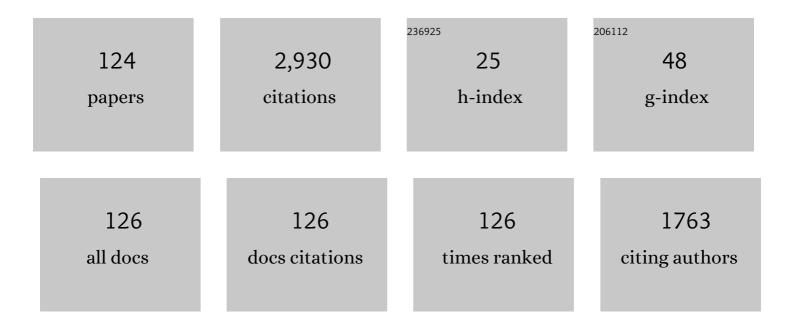
Robin Golser

List of Publications by Year in descending order

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#	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.	1.8	9
2	Anthropogenic 236U and 233U in the Baltic Sea: Distributions, source terms, and budgets. Water Research, 2022, 210, 117987.	11.3	5
3	Developing Accelerator Mass Spectrometry Capabilities for Anthropogenic Radionuclide Analysis to Extend the Set of Oceanographic Tracers. Frontiers in Marine Science, 2022, 9, .	2.5	9
4	Novel ⁹⁰ Sr analysis of environmental samples by Ion-Laser InterAction Mass Spectrometry. Analytical Methods, 2022, 14, 2732-2738.	2.7	3
5	Deciphering sources of U contamination using isotope ratio signatures in the Loire River sediments: Exploring the relevance of 233U/236U and stable Pb isotope ratios. Chemosphere, 2022, 307, 135658.	8.2	3
6	An unknown source of reactor radionuclides in the Baltic Sea revealed by multi-isotope fingerprints. Nature Communications, 2021, 12, 823.	12.8	26
7	On the Quality Control for the Determination of Ultratrace-Level ²³⁶ U and ²³³ U in Environmental Samples by Accelerator Mass Spectrometry. Analytical Chemistry, 2021, 93, 3362-3369.	6.5	11
8	70-Year Anthropogenic Uranium Imprints of Nuclear Activities in Baltic Sea Sediments. Environmental Science & Technology, 2021, 55, 8918-8927.	10.0	22
9	Highly sensitive 26Al measurements by Ion-Laser-InterAction Mass Spectrometry. International Journal of Mass Spectrometry, 2021, 465, 116576.	1.5	14
10	The quest for AMS of ¹⁸² Hf – why poor gas gives pure beams. EPJ Web of Conferences, 2020, 232, 02003.	0.3	9
11	Pushing Limits of ICP–MS/MS for the Determination of Ultralow ²³⁶ U/ ²³⁸ U Isotope Ratios. Analytical Chemistry, 2020, 92, 7869-7876.	6.5	16
12	Comparison of methods for the detection of 10Be with AMS and a new approach based on a silicon nitride foil stack. International Journal of Mass Spectrometry, 2019, 444, 116175.	1.5	16
13	36Cl in a new light: AMS measurements assisted by ion-laser interaction. Nuclear Instruments & Methods in Physics Research B, 2019, 456, 163-168.	1.4	12
14	The actinide beamline at VERA. Nuclear Instruments & Methods in Physics Research B, 2019, 458, 82-89.	1.4	23
15	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 Limits on Supernova-Associated <mini:math <="" td="" xmins:mmi="http://www.w3.org/1998/Math/MathML"><td>1.4</td><td>19</td></mini:math>	1.4	19
16	display="inline"> <mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Fe</mml:mi></mml:mrow><mml:mp /><mml:none /><mml:mrow><mml:mn>60</mml:mn></mml:mrow></mml:none </mml:mp </mml:mmultiscripts><mml:mo>/</mml:mo> /><mml:none< td=""><td>•</td><td>mm2bmrow><</td></mml:none<></mml:mrow>	•	mm2bmrow><
17	/> <mml:mrow><mml:mn>26</mml:mn></mml:mrow> N 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.	1.5	15
18	Plutonium Isotopes (^{239–241} Pu) Dissolved in Pacific Ocean Waters Detected by Accelerator Mass Spectrometry: No Effects of the Fukushima Accident Observed. Environmental Science & Technology, 2017, 51, 2031-2037.	10.0	21

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19	Reconstruction of the temporal distribution of 236U/238U in the Northwest Pacific Ocean using a coral core sample from the Kuroshio Current area. Marine Chemistry, 2017, 190, 28-34.	2.3	13
20	Anthropogenic ²³⁶ U in Danish Seawater: Global Fallout versus Reprocessing Discharge. Environmental Science & Technology, 2017, 51, 6867-6876.	10.0	24
21	Radiocarbon concentration in tree-ring samples collected in the south-west Slovakia (1974–2013). Applied Radiation and Isotopes, 2017, 126, 58-60.	1.5	12
22	Twenty Years of VERA: Toward a Universal Facility for Accelerator Mass Spectrometry. Nuclear Physics News, 2017, 27, 29-34.	0.4	4
23	Preparation Methods of μg Carbon Samples for ¹⁴ C MeasuremenTS. Radiocarbon, 2017, 59, 803-814.	1.8	14
