

Miaohui Li

List of Publications by Year in descending order

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88
papers

1,199
citations

430874

18
h-index

454955

30
g-index

90
all docs

90
docs citations

90
times ranked

670
citing authors

#	ARTICLE	IF	CITATIONS
1	Overview of EAST experiments on the development of high-performance steady-state scenario. Nuclear Fusion, 2017, 57, 102019.	3.5	102
2	Recent advances in EAST physics experiments in support of steady-state operation for ITER and CFETR. Nuclear Fusion, 2019, 59, 112003.	3.5	93
3	Integrated operation of steady-state long-pulse H-mode in Experimental Advanced Superconducting Tokamak. Nuclear Fusion, 2019, 59, 086030.	3.5	68
4	Development and Preliminary Commissioning Results of a Long Pulse 140 GHz ECRH System on EAST Tokamak (Invited). Plasma Science and Technology, 2016, 18, 442-448.	1.5	44
5	Development of high poloidal beta, steady-state scenario with ITER-like tungsten divertor on EAST. Nuclear Fusion, 2017, 57, 076037.	3.5	44
6	Investigation of lower hybrid wave coupling and current drive experiments at different configurations in experimental advanced superconducting tokamak. Physics of Plasmas, 2011, 18, .	1.9	42
7	First results of LHCD experiments with 4.6 GHz system toward steady-state plasma in EAST. Nuclear Fusion, 2015, 55, 123022.	3.5	41
8	Experimental investigations of LHW plasma coupling and current drive related to achieving H-mode plasmas in EAST. Nuclear Fusion, 2013, 53, 113027.	3.5	37
9	Advances in modeling of lower hybrid current drive. Plasma Physics and Controlled Fusion, 2016, 58, 044008.	2.1	36
10	Lower hybrid current drive experiments with different launched wave frequencies in the EAST tokamak. Physics of Plasmas, 2016, 23, .	1.9	35
11	Investigations of LHW-plasma coupling and current drive at high density related to H-mode experiments in EAST. Nuclear Fusion, 2015, 55, 093030.	3.5	32
12	Joint DIII-D/EAST research on the development of a high poloidal beta scenario for the steady state missions of ITER and CFETR. Plasma Physics and Controlled Fusion, 2018, 60, 014043.	2.1	32
13	Hot spots generated by low hybrid wave absorption in the SOL on the EAST tokamak. Journal of Nuclear Materials, 2013, 438, S364-S367.	2.7	28
14	Development of 4.6GHz lower hybrid current drive system for steady state and high performance plasma in EAST. Fusion Engineering and Design, 2016, 113, 131-138.	1.9	28
15	Progress of physics understanding for long pulse high-performance plasmas on EAST towards the steady-state operation of ITER and CFETR. Plasma Physics and Controlled Fusion, 2020, 62, 014019.	2.1	22
16	Fast electron flux driven by lower hybrid wave in the scrape-off layer. Physics of Plasmas, 2015, 22, .	1.9	21
17	Modelling of the EAST lower-hybrid current drive experiment using GENRAY/CQL3D and TORLH/CQL3D. Plasma Physics and Controlled Fusion, 2014, 56, 125003.	2.1	20
18	Study on the H transition power threshold with RF heating and lithium-wall coating on EAST. Nuclear Fusion, 2016, 56, 056013.	3.5	19

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19	Lower hybrid wave absorption study to improve the calculation of energy confinement time in EAST. Physics of Plasmas, 2018, 25, .	1.9	16
20	Review of recent experimental and modeling advances in the understanding of lower hybrid current drive in ITER-relevant regimes. Nuclear Fusion, 2018, 58, 095003.	3.5	16
21	Ion cyclotron emission diagnostic system on the experimental advanced superconducting tokamak and first detection of energetic-particle-driven radiation. Review of Scientific Instruments, 2019, 90, 063504.	1.3	16
22	Polarization and Mode Control of EAST 140GHz ECRH&CD System. Journal of Fusion Energy, 2014, 33, 634-639.	1.2	15
23	Evidence and modeling of 3D divertor footprint induced by lower hybrid waves on EAST with tungsten divertor operations. Nuclear Fusion, 2017, 57, 126054.	3.5	14
24	Hot spots induced by LHCD in the shadow of antenna limiters in the EAST tokamak. Physics of Plasmas, 2018, 25, .	1.9	14
25	Advances in physics understanding of high poloidal beta regime toward steady-state operation of CFETR. Physics of Plasmas, 2021, 28, .	1.9	14
26	EAST steady-state long pulse H-mode with core-edge integration for CFETR. Nuclear Fusion, 2022, 62, 076009.	3.5	14
27	Recent Results of LHCD Experiments in EAST. Plasma Science and Technology, 2011, 13, 153-156.	1.5	13
28	Effect of $\hat{\zeta} > B$ drift on the H-mode power threshold in upper single null plasmas with ITER-like tungsten divertor on EAST. Physics of Plasmas, 2018, 25, .	1.9	13
29	Ion cyclotron emission driven by deuterium neutral beam injection and core fusion reaction ions in EAST. Nuclear Fusion, 2020, 60, 044002.	3.5	13
30	Investigations of lower hybrid wave-plasma coupling by gas puffing in HT-7. Physics of Plasmas, 2010, 17, .	1.9	12
31	Effort of lower hybrid current drive experiments toward to H-mode in EAST. Nuclear Fusion, 2017, 57, 022022.	3.5	12
32	Experimental investigation on spectral broadening of lower hybrid waves with different frequencies in the EAST long-pulse plasmas. Plasma Physics and Controlled Fusion, 2019, 61, 065005.	2.1	11
33	Overview of the ICRF antenna coupling experiments on EAST. Nuclear Fusion, 2021, 61, 035001.	3.5	11
34	Current ramp-up with lower hybrid current drive in EAST. Physics of Plasmas, 2012, 19, 122507.	1.9	10
35	Investigation of LHCD Efficiency and Transformer Recharging in the EAST Tokamak. Plasma Science and Technology, 2012, 14, 201-206.	1.5	10
36	Study on lower hybrid current drive efficiency at high density towards long-pulse regimes in Experimental Advanced Superconducting Tokamak. Physics of Plasmas, 2014, 21, .	1.9	10

