

H Q Liu

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Nonlinear Transition from Mitigation to Suppression of the Edge Localized Mode with Resonant Magnetic Perturbations in the EAST Tokamak. <i>Physical Review Letters</i> , 2016, 117, 115001.	7.8	187
2	Initial measurements of plasma current and electron density profiles using a polarimeter/interferometer (POINT) for long pulse operation in EAST (invited). <i>Review of Scientific Instruments</i> , 2016, 87, 11D903.	1.3	104
3	Faraday-effect polarimeter-interferometer system for current density measurement on EAST. <i>Review of Scientific Instruments</i> , 2014, 85, 11D405.	1.3	70
4	Integrated operation of steady-state long-pulse H-mode in Experimental Advanced Superconducting Tokamak. <i>Nuclear Fusion</i> , 2019, 59, 086030.	3.5	68
5	Key issues for long-pulse high- β^2 operation with the Experimental Advanced Superconducting Tokamak (EAST). <i>Nuclear Fusion</i> , 2017, 57, 056021.	3.5	47
6	Realization of minute-long steady-state H-mode discharges on EAST. <i>Plasma Science and Technology</i> , 2017, 19, 032001.	1.5	46
7	Development of high poloidal beta, steady-state scenario with ITER-like tungsten divertor on EAST. <i>Nuclear Fusion</i> , 2017, 57, 076037.	3.5	44
8	Plasma flows and fluctuations with magnetic islands in the edge plasmas of J-TEXT tokamak. <i>Nuclear Fusion</i> , 2015, 55, 073022.	3.5	43
9	Design of far-infrared polarimeter/interferometer system for EAST tokamak. <i>Journal of Instrumentation</i> , 2013, 8, C11002-C11002.	1.2	37
10	A space-resolved extreme ultraviolet spectrometer for radial profile measurement of tungsten ions in the Experimental Advanced Superconducting Tokamak. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2019, 916, 169-178.	1.6	35
11	Observation of internal transport barrier in ELMy H-mode plasmas on the EAST tokamak. <i>Plasma Physics and Controlled Fusion</i> , 2017, 59, 085003.	2.1	34
12	Joint DIII-D/EAST research on the development of a high poloidal beta scenario for the steady state missions of ITER and CFETR. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 014043.	2.1	32
13	First demonstration of full ELM suppression in low input torque plasmas to support ITER research plan using $n = 4$ RMP in EAST. <i>Nuclear Fusion</i> , 2021, 61, 106037.	3.5	26
14	Core-shell $\text{Fe}_3\text{O}_4 @ \text{SiO}_2 @ \text{HNbMoO}_6$ nanocomposites: new magnetically recyclable solid acid for heterogeneous catalysis. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3456-3464.	10.3	23
15	Outward particle transport by coherent mode in the H-mode pedestal in the Experimental Advanced Superconducting Tokamak (EAST). <i>Plasma Physics and Controlled Fusion</i> , 2017, 59, 065012.	2.1	23
16	Soft x-ray pulse height analyzer in the HT-7 tokamak. <i>Review of Scientific Instruments</i> , 2004, 75, 4930-4933.	1.3	22
17	Optical layout and mechanical structure of polarimeter-interferometer system for Experimental Advanced Superconducting Tokamak. <i>Review of Scientific Instruments</i> , 2014, 85, 11D409.	1.3	22
18	Progress of physics understanding for long pulse high-performance plasmas on EAST towards the steady-state operation of ITER and CFETR. <i>Plasma Physics and Controlled Fusion</i> , 2020, 62, 014019.	2.1	22

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19	Advances in the long-pulse steady-state high beta H-mode scenario with active controls of divertor heat and particle fluxes in EAST. Nuclear Fusion, 2022, 62, 042010.	3.5	22
20	Plasma density behavior with new graphite limiters in the Hefei Tokamak-7. Physics of Plasmas, 2005, 12, 082502.	1.9	21
21	Experimental study on the magnetic coherent mode in the H-mode pedestal of EAST. Nuclear Fusion, 2018, 58, 112004.	3.5	19
22	Analysis of performance degradation in an electron heating dominant H-mode plasma after ECRH termination in EAST. Nuclear Fusion, 2018, 58, 066011.	3.5	18
