Hans->Arno Synal

List of Publications by Year
in descending order

167 papers	8,338 citations	50276 46 h-index	54911 84 g-index
169 all docs	169 docs citations	169 times ranked	6781 citing authors

#	Article	IF	Citations
1	Tropical Climate Instability: The Last Glacial Cycle from a Qinghai-Tibetan Ice Core. Science, 1997, 276, 1821-1825.	12.6	993
2	MICADAS: A new compact radiocarbon AMS system. Nuclear Instruments & Methods in Physics Research B, 2007, 259, 7-13.	1.4	495
3	Contributions of fossil fuel, biomass-burning, and biogenic emissions to carbonaceous aerosols in Zurich as traced by14C. Journal of Geophysical Research, 2006, 111, .	3.3	330
4	Fossil and non-fossil sources of organic carbon (OC) and elemental carbon (EC) in GÃ¶teborg, Sweden. Atmospheric Chemistry and Physics, 2009, 9, 1521-1535.	4.9	240
5	Geomagnetic field intensity during the last 60,000 years based on 10Be and 36Cl from the Summit ice cores and 14C. Quaternary Science Reviews, 2005, 24, 1849-1860.	3.0	233
6	MICADAS: Routine and High-Precision Radiocarbon Dating. Radiocarbon, 2010, 52, 252-262.	1.8	217
7	Dominant impact of residential wood burning on particulate matter in Alpine valleys during winter. Geophysical Research Letters, 2007, 34, .	4.0	191
8	Multiradionuclide evidence for the solar origin of the cosmic-ray events of AD 774/5 and 993/4. Nature Communications, 2015, 6, 8611.	12.8	188
9	Timing of deglaciation on the northern Alpine foreland (Switzerland). Eclogae Geologicae Helveticae, 2004, 97, 47-55.	0.6	184
10	A Gas Ion Source for Radiocarbon Measurements at 200 kV. Radiocarbon, 2007, 49, 307-314.	1.8	176
11	Chlorine-36 evidence for the Mono Lake event in the Summit GRIP ice core. Earth and Planetary Science Letters, 2000, 181, 1-6.	4.4	147
12	Surface exposure dating of the Flims landslide, GraubÃ¼nden, Switzerland. Geomorphology, 2009, 103, 104-112.	2.6	147
13	¹⁴C Analysis and Sample Preparation at the New Bern Laboratory for the Analysis of Radiocarbon with AMS (LARA). Radiocarbon, 2014, 56, 561-566.	1.8	127
14	Geomagnetic Modulation of the 36Cl Flux in the GRIP Ice Core, Greenland. Science, 1998, 279, 1330-1332.	12.6	124
15	Source Apportionment of Aerosols by ¹⁴C Measurements in Different Carbonaceous Particle Fractions. Radiocarbon, 2004, 46, 475-484.	1.8	123
16	On-line Radiocarbon Measurements of Small Samples Using Elemental Analyzer and MICADAS Gas Ion Source. Radiocarbon, 2010, 52, 1645-1656.	1.8	121
17	Radiocarbon analysis in an Alpine ice core: record of anthropogenic and biogenic contributions to carbonaceous aerosols in the past (1650â€“1940). Atmospheric Chemistry and Physics, 2006, 6, 5381-5390.	4.9	105
18	MAMS â€“ A new AMS facility at the Curt-Engelhorn-Centre for Achaeometry, Mannheim, Germany. Nuclear Instruments & Methods in Physics Research B, 2013, 294, 11-13.	1.4	105

#	Article	IF	Citations
19	Tree rings reveal globally coherent signature of cosmogenic radiocarbon events in 774 and 993 CE. Nature Communications, 2018, 9, 3605.	12.8	98
20	Eleven-year solar cycles over the last millennium revealed by radiocarbon in tree rings. Nature Geoscience, 2021, 14, 10-15.	12.9	97
21	EnvironMICADAS: A Mini ¹⁴C AMS with Enhanced Gas Ion Source Interface in the Hertelendi Laboratory of Environmental Studies (HEKAL), Hungary. Radiocarbon, 2013, 55, 338-344.	1.8	95
22	Glaciochemical dating of an ice core from upper Grenzgletscher (4200 m a.s.l.). Journal of Glaciology, 2000, 46, 507-515.	2.2	91
23	Initial results from isotope dilution for Cl and 36Cl measurements at the PSI/ETH Zurich AMS facility. Nuclear Instruments & Methods in Physics Research B, 2004, 223-224, 623-627.	1.4	89
24	Developments in accelerator mass spectrometry. International Journal of Mass Spectrometry, 2013, 349-350, 192-202.	1.5	83
