

Adam QingYang Kuang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Overview of the SPARC tokamak. <i>Journal of Plasma Physics</i> , 2020, 86, .	2.1	181
2	Conceptual design study for heat exhaust management in the ARC fusion pilot plant. <i>Fusion Engineering and Design</i> , 2018, 137, 221-242.	1.9	56
3	High-resolution heat flux width measurements at reactor-level magnetic fields and observation of a unified width scaling across confinement regimes in the Alcator C-Mod tokamak. <i>Nuclear Fusion</i> , 2018, 58, 094002.	3.5	41
4	Divertor heat flux challenge and mitigation in SPARC. <i>Journal of Plasma Physics</i> , 2020, 86, .	2.1	40
5	Overview of the SPARC physics basis towards the exploration of burning-plasma regimes in high-field, compact tokamaks. <i>Nuclear Fusion</i> , 2022, 62, 042003.	3.5	37
6	Feedback system for divertor impurity seeding based on real-time measurements of surface heat flux in the Alcator C-Mod tokamak. <i>Review of Scientific Instruments</i> , 2016, 87, 023504.	1.3	24
7	Intermittent electron density and temperature fluctuations and associated fluxes in the Alcator C-Mod scrape-off layer. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 065002.	2.1	22
8	The dependence of divertor power sharing on magnetic flux balance in near double-null configurations on Alcator C-Mod. <i>Nuclear Fusion</i> , 2018, 58, 076010.	3.5	17
9	Surface heat flux feedback controlled impurity seeding experiments with Alcator C-Mod's high-Z vertical target plate divertor: performance, limitations and implications for fusion power reactors. <i>Nuclear Fusion</i> , 2017, 57, 086030.	3.5	16
10	Plasma fluctuations in the scrape-off layer and at the divertor target in Alcator C-Mod and their relationship to divertor collisionality and density shoulder formation. <i>Nuclear Materials and Energy</i> , 2019, 19, 295-299.	1.3	16
11	Projections of H-mode access and edge pedestal in the SPARC tokamak. <i>Journal of Plasma Physics</i> , 2020, 86, .	2.1	16
12	Performance assessment of long-legged tightly-baffled divertor geometries in the ARC reactor concept. <i>Nuclear Fusion</i> , 2019, 59, 106052.	3.5	15
13	Lower hybrid wave edge power loss quantification on the Alcator C-Mod tokamak. <i>Physics of Plasmas</i> , 2016, 23, 056115.	1.9	14
14	Radiative heat exhaust in Alcator C-Mod I-mode plasmas. <i>Nuclear Fusion</i> , 2019, 59, 046018.	3.5	14
15	Impurity screening behavior of the high-field side scrape-off layer in near-double-null configurations: prospect for mitigating plasma-material interactions on RF actuators and first-wall components. <i>Nuclear Fusion</i> , 2017, 57, 076021.	3.5	12
16	The flush-mounted rail Langmuir probe array designed for the Alcator C-Mod vertical target plate divertor. <i>Review of Scientific Instruments</i> , 2018, 89, 043512.	1.3	12
17	Statistical properties of the plasma fluctuations and turbulent cross-field fluxes in the outboard mid-plane scrape-off layer of Alcator C-Mod. <i>Nuclear Materials and Energy</i> , 2019, 18, 193-200.	1.3	11
18	High-field side scrape-off layer investigation: Plasma profiles and impurity screening behavior in near-double-null configurations. <i>Nuclear Materials and Energy</i> , 2017, 12, 139-147.	1.3	10

#	ARTICLE	IF	CITATIONS
19	Linear servomotor probe drive system with real-time self-adaptive position control for the Alcator C-Mod tokamak. Review of Scientific Instruments, 2017, 88, 073501.	1.3	10
20	Study of passively stable, fully detached divertor plasma regimes attained in innovative long-legged divertor configurations. Nuclear Fusion, 2020, 60, 016004.	3.5	10
21	High-resolution disruption halo current measurements using Langmuir probes in Alcator C-Mod. Nuclear Fusion, 2018, 58, 016005.	3.5	8
22	Design and operation of a high-heat flux, flush-mounted $\tilde{\text{rail}}^{\text{TM}}$ Langmuir probe array on Alcator C-Mod. Nuclear Materials and Energy, 2017, 12, 1231-1235.	1.3	7
23	Simulation of the SPARC plasma boundary with the UEDGE code. Nuclear Fusion, 2021, 61, 086014.	3.5	6
24	Performance evaluation of CWH base isolated building during two major earthquakes in Christchurch. Bulletin of the New Zealand Society for Earthquake Engineering, 2015, 48, 264-273.	0.5	6
25	UEDGE modelling of detached divertor operation for long-legged divertor geometries in ARC. Contributions To Plasma Physics, 2018, 58, 791-797.	1.1	5
26	An experimental assessment of methods used to compute secondary electron emission yield for tungsten and molybdenum electrodes based on exposure to Alcator C-Mod scrape-off layer plasmas. Plasma Physics and Controlled Fusion, 2018, 60, 035011.	2.1	5
27	The digital mirror Langmuir probe: Field programmable gate array implementation of real-time Langmuir probe biasing. Review of Scientific Instruments, 2019, 90, 083504.	1.3	5
28	Neutron diagnostics for the physics of a high-field, compact, $Q \sim 1$ tokamak. Fusion Engineering and Design, 2019, 143, 212-225.	1.9	5
29	Design study of a combined interferometer and polarimeter for a high-field, compact tokamak. Physics of Plasmas, 2020, 27, .	1.9	4
30	Deep modeling of plasma and neutral fluctuations from gas puff turbulence imaging. Review of Scientific Instruments, 2022, 93, 063504.	1.3	4
31	First application of a digital mirror Langmuir probe for real-time plasma diagnosis. Review of Scientific Instruments, 2021, 92, 103502.	1.3	2
32	Dependence of the boundary heat flux width on core and edge profiles in Alcator C-Mod. Nuclear Fusion, 0, , .	3.5	0