23	Fast-ion velocity-space tomography using slowing-down regularization in EAST plasmas with co- and counter-current neutral beam injection. Plasma Physics and Controlled Fusion, 2020, 62, 115019.	2.1	17
24	Improved density measurement by FIR laser interferometer on EAST tokamak. Fusion Engineering and Design, 2013, 88, 2830-2834.	1.9	16
25	Upgrade Design of Lower Divertor Langmuir Probe Diagnostic System in the EAST Tokamak. IEEE Transactions on Plasma Science, 2018, 46, 1331-1337.	1.3	16
26	Experimental Evidence of Intrinsic Current Generation by Turbulence in Stationary Tokamak Plasmas. Physical Review Letters, 2022, 128, 085003.	7.8	16
27	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
28	Effects of stray lights on Faraday rotation measurement for polarimeter-interferometer system on EAST. Review of Scientific Instruments, 2018, 89, 013510.	1.3	14
29	Hot spots induced by LHCD in the shadow of antenna limiters in the EAST tokamak. Physics of Plasmas, 2018, 25, .	1.9	14
30	Experimental observation of reverse-sheared Alfvén eigenmodes (RSAEs) in ELMy H-mode plasma on the EAST tokamak. Plasma Science and Technology, 2018, 20, 115101.	1.5	14
31	Advances in physics understanding of high poloidal beta regime toward steady-state operation of CFETR. Physics of Plasmas, 2021, 28, .	1.9	14
32	EAST steady-state long pulse H-mode with core-edge integration for CFETR. Nuclear Fusion, 2022, 62, 076009.	3.5	14
33	Radiation-driven $m=2$ island formation and dynamics near density limit in experimental advanced superconducting tokamak ohmic plasma. Nuclear Fusion, 2017, 57, 126002.	3.5	13
34	Rotation braking with $n = 1$ nonaxisymmetric magnetic perturbation in the EAST tokamak. Physics of Plasmas, 2019, 26, .	1.9	13
35	Observation of helical $m/n = 1/1$ saturated steady mode in EAST pure electron heating scenario with $q \approx 1$. Nuclear Fusion, 2020, 60, 106027.	3.5	12
36	Reconstruction of the Density Profile for the EAST Tokamak Based on Polarimeter/Interferometer and Microwave Reflectometer Systems. Plasma Science and Technology, 2015, 17, 733-737.	1.5	11

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37	Experimental study of quasi-coherent mode using EAST tangential CO ₂ laser collective scattering diagnostic in far-forward mode. <i>Physics of Plasmas</i> , 2019, 26, 012304.	1.9	11
38	Experimental observation of coexisting electromagnetic fluctuations correlating with the inter-ELM pedestal evolution on EAST. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	11
39	Line identification of extreme ultraviolet (EUV) spectra from iron, copper and molybdenum ions in EAST tokamak. <i>Physica Scripta</i> , 2022, 97, 045604.	2.5	11
40	Study of plasma current effect on divertor power footprint widths through experiments and modeling in EAST L-mode plasmas. <i>Physics of Plasmas</i> , 2017, 24, 042508.	1.9	10
41	Theoretical analysis of key factors achieving reversed magnetic shear $\langle i \rangle q \langle /i \rangle$ -profiles sustained with lower hybrid waves on EAST. <i>Plasma Physics and Controlled Fusion</i> , 2019, 61, 045002.	2.1	10
42	Validation of theory-based integrated modeling and new insights for a high-performance steady-state scenario with only RF heating on EAST. <i>Nuclear Fusion</i> , 2022, 62, 076015.	3.5	10
43	Development of an alternating integrator for magnetic measurements for experimental advanced superconducting tokamak. <i>Review of Scientific Instruments</i> , 2014, 85, 11E826.	1.3	9
44	Suppression of molybdenum impurity accumulation in the core using on-axis electron cyclotron resonance heating in EAST. <i>Physics of Plasmas</i> , 2019, 26, 032507.	1.9	9
45	Experimental study of double tearing mode on EAST tokamak. <i>Plasma Science and Technology</i> , 2020, 22, 025102.	1.5	9
