

Upgrade of the BATMAN test facility for H⁺ source dev

AIP Conference Proceedings

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Neutralisation and transport of negative ion beams: physics and diagnostics. New Journal of Physics, 2017, 19, 045003.	1.2	35
2	Beam optics study of a negative ion source for neutral beam injection application at ASIPP. Fusion Engineering and Design, 2017, 117, 93-99.	1.0	14
3	Influence of the configuration of the magnetic filter field on the discharge structure in the RF driven negative ion source prototype for fusion. AIP Conference Proceedings, 2017, , .	0.3	13
4	Performance of the BATMAN RF source with a large racetrack shaped driver. AIP Conference Proceedings, 2017, , .	0.3	4
5	Evaluation of beam divergence of a negative hydrogen ion beam using Doppler shift spectroscopy diagnostics. Journal of Applied Physics, 2018, 123, 043307.	1.1	9
6	The particle tracking code BBCNI for negative ion beams and its application to BATMAN upgrade. AIP Conference Proceedings, 2018, , .	0.3	4
7	First beam extraction experiments at BATMAN upgrade. AIP Conference Proceedings, 2018, , .	0.3	8
8	Spectroscopic investigations of the ion source at BATMAN upgrade. AIP Conference Proceedings, 2018, , .	0.3	19
9	RF simulation and improvements of an ion source test facility at HUST. Fusion Engineering and Design, 2018, 132, 29-36.	1.0	5
10	The particle tracking code BBCNI for large negative ion beams and their diagnostics. Plasma Physics and Controlled Fusion, 2019, 61, 105012.	0.9	11
11	3D-PIC modelling of a low temperature plasma sheath with wall emission of negative particles and its application to NBI sources. Journal Physics D: Applied Physics, 2019, 52, 235202.	1.3	19
12	Negative ion beam extraction in volume mode on the RF negative ion source at ASIPP. Fusion Engineering and Design, 2020, 161, 112056.	1.0	3
13	Beam formation and transport in the BATMAN Upgrade test facility. Fusion Engineering and Design, 2020, 153, 111507.	1.0	4
14	Beamlet scraping and its influence on the beam divergence at the BATMAN Upgrade test facility. Review of Scientific Instruments, 2020, 91, 013509.	0.6	11
15	Improved understanding of beamlet deflection in ITER-relevant negative ion beams through forward modelling of Beam Emission Spectroscopy. Fusion Engineering and Design, 2020, 153, 111486.	1.0	4
16	Impact of operational parameters on single beamlet deflection in a negative ion source for NBI applications. AIP Conference Proceedings, 2021, , .	0.3	0
17	First direct comparison of whole beam and single beamlet divergences in a negative ion source with simultaneous BES and CFC tile calorimetry measurements. AIP Advances, 2021, 11, .	0.6	10
18	RF power transfer efficiency and plasma parameters of low pressure high power ICPs. Journal Physics D: Applied Physics, 2021, 54, 155202.	1.3	24

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19	Long-pulse diagnostic calorimeter for the negative ion source testbed BATMAN upgrade. Review of Scientific Instruments, 2021, 92, 023504.	0.6	4
20	Design and first results of a retractable 1D-CFC beam target for BATMAN upgrade. Fusion Engineering and Design, 2021, 165, 112225.	1.0	5
21	Self-consistent fluid model for simulating power coupling in hydrogen ICPs at 1ÂMHz including the nonlinear RF Lorentz force. Plasma Sources Science and Technology, 2021, 30, 065011.	1.3	9
22	Effects of the magnetic field topology on the co-extracted electron current in a negative ion source for fusion. Journal of Applied Physics, 2021, 130, .	1.1	9
23	NNBI for ITER: status of long pulses in deuterium at the test facilities BATMAN Upgrade and ELISE. Nuclear Fusion, 2021, 61, 096023.	1.6	19
24	Computational design of magnetic beamlet deflection correction for NNBI. Fusion Engineering and Design, 2021, 173, 112837.	1.0	10
25	Beam loss analysis for the negative ion source at HUST. Fusion Engineering and Design, 2021, 173, 112853.	1.0	5
26	Characteristics of extracted ion beam from a cesium-free negative ion source using sheet plasma. Review of Scientific Instruments, 2020, 91, 113302.	0.6	4
27	Reconstruction of the large multi-aperture beam via IR calorimetry technique and beam emission spectroscopy at the ELISE test facility. Nuclear Fusion, 2020, 60, 066025.	1.6	9
28	On suitable experiments for demonstrating the feasibility of the beam-driven plasma neutraliser for neutral beam injectors for fusion reactors. Nuclear Fusion, 2022, 62, 066038.	1.6	5
29	Emission spectroscopy of negative hydrogen ion sources: From VUV to IR. Review of Scientific Instruments, 2021, 92, 123510.	0.6	6
30	Numerical study of stripping and stray particles for the one-RF-driver NBI negative ion source prototype of CFETR. Plasma Physics and Controlled Fusion, 2022, 64, 115005.	0.9	4
31	As built design of the control systems of the ITER full-size beam source SPIDER in the neutral beam test facility - A critical review. Fusion Engineering and Design, 2023, 191, 113624.	1.0	1
32	Heat loads on the accelerator grids of the ITER HNB prototype. Fusion Engineering and Design, 2023, 192, 113621.	1.0	1
33	TALIF at H^â/sup> ion sources for the determination of the density and EDF of atomic hydrogen. Journal Physics D: Applied Physics, 2023, 56, 155201.	1.3	2