# C Lau

List of Publications by Year
in descending order

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| 49 | 808 | 567281 | 552781 |
|---|---|---|---|
| papers | citations | 15 h-index | 26 g-index |

| 49 | 49 | 49 | 665 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The geometry of the ICRF-induced waveâ€“SOL interaction. A multi-machine experimental review in view of the ITER operation. Nuclear Fusion, 2022, 62, 016014. | 3.5 | 18 |
| 2 | Eddy current flow meter model validation with a moving solid rod <sup>*</sup>. Measurement Science and Technology, 2022, 33, 075301. | 2.6 | 4 |
| 3 | Ponderomotive force driven density modifications parallel to B0 on the LAPD. Physics of Plasmas, 2022, 29, 042508. | 1.9 | 5 |
| 4 | 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 |
| 5 | WEST actively cooled load resilient ion cyclotron resonance heating system results. Nuclear Fusion, 2021, 61, 096030. | 3.5 | 16 |
| 6 | 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 |
| 7 | RF sheath induced sputtering on Proto-MPEX part 2: Impurity transport modeling and experimental comparison. Physics of Plasmas, 2021, 28, 103508. | 1.9 | 6 |
| 8 | 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 |
| 9 | Heat Flux Analysis From IR Imaging on Proto-MPEX. IEEE Transactions on Plasma Science, 2020, 48, 3152-3159. | 1.3 | 3 |
| 10 | Measurement and modeling of the radio frequency sheath impedance in a large magnetized plasma. Physics of Plasmas, 2020, 27, 072506. | 1.9 | 6 |
| 11 | The Material Plasma Exposure eXperiment: Mission and conceptual design. Fusion Engineering and Design, 2020, 156, 111586. | 1.9 | 21 |
| 12 | 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 |
| 13 | The Materials Plasma Exposure eXperiment: Status of the Physics Basis Together With the Conceptual Design and Plans Forward. IEEE Transactions on Plasma Science, 2020, 48, 1439-1445. | 1.3 | 16 |
| 14 | 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 |
| 15 | Utilization of O-X-B mode conversion of 28 GHz microwaves to heat core electrons in the upgraded Proto-MPEX. Physics of Plasmas, 2019, 26, . | 1.9 | 15 |
| 16 | Latest Results from Proto-MPEX and the Future Plans for MPEX. Fusion Science and Technology, 2019, 75, 654-663. | 1.1 | 15 |
| 17 | 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 |
| 18 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Evidence of electron heating at different radial locations on Proto-MPEX. Physics of Plasmas, 2019, 26, . | 1.9 | 12 |
| 20 | Computational investigation of ion cyclotron heating on Proto-MPEX. Physics of Plasmas, 2019, 26, . | 1.9 | 17 |
| 21 | Cold plasma finite element wave model for helicon waves. Plasma Physics and Controlled Fusion, 2019, 61, 045008. | 2.1 | 11 |
| 22 | 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 |
| 23 | Microwave Analysis with Monte Carlo Methods for ECH Transmission Lines. Journal of Infrared, Millimeter, and Terahertz Waves, 2018, 39, 456-482. | 2.2 | 6 |
| 24 | AORSA full wave calculations of helicon waves in DIII-D and ITER. Nuclear Fusion, 2018, 58, 066004. | 3.5 | 22 |
| 25 | First Direct Observation of Runaway-Electron-Driven Whistler Waves in Tokamaks. Physical Review Letters, 2018, 120, 155002. | 7.8 | 68 |
| 26 | A spectroscopic electric field vector imaging diagnostic for electron cyclotron heating systems. Review of Scientific Instruments, 2018, 89, 10D117. | 1.3 | 3 |
| 27 | Helicon normal modes in Proto-MPEX. Plasma Sources Science and Technology, 2018, 27, 055016. | 3.1 | 19 |
| 28 | Experiments on helicons in DIII-Dâ€”investigation of the physics of a reactor-relevant non-inductive current drive technology. Nuclear Fusion, 2018, 58, 106007. | 3.5 | 25 |
| 29 | 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 |
| 30 | A generalized plasma dispersion function for electron damping in tokamak plasmas. Physics of Plasmas, 2016, 23, 102504. | 1.9 | 9 |
| 31 | Using AORSA to simulate helicon waves in DIII-D. AIP Conference Proceedings, 2015, , . | 0.4 | 6 |
| 32 | 20 years of research on the Alcator C-Mod tokamak. Physics of Plasmas, 2014, 21, . | 1.9 | 88 |
| 33 | LH and ICRF driven scrape-off-layer density modifications and their impact on LH coupling on Alcator C-Mod. , 2014, , . | | 1 |
| 34 | 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 |
| 35 | 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 |
| 36 | Characterization and performance of a field aligned ion cyclotron range of frequency antenna in Alcator C-Mod. Physics of Plasmas, 2013, 20, . | 1.9 | 57 |

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|---|---|---|---|
| 37 | Progress towards steady-state regimes in Alcator C-Mod. Nuclear Fusion, 2013, 53, 113028. | 3.5 | 28 |
| 38 | 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 |
| 39 | Overview of experimental results and code validation activities at Alcator C-Mod. Nuclear Fusion, 2013, 53, 104004. | 3.5 | 13 |
| 40 | First results of the SOL reflectometer on Alcator C-Mod. Review of Scientific Instruments, 2012, 83, 10E309. | 1.3 | 16 |
| 41 | Lower hybrid current drive at high density in the multi-pass regime. Physics of Plasmas, 2012, 19, 062505. | 1.9 | 31 |
| 42 | Ion-cyclotron range of frequencies in the scrape-off-layer: fine structure radial electric fields. Plasma Physics and Controlled Fusion, 2012, 54, 105019. | 2.1 | 42 |
| 43 | Observation of Spectral Broadening of Lower Hybrid Waves in Alcator C-Mod. Plasma and Fusion Research, 2012, 7, 2402031-2402031. | 0.7 | 4 |
| 44 | SOL Effects on LH Wave Coupling and Current Drive Performance on Alcator C-Mod. , 2011, , . | | 14 |
| 45 | Design, and initial experiment results of a novel LH launcher on Alcator C-Mod. Nuclear Fusion, 2011, 51, 103024. | 3.5 | 30 |
| 46 | Scrape-off layer reflectometer for Alcator C-Mod. Review of Scientific Instruments, 2010, 81, 10D918. | 1.3 | 4 |
| 47 | Overview of the Alcator C-Mod Research Program. Nuclear Fusion, 2009, 49, 104014. | 3.5 | 29 |
| 48 | Scrape-off layer reflectometer for Alcator C-Mod. Review of Scientific Instruments, 2008, 79, 10F114. | 1.3 | 10 |
| 49 | Helicon full-wave modeling with scrape-off-layer turbulence on the DIII-D tokamak. Nuclear Fusion, 0, , . | 3.5 | 6 |