25	Iodine-129 and iodine-127 in European seawaters and in precipitation from Northern Germany. Science of the Total Environment, 2012, 419, 151-169.	8.0	81
26	On the analysis of iodine-129 and iodine-127 in environmental materials by accelerator mass spectrometry and ion chromatography. Science of the Total Environment, 1998, 223, 131-156.	8.0	80
27	Iodine-129 in soils from Northern Ukraine and the retrospective dosimetry of the iodine-131 exposure after the Chernobyl accident. Science of the Total Environment, 2005, 340, 35-55.	8.0	74
28	Optimization of Sealed Tube Graphitization Method for Environmental C-14 Studies Using MICADAS. Nuclear Instruments & Methods in Physics Research B, 2013, 294, 270-275.	1.4	74
29	Lycopene bioavailability and metabolism in humans: an accelerator mass spectrometry study. American Journal of Clinical Nutrition, 2011, 93, 1263-1273.	4.7	71
30	A universal and competitive compact AMS facility. Nuclear Instruments & Methods in Physics Research B, 2005, 240, 483-489.	1.4	69
31	Fractionation, precision and accuracy in 14C and 13C measurements. Nuclear Instruments & Methods in Physics Research B, 1987, 29, 87-90.	1.4	68
32	Cosmogenic nuclides during Isotope Stages 2 and 3. Quaternary Science Reviews, 2002, 21, 1129-1139.	3.0	68
33	First 236U data from the Arctic Ocean and use of 236U/238U and 129I/236U as a new dual tracer. Earth and Planetary Science Letters, 2016, 440, 127-134.	4.4	66
34	A first transect of 236U in the North Atlantic Ocean. Geochimica Et Cosmochimica Acta, 2014, 133, 34-46.	3.9	65
35	Plutonium release from Fukushima Daiichi fosters the need for more detailed investigations. Scientific Reports, 2013, 3, 2988.	3.3	64
36	AixMICADAS, the accelerator mass spectrometer dedicated to 14C recently installed in Aix-en-Provence, France. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 80-86.	1.4	63

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37	Multiradionuclide evidence for an extreme solar proton event around 2,610 B.P. (âˆ¼660 BC). Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 5961-5966.	7.1	63
38	Post-Accident Sporadic Releases of Airborne Radionuclides from the Fukushima Daiichi Nuclear Power Plant Site. Environmental Science & Technology, 2015, 49, 14028-14035.	10.0	61
39	Online ¹³C and ¹⁴C Gas Measurements by EA-IRMSâ€“AMS at ETH ZÃ¼rich. Radiocarbon, 2017, 59, 893-903.	1.8	60
40	Geology and radiometric 14C-, 36Cl- and Th-/U-dating of the Fernpass rockslide (Tyrol, Austria). Geomorphology, 2009, 103, 93-103.	2.6	59
41	Status of 236U analyses at ETH Zurich and the distribution of 236U and 129I in the North Sea in 2009. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 510-516.	1.4	58
42	Advances in particle identification in AMS at low energies. Nuclear Instruments & Methods in Physics Research B, 2007, 259, 165-172.	1.4	56
43	A depth profile of uranium-236 in the Atlantic Ocean. Geochimica Et Cosmochimica Acta, 2012, 77, 98-107.	3.9	55
44	Seasonal deuterium excess in a Tien Shan ice core: Influence of moisture transport and recycling in Central Asia. Geophysical Research Letters, 2003, 30, .	4.0	53
45	An improved northâ€“south synchronization of ice core records around the 41â€kyr ¹⁰Be peak. Climate of the Past, 2017, 13, 217-229.	3.4	52
46	History of the paired lunar meteorites MAC88104 and MAC88105 derived from noble gas isotopes, radionuclides, and some chemical abundances. Geochimica Et Cosmochimica Acta, 1991, 55, 3139-3148.	3.9	49
47	Reconstruction of the paleoaccumulation rate of central Greenland during the last 75 kyr using the cosmogenic radionuclides 36Cl and 10Be and geomagnetic field intensity data. Earth and Planetary Science Letters, 2001, 193, 515-521.	4.4	46
