

# Jie Chen

## List of Publications by Year in descending order

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45  
docs citations

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times ranked

372  
citing authors

#	ARTICLE	IF	CITATIONS
1	Overview of the J-TEXT progress on RMP and disruption physics. Plasma Science and Technology, 2018, 20, 125101.	1.5	55
2	High resolution polarimeter-interferometer system for fast equilibrium dynamics and MHD instability studies on Joint-TEXT tokamak (invited). Review of Scientific Instruments, 2014, 85, 11D303.	1.3	54
3	Recent research work on the J-TEXT tokamak. Nuclear Fusion, 2013, 53, 104014.	3.5	43
4	Overview of the recent research on the J-TEXT tokamak. Nuclear Fusion, 2015, 55, 104003.	3.5	43
5	First results from the J-TEXT high-resolution three-wave polarimeter-interferometer. Review of Scientific Instruments, 2012, 83, 10E306.	1.3	39
6	Tests of a two-color interferometer and polarimeter for ITER density measurements. Plasma Physics and Controlled Fusion, 2017, 59, 125005.	2.1	30
7	Faraday-effect polarimeter diagnostic for internal magnetic field fluctuation measurements in DIII-D. Review of Scientific Instruments, 2016, 87, 11E108.	1.3	28
8	Design of far-infrared three-wave polarimeter-interferometer system for the J-TEXT tokamak. Review of Scientific Instruments, 2010, 81, 10D502.	1.3	26
9	Recent progress of the HCN interferometer on J-TEXT tokamak. Review of Scientific Instruments, 2012, 83, 10E303.	1.3	25
10	Internal measurement of magnetic turbulence in ELMy H-mode tokamak plasmas. Physics of Plasmas, 2020, 27, .	1.9	17
11	Pedestal magnetic turbulence measurements in ELMy H-mode DIII-D plasmas by Faraday-effect polarimetry. Physics of Plasmas, 2021, 28, .	1.9	16
12	Effects of stray lights on Faraday rotation measurement for polarimeter-interferometer system on EAST. Review of Scientific Instruments, 2018, 89, 013510.	1.3	14
13	Impact of the Cotton-Mouton effect on Faraday polarimetry measurements using circular polarization. Plasma Physics and Controlled Fusion, 2018, 60, 085001.	2.1	14
14	Equilibrium reconstruction based on core magnetic measurement and its applications on equilibrium transition in Joint-TEXT tokamak. Review of Scientific Instruments, 2014, 85, 103501.	1.3	12
15	Progress of recent experimental research on the J-TEXT tokamak. Nuclear Fusion, 2017, 57, 102003.	3.5	12
16	Tests of a full-scale ITER toroidal interferometer and polarimeter (TIP) prototype on the DIII-D tokamak (invited). Review of Scientific Instruments, 2018, 89, 10B102.	1.3	11
17	Bench testing of a heterodyne CO2 laser dispersion interferometer for high temporal resolution plasma density measurements. Review of Scientific Instruments, 2016, 87, 123502.	1.3	10
18	A Faraday-effect polarimeter for fast magnetic dynamics measurement on DIII-D. Review of Scientific Instruments, 2018, 89, 10B101.	1.3	10

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19	First results of the J-TEXT high-resolution 3-wave polarimeter-interferometer system. Journal of Instrumentation, 2013, 8, C10019-C10019.	1.2	9
20	A heterodyne dispersion interferometer for wide bandwidth density measurements on DIII-D. Review of Scientific Instruments, 2018, 89, 10B105.	1.3	9
21	Ion thermal transport in the H-mode edge transport barrier on DIII-D. Physics of Plasmas, 2022, 29, .	1.9	9
22	A real-time laser feedback control method for the three-wave laser source used in the polarimeter-interferometer diagnostic on Joint-TEXT tokamak. Review of Scientific Instruments, 2014, 85, 123502.	1.3	8
23	The three-wave laser polarimeter-interferometer on J-TEXT tokamak. Journal of Instrumentation, 2016, 11, C02026-C02026.	1.2	8
24	Plasma response to $m/n=3/1$ resonant magnetic perturbation at J-TEXT Tokamak. Nuclear Fusion, 2016, 56, 092009.	3.3	8
25	First time observation of local current shrinkage during the MARFE behavior on the J-TEXT tokamak. Nuclear Fusion, 2017, 57, 116052.	3.5	8
26	Progress of the in-building J-TEXT FIR three-wave polarimeter. Journal of Instrumentation, 2012, 7, C01064-C01064.	1.2	7
27	The 7-channel FIR HCN interferometer on J-TEXT tokamak. Journal of Instrumentation, 2012, 7, C01109-C01109.	1.2	7
28	Non-inductive vertical position measurements by Faraday-effect polarimetry on EAST tokamak. Review of Scientific Instruments, 2018, 89, 10B103.	1.3	7
29	A survey of pedestal magnetic fluctuations using gyrokinetics and a global reduced model for microtearing stability. Physics of Plasmas, 2022, 29, .	1.9	7
30	Investigation of the Ion Energy Transport in the Scrape-Off Layer on the J-TEXT Tokamak Using a Retarding Field Analyzer. Plasma Science and Technology, 2016, 18, 601-606.	1.5	6
31	Studies of EC pre-ionization in DIII-D to support development of ITER plasma initiation. Nuclear Fusion, 2022, 62, 066013.	3.5	6
32	New understanding of inter-ELM pedestal turbulence, transport, and gradient behavior in the DIII-D tokamak. Nuclear Fusion, 2021, 61, 126037.	3.5	5
33	System-on-chip integrated circuit technology applications on the DIII-D tokamak for multi-field measurements. Journal of Instrumentation, 2022, 17, C01013.	1.2	5
34	Vibration mitigation in J-TEXT far-infrared diagnostic systems. Review of Scientific Instruments, 2012, 83, 10E314.	1.3	4
35	Particle transport inferences from density sawteeth. Physics of Plasmas, 2014, 21, 052511.	1.9	4
36	Optimization of the HCN interferometer on J-TEXT tokamak. Journal of Instrumentation, 2015, 10, C12004-C12004.	1.2	4

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37	Far-forward collective scattering measurements by FIR polarimeter-interferometer on J-TEXT tokamak. Review of Scientific Instruments, 2016, 87, 11E110.	1.3	4
38	Dynamic measurement of impurity ion transport in runaway electron plateaus in DIII-D. Physics of Plasmas, 2022, 29, 022503.	1.9	4
39	Profile Aided Real-Time Plasma Electron Density Feedback Control Based on FPGA on J-TEXT. IEEE Transactions on Nuclear Science, 2018, 65, 771-776.	2.0	3
40	Correlation polarimeter-interferometer in the DIII-D tokamak. Review of Scientific Instruments, 2021, 92, 043502.	1.3	3
41	Observation of inverse sawtooth activity on central soft X-ray emission during impurity injection in the J-TEXT tokamak. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 2959-2965.	2.1	2
42	Toroidal magnetic field ripple and ion orbit loss effects on edge toroidal rotation in J-TEXT Tokamak plasmas. Nuclear Fusion, 2018, 58, 076001.	3.5	2
43	Observation of the bifurcation of tearing modes due to supersonic gas injected into the J-TEXT plasmas. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 1147-1152.	2.1	1
44	Optimization of J-TEXT three-wave polarimeter-interferometer system. Journal of Instrumentation, 2013, 8, C10014-C10014.	1.2	0
45	Density modulation experiment to determine transport coefficients on Joint-TEXT Tokamak. Review of Scientific Instruments, 2015, 86, 023507.	1.3	0