Cedric K Tsui

List of Publications by Year
in descending order

47	1,123	331670 21	414414 32
papers	citations	h-index	g-index

47	47	47	906
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Results from recent detachment experiments in alternative divertor configurations on TCV. Nuclear Fusion, 2017, 57, 072008.	3.5	92
2	Electron pressure balance in the SOL through the transition to detachment. Journal of Nuclear Materials, 2015, 463, 533-536.	2.7	56
3	Impact of a narrow limiter SOL heat flux channel on the ITER first wall panel shaping. Nuclear Fusion, 2015, 55, 033019.	3.5	54
4	Overview of the TCV tokamak program: scientific progress and facility upgrades. Nuclear Fusion, 2017, 57, 102011.	3.5	52
5	Physics research on the TCV tokamak facility: from conventional to alternative scenarios and beyond. Nuclear Fusion, 2019, 59, 112023.	3.5	43
6	Scrape-off layer transport and filament characteristics in high-density tokamak regimes. Nuclear Fusion, 2020, 60, 016001.	3.5	43
7	Spectroscopic investigations of divertor detachment in TCV. Nuclear Materials and Energy, 2017, 12, 1112-1117.	1.3	41
8	An improved understanding of the roles of atomic processes and power balance in divertor target ion current loss during detachment. Nuclear Fusion, 2019, 59, 126038.	3.5	39
9	Detachment evolution on the TCV tokamak. Nuclear Materials and Energy, 2017, 12, 1071-1076.	1.3	37
10	Effect of applied toroidal electric field on the growth/decay of plateau-phase runaway electron currents in DIII-D. Nuclear Fusion, 2011, 51, 103026.	3.5	36
11	Divertor power load studies for attached L-mode single-null plasmas in TCV. Nuclear Fusion, 2018, 58, 016052.	3.5	36
12	Modification of SOL profiles and fluctuations with line-average density and divertor flux expansion in TCV. Nuclear Fusion, 2017, 57, 116014.	3.5	35
13	Filamentary velocity scaling validation in the TCV tokamak. Physics of Plasmas, 2018, 25, .	1.9	35
14	Nitrogen-seeded divertor detachment in TCV L-mode plasmas. Plasma Physics and Controlled Fusion, 2020, 62, 035017.	2.1	35
15	TCV experiments towards the development of a plasma exhaust solution. Nuclear Fusion, 2017, 57, 126007.	3.5	34
16	Initial TCV operation with a baffled divertor. Nuclear Fusion, 2021, 61, 024002.	3.5	31
17	Impact of the plasma geometry on divertor power exhaust: experimental evidence from TCV and simulations with SolEdge2D and TOKAM3X. Plasma Physics and Controlled Fusion, 2018, 60, 014007.	2.1	30
18	Overview of the TCV tokamak experimental programme. Nuclear Fusion, 2022, 62, 042018.	3.5	30

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19	Overview of progress in European medium sized tokamaks towards an integrated plasma-edge/wall solution ^a. Nuclear Fusion, 2017, 57, 102014.	3.5	23
20	Thermo-oxidation of codeposits from DIII-D divertor tiles. Physica Scripta, 2007, T128, 55-59.	2.5	22
21	Poloidal asymmetry in the narrow heat flux feature in the TCV scrape-off layer. Physics of Plasmas, 2017, 24, .	1.9	22
22	Deuterium removal during thermo-oxidation of Be-containing codeposits from JET divertor tiles. Nuclear Fusion, 2008, 48, 035008.	3.5	20
23	Accounting for Debye sheath expansion for proud Langmuir probes in magnetic confinement fusion plasmas. Review of Scientific Instruments, 2018, 89, 013505.	1.3	20
24	Experimental studies of the snowflake divertor in TCV. Nuclear Materials and Energy, 2017, 12, 1015-1019.	1.3	19
25	Pedestal structure and energy confinement studies on TCV. Plasma Physics and Controlled Fusion, 2019, 61, 014002.	2.1	19
26	Theory-based scaling laws of near and far scrape-off layer widths in single-null L-mode discharges. Nuclear Fusion, 2021, 61, 076002.	3.5	19
27	Divertor closure effects on the TCV boundary plasma. Nuclear Materials and Energy, 2021, 27, 100977.	1.3	19
28	Progress toward divertor detachment on TCV within H-mode operating parameters. Plasma Physics and Controlled Fusion, 2019, 61, 065024.	2.1	18
29	Understanding and suppressing the near scrape-off layer heat flux feature in inboard-limited plasmas in TCV. Nuclear Fusion, 2017, 57, 126029.	3.5	15
30	Enhanced confinement in diverted negative-triangularity L-mode plasmas in TCV. Plasma Physics and Controlled Fusion, 2022, 64, 014004.	2.1	15
31	Suppression of first-wall interaction in negative triangularity plasmas on TCV. Nuclear Fusion, 2021, 61, 034003.	3.5	13
32	The effect of thermo-oxidation on plasma performance and in-vessel components in DIII-D. Nuclear Fusion, 2013, 53, 073008.	3.5	11
33	Power deposition on the DIII-D inner wall limiter. Journal of Nuclear Materials, 2015, 463, 389-392.	2.7	10
34	The effect of the secondary x-point on the scrape-off layer transport in the TCV snowflake minus divertor. Nuclear Fusion, 2019, 59, 016014.	3.5	10
35	Shaping effects on scrape-off layer plasma turbulence: A rigorous validation of three-dimensional simulations against TCV measurements. Physics of Plasmas, 2020, 27, .	1.9	10
36	SOLPS-ITER validation with TCV L-mode discharges. Physics of Plasmas, 2021, 28, 082508.	1.9	9

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37	Thermo-oxidation and analysis of JET codeposits. Journal of Nuclear Materials, 2009, 390-391, 626-630.	2.7	8
38	Thermo-oxidation of DIII-D codeposits on open surfaces and in simulated tile gaps. Journal of Nuclear Materials, 2011, 415, S789-S792.	2.7	8
39	Swinging reciprocating Mach probes for the high field side scrape-off layer in DIII-D. Review of Scientific Instruments, 2012, 83, 10D723.	1.3	7
40	Experimental verification of X-point potential well formation in unfavorable magnetic field direction. Nuclear Materials and Energy, 2020, 25, 100839.	1.3	7
41	Temperature dependence of D removal from JET codeposits by thermo-oxidation. Journal of Nuclear Materials, 2009, 395, 1-10.	2.7	6
42	Ion beam analysis of¹³C and deuterium deposition in DIII-D and their removal byin-situoxygen baking. Physica Scripta, 2011, T145, 014025.	2.5	6
43	Impurity seeding for suppression of the near scrape-off layer heat flux feature in tokamak limited plasmas. Physics of Plasmas, 2018, 25, 052501.	1.9	6
44	Conduction-based model of the Scrape-Off Layer power sharing between inner and outer divertor in diverted low-density tokamak plasmas. Nuclear Materials and Energy, 2019, 19, 372-377.	1.3	6
45	Relevance of E Ã— B drifts for particle and heat transport in divertors. Plasma Physics and Controlled Fusion, 2022, 64, 065008.	2.1	6
46	Parallel convection and E Ã— B drifts in the TCV snowflake divertor and their effects on target heat-fluxes. Nuclear Fusion, 2021, 61, 046004.	3.5	5
47	Evidence on the effects of main-chamber neutrals on density shoulder broadening. Physics of Plasmas, 2022, 29, .	1.9	5