48	Reconstruction of the ²³⁶<scp>U</scp> input function for the <scp>N</scp>ortheast <scp>A</scp>tlantic <scp>O</scp>cean: Implications for ¹²⁹<scp>I</scp>/²³⁶<scp>U</scp> and ²³⁶<scp>U</scp>/²³⁸<scp>U</scp>â€based tracer ages. Journal of Geophysical Research: Oceans, 2015, 120, 7282-7299.	2.6	46
49	Radionuclides in surface waters around the damaged Fukushima Daiichi NPP one month after the accident: Evidence of significant tritium release into the environment. Science of the Total Environment, 2019, 689, 451-456.	8.0	46
50	Towards radiocarbon dating of ice cores. Journal of Glaciology, 2009, 55, 985-996.	2.2	45
51	RICH â€“ A new AMS facility at the Royal Institute for Cultural Heritage, Brussels, Belgium. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 120-123.	1.4	45
52	Radiocarbon AMS towards its low-energy limits. Nuclear Instruments & Methods in Physics Research B, 2004, 223-224, 339-345.	1.4	42
53	Relative influence of 129I sources in a sediment core from the Kattegat area. Science of the Total Environment, 2004, 323, 195-210.	8.0	40
54	Tracing the Three Atlantic Branches Entering the Arctic Ocean With ¹²⁹I and ²³⁶U. Journal of Geophysical Research: Oceans, 2018, 123, 6909-6921.	2.6	38

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55	Transfer of atmospheric constituents into an alpine snow field. Atmospheric Environment Part A General Topics, 1993, 27, 1881-1890.	1.3	36
56	The timing of glacier advances in the northern European Alps based on surface exposure dating with cosmogenic ¹⁰Be, ²⁶Al, ³⁶Cl, and ²¹Ne. , 2006, , .		36
57	First data of Uranium-236 in the North Sea. Nuclear Instruments & Methods in Physics Research B, 2013, 294, 530-536.	1.4	36
58	Use of Accelerator Mass Spectrometry to Measure the Pharmacokinetics and Peripheral Blood Mononuclear Cell Concentrations of Zidovudine. Journal of Pharmaceutical Sciences, 2008, 97, 2833-2843.	3.3	35
59	Potential Releases of ¹²⁹I, ²³⁶U, and Pu Isotopes from the Fukushima Dai-ichi Nuclear Power Plants to the Ocean from 2013 to 2015. Environmental Science & Technology, 2017, 51, 9826-9835.	10.0	35
60	Simulation of the interaction of galactic cosmicâ€ray protons with meteoroids: On the production of radionuclides in thick gabbro and iron targets irradiated isotropically with 1.6 GeV protons. Meteoritics and Planetary Science, 2000, 35, 287-318.	1.6	34
61	BioMICADAS: Compact next generation AMS system for pharmaceutical science. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 891-894.	1.4	34
62	Ultra-trace determination of plutonium in urine samples using a compact accelerator mass spectrometry system operating at 300 kV. Journal of Analytical Atomic Spectrometry, 2012, 27, 126-130.	3.0	34
63	Time since death and decay rate constants of Norway spruce and European larch deadwood in subalpine forests determined using dendrochronology and radiocarbon dating. Biogeosciences, 2016, 13, 1537-1552.	3.3	34
64	Isotopic signature of plutonium at Bikini atoll. Applied Radiation and Isotopes, 2010, 68, 979-983.	1.5	33
65	Radionuclide pollution inside the Fukushima Daiichi exclusion zone, part 2: Forensic search for the â€œForgottenâ€•contaminants Uranium-236 and plutonium. Applied Geochemistry, 2017, 85, 194-200.	3.0	33
66	AMS measurement technique after 30years: Possibilities and limitations of low energy systems. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 701-707.	1.4	32
67	Iodine-129, Iodine-127 and Caesium-137 in the environment: soils from Germany and Chile. Journal of Environmental Radioactivity, 2012, 112, 8-22.	1.7	32
68	Uncovering modern paint forgeries by radiocarbon dating. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13210-13214.	7.1	31
69	On the origin of 129I in rain water near ZÃ¼rich. Radiochimica Acta, 2001, 89, 815-822.	1.2	30
70	Selective Dating of Paint Components: Radiocarbon Dating of Lead White Pigment. Radiocarbon, 2019, 61, 473-493.	1.8	29
