

Hans->Arno Synal

List of Publications by Year in descending order

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167
papers

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50244

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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. <i>Science</i> , 1997, 276, 1821-1825.	6.0	993
2	MICADAS: A new compact radiocarbon AMS system. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007, 259, 7-13.	0.6	495
3	Contributions of fossil fuel, biomass-burning, and biogenic emissions to carbonaceous aerosols in Zurich as traced by ¹⁴ C. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	330
4	Fossil and non-fossil sources of organic carbon (OC) and elemental carbon (EC) in Gäddede, Sweden. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 1521-1535.	1.9	240
5	Geomagnetic field intensity during the last 60,000 years based on ¹⁰ Be and ³⁶ Cl from the Summit ice cores and ¹⁴ C. <i>Quaternary Science Reviews</i> , 2005, 24, 1849-1860.	1.4	233
6	MICADAS: Routine and High-Precision Radiocarbon Dating. <i>Radiocarbon</i> , 2010, 52, 252-262.	0.8	217
7	Dominant impact of residential wood burning on particulate matter in Alpine valleys during winter. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	191
8	Multiradionuclide evidence for the solar origin of the cosmic-ray events of AD 774/5 and 993/4. <i>Nature Communications</i> , 2015, 6, 8611.	5.8	188
9	Timing of deglaciation on the northern Alpine foreland (Switzerland). <i>Eclogae Geologicae Helveticae</i> , 2004, 97, 47-55.	0.6	184
10	A Gas Ion Source for Radiocarbon Measurements at 200 kV. <i>Radiocarbon</i> , 2007, 49, 307-314.	0.8	176
11	Chlorine-36 evidence for the Mono Lake event in the Summit GRIP ice core. <i>Earth and Planetary Science Letters</i> , 2000, 181, 1-6.	1.8	147
12	Surface exposure dating of the Flims landslide, Graubünden, Switzerland. <i>Geomorphology</i> , 2009, 103, 104-112.	1.1	147
13	¹⁴ C Analysis and Sample Preparation at the New Bern Laboratory for the Analysis of Radiocarbon with AMS (LARA). <i>Radiocarbon</i> , 2014, 56, 561-566.	0.8	127
14	Geomagnetic Modulation of the ³⁶ Cl Flux in the GRIP Ice Core, Greenland. <i>Science</i> , 1998, 279, 1330-1332.	6.0	124
15	Source Apportionment of Aerosols by ¹⁴ C Measurements in Different Carbonaceous Particle Fractions. <i>Radiocarbon</i> , 2004, 46, 475-484.	0.8	123
16	On-line Radiocarbon Measurements of Small Samples Using Elemental Analyzer and MICADAS Gas Ion Source. <i>Radiocarbon</i> , 2010, 52, 1645-1656.	0.8	121
17	Radiocarbon analysis in an Alpine ice core: record of anthropogenic and biogenic contributions to carbonaceous aerosols in the past (1650â€”1940). <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 5381-5390.	1.9	105
18	MAMS â€” A new AMS facility at the Curt-Engelhorn-Centre for Archaeometry, Mannheim, Germany. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013, 294, 11-13.	0.6	105

