

Cai-Chao Jiang

List of Publications by Year in descending order

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46
all docs

46
docs citations

46
times ranked

177
citing authors

#	ARTICLE	IF	CITATIONS
1	Overview of Development Status for EAST-NBI System. Plasma Science and Technology, 2015, 17, 817-825.	1.5	79
2	Design of the Prototype Negative Ion Source for Neutral Beam Injector at ASIPP. Plasma Science and Technology, 2016, 18, 954-959.	1.5	38
3	The R&D progress of 4 MW EAST-NBI high current ion source. Review of Scientific Instruments, 2014, 85, 02B315.	1.3	24
4	Upgrade and experimental results of radio frequency ion source for neutral beam injector. Fusion Engineering and Design, 2017, 114, 72-75.	1.9	19
5	Development and preliminary results of radio frequency ion source. Review of Scientific Instruments, 2016, 87, 02B302.	1.3	16
6	Performance of positive ion based high power ion source of EAST neutral beam injector. Review of Scientific Instruments, 2016, 87, 02B301.	1.3	15
7	Conceptual design of magnetic filter for the prototype negative ion source at ASIPP. Fusion Engineering and Design, 2016, 113, 23-29.	1.9	15
8	Development of a Utility Negative Ion Test Equipment With RF Source at ASIPP. IEEE Transactions on Plasma Science, 2018, 46, 1149-1155.	1.3	15
9	Beam optics study of a negative ion source for neutral beam injection application at ASIPP. Fusion Engineering and Design, 2017, 117, 93-99.	1.9	14
10	Design and Development of a Power Supply System for NBI Test Stand of EAST. Journal of Fusion Energy, 2014, 33, 398-405.	1.2	13
11	Hefei utility negative ions test equipment with RF source: commissioning and first results. Plasma Science and Technology, 2018, 20, 125601.	1.5	13
12	Design of power supply system for the prototype RF-driven negative ion source for neutral beam injection application. Fusion Engineering and Design, 2017, 117, 100-106.	1.9	12
13	Physics and engineering design of 400 keV H ⁻ accelerator for negative ion based neutral beam injection system in China. Review of Scientific Instruments, 2019, 90, 113313.	1.3	12
14	Analysis and Experimental Study of Impedance Matching Characteristic of RF Ion Source on Neutral Beam Injector. IEEE Transactions on Plasma Science, 2018, 46, 2677-2679.	1.3	9
15	Design of a water-cooled tube for high-power and long-pulse radio frequency ion source. Fusion Engineering and Design, 2018, 129, 164-170.	1.9	9
16	Research and development progress of radio frequency ion source for neutral beam injector at ASIPP. Review of Scientific Instruments, 2019, 90, 113319.	1.3	8
17	Structure design and analysis of RF ion source for negative ion source test facility. Review of Scientific Instruments, 2019, 90, 113315.	1.3	7
18	Development of a core snubber for the neutral beam injector on EAST. Review of Scientific Instruments, 2016, 87, 123302.	1.3	6

#	ARTICLE	IF	CITATIONS
19	Analysis of the characteristics of the plasma of an RF driven ion source for a neutral beam injector. Plasma Science and Technology, 2020, 22, 025602.	1.5	6
20	Note: A new regulation method of stable operation of high power cathode ion source. Review of Scientific Instruments, 2015, 86, 056110.	1.3	5
21	The Development of Power Supply for Negative Ion Source Extraction Grid. IEEE Transactions on Plasma Science, 2018, 46, 1699-1703.	1.3	5
22	Optimization design of magnetic filter for the prototype RF negative ion source at ASIPP. Review of Scientific Instruments, 2019, 90, 115117.	1.3	4
23	Upgrade of the Neutral Beam Injection System on EAST. IEEE Transactions on Plasma Science, 2022, 50, 4086-4090.	1.3	4
24	Preliminary insulation design for transmission line of CFETR NNBI test platform. Fusion Engineering and Design, 2020, 161, 112062.	1.9	3
25	Negative ion beam extraction in volume mode on the RF negative ion source at ASIPP. Fusion Engineering and Design, 2020, 161, 112056.	1.9	3
26	Investigation of Arc Regulation of Hot Cathode Ion Source with Langmuir Probe. Journal of Fusion Energy, 2014, 33, 275-278.	1.2	2
27	Design and Preliminary Results of Matching Network for MW Scale High Current RF Ion Source. Fusion Science and Technology, 2017, , 1-4.	1.1	2
28	Development of Data Acquisition and Protection System of Infrared Thermometer for EAST NBI. Fusion Science and Technology, 2018, 73, 75-81.	1.1	2
29	Study on Improvement of Injected Power for EAST-NBI. Fusion Science and Technology, 2019, 75, 160-165.	1.1	2
30	Electrostatic Simulation and Analysis of Transmission Line Corner Section for the CRAFT NNBI Test Platform. IEEE Transactions on Plasma Science, 2021, 49, 3228-3236.	1.3	2
31	Impedance Characteristic Analysis and Preliminary Experimental Results of a High-Power RF Plasma Source. IEEE Transactions on Plasma Science, 2022, 50, 775-781.	1.3	2
32	Study the Characteristic of the Hot Cathode of High Current Ion Source. Journal of Fusion Energy, 2013, 32, 536-539.	1.2	1
33	Preliminary Experimental Study of Shine-Through Power for EAST-NBI by Infrared Pyrometer. Journal of Fusion Energy, 2015, 34, 925-929.	1.2	1
34	Progress and future developments of high current ion source for neutral beam injector in the ASIPP. AIP Conference Proceedings, 2015, , .	0.4	1
35	Feasibility Analysis of 1-D Carbon Material in Application of Negative Particle Beam Diagnostics. Fusion Science and Technology, 2018, 73, 533-538.	1.1	1
36	Design and Test of the Interlock Protection System for Extraction Power Supply of Negative Ion Source at ASIPP. Fusion Science and Technology, 2019, 75, 330-337.	1.1	1

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37	Preliminary design of diagnostic system for negative neutral beam injector at ASIPP. Review of Scientific Instruments, 2019, 90, 123512.	1.3	1
38	Thermal analysis of beamline heat load components due to increased power delivery from EAST neutral beam injector. Journal of Thermal Analysis and Calorimetry, 2020, 139, 527-533.	3.6	1
39	First result of CRDS system with cesium operation for radiofrequency negative ion source test facility at ASIPP. Fusion Engineering and Design, 2021, 166, 112266.	1.9	1
40	Research activities of RF-based negative ion source in the ASIPP. AIP Conference Proceedings, 2021, , .	0.4	1
41	Design of infrared radiation diagnostic calorimeter for the prototype radio frequency driven negative ion source for neutral beam injection. Review of Scientific Instruments, 2020, 91, 043501.	1.3	0
42	Study of the multi-driver decoupling model of RF negative ion source. AIP Conference Proceedings, 2021, , .	0.4	0
43	Study on multi control mode of arc power supply on NBI. , 2021, , .		0
44	Simulation Analysis of Electromagnetic Induction Between Two Drivers of Radio Frequency Ion Source. , 2021, , .		0
45	Design of EAST-NBI Field Control System Based on Profibus-DP Protocol. , 2021, , .		0