71	Unravelling 5 decades of anthropogenic 236U discharge from nuclear reprocessing plants. Science of the Total Environment, 2020, 717, 137094.	8.0	29
72	129I AMS at 0.5MV tandem accelerator. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 769-772.	1.4	28

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73	Low energy AMS of americium and curium. Nuclear Instruments & Methods in Physics Research B, 2014, 331, 225-232.	1.4	28
74	Detection of UH3+ and ThH3+ molecules and 236U background studies with low-energy AMS. Nuclear Instruments & Methods in Physics Research B, 2013, 294, 364-368.	1.4	27
75	Towards the limits: Analysis of microscale 14C samples using EA-AMS. Nuclear Instruments & Methods in Physics Research B, 2018, 437, 66-74.	1.4	27
76	Accelerator mass spectrometry of 236U at low energies. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 3199-3203.	1.4	26
77	Anthropogenic ²³⁶U in the North Sea â€“ A Closer Look into a Source Region. Environmental Science & Technology, 2017, 51, 12146-12153.	10.0	26
78	Protactinium-231: A new radionuclide for AMS. Nuclear Instruments & Methods in Physics Research B, 2007, 262, 379-384.	1.4	25
79	³⁶Cl bomb peak: comparison of modeled and measured data. Atmospheric Chemistry and Physics, 2009, 9, 4145-4156.	4.9	25
80	36Cl measurements with a gas-filled magnet at 6â€¯MV. Nuclear Instruments & Methods in Physics Research B, 2019, 455, 190-194.	1.4	25
81	Determination of in atmospheric samples by accelerator mass spectrometry. Applied Radiation and Isotopes, 1999, 51, 315-322.	1.5	24
82	36Cl in modern atmospheric precipitation. Geophysical Research Letters, 1999, 26, 1401-1404.	4.0	24
83	Determination of 129I/127I in aerosol samples in Seville (Spain). Journal of Environmental Radioactivity, 2005, 84, 103-109.	1.7	24
84	Accelerator Mass Spectrometry of 129I towards its lower limits. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 445-449.	1.4	24
85	Cosmogenic radionuclides reveal an extreme solar particle storm near a solar minimum 9125 years BP. Nature Communications, 2022, 13, 214.	12.8	24
86	Evaluation of cAMS for14C microtracer ADME studies: opportunities to change the current drug development paradigm. Bioanalysis, 2018, 10, 321-339.	1.5	23
87	The Ticino-Toce glacier system (Swiss-Italian Alps) in the framework of the Alpine Last Glacial Maximum. Quaternary Science Reviews, 2022, 279, 107400.	3.0	23
88	Certification of a 41Ca dose material for use in human studies (IRMM-3703) and a corresponding set of isotope reference materials for 41Ca measurements (IRMM-3701). Nuclear Instruments & Methods in Physics Research B, 2005, 229, 281-292.	1.4	22
89	129I/127I ratios in Scottish coastal surface sea water: Geographical and temporal responses to changing emissions. Applied Geochemistry, 2007, 22, 619-627.	3.0	22
90	Tracing water masses with ¹²⁹I and ²³⁶U in the subpolar North Atlantic along the GEOTRACES GA01 section. Biogeosciences, 2018, 15, 5545-5564.	3.3	22

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91	Wet and dry deposition of 129I in Seville (Spain) measured by accelerator mass spectrometry. Journal of Environmental Radioactivity, 2001, 55, 269-282.	1.7	21
92	10Be and 26Al low-energy AMS using He-stripping and background suppression via an absorber. Nuclear Instruments & Methods in Physics Research B, 2014, 331, 209-214.	1.4	21
93	Laser Ablation â€“ Accelerator Mass Spectrometry: An Approach for Rapid Radiocarbon Analyses of Carbonate Archives at High Spatial Resolution. Analytical Chemistry, 2016, 88, 8570-8576.	6.5	21
94	Proof-of-principle of a compact 300â€¯kV multi-isotope AMS facility. Nuclear Instruments & Methods in Physics Research B, 2019, 439, 84-89.	1.4	21
