J R MartÃ-n-SolÃ-s

List of Publications by Year
in descending order

45 papers	1,683 citations	257450 24 h-index	276875 41 g-index
45 all docs	45 docs citations	45 times ranked	1388 citing authors

#	Article	IF	Citations
1	Plasma detachment in JET Mark I divertor experiments. Nuclear Fusion, 1998, 38, 331-371.	3.5	282
2	Overview of the JET results in support to ITER. Nuclear Fusion, 2017, 57, 102001.	3.5	150
3	Momentumâ€“space structure of relativistic runaway electrons. Physics of Plasmas, 1998, 5, 2370-2377.	1.9	95
4	Dynamics of high energy runaway electrons in the Frascati Tokamak Upgrade. Physics of Plasmas, 2003, 10, 2350-2360.	1.9	90
5	Efficient generation of energetic ions in multi-ion plasmas by radio-frequency heating. Nature Physics, 2017, 13, 973-978.	16.7	73
6	An ITPA joint experiment to study runaway electron generation and suppression. Physics of Plasmas, 2014, 21, .	1.9	71
7	Formation and termination of runaway beams in ITER disruptions. Nuclear Fusion, 2017, 57, 066025.	3.5	66
8	Runaway electron measurements in the JET tokamak. Plasma Physics and Controlled Fusion, 1996, 38, 2035-2049.	2.1	56
9	Magnetic energy flows during the current quench and termination of disruptions with runaway current plateau formation in JET and implications for ITER. Nuclear Fusion, 2011, 51, 073004.	3.5	52
10	Overview of the JET results. Nuclear Fusion, 2015, 55, 104001.	3.5	50
11	Energy limits on runaway electrons in tokamak plasmas. Physics of Plasmas, 1999, 6, 238-252.	1.9	46
12	Disruption Avoidance in the Frascati Tokamak Upgrade by Means of Magnetohydrodynamic Mode Stabilization Using Electron-Cyclotron-Resonance Heating. Physical Review Letters, 2008, 100, 045006.	7.8	39
13	Runaway electron generation and control. Plasma Physics and Controlled Fusion, 2017, 59, 014044.	2.1	39
14	Effect of magnetic and electrostatic fluctuations on the runaway electron dynamics in tokamak plasmas. Physics of Plasmas, 1999, 6, 3925-3933.	1.9	38
15	Enhanced Production of Runaway Electrons during a Disruptive Termination of Discharges Heated with Lower Hybrid Power in the Frascati Tokamak Upgrade. Physical Review Letters, 2006, 97, 165002.	7.8	38
16	Disruption control on FTU and ASDEX upgrade with ECRH. Nuclear Fusion, 2009, 49, 065014.	3.5	35
17	Experimental Observation of Increased Threshold Electric Field for Runaway Generation due to Synchrotron Radiation Losses in the FTU Tokamak. Physical Review Letters, 2010, 105, 185002.	7.8	33
18	Runaway electron behaviour during electron cyclotron resonance heating in the Frascati Tokamak Upgrade. Nuclear Fusion, 2004, 44, 974-981.	3.5	29

#	Article	IF	Citations
19	Predictions on runaway current and energy during disruptions in tokamak plasmas. Physics of Plasmas, 2000, 7, 3369-3377.	1.9	27
20	Overview of the FTU results. Nuclear Fusion, 2007, 47, S608-S621.	3.5	27
21	Inter-machine comparison of the termination phase and energy conversion in tokamak disruptions with runaway current plateau formation and implications for ITER. Nuclear Fusion, 2014, 54, 083027.	3.5	26
22	Runaway electron beam control. Plasma Physics and Controlled Fusion, 2019, 61, 014036.	2.1	26
23	Interaction of runaway electrons with lower hybrid waves via anomalous Doppler broadening. Physics of Plasmas, 2002, 9, 1667-1675.	1.9	25
24	Overview of the FTU results. Nuclear Fusion, 2009, 49, 104013.	3.5	24
25	A gamma-ray spectrometer system for fusion applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 476, 522-526.	1.6	23
26	Overview of progress in European medium sized tokamaks towards an integrated plasma-edge/wall solution ^a. Nuclear Fusion, 2017, 57, 102014.	3.5	23
27	Runaway electron dynamics in tokamak plasmas with high impurity content. Physics of Plasmas, 2015, 22, .	1.9	22
28	Analysis of deposited layers with deuterium and impurity elements on samples from the divertor of JET with ITER-like wall. Journal of Nuclear Materials, 2019, 516, 202-213.	2.7	18
29	Comparison of runaway dynamics in LH and ECRH heated discharges in the Frascati Tokamak Upgrade. Nuclear Fusion, 2005, 45, 1524-1533.	3.5	17
30	Overview of the FTU results. Nuclear Fusion, 2005, 45, S227-S238.	3.5	17
31	On the avalanche generation of runaway electrons during tokamak disruptions. Physics of Plasmas, 2015, 22, .	1.9	17
32	On the measurement of the threshold electric field for runaway electron generation in the Frascati Tokamak Upgrade. Physics of Plasmas, 2016, 23, 122501.	1.9	16
33	Study of Z scaling of runaway electron plateau final loss energy deposition into wall of DIII-D. Physics of Plasmas, 2017, 24, .	1.9	16
34	On the effect of synchrotron radiation and magnetic fluctuations on the avalanche runaway growth rate. Physics of Plasmas, 2000, 7, 3814-3817.	1.9	10
35	Overview of the FTU results. Nuclear Fusion, 2015, 55, 104005.	3.5	10
36	Determination of the parametric region in which runaway electron energy losses are dominated by bremsstrahlung radiation in tokamaks. Physics of Plasmas, 2007, 14, 072503.	1.9	9

#	Article	IF	Citations
37	Pitch angle scattering and synchrotron radiation of relativistic runaway electrons in tokamak stochastic magnetic fields. Physics of Plasmas, 2008, 15, .	1.9	8
38	Perpendicular dynamics of runaway electrons in tokamak plasmas. Physics of Plasmas, 2012, 19, 102504.	1.9	8
39	A first approach to runaway electron control in FTU. Fusion Engineering and Design, 2013, 88, 1109-1112.	1.9	8
40	Runaway electron imaging spectrometry (REIS) system. Review of Scientific Instruments, 2019, 90, 073501.	1.3	8
41	Overview of the FTU results. Nuclear Fusion, 2017, 57, 102004.	3.5	7
42	Estimation of synchrotron radiation and limiting energy of high-energy runaway electrons in tokamak stochastic magnetic fields. Physics of Plasmas, 2006, 13, 012508.	1.9	5
43	ECRH: A Tool To Control Disruptions In Tokamaks. , 2009, , .		2
44	Radial runaway losses in tokamak disruptions. Physics of Plasmas, 2021, 28, 032505.	1.9	2
45	Reply to comment on â€˜Comparison of runaway dynamics in LH and ECRH heated discharges in the Frascati Tokamak Upgradeâ€™. Nuclear Fusion, 2008, 48, 068002.	3.5	0