24	Multiactinide Analysis with Accelerator Mass Spectrometry for Ultratrace Determination in Small Samples: Application to an in Situ Radionuclide Tracer Test within the Colloid Formation and Migration Experiment at the Grimsel Test Site (Switzerland). Analytical Chemistry, 2017, 89, 7182-7189.	6.5	9
25	The Link Between the Local Bubble and Radioisotopic Signatures on Earth. , 2017, , .		1
26	Formation probability of metastable molecular hydrogen anions H m D n â^' (m , n = 0–3 and m + n = 2, 3) in sputtering. International Journal of Mass Spectrometry, 2016, 410, 52-56.	1.5	0
27	Recent near-Earth supernovae probed by global deposition of interstellar radioactive 60Fe. Nature, 2016, 532, 69-72.	27.8	205
28	Temporal and vertical distributions of anthropogenic ²³⁶ <scp>U</scp> in the <scp>J</scp> apan <scp>S</scp> ea using a coral core and seawater samples. Journal of Geophysical Research: Oceans, 2016, 121, 4-13.	2.6	30
29	Retrospective study of 14C concentration in the vicinity of NPP Jaslovské Bohunice using tree rings and the AMS technique. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 129-132.	1.4	24
30	The ILIAS project for selective isobar suppression by laser photodetachment. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 217-221.	1.4	14
31	He stripping for AMS of 236U and other actinides using a 3 MV tandem accelerator. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 458-464.	1.4	25
32	Developments towards detection of 135Cs at VERA. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 440-444.	1.4	13
33	Accelerator Mass Spectrometry of Actinides in Ground- and Seawater: An Innovative Method Allowing for the Simultaneous Analysis of U, Np, Pu, Am, and Cm Isotopes below ppq Levels. Analytical Chemistry, 2015, 87, 5766-5773.	6.5	31
34	Preliminary AMS measurements of 10Be at the CENTA facility. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 139-142.	1.4	8
35	Using the nuclear activation AMS method for determining chlorine in solids at ppb-levels and below. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 649-653.	1.4	1
36	On the effect of organic carbon on rehydroxylation (RHX) dating. Journal of Archaeological Science, 2015, 57, 92-97.	2.4	10

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37	Method for ²³⁶ U Determination in Seawater Using Flow Injection Extraction Chromatography and Accelerator Mass Spectrometry. Analytical Chemistry, 2015, 87, 7411-7417.	6.5	30
38	lsobar separation of 93Zr and 93Nb at 24 MeV with a new multi-anode ionization chamber. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 201-206.	1.4	10
39	Interlaboratory study of the ion source memory effect in 36Cl accelerator mass spectrometry. Nuclear Instruments & Methods in Physics Research B, 2014, 329, 22-29.	1.4	21
40	Metastable states of diatomic hydrogen anions. Journal of Physics: Conference Series, 2014, 488, 012034.	0.4	2
41	lodine-129 in Seawater Offshore Fukushima: Distribution, Inorganic Speciation, Sources, and Budget. Environmental Science & Technology, 2013, 47, 3091-3098.	10.0	193
42	AMS of 36Cl with the VERA 3MV tandem accelerator. Nuclear Instruments & Methods in Physics Research B, 2013, 294, 115-120.	1.4	17
43	Carbon background and ionization yield of an AMS system during 14C measurements of microgram-size graphite samples. Nuclear Instruments & Methods in Physics Research B, 2013, 294, 335-339.	1.4	9
44	Sequential Injection Method for Rapid and Simultaneous Determination of ²³⁶ U, ²³⁷ Np, and Pu Isotopes in Seawater. Analytical Chemistry, 2013, 85, 11026-11033.	6.5	36
45	A New UV Oxidation Setup for Small Radiocarbon Samples in Solution. Radiocarbon, 2013, 55, 373-382.	1.8	7
46	Cesium, iodine and tritium in NW Pacific waters – a comparison of the Fukushima impact with global fallout. Biogeosciences, 2013, 10, 5481-5496.	3.3	116