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19	Tree rings reveal globally coherent signature of cosmogenic radiocarbon events in 774 and 993 CE. <i>Nature Communications</i> , 2018, 9, 3605.	5.8	98
20	Eleven-year solar cycles over the last millennium revealed by radiocarbon in tree rings. <i>Nature Geoscience</i> , 2021, 14, 10-15.	5.4	97
21	EnvironMICADAS: A Mini ¹⁴ C AMS with Enhanced Gas Ion Source Interface in the Hertelendi Laboratory of Environmental Studies (HEKAL), Hungary. <i>Radiocarbon</i> , 2013, 55, 338-344.	0.8	95
22	Glaciochemical dating of an ice core from upper Grenzgletscher (4200 m a.s.l.). <i>Journal of Glaciology</i> , 2000, 46, 507-515.	1.1	91
23	Initial results from isotope dilution for Cl and ³⁶ Cl measurements at the PSI/ETH Zurich AMS facility. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004, 223-224, 623-627.	0.6	89
24	Developments in accelerator mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2013, 349-350, 192-202.	0.7	83
25	Iodine-129 and iodine-127 in European seawaters and in precipitation from Northern Germany. <i>Science of the Total Environment</i> , 2012, 419, 151-169.	3.9	81
26	On the analysis of iodine-129 and iodine-127 in environmental materials by accelerator mass spectrometry and ion chromatography. <i>Science of the Total Environment</i> , 1998, 223, 131-156.	3.9	80
27	Iodine-129 in soils from Northern Ukraine and the retrospective dosimetry of the iodine-131 exposure after the Chernobyl accident. <i>Science of the Total Environment</i> , 2005, 340, 35-55.	3.9	74
28	Optimization of Sealed Tube Graphitization Method for Environmental C-14 Studies Using MICADAS. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013, 294, 270-275.	0.6	74
29	Lycopene bioavailability and metabolism in humans: an accelerator mass spectrometry study. <i>American Journal of Clinical Nutrition</i> , 2011, 93, 1263-1273.	2.2	71
30	A universal and competitive compact AMS facility. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005, 240, 483-489.	0.6	69
31	Fractionation, precision and accuracy in ¹⁴ C and ¹³ C measurements. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1987, 29, 87-90.	0.6	68
32	Cosmogenic nuclides during Isotope Stages 2 and 3. <i>Quaternary Science Reviews</i> , 2002, 21, 1129-1139.	1.4	68
33	First ²³⁶ U data from the Arctic Ocean and use of ²³⁶ U/ ²³⁸ U and ¹²⁹ I/ ²³⁶ U as a new dual tracer. <i>Earth and Planetary Science Letters</i> , 2016, 440, 127-134.	1.8	66
34	A first transect of ²³⁶ U in the North Atlantic Ocean. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 133, 34-46.	1.6	65
35	Plutonium release from Fukushima Daiichi fosters the need for more detailed investigations. <i>Scientific Reports</i> , 2013, 3, 2988.	1.6	64
36	AixMICADAS, the accelerator mass spectrometer dedicated to ¹⁴ C recently installed in Aix-en-Provence, France. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015, 361, 80-86.	0.6	63

