

# Donghui Xia

## List of Publications by Year in descending order

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37  
papers

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citations

1478505

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1474206

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docs citations

38  
times ranked

82  
citing authors

#	ARTICLE	IF	CITATIONS
1	The coordinate transformation method for design of polarizers on HL-2A electron cyclotron resonance heating and current drive systems. Review of Scientific Instruments, 2013, 84, 103504.	1.3	16
2	Study of the Polarization Strategy for Electron Cyclotron Heating Systems on HL-2M. Journal of Infrared, Millimeter, and Terahertz Waves, 2016, 37, 572-581.	2.2	11
3	The 5.8 T Cryogen-Free Gyrotron Superconducting Magnet System on HL-2A. Plasma Science and Technology, 2014, 16, 410-414.	1.5	10
4	Investigation of the Alignment Method for High-Frequency Gyrotrons. IEEE Transactions on Terahertz Science and Technology, 2020, 10, 460-465.	3.1	8
5	Note: A calibration method to determine the lumped-circuit parameters of a magnetic probe. Review of Scientific Instruments, 2016, 87, 066102.	1.3	7
6	Test of polarizers for the 105 GHz ECRH system on J-TEXT. Fusion Engineering and Design, 2019, 146, 269-272.	1.9	7
7	Design of a Launcher for the 105-GHz ECRH System on J-TEXT. IEEE Transactions on Plasma Science, 2020, 48, 1560-1565.	1.3	7
8	A broad range frequency measurement method for continuous and pulsed THz waves. Review of Scientific Instruments, 2020, 91, 014710.	1.3	6
9	A visible light high-speed imaging system and tomographic reconstruction of plasma emissivity on the J-TEXT tokamak. Fusion Engineering and Design, 2019, 146, 578-581.	1.9	5
10	Fast Protection Unit Designed for the Electron Cyclotron Resonance Heating System on J-TEXT. IEEE Transactions on Plasma Science, 2021, 49, 258-262.	1.3	5
11	Study of the fast electron behavior in electron cyclotron current driven plasma on J-TEXT. Plasma Science and Technology, 2022, 24, 064007.	1.5	5
12	Fueling Performance of Supersonic Molecular Beam Injection on the J-TEXT Tokamak. IEEE Transactions on Plasma Science, 2013, 41, 3675-3679.	1.3	4
13	Reconstruction Progress of the COMPASS-D ECRH System on J-TEXT. IEEE Transactions on Plasma Science, 2016, 44, 1649-1653.	1.3	4
14	Design of a polarization-controlled launcher for the ECH system on J-TEXT. Fusion Engineering and Design, 2016, 112, 404-409.	1.9	4
15	The anode power supply for the ECRH system on the J-TEXT tokamak. Plasma Science and Technology, 2018, 20, 014018.	1.5	4
16	Compact Pulsed Magnets Designed for an 800 GHz, 2th Harmonics Gyrotron. , 2019, , .		4
17	Design of polarizers with smooth grooves by the coordinate transformation method for ECH&CD system. Fusion Engineering and Design, 2019, 139, 137-141.	1.9	4
18	Commissioning of a 60GHz Gyrotron Superconducting Magnet System on J-TEXT Tokamak. Journal of Fusion Energy, 2015, 34, 1314-1319.	1.2	3

#	ARTICLE	IF	CITATIONS
19	Integral staggered point-matching method for millimeter-wave reflective diffraction gratings on electron cyclotron heating systems. Fusion Engineering and Design, 2016, 108, 55-59.	1.9	3
20	A High-Voltage Solid-State Switch Based on Submodule Topology of SiC MOSFETs for J-TEXT Tokamak. IEEE Transactions on Plasma Science, 2020, 48, 1676-1680.	1.3	3
21	Coupling of electron cyclotron waves to the desired mode in plasma of HL-2A tokamak. Fusion Engineering and Design, 2013, 88, 2991-2996.	1.9	2
22	Design of the Transmission Lines for 140 GHz ECRH System on HL-2A. Plasma Science and Technology, 2014, 16, 267-272.	1.5	2
23	Study of Polarization Strategy for High-Power Millimeter Wave With Two Identical Reflective Gratings. IEEE Transactions on Antennas and Propagation, 2018, 66, 6043-6048.	5.1	2
24	Signal Transmission Links for the Electron Cyclotron Resonance Heating System on J-TEXT. IEEE Transactions on Plasma Science, 2018, 46, 1344-1349.	1.3	2
25	The anode power supply based on the pulse step modulation technology for the ECRH system on J-TEXT tokamak. Fusion Engineering and Design, 2019, 146, 2654-2657.	1.9	2
26	Shadowing of the operating mode by sidebands in gyrotrons with diode-type electron guns. Physics of Plasmas, 2021, 28, 013110.	1.9	2
27	MHD Analysis on the Physics Design of CFETR Baseline Scenarios. Journal of Fusion Energy, 2022, 41, .	1.2	2
28	Reconstruction of the COMPSS-D ECRH Systems on the J-TEXT tokamak. , 2015, , .		1
29	Rectangular grooved polarizer with round edges for the high power millimeter wave system. , 2019, , .		1
30	Mode Excitation in Gyrotrons With Triode-Type Electron Guns. IEEE Transactions on Electron Devices, 2022, 69, 785-791.	3.0	1
31	Design of dual-frequency transmission lines for the ECRH system on HL-2M. Fusion Engineering and Design, 2017, 123, 336-340.	1.9	0
32	Application of reflective gratings for electron cyclotron heating system. , 2017, , .		0
33	Polarizer Designed for the Electron Cyclotron Resonance Heating System on J-TEXT. IEEE Transactions on Plasma Science, 2018, 46, 1628-1632.	1.3	0
34	45 T Pulsed Magnets for the THz Gyrotrons. , 2018, , .		0
35	Design of the high voltage isolation transmission module with low delay for ECRH system on J-TEXT. Plasma Science and Technology, 2018, 20, 024004.	1.5	0
36	Magnetron Injection Gun for an 800 GHz Pulsed Gyrotron. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
37	Development of a single capacitor-voltage-divider flux-loop for field-reversed theta-pinch plasmas. Review of Scientific Instruments, 2021, 92, 103504.	1.3	0