95	Tree-rings reveal two strong solar proton events in 7176 and 5259 BCE. Nature Communications, 2022, 13, 1196.	12.8	21
96	Combined ¹⁴C Analysis of Canvas and Organic Binder for Dating a Painting. Radiocarbon, 2018, 60, 207-218.	1.8	20
97	Quality Dating: A Well-Defined Protocol Implemented at ETH for High-Precision 14C-Dates Tested on Late Glacial Wood. Radiocarbon, 2020, 62, 891-899.	1.8	20
98	New concepts of 10Be AMS at low energies. Nuclear Instruments & Methods in Physics Research B, 2007, 259, 173-177.	1.4	19
99	C-14 analysis of groundwater down to the millilitre level. Nuclear Instruments & Methods in Physics Research B, 2013, 294, 573-576.	1.4	19
100	36Cl and129I in the Yenisei, Kolyma, and Mackenzie Rivers. Environmental Science & Technology, 1997, 31, 1834-1836.	10.0	18
101	129I/127I ratios in surface waters of the English Lake District. Applied Geochemistry, 2007, 22, 628-636.	3.0	18
102	Determination of Atto- to Femtogram Levels of Americium and Curium Isotopes in Large-Volume Urine Samples by Compact Accelerator Mass Spectrometry. Analytical Chemistry, 2016, 88, 2832-2837.	6.5	18
103	Accelerator mass spectrometry as a powerful tool for the determination of in rainwater. Applied Radiation and Isotopes, 2000, 53, 81-85.	1.5	17
104	^{239,240}Pu and ²³⁶U records of an ice core from the eastern Tien Shan (Central Asia). Journal of Glaciology, 2017, 63, 929-935.	2.2	17
105	Retrospective dosimetry of Iodine-131 exposures using Iodine-129 and Caesium-137 inventories in soils â€“ A critical evaluation of the consequences of the Chernobyl accident in parts of Northern Ukraine. Journal of Environmental Radioactivity, 2015, 150, 20-35.	1.7	16
106	Analysis of Iodine-129 in Environmental Materials: Quality Assurance and Applications. Journal of Radioanalytical and Nuclear Chemistry, 2000, 244, 45-50.	1.5	15
107	The youngest natural oil on earth. Doklady Chemistry, 2011, 438, 144-147.	0.9	15
108	Dual isotope system analysis of lead white in artworks. Analyst, The, 2020, 145, 1310-1318.	3.5	15

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109	Isobar discrimination in accelerator mass spectrometry by detecting characteristic projectile X-rays. Nuclear Instruments & Methods in Physics Research B, 1994, 89, 266-269.	1.4	14
110	In-situ cosmogenic 14C analysis at ETH ZÃ¼rich: Characterization and performance of a new extraction system. Nuclear Instruments & Methods in Physics Research B, 2019, 457, 30-36.	1.4	14
111	Radiocarbon Dating and the Protection of Cultural Heritage. Radiocarbon, 2019, 61, 1133-1134.	1.8	14
112	The Ins and Outs of ¹⁴C Dating Lead White Paint for Artworks Application. Analytical Chemistry, 2020, 92, 7674-7682.	6.5	14
113	Elastic photoproduction of charged pions on 3He and 3H in the Î”(1232) resonance region. Nuclear Physics A, 1987, 470, 429-444.	1.5	13
114	The relevance of ion optics for the development of small AMS facilities. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 722-725.	1.4	13
115	231Pa/230Th: A proxy for upwelling off the coast of West Africa. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 1159-1162.	1.4	13
116	Cross sections for the formation of long-lived radionuclides 10Be, 26Al and 36Cl in 14.6 MeV neutron induced reactions determined via accelerator mass spectrometry (AMS). Radiochimica Acta, 2000, 88, 829-832.	1.2	12
117	Are Compact AMS Facilities a Competitive Alternative to Larger Tandem Accelerators?. Radiocarbon, 2010, 52, 319-330.	1.8	12
118	Quantifying glacial erosion on a limestone bed and the relevance for landscape development in the Alps. Earth Surface Processes and Landforms, 2020, 45, 1401-1417.	2.5	12
119	14C Analysis and Sample Preparation at the New Bern Laboratory for the Analysis of Radiocarbon with AMS (LARA). Radiocarbon, 2014, 56, 561-566.	1.8	12