47	A New UV Oxidation Setup for Small Radiocarbon Samples in Solution. Radiocarbon, 2013, 55, .	1.8	2
48	The Chronology of Tell El-Daba: A Crucial Meeting Point of ¹⁴ C Dating, Archaeology, and Egyptology in the 2nd Millennium BC. Radiocarbon, 2012, 54, 407-422.	1.8	55
49	Light induced suppression of sulfur in a cesium sputter ion source. International Journal of Mass Spectrometry, 2012, 315, 55-59.	1.5	5
50	Recent advances in AMS of 36Cl with a 3-MV-tandem. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 3188-3191.	1.4	11
51	Sputtered molecular fluoride anions: HfF _{<i>n</i>} ^{â^'} and WF _{<i>n</i>} ^{â^'} . Surface and Interface Analysis, 2011, 43, 32-35.	1.8	6
52	The new injection beamline at VERA. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 824-826.	1.4	9
53	Analysis and application of heavy isotopes in the environment. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 1045-1049.	1.4	68
54	36Cl exposure dating with a 3-MV tandem. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 744-747.	1.4	12

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55	Comparison of detector systems for the separation of 36Cl and 36S with a 3-MV tandem. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 847-850.	1.4	5
56	Search for a superheavy nuclide with A=292 and neutron-deficient thorium isotopes in natural thorianite. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 1287-1290.	1.4	21
57	Studies on the Preparation of Small 14C Samples with an RGA and 13C-Enriched Material. Radiocarbon, 2010, 52, 1394-1404.	1.8	18
58	Precise measurement of the neutron capture reaction54Fe(n,γ)55Fe via AMS. Journal of Physics: Conference Series, 2010, 202, 012020.	0.4	2
59	Calorimetric low temperature detectors for low-energetic heavy ions and their application in accelerator mass spectrometry. Review of Scientific Instruments, 2009, 80, 103304.	1.3	10
60	Determination of the stellar (n,γ) cross section ofCa40with accelerator mass spectrometry. Physical Review C, 2009, 79, .	2.9	22
61	Characterization and improvement of thin natural diamond detectors for spectrometry of heavy ions below 1MeV/amu. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 590, 221-226.	1.6	2
62	Natural and anthropogenic 236U in environmental samples. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 2246-2250.	1.4	166
63	PIXE measurements of Renaissance silverpoint drawings at VERA. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 2279-2285.	1.4	18
64	lsobar suppression in AMS using laser photodetachment. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 4565-4568.	1.4	19
65	Applications of a compact ionization chamber in AMS at energies below 1MeV/amu. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 2213-2216.	1.4	21
66	Measurement of the stellar cross sections for the reactions ⁹ Be(n,γ) ¹⁰ Be and ¹³ C(n,γ) ¹⁴ C via AMS. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 014018.	3.6	22
67	Identification of the <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"><mml:mrow><mml:msup><mml:mrow><mml:msub><mml:mi>SiF</mml:mi><mn by accelerator mass spectrometry and a fully relativistic computation of its photodetachment spectrum. Physical Review A. 2008, 77.</mn </mml:msub></mml:mrow></mml:msup></mml:mrow></mml:math>	າl:mn>62.5	mm <mark>l:</mark> mn>
68	AMS measurements of 41Ca and 55Fe at VERA – two radionuclides of astrophysical interest. Nuclear Instruments & Methods in Physics Research B, 2007, 259, 677-682.	1.4	23
69	Ion source refinement at VERA. Nuclear Instruments & Methods in Physics Research B, 2007, 259, 94-99.	1.4	9
70	Exotic negative molecules in AMS. Nuclear Instruments & Methods in Physics Research B, 2007, 259, 71-75.	1.4	5
71	Sputtered gas-phase dianions detected by high-sensitivity mass spectrometry. Chemical Physics, 2006, 329, 222-229.	1.9	4
