

Jose Boedo

List of Publications by Year in descending order

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78
papers

4,811
citations

109321

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91884

69
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79
docs citations

79
times ranked

1855
citing authors

#	ARTICLE	IF	CITATIONS
1	Suppression of Large Edge-Localized Modes in High-Confinement DIII-D Plasmas with a Stochastic Magnetic Boundary. <i>Physical Review Letters</i> , 2004, 92, 235003.	7.8	734
2	Transport by intermittent convection in the boundary of the DIII-D tokamak. <i>Physics of Plasmas</i> , 2001, 8, 4826-4833.	1.9	322
3	Edge turbulence measurements in toroidal fusion devices. <i>Plasma Physics and Controlled Fusion</i> , 2007, 49, S1-S23.	2.1	283
4	Transport by intermittency in the boundary of the DIII-D tokamak. <i>Physics of Plasmas</i> , 2003, 10, 1670-1677.	1.9	273
5	Experimental Evidence of Intermittent Convection in the Edge of Magnetic Confinement Devices. <i>Physical Review Letters</i> , 2001, 87, 065001.	7.8	238
6	Fluctuation-Induced Energy Flux in the Tokamak Edge. <i>Physical Review Letters</i> , 1989, 62, 1844-1847.	7.8	165
7	Fluctuation-driven transport in the DIII-D boundary. <i>Plasma Physics and Controlled Fusion</i> , 2002, 44, 717-731.	2.1	149
8	Turbulent transport reduction by velocity shear during edge plasma biasing: recent experimental results. <i>Plasma Physics and Controlled Fusion</i> , 2003, 45, 621-643.	2.1	131
9	Far SOL transport and main wall plasma interaction in DIII-D. <i>Nuclear Fusion</i> , 2005, 45, 1589-1599.	3.5	123
10	Electron thermal confinement studies with applied resonant fields on TEXT. <i>Nuclear Fusion</i> , 1989, 29, 547-562.	3.5	116
11	Edge localized mode control with an edge resonant magnetic perturbation. <i>Physics of Plasmas</i> , 2005, 12, 056119.	1.9	109
12	ELM suppression in low edge collisionality H-mode discharges using $n=3$ magnetic perturbations. <i>Plasma Physics and Controlled Fusion</i> , 2005, 47, B37-B52.	2.1	109
13	Results from recent detachment experiments in alternative divertor configurations on TCV. <i>Nuclear Fusion</i> , 2017, 57, 072008.	3.5	92
14	The physics of edge resonant magnetic perturbations in hot tokamak plasmas. <i>Physics of Plasmas</i> , 2006, 13, 056121.	1.9	86
15	Enhanced particle confinement and turbulence reduction due to shear in the TEXTOR tokamak. <i>Nuclear Fusion</i> , 2000, 40, 1397-1410.	3.5	80
16	Turbulent edge transport in the Princeton Beta Experiment—Modified high confinement mode. <i>Physics of Plasmas</i> , 1994, 1, 3301-3307.	1.9	69
17	On the harmonic technique to measure electron temperature with high time resolution. <i>Review of Scientific Instruments</i> , 1999, 70, 2997-3006.	1.3	68
18	Dust measurements in tokamaks (invited). <i>Review of Scientific Instruments</i> , 2008, 79, 10F303.	1.3	67

