

Gerald Navratil

List of Publications by Year in descending order

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34
papers

888
citations

687363

13
h-index

454955

30
g-index

34
all docs

34
docs citations

34
times ranked

513
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling of active control of external magnetohydrodynamic instabilities. Physics of Plasmas, 2001, 8, 2170-2180.	1.9	175
2	Active feedback stabilization of the resistive wall mode on the DIII-D device. Physics of Plasmas, 2001, 8, 2071-2082.	1.9	119
3	Measurement of the Resistive-Wall-Mode Stability in a Rotating Plasma Using Active MHD Spectroscopy. Physical Review Letters, 2004, 93, 135002.	7.8	93
4	Measurement and modeling of three-dimensional equilibria in DIII-D. Physics of Plasmas, 2011, 18, .	1.9	72
5	Suppression of resistive wall instabilities with distributed, independently controlled, active feedback coils. Physics of Plasmas, 2000, 7, 3133-3136.	1.9	61
6	Active control of 2/1 magnetic islands in a tokamak. Physics of Plasmas, 1998, 5, 1855-1863.	1.9	55
7	Dynamical plasma response of resistive wall modes to changing external magnetic perturbations. Physics of Plasmas, 2004, 11, 2573-2579.	1.9	49
8	Tomographic analysis of the evolution of plasma cross sections. Review of Scientific Instruments, 1986, 57, 1557-1566.	1.3	31
9	The high beta tokamak-extended pulse magnetohydrodynamic mode control research program. Plasma Physics and Controlled Fusion, 2011, 53, 074016.	2.1	25
10	Effect of magnetic islands on the local plasma behavior in a tokamak experiment. Physics of Plasmas, 2002, 9, 3938-3945.	1.9	20
11	Multipoint Thomson scattering. Review of Scientific Instruments, 1983, 54, 35-40.	1.3	15
12	Feedback control of the proximity to marginal RWM stability using active MHD spectroscopy. Nuclear Fusion, 2012, 52, 013003.	3.5	14
13	Feedback-assisted extension of the tokamak operating space to low safety factor. Physics of Plasmas, 2014, 21, .	1.9	14
14	Initial high beta operation of the HBT-EP Tokamak. Journal of Fusion Energy, 1993, 12, 303-310.	1.2	13
15	Study of a collisionless, curvature and rotationally driven, trapped particle instability. Physics of Fluids, 1988, 31, 1773.	1.4	12
16	Growth rate, saturation, and radial transport measurements for the trapped ion instability. Physics of Fluids B, 1989, 1, 293-304.	1.7	12
17	Nonstationary signal analysis of magnetic islands in plasmas. Review of Scientific Instruments, 1999, 70, 4545-4551.	1.3	12
18	Adaptive control of rotating magnetic perturbations in HBT-EP using GPU processing. Plasma Physics and Controlled Fusion, 2013, 55, 084003.	2.1	12

#	ARTICLE	IF	CITATIONS
19	Plasmas, 2015, 22, 056102.	1.9	10
20	Compact ion beam source for feedback control of plasma instabilities. Review of Scientific Instruments, 1992, 63, 4427-4431.	1.3	9
21	Fast, multi-channel real-time processing of signals with microsecond latency using graphics processing units. Review of Scientific Instruments, 2014, 85, 045114.	1.3	8
22	Modeling of fast neutral-beam-generated ion effects on MHD-spectroscopic observations of resistive wall mode stability in DIII-D plasmas. Physics of Plasmas, 2015, 22, .	1.9	8
23	Improved feedback control of wall stabilized kink modes with different plasma-wall couplings and mode rotation. Plasma Physics and Controlled Fusion, 2016, 58, 045001.	2.1	8
24	High-speed optical diagnostic that uses interference filters to measure Doppler shifts. Review of Scientific Instruments, 2004, 75, 4077-4081.	1.3	6
25	Mode rotation control in a tokamak with a feedback-driven biased electrode. Review of Scientific Instruments, 2019, 90, 023503.	1.3	6
26	A dimensionality reduction algorithm for mapping tokamak operational regimes using a variational autoencoder (VAE) neural network. Nuclear Fusion, 2021, 61, 126063.	3.5	6
27	Design and installation of a ferromagnetic wall in tokamak geometry. Review of Scientific Instruments, 2015, 86, 103504.	1.3	5
28	A photodiode for the measurement of soft x-ray radiation from plasma. Review of Scientific Instruments, 1996, 67, 3334-3335.	1.3	4
29	Suppression of ITG turbulence due to spectral shift during biasing induced H-mode on HBT-EP. Physics of Plasmas, 2021, 28, .	1.9	4
30	Resistive contributions to the stability of DIII-D ITER baseline demonstration discharges. Physics of Plasmas, 2021, 28, 042502.	1.9	3
31	Modeling of fast neutral-beam-generated ions and rotation effects on RWM stability in DIII-D plasmas. Nuclear Fusion, 2015, 55, 113034.	3.5	2
32	Shaping effects on toroidal magnetohydrodynamic modes in the presence of plasma and wall resistivity. Physics of Plasmas, 2018, 25, 012517.	1.9	2
33	Suppression of MHD modes with active phase-control of probe-injected currents. Nuclear Fusion, 2021, 61, 096017.	3.5	2
34	Halo current rotation scaling in post-disruption plasmas. Nuclear Fusion, 2022, 62, 026044.	3.5	1