72	AMSA powerful tool for probing nucleosynthesis via long-lived radionuclides. European Physical Journal A, 2006, 27, 337-342.	2.5	10

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73	Lifetimes of the negative molecular hydrogen ions:H2â^',D2â^', andHDâ^'. Physical Review A, 2006, 73, .	2.5	29
74	Verification of long-lived molecular hydrogen anions (Hnâ^',Dnâ^',n=2,3) by secondary-ion mass spectrometry. Physical Review A, 2006, 73, .	2.5	17
75	Accelerator mass spectrometry of molecular ions. Nuclear Instruments & Methods in Physics Research B, 2005, 240, 468-473.	1.4	6
76	A study of the tandem-terminal-stripper reaction 1H(12C,γ)13N with accelerator mass spectrometry. Nuclear Instruments & Methods in Physics Research B, 2005, 240, 495-499.	1.4	2
77	Opportunities and limits of AMS with 3-MV tandem accelerators. Nuclear Instruments & Methods in Physics Research B, 2005, 240, 445-451.	1.4	27
78	The ΔTOF detector for isobar separation at ion energies below 1MeV/amu. Nuclear Instruments & Methods in Physics Research B, 2005, 240, 490-494.	1.4	21
79	182Hf – FROM GEOPHYSICS TO ASTROPHYSICS. Nuclear Physics A, 2005, 758, 340-343.	1.5	10
80	Experimental and Theoretical Evidence for Long-Lived Molecular Hydrogen AnionsH2â^'andD2â^'. Physical Review Letters, 2005, 94, 223003.	7.8	40
81	VERA, an AMS facility for "all―isotopes. Nuclear Instruments & Methods in Physics Research B, 2004, 223-224, 67-71.	1.4	52
82	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.	1.4	5
83	Analysis of doubly-charged negative molecules by accelerator mass spectrometry. Nuclear Instruments & Methods in Physics Research B, 2004, 223-224, 221-226.	1.4	8
84	Development of an AMS method to study oceanic circulation characteristics using cosmogenic 39Ar. Nuclear Instruments & Methods in Physics Research B, 2004, 223-224, 428-434.	1.4	40
85	Developing a detection method of environmental 244Pu. Nuclear Instruments & Methods in Physics Research B, 2004, 223-224, 817-822.	1.4	12
86	182Hf, a new isotope for AMS. Nuclear Instruments & Methods in Physics Research B, 2004, 223-224, 823-828.	1.4	35
87	Anthropogenic 244Pu in the environment. New Astronomy Reviews, 2004, 48, 151-154.	12.8	15
88	Search for live 182Hf in deep-sea sediments. New Astronomy Reviews, 2004, 48, 161-164.	12.8	29
89	First tests of a thin natural diamond detector as an energy spectrometer for low-energy heavy ions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 521, 203-207.	1.6	11
90	Recent investigations and applications of thin diamond-like carbon (DLC) foils. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 521, 197-202.	1.6	21

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91	First application of calorimetric low-temperature detectors in accelerator mass spectrometry. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 520, 63-66.	1.6	14
92	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.	6.1	2
93	Accelerator mass spectrometry of heavy long-lived radionuclides. International Journal of Mass Spectrometry, 2003, 223-224, 713-732.	1.5	108
94	Heavy ion AMS with a "small―accelerator. Nuclear Instruments & Methods in Physics Research B, 2002, 188, 283-287.	1.4	52
95	Accelerator mass spectrometry of the heaviest long-lived radionuclides with a 3-MV tandem accelerator. Pramana - Journal of Physics, 2002, 59, 1041-1051.	1.8	6
96	A detailed 2-year record of atmospheric 14CO in the temperate northern hemisphere. Nuclear Instruments & Methods in Physics Research B, 2000, 161-163, 780-785.	1.4	11
97	Developments towards a fully automated AMS system. Nuclear Instruments & Methods in Physics Research B, 2000, 161-163, 250-254.	1.4	11
98	Extension of the measuring capabilities at VERA. Nuclear Instruments & Methods in Physics Research B, 2000, 172, 100-106.	1.4	19
