Todd evans

List of Publications by Year
in descending order

36	2,382	304743	345221
papers	citations	22 h-index	36 g-index

36	36	36	1264
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Suppression of Large Edge-Localized Modes in High-Confinement DIII-D Plasmas with a Stochastic Magnetic Boundary. Physical Review Letters, 2004, 92, 235003.	7.8	734
2	Experimental signatures of homoclinic tangles in poloidally diverted tokamaks. Journal of Physics: Conference Series, 2005, 7, 174-190.	0.4	142
3	Pedestal Bifurcation and Resonant Field Penetration at the Threshold of Edge-Localized Mode Suppression in the DIII-D Tokamak. Physical Review Letters, 2015, 114, 105002.	7.8	141
4	Modeling of stochastic magnetic flux loss from the edge of a poloidally diverted tokamak. Physics of Plasmas, 2002, 9, 4957-4967.	1.9	120
5	Edge localized mode control with an edge resonant magnetic perturbation. Physics of Plasmas, 2005, 12, 056119.	1.9	109
6	Screening of resonant magnetic perturbations by flows in tokamaks. Nuclear Fusion, 2012, 52, 054003.	3.5	106
7	Aspects of three dimensional transport for ELM control experiments in ITER-similar shape plasmas at low collisionality in DIII-D. Plasma Physics and Controlled Fusion, 2008, 50, 124029.	2.1	89
8	The physics of edge resonant magnetic perturbations in hot tokamak plasmas. Physics of Plasmas, 2006, 13, 056121.	1.9	86
9	Identification and analysis of transport domains in the stochastic boundary of TEXTOR-DED for different mode spectra. Nuclear Fusion, 2008, 48, 024009.	3.5	80
10	Homoclinic tangles, bifurcations and edge stochasticity in diverted tokamaks. Contributions To Plasma Physics, 2004, 44, 235-240.	1.1	78
11	Resonant magnetic perturbations of edge-plasmas in toroidal confinement devices. Plasma Physics and Controlled Fusion, 2015, 57, 123001.	2.1	76
12	On Demand Triggering of Edge Localized Instabilities Using External Nonaxisymmetric Magnetic Perturbations in Toroidal Plasmas. Physical Review Letters, 2010, 104, 045001.	7.8	66
13	Resonant Pedestal Pressure Reduction Induced by a Thermal Transport Enhancement due to Stochastic Magnetic Boundary Layers in High Temperature Plasmas. Physical Review Letters, 2009, 103, 165005.	7.8	58
14	Explicit calculations of homoclinic tangles in tokamaks. Physics of Plasmas, 2003, 10, 3796-3799.	1.9	54
15	Impurity confinement and transport in high confinement regimes without edge localized modes on	1.9	47
16	Particle confinement control with resonant magnetic perturbations at TEXTOR. Journal of Nuclear Materials, 2009, 390-391, 330-334.	2.7	46
17	Overview of NSTX Upgrade initial results and modelling highlights. Nuclear Fusion, 2017, 57, 102006.	3.5	45
18	Validation of the model for ELM suppression with 3D magnetic fields using low torque ITER baseline scenario discharges in DIII-D. Physics of Plasmas, 2017, 24, .	1.9	43

#	Article	IF	Citations
19	Reduction of edge localized mode intensity on DIII-D by on-demand triggering with high frequency pellet injection and implications for ITER. Physics of Plasmas, 2013, 20, .	1.9	30
20	Intrinsic rotation produced by ion orbit loss and X-loss. Physics of Plasmas, 2012, 19, .	1.9	27
21	Impact of screening of resonant magnetic perturbations in three dimensional edge plasma transport simulations for DIII-D. Physics of Plasmas, 2012, 19, 052507.	1.9	27
22	Three-dimensional distortions of the tokamak plasma boundary: boundary displacements in the presence of resonant magnetic perturbations. Nuclear Fusion, 2014, 54, 083006.	3.5	27
23	The pattern of parallel edge plasma flows due to pressure gradients, recycling, and resonant magnetic perturbations in DIII-D. Physics of Plasmas, 2015, 22, .	1.9	20
24	Increased electron temperature turbulence during suppression of edge localized mode by resonant magnetic perturbations in the DIII-D tokamak. Physics of Plasmas, 2017, 24, .	1.9	19
25	Striation pattern of target particle and heat fluxes in three dimensional simulations for DIII-D. Physics of Plasmas, 2014, 21, 020702.	1.9	14
26	Imaging divertor strike point splitting in RMP ELM suppression experiments in the DIII-D tokamak. Review of Scientific Instruments, 2018, 89, 10E106.	1.3	13
27	Predict-first experimental analysis using automated and integrated magnetohydrodynamic modeling. Physics of Plasmas, 2018, 25, .	1.9	13
28	Direct measurements of internal structures of born-locked modes and the key role in triggering tokamak disruptions. Physics of Plasmas, 2019, 26, 042505.	1.9	13
29	2D soft x-ray system on DIII-D for imaging the magnetic topology in the pedestal region. Review of Scientific Instruments, 2010, 81, 10E534.	1.3	12
30	Helical modulation of the electrostatic plasma potential due to edge magnetic islands induced by resonant magnetic perturbation fields at TEXTOR. Physics of Plasmas, 2015, 22, .	1.9	11
31	Exploration of magnetic perturbation effects on advanced divertor configurations in NSTX-U. Physics of Plasmas, 2016, 23, 062517.	1.9	9
32	Plasma response measurements of non-axisymmetric magnetic perturbations on DIII-D via soft x-ray	1.9	8
33	Calculation of the radial electric field from a modified Ohm's law. Physics of Plasmas, 2017, 24, .	1.9	8
34	Analysis of toroidal phasing of resonant magnetic perturbation effects on edge transport in the DIII-D tokamak. Physics of Plasmas, 2013, 20, .	1.9	7
35	Impact of resistive MHD plasma response on perturbation field sidebands. Plasma Physics and Controlled Fusion, 2016, 58, 075009.	2.1	2
36	Measurements of three-dimensional flows induced by magnetic islands. Physical Review Research, 2020, 2, .	3.6	2