

Robin Golser

List of Publications by Year in descending order

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124
papers

2,930
citations

236925

25
h-index

206112

48
g-index

126
all docs

126
docs citations

126
times ranked

1763
citing authors

#	ARTICLE	IF	CITATIONS
37	Method for ²³⁶ U Determination in Seawater Using Flow Injection Extraction Chromatography and Accelerator Mass Spectrometry. <i>Analytical Chemistry</i> , 2015, 87, 7411-7417.	6.5	30
38	Isobar separation of ⁹³ Zr and ⁹³ Nb at 24 MeV with a new multi-anode ionization chamber. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015, 361, 201-206.	1.4	10
39	Interlaboratory study of the ion source memory effect in ³⁶ Cl accelerator mass spectrometry. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014, 329, 22-29.	1.4	21
40	Metastable states of diatomic hydrogen anions. <i>Journal of Physics: Conference Series</i> , 2014, 488, 012034.	0.4	2
41	Iodine-129 in Seawater Offshore Fukushima: Distribution, Inorganic Speciation, Sources, and Budget. <i>Environmental Science & Technology</i> , 2013, 47, 3091-3098.	10.0	193
42	AMS of ³⁶ Cl with the VERA 3MV tandem accelerator. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013, 294, 115-120.	1.4	17
43	Carbon background and ionization yield of an AMS system during ¹⁴ C measurements of microgram-size graphite samples. <i>Nuclear Instruments & Methods in Physics Research B</i> , 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. <i>Analytical Chemistry</i> , 2013, 85, 11026-11033.	6.5	36
45	A New UV Oxidation Setup for Small Radiocarbon Samples in Solution. <i>Radiocarbon</i> , 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. <i>Biogeosciences</i> , 2013, 10, 5481-5496.	3.3	116
47	A New UV Oxidation Setup for Small Radiocarbon Samples in Solution. <i>Radiocarbon</i> , 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. <i>Radiocarbon</i> , 2012, 54, 407-422.	1.8	55
49	Light induced suppression of sulfur in a cesium sputter ion source. <i>International Journal of Mass Spectrometry</i> , 2012, 315, 55-59.	1.5	5
50	Recent advances in AMS of ³⁶ Cl with a 3-MV-tandem. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2011, 269, 3188-3191.	1.4	11
51	Sputtered molecular fluoride anions: HfF _n ⁻ and WF _n ⁻ . <i>Surface and Interface Analysis</i> , 2011, 43, 32-35.	1.8	6
52	The new injection beamline at VERA. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010, 268, 824-826.	1.4	9
53	Analysis and application of heavy isotopes in the environment. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010, 268, 1045-1049.	1.4	68
54	³⁶ Cl exposure dating with a 3-MV tandem. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010, 268, 744-747.	1.4	12

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73	Lifetimes of the negative molecular hydrogen ions: H_2^- , D_2^- , and HD^- . Physical Review A, 2006, 73, .	2.5	29
74	Verification of long-lived molecular hydrogen anions (H_n^- , D_n^- , $n=2,3$) 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 $^1H(^{12}C, ^{13}N)^{13}N$ 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 \hat{T} TOF 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	^{182}Hf FROM GEOPHYSICS TO ASTROPHYSICS. Nuclear Physics A, 2005, 758, 340-343.	1.5	10
80	Experimental and Theoretical Evidence for Long-Lived Molecular Hydrogen Anions H_2^- and D_2^- . 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 ^{39}Ar . Nuclear Instruments & Methods in Physics Research B, 2004, 223-224, 428-434.	1.4	40
85	Developing a detection method of environmental ^{244}Pu . Nuclear Instruments & Methods in Physics Research B, 2004, 223-224, 817-822.	1.4	12
86	^{182}Hf , a new isotope for AMS. Nuclear Instruments & Methods in Physics Research B, 2004, 223-224, 823-828.	1.4	35
87	Anthropogenic ^{244}Pu in the environment. New Astronomy Reviews, 2004, 48, 151-154.	12.8	15
88	Search for live ^{182}Hf 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 ¹⁴ CO 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	¹⁴ C 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	²⁶ Al 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 ¹⁴ C 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 ^{126}Sn 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 ^{126}Sn . Nuclear Instruments & Methods in Physics Research B, 1996, 114, 131-137.	1.4	17
111	Electronic Stopping in a He-H ₂ Mixture 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