

Jose Boedo

List of Publications by Year in descending order

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78
papers

4,811
citations

109321

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79
times ranked

1855
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantifying heat and particle flux to primary and secondary divertors for various types of edge-localized-modes. <i>Physics of Plasmas</i> , 2022, 29, .	1.9	4
2	Evidence on the effects of main-chamber neutrals on density shoulder broadening. <i>Physics of Plasmas</i> , 2022, 29, .	1.9	5
3	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
4	Nitrogen-seeded divertor detachment in TCV L-mode plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2020, 62, 035017.	2.1	35
5	DIII-D shaping demonstrates correlation of intrinsic momentum with energy. <i>Nuclear Fusion</i> , 2019, 59, 096011.	3.5	1
6	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
7	A review of direct experimental measurements of detachment. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 044008.	2.1	16
8	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
9	Filamentary velocity scaling validation in the TCV tokamak. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	35
10	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
11	Estimation of plasma ion saturation current and reduced tip arcing using Langmuir probe harmonics. <i>Review of Scientific Instruments</i> , 2017, 88, 033505.	1.3	0
12	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
13	Results from recent detachment experiments in alternative divertor configurations on TCV. <i>Nuclear Fusion</i> , 2017, 57, 072008.	3.5	92
14	Poloidal asymmetry in the narrow heat flux feature in the TCV scrape-off layer. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	22
15	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
16	Tungsten erosion by unipolar arcing in DIII-D. <i>Physica Scripta</i> , 2017, T170, 014034.	2.5	25
17	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
18	Thermal ion orbit loss and radial electric field in DIII-D. <i>Physics of Plasmas</i> , 2015, 22, 080701.	1.9	15

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19	Evolution of Eâ€™%Ã—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
20	Electron pressure balance in the SOL through the transition to detachment. Journal of Nuclear Materials, 2015, 463, 533-536.	2.7	56
21	Edge transport studies in the edge and scrape-off layer of the National Spherical Torus Experiment with Langmuir probes. Physics of Plasmas, 2014, 21, .	1.9	44
22	Simulations of drift resistive ballooning L-mode turbulence in the edge plasma of the DIII-D tokamak. Physics of Plasmas, 2013, 20, .	1.9	17
23	Intrinsic rotation produced by ion orbit loss and X-loss. Physics of Plasmas, 2012, 19, .	1.9	27
24	SOL width in limited versus diverted discharges in DIII-D. Journal of Nuclear Materials, 2011, 415, S387-S390.	2.7	18
25	Scaling of divertor heat flux profile widths in DIII-D. Journal of Nuclear Materials, 2011, 415, S353-S356.	2.7	13
26	Experimental Investigation of the Role of Fluid Turbulent Stresses and Edge Plasma Flows for Intrinsic Rotation Generation in DIII-D $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle \text{mml:mi}>H\langle /mml:mi> \langle /mml:math> \text{-Mode Plasmas. Physical Review Letters, 2011, 106, 115001.}$	7.8	43
27	Poloidally and radially resolved parallel D+ velocity measurements in the DIII-D boundary and comparison to neoclassical computations. Physics of Plasmas, 2011, 18, 032510.	1.9	27
28	Intrinsic rotation generation in ELM-free H-mode plasmas in the DIII-D tokamakâ€™Experimental observations. Physics of Plasmas, 2011, 18, .	1.9	35
29	Fast scanning probe for the NSTX spherical tokamak. Review of Scientific Instruments, 2009, 80, 123506.	1.3	34
30	Effect of cross-field drifts on flows in the main scrape-off-layer of DIII-D L-mode plasmas. Nuclear Fusion, 2009, 49, 115002.	3.5	22
31	Overview of the recent DiMES and MiMES experiments in DIII-D. Physica Scripta, 2009, T138, 014007.	2.5	20
32	Dust measurements in tokamaks (invited). Review of Scientific Instruments, 2008, 79, 10F303.	1.3	67
33	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. Physics of Plasmas, 2008, 15, .	1.9	5
34	Fast imaging of edge localized mode structure and dynamics in DIII-D. Physics of Plasmas, 2008, 15, 032504.	1.9	38
35	Chapter 10: First Wall and Operational Diagnostics. Fusion Science and Technology, 2008, 53, 640-666.	1.1	9
36	Comparison of the spatial and temporal structure of type-I ELMs. Journal of Physics: Conference Series, 2008, 123, 012011.	0.4	14

