

Alfred Priller

List of Publications by Year in descending order

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58
papers

1,235
citations

394286

19
h-index

395590

33
g-index

59
all docs

59
docs citations

59
times ranked

777
citing authors

#	ARTICLE	IF	CITATIONS
1	Natural and anthropogenic ²³⁶ U in environmental samples. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 2246-2250.	0.6	166
2	Accelerator mass spectrometry of heavy long-lived radionuclides. International Journal of Mass Spectrometry, 2003, 223-224, 713-732.	0.7	108
3	Analysis and application of heavy isotopes in the environment. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 1045-1049.	0.6	68
4	Pushing the Precision Limit of ¹⁴ C AMS. Radiocarbon, 2004, 46, 5-16.	0.8	55
5	VERA, an AMS facility for all isotopes. Nuclear Instruments & Methods in Physics Research B, 2004, 223-224, 67-71.	0.6	52
6	Comparative biotransformation studies of MeIQx and PhIP in animal models and humans. Cancer Letters, 1999, 143, 161-165.	3.2	48
7	Disentangling Geomagnetic and Precipitation Signals in an 80-kyr Chinese Loess Record of ¹⁰ Be. Radiocarbon, 2007, 49, 137-158.	0.8	47
8	Experimental and Theoretical Evidence for Long-Lived Molecular Hydrogen Anions H ₂ ⁻ and D ₂ ⁻ . Physical Review Letters, 2005, 94, 223003.	2.9	40
9	¹⁸² Hf, a new isotope for AMS. Nuclear Instruments & Methods in Physics Research B, 2004, 223-224, 823-828.	0.6	35
10	Cosmogenic ²⁶ Al in the atmosphere and the prospect of a ²⁶ Al/ ¹⁰ Be chronometer to date old ice. Earth and Planetary Science Letters, 2009, 287, 453-462.	1.8	29
11	Opportunities and limits of AMS with 3-MV tandem accelerators. Nuclear Instruments & Methods in Physics Research B, 2005, 240, 445-451.	0.6	27
12	He stripping for AMS of ²³⁶ U and other actinides using a 3 MV tandem accelerator. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 458-464.	0.6	25
13	AMS measurements of ⁴¹ Ca and ⁵⁵ Fe at VERA – two radionuclides of astrophysical interest. Nuclear Instruments & Methods in Physics Research B, 2007, 259, 677-682.	0.6	23
14	Evidence for Early Human Presence at High Altitudes in the Tsetal Alps (Austria/Italy). Radiocarbon, 2014, 56, 923-947.	0.8	23
15	The actinide beamline at VERA. Nuclear Instruments & Methods in Physics Research B, 2019, 458, 82-89.	0.6	23
16	AMS ¹⁴ C Dating of Equipment from the Iceman and of Spruce Logs from the Prehistoric Salt Mines of Hallstatt. Radiocarbon, 1999, 41, 183-197.	0.8	22
17	The ¹² C TOF detector for isobar separation at ion energies below 1 MeV/amu. Nuclear Instruments & Methods in Physics Research B, 2005, 240, 490-494.	0.6	21
18	A new IBA-AMS laboratory at the Comenius University in Bratislava (Slovakia). Nuclear Instruments & Methods in Physics Research B, 2015, 342, 321-326.	0.6	20

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19	Systematic Investigations of ^{14}C Measurements at the Vienna Environmental Research Accelerator. Radiocarbon, 1997, 40, 255-263.	0.8	19
20	The ILIAMS project – An RFQ ion beam cooler for selective laser photodetachment at VERA. Nuclear Instruments & Methods in Physics Research B, 2019, 456, 213-217.	0.6	19
21	Accelerator mass spectrometry of particle-bound ^{10}Be . Nuclear Instruments & Methods in Physics Research B, 2004, 223-224, 601-607.	0.6	18
22	PIXE measurements of Renaissance silverpoint drawings at VERA. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 2279-2285.	0.6	18
23	AMS of ^{36}Cl with the VERA 3MV tandem accelerator. Nuclear Instruments & Methods in Physics Research B, 2013, 294, 115-120.	0.6	17
24	Comparison of methods for the detection of ^{10}Be with AMS and a new approach based on a silicon nitride foil stack. International Journal of Mass Spectrometry, 2019, 444, 116175.	0.7	16
25	Selective laser photodetachment of intense atomic and molecular negative ion beams with the ILIAS RFQ ion beam cooler. International Journal of Mass Spectrometry, 2017, 415, 9-17.	0.7	15
26	Methodological aspects of atmospheric ^{14}CO measurements with AMS. Nuclear Instruments & Methods in Physics Research B, 2000, 172, 530-536.	0.6	14
27	The ILIAS project for selective isobar suppression by laser photodetachment. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 217-221.	0.6	14
28	Highly sensitive ^{26}Al measurements by Ion-Laser-InterAction Mass Spectrometry. International Journal of Mass Spectrometry, 2021, 465, 116576.	0.7	14
29	Developments towards detection of ^{135}Cs at VERA. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 440-444.	0.6	13
30	^{36}Cl exposure dating with a 3-MV tandem. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 744-747.	0.6	12
31	Iodine Isotopes (^{127}I and ^{129}I) in Aerosols at High Altitude Alp Stations. Environmental Science & Technology, 2012, 46, 8637-8644.	4.6	12
32	^{36}Cl in a new light: AMS measurements assisted by ion-laser interaction. Nuclear Instruments & Methods in Physics Research B, 2019, 456, 163-168.	0.6	12
33	A detailed 2-year record of atmospheric ^{14}CO in the temperate northern hemisphere. Nuclear Instruments & Methods in Physics Research B, 2000, 161-163, 780-785.	0.6	11
34	AMS measurements of ^{26}Al in quartz to assess the cosmic ray background for the geochemical solar neutrino experiment LOREX. Nuclear Instruments & Methods in Physics Research B, 2004, 223-224, 660-667.	0.6	11
35	Recent advances in AMS of ^{36}Cl with a 3-MV-tandem. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 3188-3191.	0.6	11
36	^{182}Hf – FROM GEOPHYSICS TO ASTROPHYSICS. Nuclear Physics A, 2005, 758, 340-343.	0.6	10

