

# 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	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
2	Novel <sup>90</sup> Sr analysis of environmental samples by Ion-Laser InterAction Mass Spectrometry. Analytical Methods, 2022, 14, 2732-2738.	1.3	3
3	Magnetic Field Induced Changes in the Shoot and Root Proteome of Barley (Hordeum vulgare L.). Frontiers in Plant Science, 2021, 12, 622795.	1.7	10
4	Highly sensitive <sup>26</sup> Al measurements by Ion-Laser-InterAction Mass Spectrometry. International Journal of Mass Spectrometry, 2021, 465, 116576.	0.7	14
5	The quest for AMS of <sup>182</sup> Hf – why poor gas gives pure beams. EPJ Web of Conferences, 2020, 232, 02003.	0.1	9
6	Comparison of methods for the detection of <sup>10</sup> 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
7	<sup>36</sup> 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
8	The actinide beamline at VERA. Nuclear Instruments & Methods in Physics Research B, 2019, 458, 82-89.	0.6	23
9	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
10	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
11	The ILIAS project for selective isobar suppression by laser photodetachment. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 217-221.	0.6	14
12	He stripping for AMS of <sup>236</sup> 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	Developments towards detection of <sup>135</sup> Cs at VERA. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 440-444.	0.6	13
14	Preliminary AMS measurements of <sup>10</sup> Be at the CENTA facility. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 139-142.	0.6	8
15	Isobar separation of <sup>93</sup> Zr and <sup>93</sup> 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
16	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
17	Evidence for Early Human Presence at High Altitudes in the T-atal Alps (Austria/Italy). Radiocarbon, 2014, 56, 923-947.	0.8	23
18	AMS of <sup>36</sup> Cl with the VERA 3MV tandem accelerator. Nuclear Instruments & Methods in Physics Research B, 2013, 294, 115-120.	0.6	17

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19	Carbon background and ionization yield of an AMS system during $^{14}\text{C}$ measurements of microgram-size graphite samples. Nuclear Instruments & Methods in Physics Research B, 2013, 294, 335-339.	0.6	9
20	A New UV Oxidation Setup for Small Radiocarbon Samples in Solution. Radiocarbon, 2013, 55, 373-382.	0.8	7
21	A New UV Oxidation Setup for Small Radiocarbon Samples in Solution. Radiocarbon, 2013, 55, .	0.8	2
22	Iodine Isotopes ( $^{127}\text{I}$ and $^{129}\text{I}$ ) in Aerosols at High Altitude Alp Stations. Environmental Science & Technology, 2012, 46, 8637-8644.	4.6	12
23	Light induced suppression of sulfur in a cesium sputter ion source. International Journal of Mass Spectrometry, 2012, 315, 55-59.	0.7	5
24	Recent advances in AMS of $^{36}\text{Cl}$ with a 3-MV-tandem. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 3188-3191.	0.6	11
25	The new injection beamline at VERA. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 824-826.	0.6	9
26	Analysis and application of heavy isotopes in the environment. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 1045-1049.	0.6	68
27	$^{36}\text{Cl}$ exposure dating with a 3-MV tandem. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 744-747.	0.6	12
28	Comparison of detector systems for the separation of $^{36}\text{Cl}$ and $^{36}\text{S}$ with a 3-MV tandem. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 847-850.	0.6	5
29	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
30	Cosmogenic $^{26}\text{Al}$ in the atmosphere and the prospect of a $^{26}\text{Al}/^{10}\text{Be}$ chronometer to date old ice. Earth and Planetary Science Letters, 2009, 287, 453-462.	1.8	29
31	Natural and anthropogenic $^{236}\text{U}$ in environmental samples. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 2246-2250.	0.6	166
32	PIXE measurements of Renaissance silverpoint drawings at VERA. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 2279-2285.	0.6	18
33	Identification of the $\text{SiF}_6^-$ by accelerator mass spectrometry and a fully relativistic computation of its photodetachment spectrum. Physical Review A, 2008, 77, .	1.0	7
34	Disentangling Geomagnetic and Precipitation Signals in an 80-kyr Chinese Loess Record of $^{10}\text{Be}$ . Radiocarbon, 2007, 49, 137-158.	0.8	47
35	AMS measurements of $^{41}\text{Ca}$ and $^{55}\text{Fe}$ at VERA – two radionuclides of astrophysical interest. Nuclear Instruments & Methods in Physics Research B, 2007, 259, 677-682.	0.6	23
36	Ion source refinement at VERA. Nuclear Instruments & Methods in Physics Research B, 2007, 259, 94-99.	0.6	9

