

# Detlef KÃ¼chler

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Experiments to improve the performance of the GTS-LHC ECR ion source. Journal of Physics: Conference Series, 2022, 2244, 012020.	0.4	0
2	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
3	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
4	The 2017 Xe run at CERN Linac3: Measurements and beam dynamics simulations. Review of Scientific Instruments, 2018, 89, 123301.	1.3	1
5	Study of the micro oven for the Linac3 heavy ion source. AIP Conference Proceedings, 2018, , .	0.4	0
6	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
7	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
8	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
9	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
10	Light ion production for a future radiobiological facility at CERN: Preliminary studies. Review of Scientific Instruments, 2014, 85, 02A923.	1.3	0
11	Preparation of a primary argon beam for the CERN fixed target physics. Review of Scientific Instruments, 2014, 85, 02A954.	1.3	3
12	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
13	Heavy-ion induced desorption yields of cryogenic surfaces bombarded with $4.2 \text{ MeV/u}$ lead ions. Physical Review Special Topics: Accelerators and Beams, 2011, 14, .		
14	Heavy-ion induced desorption yields of amorphous carbon films bombarded with $4.2 \text{ MeV/u}$ lead ions. Physical Review Special Topics: Accelerators and Beams, 2011, 14, .		
15	Magnetic Cusp Configuration of the SPL Plasma Generator. AIP Conference Proceedings, 2011, , .	0.4	6
16	Commissioning of the new H <sup>+</sup> source for Linac4. Review of Scientific Instruments, 2010, 81, 02A708.	1.3	14
17	High duty factor plasma generator for CERN's Superconducting Proton Linac. Review of Scientific Instruments, 2010, 81, 02A723.	1.3	7
18	Finite element thermal study of the Linac4 plasma generator. Review of Scientific Instruments, 2010, 81, 02A722.	1.3	3

#	ARTICLE	IF	CITATIONS
19	A status report of the multipurpose superconducting electron cyclotron resonance ion source (invited). <i>Review of Scientific Instruments</i> , 2008, 79, 02A326.	1.3	10
20	A radio frequency driven H <sup>+</sup> source for Linac4. <i>Review of Scientific Instruments</i> , 2008, 79, 02A504.	1.3	9
21	Towards An H <sup>+</sup> RF Source for Future CERN Accelerator Projects. <i>AIP Conference Proceedings</i> , 2007, , .	0.4	1
22	Multipurpose superconducting electron cyclotron resonance ion source, the European roadmap to third-generation electron cyclotron resonance ion sources. <i>Review of Scientific Instruments</i> , 2006, 77, 03A303.	1.3	14
23	H <sup>+</sup> source developments at CERN. <i>Review of Scientific Instruments</i> , 2006, 77, 03A521.	1.3	1
24	H <sup>+</sup> Source Developments at CERN. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	3
25	GTS-LHC: A New Source For The LHC Ion Injector Chain. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	6
26	Characterisation And Performance Of The CERN ECR4 Ion Source. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	0
27	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
28	New operational beam for the CERN heavy ion program. <i>Review of Scientific Instruments</i> , 2004, 75, 1881-1883.	1.3	0
29	Studies on ECR4 for the CERN ion program. <i>Review of Scientific Instruments</i> , 2002, 73, 564-566.	1.3	7
30	Effect of a biased probe on the afterglow operation of an ECR4 ion source. <i>Review of Scientific Instruments</i> , 2000, 71, 863-865.	1.3	2
31	Experimental widths of K <sub>α</sub> x-ray lines in solid-state 3d elements. <i>X-Ray Spectrometry</i> , 1998, 27, 177-182.	1.4	14
32	Modelling of ion accumulation processes in EBIS and EBIT. <i>Plasma Sources Science and Technology</i> , 1998, 7, 441-457.	3.1	26
33	Determination of ion charge state distributions in krypton and cobalt electron cyclotron resonance plasmas by wavelength dispersive x-ray spectroscopy. <i>Review of Scientific Instruments</i> , 1998, 69, 1167-1169.	1.3	8
34	Measurement of ion charge state distributions inside electron cyclotron resonance neon and chlorine plasmas by x-ray spectroscopy. <i>Review of Scientific Instruments</i> , 1998, 69, 1367-1371.	1.3	6
35	Wavelength dispersive measurements of characteristic K X-rays of an ECR krypton plasma. , 1997, 108, 51-58.		3
36	Energy dispersive X-ray spectroscopy for ECR plasma diagnostics. <i>Hyperfine Interactions</i> , 1996, 99, 225-234.	0.5	9

#	ARTICLE	IF	CITATIONS
37	ions for LHC: Beam Physics and Engineering Challenges. , 0, , .		0