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37	Multiradionuclide evidence for an extreme solar proton event around 2,610 B.P. (âˆ¼4660 BC). Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 5961-5966.	3.3	63
38	Post-Accident Sporadic Releases of Airborne Radionuclides from the Fukushima Daiichi Nuclear Power Plant Site. Environmental Science & Technology, 2015, 49, 14028-14035.	4.6	61
39	Online ¹³ C and ¹⁴ C Gas Measurements by EA-IRMSâ€™AMS at ETH ZÃ¼rich. Radiocarbon, 2017, 59, 893-903.	0.8	60
40	Geology and radiometric ¹⁴ C-, ³⁶ Cl- and Th-/U-dating of the Fernpass rockslide (Tyrol, Austria). Geomorphology, 2009, 103, 93-103.	1.1	59
41	Status of ²³⁶ U analyses at ETH Zurich and the distribution of ²³⁶ U and ¹²⁹ I in the North Sea in 2009. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 510-516.	0.6	58
42	Advances in particle identification in AMS at low energies. Nuclear Instruments & Methods in Physics Research B, 2007, 259, 165-172.	0.6	56
43	A depth profile of uranium-236 in the Atlantic Ocean. Geochimica Et Cosmochimica Acta, 2012, 77, 98-107.	1.6	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, .	1.5	53
45	An improved northâ€™south synchronization of ice core records around the 41â€™kyr <sup>10</sup>Be peak. Climate of the Past, 2017, 13, 217-229.	1.3	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.	1.6	49
47	Reconstruction of the paleoaccumulation rate of central Greenland during the last 75 kyr using the cosmogenic radionuclides ³⁶ Cl and ¹⁰ Be and geomagnetic field intensity data. Earth and Planetary Science Letters, 2001, 193, 515-521.	1.8	46
48	Reconstruction of the ²³⁶ U input function for the Northeast Atlantic Ocean: Implications for ¹²⁹ I/ ²³⁶ U and ²³⁶ U/ ²³⁸ U-based tracer ages. Journal of Geophysical Research: Oceans, 2015, 120, 7282-7299.	1.0	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.	3.9	46
50	Towards radiocarbon dating of ice cores. Journal of Glaciology, 2009, 55, 985-996.	1.1	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.	0.6	45
52	Radiocarbon AMS towards its low-energy limits. Nuclear Instruments & Methods in Physics Research B, 2004, 223-224, 339-345.	0.6	42
53	Relative influence of ¹²⁹ I sources in a sediment core from the Kattegat area. Science of the Total Environment, 2004, 323, 195-210.	3.9	40
54	Tracing the Three Atlantic Branches Entering the Arctic Ocean With ¹²⁹ I and ²³⁶ U. Journal of Geophysical Research: Oceans, 2018, 123, 6909-6921.	1.0	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 ^{10}Be , ^{26}Al , ^{36}Cl , and ^{21}Ne . , 2006, , .		36
57	First data of Uranium-236 in the North Sea. Nuclear Instruments & Methods in Physics Research B, 2013, 294, 530-536.	0.6	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.	1.6	35
59	Potential Releases of ^{129}I , ^{236}U , 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.	4.6	35
60	Simulation of the interaction of galactic cosmic 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.	0.7	34
61	BioMICADAS: Compact next generation AMS system for pharmaceutical science. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 891-894.	0.6	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.	1.6	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.	1.3	34
64	Isotopic signature of plutonium at Bikini atoll. Applied Radiation and Isotopes, 2010, 68, 979-983.	0.7	33