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37	Calorimetric low temperature detectors for low-energetic heavy ions and their application in accelerator mass spectrometry. Review of Scientific Instruments, 2009, 80, 103304.	0.6	10
38	Isobar separation of ^{93}Zr and ^{93}Nb at 24 MeV with a new multi-anode ionization chamber. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 201-206.	0.6	10
39	Magnetic Field Induced Changes in the Shoot and Root Proteome of Barley (<i>Hordeum vulgare</i> L.). Frontiers in Plant Science, 2021, 12, 622795.	1.7	10
40	Ion source refinement at VERA. Nuclear Instruments & Methods in Physics Research B, 2007, 259, 94-99.	0.6	9
41	The new injection beamline at VERA. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 824-826.	0.6	9
42	Carbon background and ionization yield of an AMS system during ^{14}C measurements of microgram-size graphite samples. Nuclear Instruments & Methods in Physics Research B, 2013, 294, 335-339.	0.6	9
43	The quest for AMS of ^{182}Hf – why poor gas gives pure beams. EPJ Web of Conferences, 2020, 232, 02003.	0.1	9
44	5 YEARS OF ION-LASER INTERACTION MASS SPECTROMETRY – STATUS AND PROSPECTS OF ISOBAR SUPPRESSION IN AMS BY LASERS. Radiocarbon, 2022, 64, 555-568.	0.8	9
45	Analysis of doubly-charged negative molecules by accelerator mass spectrometry. Nuclear Instruments & Methods in Physics Research B, 2004, 223-224, 221-226.	0.6	8
46	Preliminary AMS measurements of ^{10}Be at the CENTA facility. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 139-142.	0.6	8
47	Identification of the SiF_6^- by accelerator mass spectrometry and a fully relativistic computation of its photodetachment spectrum. Physical Review A, 2008, 77, .	1.0	7
48	A New UV Oxidation Setup for Small Radiocarbon Samples in Solution. Radiocarbon, 2013, 55, 373-382.	0.8	7
49	Accelerator mass spectrometry of molecular ions. Nuclear Instruments & Methods in Physics Research B, 2005, 240, 468-473.	0.6	6
50	First tests with a natural diamond detector (NDD) – a possibly powerful tool for AMS. Nuclear Instruments & Methods in Physics Research B, 2004, 223-224, 205-208.	0.6	5
51	Exotic negative molecules in AMS. Nuclear Instruments & Methods in Physics Research B, 2007, 259, 71-75.	0.6	5
52	Comparison of detector systems for the separation of ^{36}Cl and ^{36}S with a 3-MV tandem. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 847-850.	0.6	5
53	Light induced suppression of sulfur in a cesium sputter ion source. International Journal of Mass Spectrometry, 2012, 315, 55-59.	0.7	5
54	Novel ^{90}Sr analysis of environmental samples by Ion-Laser InterAction Mass Spectrometry. Analytical Methods, 2022, 14, 2732-2738.	1.3	3

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55	Detection of sputtered molecular doubly charged anions: a comparison of secondary-ion mass spectrometry (SIMS) and accelerator mass spectrometry (AMS). Applied Surface Science, 2004, 231-232, 117-121.	3.1	2
56	A study of the tandem-terminal-stripper reaction $1\text{H}(12\text{C},^{13})13\text{N}$ with accelerator mass spectrometry. Nuclear Instruments & Methods in Physics Research B, 2005, 240, 495-499.	0.6	2
57	A New UV Oxidation Setup for Small Radiocarbon Samples in Solution. Radiocarbon, 2013, 55, .	0.8	2
58	Accelerator mass spectrometry of particle-bound 10Be . Nuclear Instruments & Methods in Physics Research B, 2004, 223-224, 601-601.	0.6	0