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19	Edge-localized mode dynamics and transport in the scrape-off layer of the DIII-D tokamak. <i>Physics of Plasmas</i> , 2005, 12, 072516.	1.9	66
20	Fast scanning probe for tokamak plasmas. <i>Review of Scientific Instruments</i> , 1998, 69, 2663-2670.	1.3	63
21	Scaling of plasma turbulence suppression with velocity shear. <i>Nuclear Fusion</i> , 2002, 42, 117-121.	3.5	63
22	Electric field-induced plasma convection in tokamak divertors. <i>Physics of Plasmas</i> , 2000, 7, 1075-1078.	1.9	61
23	Electron pressure balance in the SOL through the transition to detachment. <i>Journal of Nuclear Materials</i> , 2015, 463, 533-536.	2.7	56
24	ELM particle and energy transport in the SOL and divertor of DIII-D. <i>Plasma Physics and Controlled Fusion</i> , 2003, 45, 1597-1626.	2.1	55
25	Suppression of Temperature Fluctuations and Energy Barrier Generation by Velocity Shear. <i>Physical Review Letters</i> , 2000, 84, 2630-2633.	7.8	53
26	Fluctuations and anomalous transport (in tokamaks, particularly TEXT). <i>Plasma Physics and Controlled Fusion</i> , 1988, 30, 1479-1491.	2.1	51
27	Physics of the detached radiative divertor regime in DIII-D. <i>Plasma Physics and Controlled Fusion</i> , 1999, 41, A345-A355.	2.1	49
28	Detailed comparison of simulated and measured plasma profiles in the scrape-off layer and edge plasma of DIII-D. <i>Physics of Plasmas</i> , 2000, 7, 3663-3680.	1.9	48
29	Edge transport studies in the edge and scrape-off layer of the National Spherical Torus Experiment with Langmuir probes. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	44
30	Survey of Type I ELM dynamics measurements. <i>Plasma Physics and Controlled Fusion</i> , 2006, 48, A149-A162.	2.1	43
31	Experimental Investigation of the Role of Fluid Turbulent Stresses and Edge Plasma Flows for Intrinsic Rotation Generation in DIII-D H -Mode Plasmas. <i>Physical Review Letters</i> , 2011, 106, 115001.	7.8	43
32	Flow reversal, convection, and modeling in the DIII-D divertor. <i>Physics of Plasmas</i> , 1998, 5, 4305-4310.	1.9	40
33	The magnitude of plasma flux to the main-wall in the DIII-D tokamak. <i>Plasma Physics and Controlled Fusion</i> , 2005, 47, 1579-1607.	2.1	40
34	Fast imaging of edge localized mode structure and dynamics in DIII-D. <i>Physics of Plasmas</i> , 2008, 15, 032504.	1.9	38
35	$E\tilde{A}$ -B circulation at the tokamak divertor X point. <i>Physics of Plasmas</i> , 2001, 8, 2118-2124.	1.9	36
36	Fast electron temperature diagnostic based on Langmuir probe current harmonic detection on DIII-D. <i>Review of Scientific Instruments</i> , 2001, 72, 453-456.	1.3	36

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37	Intrinsic rotation generation in ELM-free H-mode plasmas in the DIII-D tokamak – Experimental observations. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	35
38	Modification of SOL profiles and fluctuations with line-average density and divertor flux expansion in TCV. <i>Nuclear Fusion</i> , 2017, 57, 116014.	3.5	35
39	Filamentary velocity scaling validation in the TCV tokamak. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	35
40	Nitrogen-seeded divertor detachment in TCV L-mode plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2020, 62, 035017.	2.1	35
41	Fast scanning probe for the NSTX spherical tokamak. <i>Review of Scientific Instruments</i> , 2009, 80, 123506.	1.3	34
42	Impact of the plasma geometry on divertor power exhaust: experimental evidence from TCV and simulations with SolEdge2D and TOKAM3X. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 014007.	2.1	30
43	Electrostatic biasing of the ALT-II pump limiter. <i>Nuclear Fusion</i> , 1994, 34, 975-983.	3.5	29
44	Main-Ion Intrinsic Toroidal Rotation Profile Driven by Residual Stress Torque from Ion Temperature Gradient Turbulence in the DIII-D Tokamak. <i>Physical Review Letters</i> , 2017, 118, 015002.	7.8	28
45	Poloidally and radially resolved parallel D+ velocity measurements in the DIII-D boundary and comparison to neoclassical computations. <i>Physics of Plasmas</i> , 2011, 18, 032510.	1.9	27
46	Intrinsic rotation produced by ion orbit loss and X-loss. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	27
47	Experimental evidence of edge intrinsic momentum source driven by kinetic ion loss and edge radial electric fields in tokamaks. <i>Physics of Plasmas</i> , 2016, 23, 092506.	1.9	27
48	Tungsten erosion by unipolar arcing in DIII-D. <i>Physica Scripta</i> , 2017, T170, 014034.	2.5	25
49	Turbulent transport and turbulence in radiative I mode plasmas in TEXTOR-94. <i>Nuclear Fusion</i> , 2000, 40, 209-221.	3.5	22
50	Effect of cross-field drifts on flows in the main scrape-off-layer of DIII-D L-mode plasmas. <i>Nuclear Fusion</i> , 2009, 49, 115002.	3.5	22
51	Poloidal asymmetry in the narrow heat flux feature in the TCV scrape-off layer. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	22
52	Overview of the recent DiMES and MiMES experiments in DIII-D. <i>Physica Scripta</i> , 2009, T138, 014007.	2.5	20
53	Accounting for Debye sheath expansion for proud Langmuir probes in magnetic confinement fusion plasmas. <i>Review of Scientific Instruments</i> , 2018, 89, 013505.	1.3	20
54	SOL width in limited versus diverted discharges in DIII-D. <i>Journal of Nuclear Materials</i> , 2011, 415, S387-S390.	2.7	18