120	Concentrations of iodine isotopes (129I and 127I) and their isotopic ratios in aerosol samples from Northern Germany. Journal of Environmental Radioactivity, 2016, 154, 101-108.	1.7	11
121	Projectile X-ray detection: application and limits. Nuclear Instruments & Methods in Physics Research B, 1995, 99, 519-523.	1.4	10
122	Carrier-free measurements of natural 10Be/9Be ratios at low energies. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 726-729.	1.4	10
123	Direct radiocarbon analysis of exhaled air. Journal of Analytical Atomic Spectrometry, 2011, 26, 287-292.	3.0	10
124	Existence of triply charged actinide-hydride molecules. Physical Review A, 2012, 85, .	2.5	10
125	26Al measurements below 500 kV in charge state 2+. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 257-262.	1.4	10
126	Novel Laser Ablation Sampling Device for the Rapid Radiocarbon Analysis of Carbonate Samples by Accelerator Mass Spectrometry. Radiocarbon, 2016, 58, 419-435.	1.8	10

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127	Application of the chlorine-36 method for the characterization of the groundwater circulation in tectonically active areas: examples from northwestern Anatolia/Turkey. Terra Nova, 1996, 8, 324-333.	2.1	9
128	Carrier free 10Be/9Be measurements with low-energy AMS: Determination of sedimentation rates in the Arctic Ocean. Nuclear Instruments & Methods in Physics Research B, 2013, 294, 67-71.	1.4	9
129	A simple Bragg detector design for AMS and IBA applications. Nuclear Instruments & Methods in Physics Research B, 2015, 356-357, 81-87.	1.4	9
130	Non-destructive and radiochemical determination of the neutron-induced production cross section of I-129 from Te and other neutron-induced cross sections on Te at 14.7 MeV. Radiochimica Acta, 2000, 88, 439-444.	1.2	8
131	Production rates and protonâ€induced production cross sections of ¹²⁹I from Te and Ba: An attempt to model the ¹²⁹I production in stony meteoroids and ¹²⁹I in a Knyahinya sample. Meteoritics and Planetary Science, 2004, 39, 453-466.	1.6	8
132	Charge state distributions and charge exchange cross sections of carbon in helium at 30â€“258 keV. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 541-547.	1.4	8
133	Time-of-flight MeV-SIMS with beam induced secondary electron trigger. Nuclear Instruments & Methods in Physics Research B, 2016, 380, 94-98.	1.4	8
134	The â€œEnhancementâ€•of Cultural Heritage by AMS Dating: Ethical Questions and Practical Proposals. Radiocarbon, 2017, 59, 559-563.	1.8	8
135	Accelerator mass spectrometry of 26 Al at 6 MV using AlO â¯ ions and a gas-filled magnet. Nuclear Instruments & Methods in Physics Research B, 2017, 406, 272-277.	1.4	8
136	Optimizing the analyte introduction for 14C laser ablation-AMS. Journal of Analytical Atomic Spectrometry, 2017, 32, 1813-1819.	3.0	8
137	Glacial erosion by the Trift glacier (Switzerland): Deciphering the development of riegels, rock basins and gorges. Geomorphology, 2021, 375, 107533.	2.6	8
138	36Cl in ground water of the Mazowsze basin (Poland). Journal of Hydrology, 1990, 118, 373-385.	5.4	7
139	A new design of a Cs sputter ion source for accelerator mass spectrometry. Review of Scientific Instruments, 1992, 63, 2485-2487.	1.3	7
140	41Ca, 14C and 10Be concentrations in coral sand from the Bikini atoll. Journal of Environmental Radioactivity, 2014, 129, 68-72.	1.7	7
141	MeV-SIMS capillary microprobe for molecular imaging. Nuclear Instruments & Methods in Physics Research B, 2017, 412, 185-189.	1.4	7
142	Chlorine-36 and cesium-137 in ice-core samples from mid-latitude glacial sites in the Northern Hemisphere. Nuclear Instruments & Methods in Physics Research B, 2000, 172, 812-816.	1.4	6
143	Oral Vitamin D Supplements Increase Serum 25-Hydroxyvitamin D in Postmenopausal Women and Reduce Bone Calcium Flux Measured by 41Ca Skeletal Labeling. Journal of Nutrition, 2015, 145, 2333-2340.	2.9	6