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37	Scrape-off layer transport and deposition studies in DIII-D. <i>Physics of Plasmas</i> , 2007, 14, 056120.	1.9	16
38	Edge turbulence measurements in toroidal fusion devices. <i>Plasma Physics and Controlled Fusion</i> , 2007, 49, S1-S23.	2.1	283
39	Survey of Type I ELM dynamics measurements. <i>Plasma Physics and Controlled Fusion</i> , 2006, 48, A149-A162.	2.1	43
40	The physics of edge resonant magnetic perturbations in hot tokamak plasmas. <i>Physics of Plasmas</i> , 2006, 13, 056121.	1.9	86
41	The Toroidal Pump Limiter ALT-II in TEXTOR. <i>Fusion Science and Technology</i> , 2005, 47, 126-137.	1.1	7
42	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
43	Far SOL transport and main wall plasma interaction in DIII-D. <i>Nuclear Fusion</i> , 2005, 45, 1589-1599.	3.5	123
44	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
45	Edge localized mode control with an edge resonant magnetic perturbation. <i>Physics of Plasmas</i> , 2005, 12, 056119.	1.9	109
46	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
47	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
48	Effect of electron temperature fluctuations on slowly swept Langmuir probe measurements. <i>Review of Scientific Instruments</i> , 2004, 75, 4334-4337.	1.3	9
49	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
50	Transport by intermittency in the boundary of the DIII-D tokamak. <i>Physics of Plasmas</i> , 2003, 10, 1670-1677.	1.9	273
51	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
52	Scaling of plasma turbulence suppression with velocity shear. <i>Nuclear Fusion</i> , 2002, 42, 117-121.	3.5	63
53	Fluctuation-driven transport in the DIII-D boundary. <i>Plasma Physics and Controlled Fusion</i> , 2002, 44, 717-731.	2.1	149
54	E \times B circulation at the tokamak divertor X point. <i>Physics of Plasmas</i> , 2001, 8, 2118-2124.	1.9	36

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55	Robust Langmuir probe circuitry for fusion research. Review of Scientific Instruments, 2001, 72, 1379.	1.3	2
56	Fast electron temperature diagnostic based on Langmuir probe current harmonic detection on DIII-D. Review of Scientific Instruments, 2001, 72, 453-456.	1.3	36
57	Transport by intermittent convection in the boundary of the DIII-D tokamak. Physics of Plasmas, 2001, 8, 4826-4833.	1.9	322
58	Experimental Evidence of Intermittent Convection in the Edge of Magnetic Confinement Devices. Physical Review Letters, 2001, 87, 065001.	7.8	238
59	Electric field-induced plasma convection in tokamak divertors. Physics of Plasmas, 2000, 7, 1075-1078.	1.9	61
60	Turbulent transport and turbulence in radiative I mode plasmas in TEXTOR-94. Nuclear Fusion, 2000, 40, 209-221.	3.5	22
61	Enhanced particle confinement and turbulence reduction due to E \times B shear in the TEXTOR tokamak. Nuclear Fusion, 2000, 40, 1397-1410.	3.5	80
62	Detailed comparison of simulated and measured plasma profiles in the scrape-off layer and edge plasma of DIII-D. Physics of Plasmas, 2000, 7, 3663-3680.	1.9	48
63	Suppression of Temperature Fluctuations and Energy Barrier Generation by Velocity Shear. Physical Review Letters, 2000, 84, 2630-2633.	7.8	53
64	Self-consistent plasma-neutral modeling in tokamak plasmas with a large-area toroidal belt limiter. Physics of Plasmas, 1999, 6, 2816-2825.	1.9	14
65	On the harmonic technique to measure electron temperature with high time resolution. Review of Scientific Instruments, 1999, 70, 2997-3006.	1.3	68
66	Physics of the detached radiative divertor regime in DIII-D. Plasma Physics and Controlled Fusion, 1999, 41, A345-A355.	2.1	49
67	Plasma exhaust and density control in tokamak fusion experiments with neutral beam or ICRF auxiliary heating. Nuclear Fusion, 1998, 38, 1585-1606.	3.5	16
68	Fast scanning probe for tokamak plasmas. Review of Scientific Instruments, 1998, 69, 2663-2670.	1.3	63
69	Flow reversal, convection, and modeling in the DIII-D divertor. Physics of Plasmas, 1998, 5, 4305-4310.	1.9	40
70	Plasma exhaust requirement for sustained ignition: relaxation due to profile considerations. Nuclear Fusion, 1997, 37, 1437-1443.	3.5	5
71	Electrostatic biasing of the ALT-II pump limiter. Nuclear Fusion, 1994, 34, 975-983.	3.5	29
72	The physics of transport barrier formation in the PBX-M H-mode. Plasma Physics and Controlled Fusion, 1994, 36, A285-A290.	2.1	14

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73	Turbulent edge transport in the Princeton Beta Experimentâ€Modified high confinement mode. Physics of Plasmas, 1994, 1, 3301-3307.	1.9	69
74	Electron thermal confinement studies with applied resonant fields on TEXT. Nuclear Fusion, 1989, 29, 547-562.	3.5	116
75	Fluctuation-Induced Energy Flux in the Tokamak Edge. Physical Review Letters, 1989, 62, 1844-1847.	7.8	165
76	Measurements of neutral density profiles on the TEXT tokamak. Review of Scientific Instruments, 1988, 59, 1494-1496.	1.3	10
77	Fluctuations and anomalous transport (in tokamaks, particularly TEXT). Plasma Physics and Controlled Fusion, 1988, 30, 1479-1491.	2.1	51
78	Ion temperature profile measurements using the far line wings of H α . Review of Scientific Instruments, 1986, 57, 2026-2028.	1.3	8