

Detlef KÃ¼chler

List of Publications by Year in descending order

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37
papers

607
citations

1040056

9
h-index

580821

25
g-index

38
all docs

38
docs citations

38
times ranked

938
citing authors

#	ARTICLE	IF	CITATIONS
1	A Large Hadron Electron Collider at CERN Report on the Physics and Design Concepts for Machine and Detector. Journal of Physics G: Nuclear and Particle Physics, 2012, 39, 075001.	3.6	406
2	Modelling of ion accumulation processes in EBIS and EBIT. Plasma Sources Science and Technology, 1998, 7, 441-457.	3.1	26
3	Ion-stimulated gas desorption yields of electropolished, chemically etched, and coated (Au, Ag, Pd,) Tj ETQq1 1 0.784314 rgBT /Overlo Physical Review Special Topics: Accelerators and Beams, 2005, 8, .	1.8	21
4	Experimental widths of $K\pm$ x-ray lines in solid-state 3d elements. X-Ray Spectrometry, 1998, 27, 177-182.	1.4	14
5	Multipurpose superconducting electron cyclotron resonance ion source, the European roadmap to third-generation electron cyclotron resonance ion sources. Review of Scientific Instruments, 2006, 77, 03A303.	1.3	14
6	Commissioning of the new H \hat{a} source for Linac4. Review of Scientific Instruments, 2010, 81, 02A708.	1.3	14
7	A status report of the multipurpose superconducting electron cyclotron resonance ion source (invited). Review of Scientific Instruments, 2008, 79, 02A326.	1.3	10
8	Energy dispersive X-ray spectroscopy for ECR plasma diagnostics. Hyperfine Interactions, 1996, 99, 225-234.	0.5	9
9	A radio frequency driven H[sup \hat{a}] source for Linac4. Review of Scientific Instruments, 2008, 79, 02A504.	1.3	9
10	Effect of double frequency heating on the lead afterglow beam currents of an electron cyclotron resonance ion source. Physical Review Accelerators and Beams, 2017, 20, .	1.6	9
11	Determination of ion charge state distributions in krypton and cobalt electron cyclotron resonance plasmas by wavelength dispersive x-ray spectroscopy. Review of Scientific Instruments, 1998, 69, 1167-1169.	1.3	8
12	Studies on ECR4 for the CERN ion program. Review of Scientific Instruments, 2002, 73, 564-566.	1.3	7
13	High duty factor plasma generator for CERN \hat{e} ™s Superconducting Proton Linac. Review of Scientific Instruments, 2010, 81, 02A723.	1.3	7
14	Measurement of ion charge state distributions inside electron cyclotron resonance neon and chlorine plasmas by x-ray spectroscopy. Review of Scientific Instruments, 1998, 69, 1367-1371.	1.3	6
15	GTS-LHC: A New Source For The LHC Ion Injector Chain. AIP Conference Proceedings, 2005, , .	0.4	6
16	Magnetic Cusp Configuration of the SPL Plasma Generator. AIP Conference Proceedings, 2011, , .	0.4	6
17	Heavy-ion induced desorption yields of cryogenic surfaces bombarded with 4.2 MeV lead ions. Physical Review Special Topics: Accelerators and Beams, 2011, 14, .		
18	The Gamma Factory Project at CERN: a New Generation of Research Tools Made of Light. Acta Physica Polonica B, Proceedings Supplement, 2020, 13, 645.	0.1	4

#	ARTICLE	IF	CITATIONS
19	Wavelength dispersive measurements of characteristic K X-rays of an ECR krypton plasma. , 1997, 108, 51-58.		3
20	H ⁺ Source Developments at CERN. AIP Conference Proceedings, 2005, , .	0.4	3
21	Finite element thermal study of the Linac4 plasma generator. Review of Scientific Instruments, 2010, 81, 02A722.	1.3	3
22	Preparation of a primary argon beam for the CERN fixed target physics. Review of Scientific Instruments, 2014, 85, 02A954.	1.3	3
23	Studies of the beam extraction system of the GTS-LHC electron cyclotron resonance ion source at CERN. Review of Scientific Instruments, 2016, 87, 02B923.	1.3	3
24	Numerical study of the thermal performance of the CERN Linac3 ion source miniature oven. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 901, 21-31.	1.6	3
25	Effect of a biased probe on the afterglow operation of an ECR4 ion source. Review of Scientific Instruments, 2000, 71, 863-865.	1.3	2
26	Lead evaporation instabilities and failure mechanisms of the micro oven at the GTS-LHC ECR ion source at CERN. Review of Scientific Instruments, 2020, 91, 013320.	1.3	2
27	H ⁺ source developments at CERN. Review of Scientific Instruments, 2006, 77, 03A521.	1.3	1
28	Towards An H ⁺ RF Source for Future CERN Accelerator Projects. AIP Conference Proceedings, 2007, , .	0.4	1
29	Heavy-ion induced desorption yields of amorphous carbon films bombarded with $^{4.2}\text{He}^{+}$ ions at 10 MeV. Physical Review Special Topics: Accelerators and Beams, 2011, 14, .		
30	Upgrade of the beam extraction system of the GTS-LHC electron cyclotron resonance ion source at CERN. Review of Scientific Instruments, 2016, 87, 02B912.	1.3	1
31	The 2017 Xe run at CERN Linac3: Measurements and beam dynamics simulations. Review of Scientific Instruments, 2018, 89, 123301.	1.3	1
32	New operational beam for the CERN heavy ion program. Review of Scientific Instruments, 2004, 75, 1881-1883.	1.3	0
33	Characterisation And Performance Of The CERN ECR4 Ion Source. AIP Conference Proceedings, 2005, , .	0.4	0
34	Ions for LHC: Beam Physics and Engineering Challenges. , 0, , .		0
35	Light ion production for a future radiobiological facility at CERN: Preliminary studies. Review of Scientific Instruments, 2014, 85, 02A923.	1.3	0
36	Study of the micro oven for the Linac3 heavy ion source. AIP Conference Proceedings, 2018, , .	0.4	0

#	ARTICLE	IF	CITATIONS
37	Experiments to improve the performance of the GTS-LHC ECR ion source. Journal of Physics: Conference Series, 2022, 2244, 012020.	0.4	0