.9	0
198	Influence of diffusion on the quasi-linear growth of magnetic islands. Physics Letters, Section A: General, Atomic and Solid State Physics, 1983, 94, 295-297.	2.1	0

#	Article	IF	Citations
199	Title is missing!. Plasma Physics and Controlled Fusion, 1988, 30, 605-608.	2.1	0
200	Tearing modes and canonical profiles. Physica Scripta, 1995, 51, 784-788.	2.5	0
201	Using beryllium and polypropylene-aluminium absorbers to measure the TBR-1 tokamak electron temperature. Brazilian Journal of Physics, 1998, 28, 230.	1.4	0
202	Effect of the radial electric field, induced by AlfvÃ©n waves, on transport processes in tokamaks. Nuclear Fusion, 1999, 39, 2119-2125.	3.5	0
203	Bolometric calibration for TCABR performed with a synchrotron light source. , 2001, , .		0
204	Conference Summary: Summary of the 14th IAEA Technical Committee Meeting on Research Using Small Fusion Devices. Nuclear Fusion, 2002, 42, 1168-1171.	3.5	0
205	Comments on the article `Magnetic diagnostics: general principles and the problem of reconstruction of plasma current and pressure profiles in toroidal systems'. Nuclear Fusion, 2003, 43, 157-158.	3.5	0
206	Identification of the AlfvÃ©n wave resonances in the TCABR tokamak by the microwave reflectometry. Brazilian Journal of Physics, 2004, 34, 1715-1721.	1.4	0
207	Efficiency of plasma biasing by movable localized limiter in tokamak ISTTOK. European Physical Journal D, 2005, 55, 361-366.	0.4	0
208	Neoclassical magnetic microislands in tokamaks. Physics of Plasmas, 2005, 12, 092501.	1.9	0
209	Electron Temperature and Density Measurements by the Unicity of Particle Confinement Time on the TCABR Tokamak. AIP Conference Proceedings, 2006, , .	0.4	0
210	Impurity Line Emissions in VUV Region of TCABR Tokamak. AIP Conference Proceedings, 2008, , .	0.4	0
211	Overview of Recent ISTTOK Results. AIP Conference Proceedings, 2008, , .	0.4	0
212	Design and characterization of an RF plasma cleaner. Brazilian Journal of Physics, 2010, 40, 108-114.	1.4	0
213	Registration of AlfvÃ©n resonances in TCABR tokamak by the scanning reflectometer at sideband frequencies. Review of Scientific Instruments, 2011, 82, 023504.	1.3	0
214	Error analysis in the electron temperature measurements in TCABR. Journal of Physics: Conference Series, 2012, 370, 012045.	0.4	0
215	A full wave theory of O-mode reflectometry with an intermediate level of turbulence. Plasma Physics and Controlled Fusion, 2013, 55, 105008.	2.1	0
216	Excitation of Global AlfvÃ©n Waves by Low RF Power on TCABR. Journal of Physics: Conference Series, 2015, 591, 012002.	0.4	0

#	Article	IF	Citations
217	Heat flux effects on the dispersion relation for geodesic modes in rotating plasmas. Journal of Physics: Conference Series, 2015, 591, 012004.	0.4	0
218	Production of Silicon Oxide like Thin Films by the Use of Atmospheric Plasma Torch. Journal of Physics: Conference Series, 2015, 591, 012041.	0.4	0
219	Electron density profile reconstruction on the TCABR sweeping reflectometer. Journal of Physics: Conference Series, 2015, 591, 012006.	0.4	0
220	Conjugate influence of current relaxation and of current-vortex sheet formation on the magnetorotational instability. Journal of Physics: Conference Series, 2015, 591, 012033.	0.4	0
221	Optimization of Antenna Current Feeding for the AlfvÃ©n Eigenmodes Active Diagnostic System of JET. Brazilian Journal of Physics, 2018, 48, 146-154.	1.4	0
222	The JET upgraded toroidal AlfvÃ©n Eigenmode Diagnostic System. Fusion Engineering and Design, 2019, 146, 2639-2643.	1.9	0
223	Development of high-current power supplies for the TCABR tokamak. Fusion Engineering and Design, 2020, 159, 111698.	1.9	0
224	Magnetic coil system for the TCABR tokamak. Brazilian Journal of Physics, 2002, 32, .	1.4	0
225	Low frequency fields driven by the Ergodic Magnetic Limiter at rational surfaces in rotating tokamak plasmas. Brazilian Journal of Physics, 2004, 34, 1677-1683.	1.4	0
226	10.1007/s11447-008-1013-4. , 2010, 106, 154.		0
227	Growth Rates of Envelope Modulations of Electromagnetic Waves in Relativistic Temperature Electron-Positron Plasmas, Stimulated by Weak or Finite Phonon Damping. , 1998, , 311-319.		0
228	Drift and Geodesic Effects on the Ion Sound Eigenmode in Tokamak Plasmas. Plasma Physics Reports, 2016, 42, 434-439.	0.0	0
229	Interplay between Intrinsic Plasma Rotation and Magnetic Island Evolution in Disruptive Discharges. Plasma Physics Reports, 2016, 42, 476-482.	0.0	0