144	Simulation of ion beam scattering in a gas stripper. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 237-244.	1.4	6

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145	¹⁴C Contamination Testing in Natural Abundance Laboratories: A New Preparation Method Using Wet Chemical Oxidation and Some Experiences. Radiocarbon, 2016, 58, 935-941.	1.8	6
146	ColPuS, a new multi-isotope plutonium standard for Accelerator Mass Spectrometry. Nuclear Instruments & Methods in Physics Research B, 2019, 438, 189-192.	1.4	6
147	A novel chronometry technique for dating irradiated uranium fuels using Cm isotopic ratios. Journal of Radioanalytical and Nuclear Chemistry, 2019, 322, 1611-1620.	1.5	6
148	Direct search for primordial 244Pu in Bayan Obo bastnaesite. Chinese Chemical Letters, 2022, 33, 3522-3526.	9.0	6
149	Accelerator mass spectrometry: New applications. Applied Radiation and Isotopes, 1995, 46, 457-466.	1.5	5
150	Status of mass spectrometric radiocarbon detection at ETHZ. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 245-249.	1.4	4
151	Ultrasensitive Analytical Method for Direct Search of Primordial 244Pu in Bastnaesite. ACS Earth and Space Chemistry, 2021, 5, 1316-1324.	2.7	4
152	Excitation functions for the production of long-lived residue nuclides in the reaction^{nat}Bi(p;xn,yp)Z. Journal of Physics G: Nuclear and Particle Physics, 2011, 38, 065103.	3.6	3
153	Rapid Revelation of Radiocarbon Records with Laser Ablation Accelerator Mass Spectrometry. Chimia, 2014, 68, 215.	0.6	3
154	The new AMS system at CEDAD for the analysis of 10Be, 26Al, 129I and actinides: Set-up and performances. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 100-104.	1.4	3
155	Charge-state distributions and charge-changing cross sections and their impact on the performance of AMS facilities. Nuclear Instruments & Methods in Physics Research B, 2018, 437, 116-122.	1.4	3
156	Double Trap Interface: A novel gas interface for high throughput analysis of biomedical samples by AMS. Drug Metabolism and Pharmacokinetics, 2021, 39, 100400.	2.2	3
157	High resolution gas ionization chamber in proportional mode for low energy applications. Nuclear Instruments & Methods in Physics Research B, 2017, 407, 40-46.	1.4	2
158	Advances and limitations of 14C dating in the field of heritage sciences. Techne, 2021, , 111-117.	0.1	2
159	A Simple Way to Upgrade a Compact Radiocarbon AMS Facility for 10Be. Radiocarbon, 2013, 55, 231-236.	1.8	1
160	Further improvement for 10Be measurement on an upgraded compact AMS radiocarbon facility. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 178-182.	1.4	1
161	WILLY WÃ–LFLI (1930â€“2014): A NUCLEAR PHYSICIST WITH PIONEERING VISIONS. Radiocarbon, 0, , 1-3.	1.8	1
162	A simultaneous dual-polarity mass spectrometer with electron start for MeV-SIMS. Nuclear Instruments & Methods in Physics Research B, 2021, 507, 36-41.	1.4	1

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163	Radiochemical analysis of concrete samples from accelerator waste. Radiochimica Acta, 2012, 100, 851-856.	1.2	0
164	A Simple Way to Upgrade a Compact Radiocarbon AMS Facility for 10Be. Radiocarbon, 2013, 55, .	1.8	0
165	¹⁴C Contamination Testing in Natural Abundance Laboratories: A New Preparation Method Using Wet Chemical Oxidation and Some Experiences â€“ CORRIGENDUM. Radiocarbon, 2017, 59, 269-269.	1.8	0
166	ULTRA-TRACE DETERMINATION OF NEPTUNIUM-237 AND PLUTONIUM ISOTOPES IN URINE SAMPLES BY COMPACT ACCELERATOR MASS SPECTROMETRY. AECL Nuclear Review, 2015, 4, 125-130.	0.1	0
167	Radiocarbon Concentration Measurements in Tree Leaves near SOCOCIM (Rufisque, Senegal), A Cement Factory. Open Journal of Air Pollution, 2022, 11, 1-12.	1.4	0