65	Radionuclide pollution inside the Fukushima Daiichi exclusion zone, part 2: Forensic search for the "Forgotten" contaminants Uranium-236 and plutonium. Applied Geochemistry, 2017, 85, 194-200.	1.4	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.	0.6	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.	0.9	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.	3.3	31
69	On the origin of ^{129}I in rain water near Zürich. Radiochimica Acta, 2001, 89, 815-822.	0.5	30
70	Selective Dating of Paint Components: Radiocarbon Dating of Lead White Pigment. Radiocarbon, 2019, 61, 473-493.	0.8	29
71	Unravelling 5 decades of anthropogenic ^{236}U discharge from nuclear reprocessing plants. Science of the Total Environment, 2020, 717, 137094.	3.9	29
72	^{129}I AMS at 0.5MV tandem accelerator. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 769-772.	0.6	28

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73	Low energy AMS of americium and curium. Nuclear Instruments & Methods in Physics Research B, 2014, 331, 225-232.	0.6	28
74	Detection of UH ₃ ⁺ and ThH ₃ ⁺ molecules and ²³⁶ U background studies with low-energy AMS. Nuclear Instruments & Methods in Physics Research B, 2013, 294, 364-368.	0.6	27
75	Towards the limits: Analysis of microscale ¹⁴ C samples using EA-AMS. Nuclear Instruments & Methods in Physics Research B, 2018, 437, 66-74.	0.6	27
76	Accelerator mass spectrometry of ²³⁶ U at low energies. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 3199-3203.	0.6	26
77	Anthropogenic ²³⁶ U in the North Sea – A Closer Look into a Source Region. Environmental Science & Technology, 2017, 51, 12146-12153.	4.6	26
78	Protactinium-231: A new radionuclide for AMS. Nuclear Instruments & Methods in Physics Research B, 2007, 262, 379-384.	0.6	25
79	³⁶ Cl bomb peak: comparison of modeled and measured data. Atmospheric Chemistry and Physics, 2009, 9, 4145-4156.	1.9	25
80	³⁶ Cl measurements with a gas-filled magnet at 6 MeV. Nuclear Instruments & Methods in Physics Research B, 2019, 455, 190-194.	0.6	25
81	Determination of ³⁶ Cl in atmospheric samples by accelerator mass spectrometry. Applied Radiation and Isotopes, 1999, 51, 315-322.	0.7	24
82	³⁶ Cl in modern atmospheric precipitation. Geophysical Research Letters, 1999, 26, 1401-1404.	1.5	24
83	Determination of ¹²⁹ I/ ¹²⁷ I in aerosol samples in Seville (Spain). Journal of Environmental Radioactivity, 2005, 84, 103-109.	0.9	24
84	Accelerator Mass Spectrometry of ¹²⁹ I towards its lower limits. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 445-449.	0.6	24
85	Cosmogenic radionuclides reveal an extreme solar particle storm near a solar minimum 9125 years BP. Nature Communications, 2022, 13, 214.	5.8	24
86	Evaluation of cAMS for ¹⁴ C microtracer ADME studies: opportunities to change the current drug development paradigm. Bioanalysis, 2018, 10, 321-339.	0.6	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.	1.4	23
88	Certification of a ⁴¹ Ca dose material for use in human studies (IRMM-3703) and a corresponding set of isotope reference materials for ⁴¹ Ca measurements (IRMM-3701). Nuclear Instruments & Methods in Physics Research B, 2005, 229, 281-292.	0.6	22
89	¹²⁹ I/ ¹²⁷ I ratios in Scottish coastal surface sea water: Geographical and temporal responses to changing emissions. Applied Geochemistry, 2007, 22, 619-627.	1.4	22
90	Tracing water masses with ¹²⁹ I and ²³⁶ U in the subpolar North Atlantic along the GEOTRACES GA01 section. Biogeosciences, 2018, 15, 5545-5564.	1.3	22