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55	Simulations of drift resistive ballooning L-mode turbulence in the edge plasma of the DIII-D tokamak. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	17
56	Plasma exhaust and density control in tokamak fusion experiments with neutral beam or ICRF auxiliary heating. <i>Nuclear Fusion</i> , 1998, 38, 1585-1606.	3.5	16
57	Scrape-off layer transport and deposition studies in DIII-D. <i>Physics of Plasmas</i> , 2007, 14, 056120.	1.9	16
58	A review of direct experimental measurements of detachment. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 044008.	2.1	16
59	Thermal ion orbit loss and radial electric field in DIII-D. <i>Physics of Plasmas</i> , 2015, 22, 080701.	1.9	15
60	The physics of transport barrier formation in the PBX-M H-mode. <i>Plasma Physics and Controlled Fusion</i> , 1994, 36, A285-A290.	2.1	14
61	Self-consistent plasma-neutral modeling in tokamak plasmas with a large-area toroidal belt limiter. <i>Physics of Plasmas</i> , 1999, 6, 2816-2825.	1.9	14
62	Comparison of the spatial and temporal structure of type-I ELMs. <i>Journal of Physics: Conference Series</i> , 2008, 123, 012011.	0.4	14
63	Scaling of divertor heat flux profile widths in DIII-D. <i>Journal of Nuclear Materials</i> , 2011, 415, S353-S356.	2.7	13
64	Measurements of neutral density profiles on the TEXT tokamak. <i>Review of Scientific Instruments</i> , 1988, 59, 1494-1496.	1.3	10
65	Shaping effects on scrape-off layer plasma turbulence: A rigorous validation of three-dimensional simulations against TCV measurements. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	10
66	Effect of electron temperature fluctuations on slowly swept Langmuir probe measurements. <i>Review of Scientific Instruments</i> , 2004, 75, 4334-4337.	1.3	9
67	Chapter 10: First Wall and Operational Diagnostics. <i>Fusion Science and Technology</i> , 2008, 53, 640-666.	1.1	9
68	Ion temperature profile measurements using the far line wings of $H\alpha$. <i>Review of Scientific Instruments</i> , 1986, 57, 2026-2028.	1.3	8
69	The Toroidal Pump Limiter ALT-II in TEXTOR. <i>Fusion Science and Technology</i> , 2005, 47, 126-137.	1.1	7
70	Impurity seeding for suppression of the near scrape-off layer heat flux feature in tokamak limited plasmas. <i>Physics of Plasmas</i> , 2018, 25, 052501.	1.9	6
71	Plasma exhaust requirement for sustained ignition: relaxation due to profile considerations. <i>Nuclear Fusion</i> , 1997, 37, 1437-1443.	3.5	5
72	The role of parallel heat transport in the relation between upstream scrape-off layer widths and target heat flux width in H-mode plasmas of the National Spherical Torus Experiment. <i>Physics of Plasmas</i> , 2008, 15, .	1.9	5

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73	Evolution of Eâ€™—â€™B shear and coherent fluctuations prior to H-L transitions in DIII-D and control strategies for H-L transitions. Physics of Plasmas, 2015, 22, .	1.9	5
74	Evidence on the effects of main-chamber neutrals on density shoulder broadening. Physics of Plasmas, 2022, 29, .	1.9	5
75	Quantifying heat and particle flux to primary and secondary divertors for various types of edge-localized-modes. Physics of Plasmas, 2022, 29, .	1.9	4
76	Robust Langmuir probe circuitry for fusion research. Review of Scientific Instruments, 2001, 72, 1379.	1.3	2
77	DIII-D shaping demonstrates correlation of intrinsic momentum with energy. Nuclear Fusion, 2019, 59, 096011.	3.5	1
78	Estimation of plasma ion saturation current and reduced tip arcing using Langmuir probe harmonics. Review of Scientific Instruments, 2017, 88, 033505.	1.3	0