46	Sustained edge-localized-modes suppression and radiative divertor with an impurity-driven instability in tokamak plasmas. <i>Nuclear Fusion</i> , 2021, 61, 116032.	3.5	9
47	Preliminary study of divertor particle exhaust in the EAST superconducting tokamak. <i>Plasma Science and Technology</i> , 2017, 19, 095101.	1.5	8
48	Saturated helical mode in EAST high $\langle i \rangle^2 \langle /i \rangle$ hybrid plasmas. <i>Nuclear Fusion</i> , 2020, 60, 016003.	3.5	8
49	Long Pulse H-Mode Scenarios Sustained by RF Heating on EAST. <i>Plasma Science and Technology</i> , 2015, 17, 448-453.	1.5	7
50	Progress of Concept Design for CFETR Diagnostic System. <i>IEEE Transactions on Plasma Science</i> , 2018, 46, 1361-1365.	1.3	7
51	Observation of Alfvén eigenmodes driven by fast electrons during lower hybrid wave heating in EAST plasmas. <i>Nuclear Fusion</i> , 2018, 58, 096032.	3.5	7
52	Non-inductive vertical position measurements by Faraday-effect polarimetry on EAST tokamak. <i>Review of Scientific Instruments</i> , 2018, 89, 10B103.	1.3	7
53	Runaway electron generation and loss in EAST disruptions. <i>Nuclear Fusion</i> , 0, , .	3.5	7
54	Study of H-mode pedestal predictive model on EAST tokamak. <i>Plasma Physics and Controlled Fusion</i> , 2020, 62, 115007.	2.1	7

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55	Edge localized modes suppression via edge E \times B velocity shear induced by RF sheath of ion cyclotron resonance heating in EAST. Science China: Physics, Mechanics and Astronomy, 2022, 65, 1.	5.1	7
56	Characterization of pedestal burst instabilities during I-mode to H-mode transition in the EAST tokamak. Nuclear Fusion, 2022, 62, 066046.	3.5	7
57	Optical configuration optimization and calibration for the POINT system on EAST. Review of Scientific Instruments, 2016, 87, 11E121.	1.3	6
58	Bench test of phase measurement on dispersion interferometer for EAST. Review of Scientific Instruments, 2019, 90, 026105.	1.3	6
59	Magnetic energy dissipation during the current quench of disruption in EAST. Journal of Plasma Physics, 2020, 86, .	2.1	6
60	Coherent modes and turbulences observations with multi-channel Doppler reflectometer on experimental advanced superconducting tokamak. Physics of Plasmas, 2020, 27, .	1.9	6
61	Modeling very high electron heating by radio frequency waves on EAST. Nuclear Fusion, 2021, 61, 096026.	3.5	6
62	Investigation of annular/central collapse events triggered by the double tearing modes in EAST. Nuclear Fusion, 2021, 61, 106008.	3.5	6
63	Design of vibration compensation interferometer for Experimental Advanced Superconducting Tokamak. Review of Scientific Instruments, 2014, 85, 11D404.	1.3	5
64	Stability analysis of ELMs in long-pulse discharges with ELITE code on EAST tokamak. Plasma Physics and Controlled Fusion, 2018, 60, 055002.	2.1	5
65	Measurements of particle transport coefficients using supersonic molecular beam injection modulation on EAST. Physics of Plasmas, 2019, 26, .	1.9	5
66	Implementation and data processing of a five-channel microwave interferometer with high temporal resolution and low noise on Sino-UNited Spherical Tokamak. Review of Scientific Instruments, 2021, 92, 043538.	1.3	5
67	The investigation of quasi coherent mode on EAST using Doppler reflectometry. Plasma Science and Technology, 2021, 23, 095106.	1.5	5
68	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
69	Nonlinear mode couplings between geodesic acoustic mode and toroidal Alfvén eigenmodes in the EAST tokamak. Physics of Plasmas, 2022, 29, .	1.9	5
70	Design of CW High-Power Discharge-Pumped DCN Laser. Journal of Infrared, Millimeter and Terahertz Waves, 2003, 24, 2079-2083.	0.6	4
71	Optimization and Maximum Output Power of CW DCN Laser. Journal of Infrared, Millimeter and Terahertz Waves, 2004, 25, 649-655.	0.6	4
72	Development of an HCN dual laser for the interferometer on EAST. Plasma Science and Technology, 2017, 19, 084003.	1.5	4