99	14C dating with the bomb peak: An application to forensic medicine. Nuclear Instruments & Methods in Physics Research B, 2000, 172, 944-950.	1.4	145
100	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.	1.8	22
101	Influence of the chemical state on the stopping of protons and He-ions in some oxides. Nuclear Instruments & Methods in Physics Research B, 1998, 136-138, 103-108.	1.4	23
102	26Al measurements with VERA. Nuclear Instruments & Methods in Physics Research B, 1998, 139, 301-305.	1.4	5
103	Absence of a ``Threshold Effect'' in the Energy Loss of Slow Protons Traversing Large-Band-Gap Insulators. Physical Review Letters, 1997, 79, 4112-4115.	7.8	91
104	Systematic Investigations of 14C Measurements at the Vienna Environmental Research Accelerator. Radiocarbon, 1997, 40, 255-263.	1.8	19
105	First performance tests of VERA. Nuclear Instruments & Methods in Physics Research B, 1997, 123, 193-198.	1.4	22
106	New detector concepts for AMS. Nuclear Instruments & Methods in Physics Research B, 1997, 123, 170-173.	1.4	1
107	VERA: A new AMS facility in Vienna. Nuclear Instruments & Methods in Physics Research B, 1997, 123, 47-50.	1.4	43
108	Contribution of valence electrons to the electronic energy loss of hydrogen ions in oxides. Nuclear Instruments & Methods in Physics Research B, 1997, 125, 102-105.	1.4	5

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109	Absolute measurement of 126Sn radionuclide concentration with AMS. Nuclear Instruments & Methods in Physics Research B, 1996, 114, 125-130.	1.4	12
110	A new half-life measurement of the long-lived fission product 126Sn. Nuclear Instruments & Methods in Physics Research B, 1996, 114, 131-137.	1.4	17
111	Electronic Stopping in a He-H2Mixture Substantially Exceeds Bragg's Rule Value. Physical Review Letters, 1996, 76, 3104-3107.	7.8	5
112	The influence of target composition on the specific energy loss measured in transmission geometry. Nuclear Instruments & Methods in Physics Research B, 1994, 90, 45-48.	1.4	4
113	A new method to measure the velocity dependence of electronic stopping for low velocity hydrogen projectiles. Nuclear Instruments & Methods in Physics Research B, 1994, 94, 592-594.	1.4	1
114	Energy loss of hydrogen projectiles in gases. Physical Review A, 1993, 48, 4467-4475.	2.5	31
115	Failure of Bragg's rule for a mixture of nonreacting gases. Physical Review A, 1992, 45, R4222-R4224.	2.5	10
116	Transformation of time-of-flight spectra into energy spectra for extended targets. Nuclear Instruments & Methods in Physics Research B, 1992, 72, 132-138.	1.4	2
117	Energy loss of hydrogen and helium ions in hydrogen and helium gas: looking for exceptions from velocity proportionality. Nuclear Instruments & Methods in Physics Research B, 1992, 69, 18-21.	1.4	30
118	Energy loss of hydrogen projectiles below the Bohr velocity in amorphous carbon. Nuclear Instruments & Methods in Physics Research B, 1992, 67, 69-72.	1.4	10
119	Observation of a striking departure from velocity proportionality in low-energy electronic stopping. Physical Review Letters, 1991, 66, 1831-1833.	7.8	99
120	Experiences in the preparation of thin layers for accelerator measurements. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1989, 282, 185-187.	1.6	4
121	Investigation of the ratio of proton-stopping cross sections in Ag and Au. Physical Review A, 1987, 35, 4836-4838.	2.5	5
122	On the accuracy of measuring proton fluence by beam integration, for the determination of stopping power. Nuclear Instruments & Methods in Physics Research B, 1987, 28, 311-316.	1.4	4
123	Investigation of hydrogen stopping in noble metals around the stopping power maximum. Nuclear Instruments & Methods in Physics Research B, 1984, 2, 149-152.	1.4	16
124	A 180° backscattering facility used to investigate the yield enhancement. Nuclear Instruments & Methods in Physics Research, 1983, 205, 287-292.	0.9	3