R S Granetz

List of Publications by Year
in descending order

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25	1,021	567281	610901
papers	citations	15 h-index	24 g-index

25	25	25	884
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Overview of the SPARC physics basis towards the exploration of burning-plasma regimes in high-field, compact tokamaks. Nuclear Fusion, 2022, 62, 042003.	3.5	37
2	Feasibility study for a high-k temperature fluctuation diagnostic based on soft x-ray imaging. Review of Scientific Instruments, 2021, 92, 053537.	1.3	1
3	Disruption prediction on EAST tokamak using a deep learning algorithm. Plasma Physics and Controlled Fusion, 2021, 63, 115007.	2.1	23
4	Modeling the complete prevention of disruption-generated runaway electron beam formation with a passive 3D coil in SPARC. Nuclear Fusion, 2021, 61, 124003.	3.5	17
5	Advancing Fusion with Machine Learning Research Needs Workshop Report. Journal of Fusion Energy, 2020, 39, 123-155.	1.2	17
6	Overview of the SPARC tokamak. Journal of Plasma Physics, 2020, 86, .	2.1	181
7	MHD stability and disruptions in the SPARC tokamak. Journal of Plasma Physics, 2020, 86, .	2.1	31
8	Progress Toward Interpretable Machine Learningâ€“Based Disruption Predictors Across Tokamaks. Fusion Science and Technology, 2020, 76, 912-924.	1.1	25
9	Characterization of disruption halo current between â€˜W-Likeâ€™ graphite divertor and â€˜ITER-Likeâ€™ divertor structure on EAST tokamak. Plasma Physics and Controlled Fusion, 2020, 62, 095019.	2.1	5
10	An application of survival analysis to disruption prediction via Random Forests. Plasma Physics and Controlled Fusion, 2019, 61, 095009.	2.1	22
11	A real-time machine learning-based disruption predictor in DIII-D. Nuclear Fusion, 2019, 59, 096016.	3.5	65
12	Avoidance of impurity-induced current quench using lower hybrid current drive. Nuclear Fusion, 2019, 59, 066003.	3.5	6
13	Helical core formation and evolution during current ramp-up in the high-field tokamak Alcator C-Mod. Physics of Plasmas, 2019, 26, 022501.	1.9	6
14	Exploratory Machine Learning Studies for Disruption Prediction Using Large Databases on DIII-D. Fusion Science and Technology, 2018, 74, 89-100.	1.1	44
15	Disruption prediction investigations using Machine Learning tools on DIII-D and Alcator C-Mod. Plasma Physics and Controlled Fusion, 2018, 60, 084004.	2.1	58
16	Halo current diagnostic system of experimental advanced superconducting tokamak. Review of Scientific Instruments, 2015, 86, 103506.	1.3	9
17	Analysis of EASTâ€™s New Tungsten Divertor and Cooling System during a Disruption with Halo Currents. Fusion Science and Technology, 2015, 68, 582-586.	1.1	3
18	Characterization of plasma current quench during disruption in EAST tokamak. Chinese Physics B, 2015, 24, 025205.	1.4	14

#	Article	IF	Citations
19	An ITPA joint experiment to study runaway electron generation and suppression. Physics of Plasmas, 2014, 21, .	1.9	71
20	Modeling Technique to Predict Fields, Currents, and Loads for C-Mod's Advanced Outer Divertor During a Disruption With a 2.5-MA Plasma Current and 9-T Toroidal Field. IEEE Transactions on Plasma Science, 2014, 42, 568-572.	1.3	3
21	Formation and Stability of Impurity â€œSnakesâ€• in Tokamak Plasmas. Physical Review Letters, 2013, 110, 065006.	7.8	43
22	On the formation and stability of long-lived impurity-ion snakes in Alcator C-Mod. Nuclear Fusion, 2013, 53, 043019.	3.5	23
23	Nonaxisymmetric field effects on Alcator C-Mod. Physics of Plasmas, 2005, 12, 056110.	1.9	135
24	Persistent density perturbations at rational-qsurfaces following pellet injection in the Joint European Torus. Physical Review Letters, 1987, 59, 2303-2306.	7.8	169
25	Scenario adaptive disruption prediction study for next generation burning-plasma tokamaks. Nuclear Fusion, 0, , .	3.5	13