

# C Lau

## List of Publications by Year in descending order

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49  
papers

808  
citations

567281

15  
h-index

552781

26  
g-index

49  
all docs

49  
docs citations

49  
times ranked

665  
citing authors

#	ARTICLE	IF	CITATIONS
1	20 years of research on the Alcator C-Mod tokamak. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	88
2	First Direct Observation of Runaway-Electron-Driven Whistler Waves in Tokamaks. <i>Physical Review Letters</i> , 2018, 120, 155002.	7.8	68
3	Characterization and performance of a field aligned ion cyclotron range of frequency antenna in Alcator C-Mod. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	57
4	Ion-cyclotron range of frequencies in the scrape-off-layer: fine structure radial electric fields. <i>Plasma Physics and Controlled Fusion</i> , 2012, 54, 105019.	2.1	42
5	Lower hybrid current drive at high density in the multi-pass regime. <i>Physics of Plasmas</i> , 2012, 19, 062505.	1.9	31
6	Design, and initial experiment results of a novel LH launcher on Alcator C-Mod. <i>Nuclear Fusion</i> , 2011, 51, 103024.	3.5	30
7	Overview of the Alcator C-Mod Research Program. <i>Nuclear Fusion</i> , 2009, 49, 104014.	3.5	29
8	Progress towards steady-state regimes in Alcator C-Mod. <i>Nuclear Fusion</i> , 2013, 53, 113028.	3.5	28
9	Experiments on helicons in DIII-D—investigation of the physics of a reactor-relevant non-inductive current drive technology. <i>Nuclear Fusion</i> , 2018, 58, 106007.	3.5	25
10	AORSA full wave calculations of helicon waves in DIII-D and ITER. <i>Nuclear Fusion</i> , 2018, 58, 066004.	3.5	22
11	The Material Plasma Exposure eXperiment: Mission and conceptual design. <i>Fusion Engineering and Design</i> , 2020, 156, 111586.	1.9	21
12	Helicon normal modes in Proto-MPEX. <i>Plasma Sources Science and Technology</i> , 2018, 27, 055016.	3.1	19
13	The geometry of the ICRF-induced wave—SOL interaction. A multi-machine experimental review in view of the ITER operation. <i>Nuclear Fusion</i> , 2022, 62, 016014.	3.5	18
14	Computational investigation of ion cyclotron heating on Proto-MPEX. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	17
15	First results of the SOL reflectometer on Alcator C-Mod. <i>Review of Scientific Instruments</i> , 2012, 83, 10E309.	1.3	16
16	The Materials Plasma Exposure eXperiment: Status of the Physics Basis Together With the Conceptual Design and Plans Forward. <i>IEEE Transactions on Plasma Science</i> , 2020, 48, 1439-1445.	1.3	16
17	WEST actively cooled load resilient ion cyclotron resonance heating system results. <i>Nuclear Fusion</i> , 2021, 61, 096030.	3.5	16
18	Utilization of O-X-B mode conversion of 28 GHz microwaves to heat core electrons in the upgraded Proto-MPEX. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	15