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73	Improvement of q profile by the polarimeter/interferometer system on EAST tokamak. Journal of Instrumentation, 2017, 12, C12060-C12060.	1.2	4
74	Error correction associated with stray light for Faraday-effect polarimetry system on EAST. Review of Scientific Instruments, 2019, 90, 053501.	1.3	4
75	Study of the mechanism of ITB formation and sustainment with optimized q profiles in ELMy H mode discharges on the EAST. Plasma Physics and Controlled Fusion, 2021, 63, 105003.	2.1	4
76	Magnetohydrodynamic effect of internal transport barrier on EAST tokamak. Plasma Science and Technology, 2022, 24, 035102.	1.5	4
77	Tungsten control in type-I ELMy H-mode plasmas on EAST. Nuclear Science and Techniques/Hewuli, 2021, 32, 1.	3.4	4
78	Influence of low-Z impurity on the stabilization of m/n = 2/1 tearing/locked modes in EAST. Nuclear Fusion, 0, , .	3.5	4
79	The Beam Property of DCN Laser. Journal of Infrared, Millimeter and Terahertz Waves, 2004, 25, 891-895.	0.6	3
80	Design of a five-channel DCN laser interferometer on EAST. Plasma Devices and Operations, 2009, 17, 16-22.	0.6	3
81	Observation and characterization of the effect of electron cyclotron waves on toroidal rotation in EAST L-mode discharges. Plasma Science and Technology, 2017, 19, 105101.	1.5	3
82	Development of signal analysis method for the motional Stark effect diagnostic on EAST. Plasma Science and Technology, 2017, 19, 104001.	1.5	3
83	Experimental observation of (intermediate, high)-k micro-turbulence in different type H mode plasmas in EAST. Physics of Plasmas, 2018, 25, .	1.9	3
84	Sawtooth activities in EAST neutral beam injection plasma. AIP Advances, 2019, 9, 015226.	1.3	3
85	Numerical investigation of a minority heating scenario in three-ion components plasma on EAST. Physics of Plasmas, 2020, 27, 082506.	1.9	3
86	Tearing mode stabilization by electron cyclotron resonant heating in EAST tokamak experiments. Nuclear Fusion, 2021, 61, 096028.	3.5	3
87	MARFE movement and density fluctuations after deuterium pellet injections in H-mode plasmas on EAST tokamak. Plasma Physics and Controlled Fusion, 2022, 64, 055010.	2.1	3
88	Experimental Study with LaB6Cathode on DCN Laser. Journal of Infrared, Millimeter and Terahertz Waves, 2004, 25, 809-813.	0.6	2
89	Fast Data Processing of a Polarimeter-Interferometer System on J-TEXT. Plasma Science and Technology, 2016, 18, 1143-1147.	1.5	2
90	Bench Test of the Vibration Compensation Interferometer for EAST Tokamak. Plasma Science and Technology, 2016, 18, 206-210.	1.5	2

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91	High speed FPGA-based Phasemeter for the far-infrared laser interferometers on EAST. Journal of Instrumentation, 2017, 12, C12043-C12043.	1.2	2
92	Modelling and measurement of the electrostatic potential perturbation in consideration of the non-adiabatic electron response to trace tungsten concentration in a tokamak. Physics of Plasmas, 2018, 25, 072505.	1.9	2
93	Fishbone Oscillations in the Experimental Advanced Superconductivity Tokamak. Journal of the Korean Physical Society, 2018, 72, 669-675.	0.7	2
94	Poloidally localized edge density fluctuation with applied and spontaneous 3-D fields in experimental advanced superconducting tokamak (EAST). Physics of Plasmas, 2019, 26, 092504.	1.9	2
95	Reduction of impurity confinement time by combined heating of LHW and ECRH in EAST*. Chinese Physics B, 2021, 30, 075205.	1.4	2
96	Observation of synergy between lower hybrid waves at two frequencies in EAST. Physics of Plasmas, 2021, 28, 072506.	1.9	2
97	Dependence of fishbone cycle on energetic particle intensity in EAST low-magnetic-shear plasmas. Journal of Plasma Physics, 2020, 86, .	2.1	2