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37	Exotic negative molecules in AMS. Nuclear Instruments & Methods in Physics Research B, 2007, 259, 71-75.	0.6	5
38	Accelerator mass spectrometry of molecular ions. Nuclear Instruments & Methods in Physics Research B, 2005, 240, 468-473.	0.6	6
39	A study of the tandem-terminal-stripper reaction $1\text{H}(12\text{C},\hat{1}^3)13\text{N}$ with accelerator mass spectrometry. Nuclear Instruments & Methods in Physics Research B, 2005, 240, 495-499.	0.6	2
40	Opportunities and limits of AMS with 3-MV tandem accelerators. Nuclear Instruments & Methods in Physics Research B, 2005, 240, 445-451.	0.6	27
41	The $\hat{1}^3$ TOF detector for isobar separation at ion energies below 1MeV/amu. Nuclear Instruments & Methods in Physics Research B, 2005, 240, 490-494.	0.6	21
42	$182\text{Hf}$ " FROM GEOPHYSICS TO ASTROPHYSICS. Nuclear Physics A, 2005, 758, 340-343.	0.6	10
43	Experimental and Theoretical Evidence for Long-Lived Molecular Hydrogen Anions $\text{H}_2^{\hat{1}^-}$ and $\text{D}_2^{\hat{1}^-}$ . Physical Review Letters, 2005, 94, 223003.	2.9	40
44	Pushing the Precision Limit of $^{14}\text{C}$ AMS. Radiocarbon, 2004, 46, 5-16.	0.8	55
45	VERA, an AMS facility for "all" isotopes. Nuclear Instruments & Methods in Physics Research B, 2004, 223-224, 67-71.	0.6	52
46	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
47	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
48	Accelerator mass spectrometry of particle-bound $10\text{Be}$ . Nuclear Instruments & Methods in Physics Research B, 2004, 223-224, 601-607.	0.6	18
49	AMS measurements of $^{26}\text{Al}$ 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
50	$182\text{Hf}$ , a new isotope for AMS. Nuclear Instruments & Methods in Physics Research B, 2004, 223-224, 823-828.	0.6	35
51	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
52	Accelerator mass spectrometry of particle-bound $10\text{Be}$ . Nuclear Instruments & Methods in Physics Research B, 2004, 223-224, 601-601.	0.6	0
53	Accelerator mass spectrometry of heavy long-lived radionuclides. International Journal of Mass Spectrometry, 2003, 223-224, 713-732.	0.7	108
54	A detailed 2-year record of atmospheric $^{14}\text{CO}$ in the temperate northern hemisphere. Nuclear Instruments & Methods in Physics Research B, 2000, 161-163, 780-785.	0.6	11

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55	Methodological aspects of atmospheric <sup>14</sup> C measurements with AMS. Nuclear Instruments & Methods in Physics Research B, 2000, 172, 530-536.	0.6	14
56	AMS <sup>14</sup> 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
57	Comparative biotransformation studies of MeIQx and PhIP in animal models and humans. Cancer Letters, 1999, 143, 161-165.	3.2	48
58	Systematic Investigations of <sup>14</sup> C Measurements at the Vienna Environmental Research Accelerator. Radiocarbon, 1997, 40, 255-263.	0.8	19