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37	Theoretical analysis of key factors achieving reversed magnetic shear q -profiles sustained with lower hybrid waves on EAST. Plasma Physics and Controlled Fusion, 2019, 61, 045002.	2.1	10
38	Validation of theory-based integrated modeling and new insights for a high-performance steady-state scenario with only RF heating on EAST. Nuclear Fusion, 2022, 62, 076015.	3.5	10
39	Theoretical analysis of helicon wave current drive in EAST with high \hat{I}_2 operation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126779.	2.1	9
40	Effect of gas puffing from different side on lower hybrid wave-plasma coupling in experimental advanced superconductive tokamak. Physics of Plasmas, 2013, 20, 102504.	1.9	8
41	Correlation between the onset of parametric instability of lower hybrid waves and modification in edge plasma current profile on EAST. Nuclear Fusion, 2018, 58, 126015.	3.5	8
42	Plasma performance improvement with favourable B_t relative to unfavourable B_t in RF-heated H-mode plasmas in EAST. Nuclear Fusion, 2021, 61, 026014.	3.5	8
43	Scoping study of lower hybrid current drive for CFETR. Nuclear Fusion, 2021, 61, 106009.	3.5	8
44	Experimental investigation of density behaviors in front of the lower hybrid launcher in experimental advanced superconducting tokamak. Physics of Plasmas, 2013, 20, 062507.	1.9	7
45	Influence of Li conditioning on Lower Hybrid Current Drive efficiency in H-mode and L- mode plasmas on EAST. EPJ Web of Conferences, 2017, 157, 03018.	0.3	7
46	Current Challenges in the First Principle Quantitative Modelling of the Lower Hybrid Current Drive in Tokamaks. EPJ Web of Conferences, 2017, 157, 02007.	0.3	7
47	Design of a PAM launcher and comparative analysis with the old FAM launcher for 2.45 GHz LHCD system on EAST. Fusion Engineering and Design, 2019, 147, 111250.	1.9	7
48	Main experimental results and challenges in ICRF heating on EAST. AIP Conference Proceedings, 2020, , .	0.4	7
49	Multiple Alfvén eigenmodes induced by energetic electrons and nonlinear mode couplings in EAST radio-frequency heated H-mode plasmas. Nuclear Fusion, 2021, 61, 046013.	3.5	7
50	A model investigation of the impact of lower hybrid wave scattering angle on current drive profile in EAST and Alcator C-Mod. Nuclear Fusion, 2021, 61, 106034.	3.5	7
51	H-mode operation in helium plasma with tungsten divertor and low input torque in EAST. Nuclear Fusion, 2020, 60, 092001.	3.5	7
52	Characterization of pedestal burst instabilities during I-mode to H-mode transition in the EAST tokamak. Nuclear Fusion, 2022, 62, 066046.	3.5	7
53	Investigation of lower hybrid wave coupling and the related effects of ion cyclotron range of frequencies in EAST. Plasma Physics and Controlled Fusion, 2012, 54, 105003.	2.1	6
54	Transport modeling of L- and H-mode discharges with LHCD on EAST. Plasma Physics and Controlled Fusion, 2013, 55, 045014.	2.1	6