98	Effect of fast electron transport on neoclassical tearing mode stabilization by electron cyclotron current drive. Nuclear Fusion, 2022, 62, 066007.	3.5	2
99	Radial Density Profiles of Highly Ionized Metallic Impurity Ions in RF-Heated H-Mode Plasmas in EAST. IEEE Transactions on Plasma Science, 2022, 50, 691-699.	1.3	2
100	Density Profile and Diffusion Coefficient During IBW Heating in the HT-7 Superconducting Tokamak. Journal of Infrared, Millimeter and Terahertz Waves, 2003, 24, 1047-1061.	0.6	1
101	CW Discharge?Pumped DCN Laser with Novel Mixture Gas. Journal of Infrared, Millimeter and Terahertz Waves, 2004, 25, 1765-1772.	0.6	1
102	Design and Manufacture of the AC Superconducting Magnet for the Conductor Test Facility at ASIPP. IEEE Transactions on Applied Superconductivity, 2012, 22, 9502404-9502404.	1.7	1
103	Note: Stability control of intermediate frequencies of a three laser far-infrared polarimeter-interferometer system. Review of Scientific Instruments, 2016, 87, 126102.	1.3	1
104	Design of geometric phase measurement in EAST Tokamak. Physics of Plasmas, 2016, 23, 072109.	1.9	1
105	Observation of a fully non-inductive H-mode regime dominated by the sporadic-small edge-localized modes in EAST with a tungsten divertor. Plasma Physics and Controlled Fusion, 2019, 61, 085006.	2.1	1
106	Gyrokinetic Simulation of Turbulence in the High-Î²N Discharge on the Experimental Advanced Superconducting Tokamak. Plasma Physics Reports, 2020, 46, 1137-1143.	0.9	1
107	Observation of coherent mode induced by a molybdenum dust on EAST. Plasma Science and Technology, 2021, 23, 115103.	1.5	1
108	Line identification of extreme ultraviolet spectra of Mo V to Mo XVIII in EAST tokamak. Wuli Xuebao/Acta Physica Sinica, 2022, 71, 115203.	0.5	1

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109	Design of real-time data acquisition system for interferometer-based electron density diagnostics on EAST. Review of Scientific Instruments, 2022, 93, 034705.	1.3	1
110	Experimental and theoretical study of weakly coherent mode in I-mode edge plasmas in the EAST tokamak. Nuclear Fusion, 2022, 62, 086029.	3.5	1
111	Characterization of beam ion loss in high poloidal beta regime on EAST. Plasma Physics and Controlled Fusion, 2022, 64, 095006.	2.1	1
112	Impact of coherent mode on divertor particle and heat flux in a type I ELMy H mode plasma on EAST tokamak. Nuclear Fusion, 0, , .	3.5	1
113	432- λ m laser's beam-waist measurement for the polarimeter/interferometer on the EAST tokamak. Journal of the Korean Physical Society, 2014, 65, 1215-1220.	0.7	0
114	L α -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
115	The spontaneous destabilization of neoclassical tearing mode with existing energetic ions in low torque tokamak plasmas. Nuclear Fusion, 2017, 57, 114005.	3.5	0
116	The Bench Test of a High Temporal Resolution HCN Interferometry for Atmospheric Pressure Air Plasmas. , 2018, , .		0
117	Candidate explanation for the mild core oscillations in dominant electron heating scenario on experimental advanced superconducting tokamak. Physics of Plasmas, 2018, 25, 112501.	1.9	0
118	Stability Control of Intermediate Frequency for A Double Cavity HCN Laser. , 2019, , .		0
119	Characteristics of an axisymmetric magnetic oscillation closely related to L-H transition on experimental advanced superconducting tokamak (EAST). Physics of Plasmas, 2019, 26, 122502.	1.9	0
120	Electron temperature fluctuations correlated with energy confinement degradation in the EAST Ohmic plasmas. Physics of Plasmas, 2021, 28, 072508.	1.9	0
121	Experimental investigation of lower hybrid current drive induced plasma rotation on the experimental advanced superconducting tokamak. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 055201.	0.5	0
122	Radiation shielding design of the CFETR polarimeter interferometer and CO2 dispersion interferometer. Plasma Science and Technology, 0, , .	1.5	0