#	ARTICLE	IF	CITATIONS
19	Latest Results from Proto-MPEX and the Future Plans for MPEX. Fusion Science and Technology, 2019, 75, 654-663.	1.1	15
20	Experimental evidence of lower hybrid wave scattering in Alcator C-Mod due to scrape off layer density fluctuations. Nuclear Fusion, 2019, 59, 076006.	3.5	15
21	SOL Effects on LH Wave Coupling and Current Drive Performance on Alcator C-Mod. , 2011, , .		14
22	Effects of LH power on SOL density profiles and LH coupling on Alcator C-Mod. Plasma Physics and Controlled Fusion, 2013, 55, 025008.	2.1	14
23	Imaging of molybdenum erosion and thermography at visible wavelengths in Alcator C-Mod ICRH and LHCD discharges. Plasma Physics and Controlled Fusion, 2013, 55, 125010.	2.1	13
24	Overview of experimental results and code validation activities at Alcator C-Mod. Nuclear Fusion, 2013, 53, 104004.	3.5	13
25	Ion Fluxes and Neutral Gas Ionization Efficiency of the 100-kW Light-Ion Helicon Plasma Source Concept for the Material Plasma Exposure eXperiment. Fusion Science and Technology, 2019, 75, 683-689.	1.1	13
26	Evidence of electron heating at different radial locations on Proto-MPEX. Physics of Plasmas, 2019, 26, .	1.9	12
27	Cold plasma finite element wave model for helicon waves. Plasma Physics and Controlled Fusion, 2019, 61, 045008.	2.1	11
28	Scrape-off layer reflectometer for Alcator C-Mod. Review of Scientific Instruments, 2008, 79, 10F114.	1.3	10
29	Characterizing the plasma-induced thermal loads on a 200 kW light-ion helicon plasma source via infra-red thermography. Plasma Sources Science and Technology, 2021, 30, 075022.	3.1	10
30	A generalized plasma dispersion function for electron damping in tokamak plasmas. Physics of Plasmas, 2016, 23, 102504.	1.9	9
31	Full-wave model for the lower hybrid wave electric field vector with synthetic turbulence on Alcator C-Mod. Nuclear Fusion, 2020, 60, 036001.	3.5	9
32	Effect of magnetic field ripple on parallel electron transport during microwave plasma heating in the Proto-MPEX linear plasma device. Plasma Physics and Controlled Fusion, 2020, 62, 045010.	2.1	8
33	RF sheath induced sputtering on Proto-MPEX. I. Sheath equivalent dielectric layer for modeling the RF sheath. Physics of Plasmas, 2021, 28, .	1.9	8
34	Circular Corrugated Miter Bend and Gap Losses for Broadband Frequency Applications. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 38-49.	4.6	7
35	Using AORSA to simulate helicon waves in DIII-D. AIP Conference Proceedings, 2015, , .	0.4	6
36	Evaluation of low-frequency operational limit of proposed ITER low-field-side reflectometer waveguide run including miter bends. Review of Scientific Instruments, 2017, 88, 103508.	1.3	6

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37	Microwave Analysis with Monte Carlo Methods for ECH Transmission Lines. Journal of Infrared, Millimeter, and Terahertz Waves, 2018, 39, 456-482.	2.2	6
38	Measurement and modeling of the radio frequency sheath impedance in a large magnetized plasma. Physics of Plasmas, 2020, 27, 072506.	1.9	6
39	RF sheath induced sputtering on Proto-MPEX part 2: Impurity transport modeling and experimental comparison. Physics of Plasmas, 2021, 28, 103508.	1.9	6
40	Helicon full-wave modeling with scrape-off-layer turbulence on the DIII-D tokamak. Nuclear Fusion, 0, , .	3.5	6
41	Experimental Investigation of the Effects of Magnetic Mirrors on Plasma Transport in the Prototype Material Plasma Exposure Experiment. IEEE Transactions on Plasma Science, 2020, 48, 1396-1402.	1.3	5
42	Ponderomotive force driven density modifications parallel to B0 on the LAPD. Physics of Plasmas, 2022, 29, 042508.	1.9	5
43	Scrape-off layer reflectometer for Alcator C-Mod. Review of Scientific Instruments, 2010, 81, 10D918.	1.3	4
44	Using X-mode L, R and O-mode reflectometry cutoffs to measure scrape-off-layer density profiles for upgraded ORNL reflectometer on NSTX-U. Review of Scientific Instruments, 2014, 85, 11D815.	1.3	4
45	Observation of Spectral Broadening of Lower Hybrid Waves in Alcator C-Mod. Plasma and Fusion Research, 2012, 7, 2402031-2402031.	0.7	4
46	Eddy current flow meter model validation with a moving solid rod <sup>*</sup> . Measurement Science and Technology, 2022, 33, 075301.	2.6	4
47	A spectroscopic electric field vector imaging diagnostic for electron cyclotron heating systems. Review of Scientific Instruments, 2018, 89, 10D117.	1.3	3
48	Heat Flux Analysis From IR Imaging on Proto-MPEX. IEEE Transactions on Plasma Science, 2020, 48, 3152-3159.	1.3	3
49	LH and ICRF driven scrape-off-layer density modifications and their impact on LH coupling on Alcator C-Mod. , 2014, , .		1