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55	Study and optimization of lower hybrid wave coupling in the experimental advanced superconducting (EAST) tokamak. Plasma Physics and Controlled Fusion, 2013, 55, 065007.	2.1	6
56	4.6-GHz LHCD Launcher System of Experimental Advanced Superconducting Tokamak. Fusion Science and Technology, 2019, 75, 49-58.	1.1	6
57	Effects of plasma configuration, ELM and gas puffing on LHW coupling during H-mode in EAST. Plasma Physics and Controlled Fusion, 2013, 55, 065008.	2.1	5
58	Studies of various physics effects on an on-axis LHCD experiment using numerical tools. Physics of Plasmas, 2018, 25, 082516.	1.9	5
59	Dependence of upstream SOL density shoulder on divertor neutral pressure observed in L-mode and H-mode plasmas in the EAST superconducting tokamak. Nuclear Fusion, 2021, 61, 076018.	3.5	5
60	I-mode operation in helium plasma with pure radio frequency wave heating and ITER-like tungsten divertor on EAST. Nuclear Fusion, 0, , .	3.5	5
61	Improvement of lower hybrid current drive systems for high-power and long-pulse operation on EAST. Nuclear Engineering and Technology, 2022, 54, 4102-4110.	2.3	5
62	ECRH on CFETR - physics and technology needed. EPJ Web of Conferences, 2017, 149, 01011.	0.3	4
63	Impact of lithium wall conditioning and wave-frequency on high density lower hybrid current drive experiment on EAST. Nuclear Materials and Energy, 2021, 26, 100955.	1.3	4
64	Preliminary investigation of the effects of lower hybrid power on asymmetric behaviors in the scrape-off layer in experimental advanced superconducting tokamak. Physics of Plasmas, 2014, 21, 022508.	1.9	3
65	Power Modulation System and Experiments of Lower Hybrid Wave on EAST. IEEE Access, 2018, 6, 37413-37417.	4.2	3
66	Multiple striated heat fluxes patterns on the EAST first wall generated by lower hybrid wave absorption in the scrape-off layer. Physics of Plasmas, 2019, 26, 072506.	1.9	3
67	4.6 GHz lower hybrid wave power control system for EAST. Review of Scientific Instruments, 2019, 90, 113506.	1.3	3
68	Comparative modeling of lower hybrid wave coupling with 2.45 GHz and 4.6 GHz launchers on EAST. AIP Conference Proceedings, 2020, , .	0.4	3
69	Modeling the spectral modification of lower hybrid wave in the presence of drift-wave type density fluctuation in the scrape-off-layer of the EAST tokamak. Physics of Plasmas, 2021, 28, 082507.	1.9	3
70	Investigation on LHW-plasma coupling in H-mode plasma in EAST. , 2014, , .		2
71	Broadband sidebands generated by parametric instability in lower hybrid current drive experiments on EAST. AIP Conference Proceedings, 2015, , .	0.4	2
72	Studies of challenge in lower hybrid current drive capability at high density regime in experimental advanced superconducting tokamak. Journal of Plasma Physics, 2017, 83, .	2.1	2

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73	Predictive simulations of operation scenarios for EAST with METIS code. Journal of Plasma Physics, 2017, 83, .	2.1	2
74	Initial TRANSP simulations of lower hybrid heating and current drive in EAST. AIP Conference Proceedings, 2020, , .	0.4	2
75	Diagnostic development for parallel wave-number measurement of lower hybrid waves in EAST. Review of Scientific Instruments, 2020, 91, 073502.	1.3	2
76	Experimental investigation on effect of ion cyclotron resonance heating on density fluctuation in SOL at EAST. Nuclear Engineering and Technology, 2022, 54, 207-219.	2.3	2
77	Observation of synergy between lower hybrid waves at two frequencies in EAST. Physics of Plasmas, 2021, 28, 072506.	1.9	2
78	Comparison of dynamical features between the fast H-L and the H-I-L transition for EAST RF-heated plasmas. Physica Scripta, 2022, 97, 015601.	2.5	2
79	Study of EAST LH antennas coupling at ENEA-Frascati. AIP Conference Proceedings, 2015, , .	0.4	1
80	Effect of the electric field pattern on the generation of fast electrons in front of lower hybrid launchers. AIP Conference Proceedings, 2015, , .	0.4	1
81	Lower hybrid current drive experiments in support of high confinement long pulse operation in EAST. EPJ Web of Conferences, 2017, 157, 03011.	0.3	1
82	Effect of edge plasma density on hot spot in LHCD plasma in EAST. Nuclear Materials and Energy, 2021, 27, 100992.	1.3	1
83	Lâ€™H power threshold studies with tungsten/carbon divertor on the EAST tokamak. Radiation Effects and Defects in Solids, 2016, 171, 359-373.	1.2	0
84	Analysis of Poloidal Asymmetric Density Behaviors in SOL Induced by 4.6-GHz Lower Hybrid Launcher Power in EAST. Plasma Physics Reports, 2018, 44, 171-179.	0.9	0
85	Detection of edge ion cyclotron emission driven by energetic deuterium ions in the EAST. AIP Conference Proceedings, 2020, , .	0.4	0
86	Design and test analysis of magnetic probe for parallel wave-number measurement of lower hybrid waves in EAST. AIP Conference Proceedings, 2020, , .	0.4	0
87	The effects of $E_r \tilde{A} - B_t$ drift on LH wave coupling with divertor configuration at EAST. Plasma Physics and Controlled Fusion, 2021, 63, 075012.	2.1	0
88	Simulated effect of edge plasma density parameters on lower hybrid wave scattering in EAST. Physics of Plasmas, 2022, 29, 024503.	1.9	0