

# Alexander Creely

## List of Publications by Year in descending order

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Version: 2024-02-01

24  
papers

688  
citations

623734

14  
h-index

610901

24  
g-index

25  
all docs

25  
docs citations

25  
times ranked

750  
citing authors

#	ARTICLE	IF	CITATIONS
1	Overview of the SPARC tokamak. <i>Journal of Plasma Physics</i> , 2020, 86, .	2.1	181
2	Multi-scale gyrokinetic simulations: Comparison with experiment and implications for predicting turbulence and transport. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	59
3	Predictions of core plasma performance for the SPARC tokamak. <i>Journal of Plasma Physics</i> , 2020, 86, .	2.1	45
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	Physics and performance of the I-mode regime over an expanded operating space on Alcator C-Mod. <i>Nuclear Fusion</i> , 2017, 57, 126039.	3.5	36
7	Explaining Cold-Pulse Dynamics in Tokamak Plasmas Using Local Turbulent Transport Models. <i>Physical Review Letters</i> , 2018, 120, 075001.	7.8	34
8	Validation of gyrokinetic simulations with measurements of electron temperature fluctuations and density-temperature phase angles on ASDEX Upgrade. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	32
9	MHD stability and disruptions in the SPARC tokamak. <i>Journal of Plasma Physics</i> , 2020, 86, .	2.1	31
10	Measurement of turbulent electron temperature fluctuations on the ASDEX Upgrade tokamak using correlated electron cyclotron emission. <i>Review of Scientific Instruments</i> , 2016, 87, 11E102.	1.3	28
11	Validation of nonlinear gyrokinetic simulations of L- and I-mode plasmas on Alcator C-Mod. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	21
12	Correlation electron cyclotron emission diagnostic and improved calculation of turbulent temperature fluctuation levels on ASDEX Upgrade. <i>Review of Scientific Instruments</i> , 2018, 89, 053503.	1.3	20
13	Nonlinear gyrokinetic simulations of the I-mode high confinement regime and comparisons with	1.9	16
14	Projections of H-mode access and edge pedestal in the SPARC tokamak. <i>Journal of Plasma Physics</i> , 2020, 86, .	2.1	16
15	Effect of plasma elongation on current dynamics during tokamak disruptions. <i>Journal of Plasma Physics</i> , 2020, 86, .	2.1	15
16	Criteria for the importance of multi-scale interactions in turbulent transport simulations. <i>Plasma Physics and Controlled Fusion</i> , 2019, 61, 085022.	2.1	14
17	VITALS: A Surrogate-Based Optimization Framework for the Accelerated Validation of Plasma Transport Codes. <i>Fusion Science and Technology</i> , 2018, 74, 65-76.	1.1	13
18	Multi-scale gyrokinetic simulations of an Alcator C-Mod, ELM-y H-mode plasma. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 014034.	2.1	12

#	ARTICLE	IF	CITATIONS
19	Perturbative transport modeling of cold-pulse dynamics in Alcator C-Mod Ohmic plasmas. Nuclear Fusion, 2019, 59, 066017.	3.5	12
20	Verification of GENE and GYRO with L-mode and I-mode plasmas in Alcator C-Mod. Physics of Plasmas, 2018, 25, 042505.	1.9	7
21	Validation study of GENE on ASDEX Upgrade using perturbative thermal diffusivity measured with partial sawtooth heat pulses. Nuclear Fusion, 2018, 58, 126001.	3.5	6
22	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
23	Novel analysis technique for measuring edge density fluctuation profiles with reflectometry in the Large Helical Device. Review of Scientific Instruments, 2017, 88, 073509.	1.3	4
24	Design study of a combined interferometer and polarimeter for a high-field, compact tokamak. Physics of Plasmas, 2020, 27, .	1.9	4