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91	Wet and dry deposition of ¹²⁹ I in Seville (Spain) measured by accelerator mass spectrometry. <i>Journal of Environmental Radioactivity</i> , 2001, 55, 269-282.	0.9	21
92	¹⁰ Be and ²⁶ Al low-energy AMS using He-stripping and background suppression via an absorber. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014, 331, 209-214.	0.6	21
93	Laser Ablation ¹⁴ C Accelerator Mass Spectrometry: An Approach for Rapid Radiocarbon Analyses of Carbonate Archives at High Spatial Resolution. <i>Analytical Chemistry</i> , 2016, 88, 8570-8576.	3.2	21
94	Proof-of-principle of a compact 300 kV multi-isotope AMS facility. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2019, 439, 84-89.	0.6	21
95	Tree-rings reveal two strong solar proton events in 7176 and 5259 BCE. <i>Nature Communications</i> , 2022, 13, 1196.	5.8	21
96	Combined ¹⁴ C Analysis of Canvas and Organic Binder for Dating a Painting. <i>Radiocarbon</i> , 2018, 60, 207-218.	0.8	20
97	Quality Dating: A Well-Defined Protocol Implemented at ETH for High-Precision ¹⁴ C-Dates Tested on Late Glacial Wood. <i>Radiocarbon</i> , 2020, 62, 891-899.	0.8	20
98	New concepts of ¹⁰ Be AMS at low energies. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007, 259, 173-177.	0.6	19
99	¹⁴ C analysis of groundwater down to the millilitre level. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013, 294, 573-576.	0.6	19
100	³⁶ Cl and ¹²⁹ I in the Yenisei, Kolyma, and Mackenzie Rivers. <i>Environmental Science & Technology</i> , 1997, 31, 1834-1836.	4.6	18
101	¹²⁹ I/ ¹²⁷ I ratios in surface waters of the English Lake District. <i>Applied Geochemistry</i> , 2007, 22, 628-636.	1.4	18
102	Determination of Atto- to Femtogram Levels of Americium and Curium Isotopes in Large-Volume Urine Samples by Compact Accelerator Mass Spectrometry. <i>Analytical Chemistry</i> , 2016, 88, 2832-2837.	3.2	18
103	Accelerator mass spectrometry as a powerful tool for the determination of ¹²⁹ I in rainwater. <i>Applied Radiation and Isotopes</i> , 2000, 53, 81-85.	0.7	17
104	^{239,240} Pu and ²³⁶ U records of an ice core from the eastern Tien Shan (Central Asia). <i>Journal of Glaciology</i> , 2017, 63, 929-935.	1.1	17
105	Retrospective dosimetry of Iodine-131 exposures using Iodine-129 and Caesium-137 inventories in soils – A critical evaluation of the consequences of the Chernobyl accident in parts of Northern Ukraine. <i>Journal of Environmental Radioactivity</i> , 2015, 150, 20-35.	0.9	16
106	Analysis of Iodine-129 in Environmental Materials: Quality Assurance and Applications. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2000, 244, 45-50.	0.7	15
107	The youngest natural oil on earth. <i>Doklady Chemistry</i> , 2011, 438, 144-147.	0.2	15
108	Dual isotope system analysis of lead white in artworks. <i>Analyst</i> , 2020, 145, 1310-1318.	1.7	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.	0.6	14
110	In-situ cosmogenic ¹⁴ C analysis at ETH Zürich: Characterization and performance of a new extraction system. Nuclear Instruments & Methods in Physics Research B, 2019, 457, 30-36.	0.6	14
111	Radiocarbon Dating and the Protection of Cultural Heritage. Radiocarbon, 2019, 61, 1133-1134.	0.8	14
112	The Ins and Outs of ¹⁴ C Dating Lead White Paint for Artworks Application. Analytical Chemistry, 2020, 92, 7674-7682.	3.2	14
113	Elastic photoproduction of charged pions on ³ He and ³ H in the $\hat{\Gamma}^{\prime\prime}(1232)$ resonance region. Nuclear Physics A, 1987, 470, 429-444.	0.6	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.	0.6	13
115	²³¹ Pa/ ²³⁰ Th: A proxy for upwelling off the coast of West Africa. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 1159-1162.	0.6	13
116	Cross sections for the formation of long-lived radionuclides ¹⁰ Be, ²⁶ Al and ³⁶ Cl in 14.6 MeV neutron induced reactions determined via accelerator mass spectrometry (AMS). Radiochimica Acta, 2000, 88, 829-832.	0.5	12
117	Are Compact AMS Facilities a Competitive Alternative to Larger Tandem Accelerators?. Radiocarbon, 2010, 52, 319-330.	0.8	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.	1.2	12
119	¹⁴ C Analysis and Sample Preparation at the New Bern Laboratory for the Analysis of Radiocarbon with AMS (LARA). Radiocarbon, 2014, 56, 561-566.	0.8	12
120	Concentrations of iodine isotopes (¹²⁹ I and ¹²⁷ I) and their isotopic ratios in aerosol samples from Northern Germany. Journal of Environmental Radioactivity, 2016, 154, 101-108.	0.9	11
121	Projectile X-ray detection: application and limits. Nuclear Instruments & Methods in Physics Research B, 1995, 99, 519-523.	0.6	10
122	Carrier-free measurements of natural ¹⁰ Be/ ⁹ Be ratios at low energies. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 726-729.	0.6	10
123	Direct radiocarbon analysis of exhaled air. Journal of Analytical Atomic Spectrometry, 2011, 26, 287-292.	1.6	10
124	Existence of triply charged actinide-hydride molecules. Physical Review A, 2012, 85, .	1.0	10
125	²⁶ Al measurements below 500 kV in charge state 2+. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 257-262.	0.6	10
126	Novel Laser Ablation Sampling Device for the Rapid Radiocarbon Analysis of Carbonate Samples by Accelerator Mass Spectrometry. Radiocarbon, 2016, 58, 419-435.	0.8	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. <i>Terra Nova</i> , 1996, 8, 324-333.	0.9	9
128	Carrier free $^{10}\text{Be}/^{9}\text{Be}$ measurements with low-energy AMS: Determination of sedimentation rates in the Arctic Ocean. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013, 294, 67-71.	0.6	9
129	A simple Bragg detector design for AMS and IBA applications. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015, 356-357, 81-87.	0.6	9
130	Non-destructive and radiochemical determination of the neutron-induced production cross section of ^{129}I from Te and other neutron-induced cross sections on Te at 14.7 MeV. <i>Radiochimica Acta</i> , 2000, 88, 439-444.	0.5	8
131	Production rates and proton-induced production cross sections of ^{129}I from Te and Ba: An attempt to model the ^{129}I production in stony meteoroids and ^{129}I in a Knyahinya sample. <i>Meteoritics and Planetary Science</i> , 2004, 39, 453-466.	0.7	8
132	Charge state distributions and charge exchange cross sections of carbon in helium at 30-258 keV. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015, 361, 541-547.	0.6	8
133	Time-of-flight MeV-SIMS with beam induced secondary electron trigger. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016, 380, 94-98.	0.6	8
134	The "Enhancement" of Cultural Heritage by AMS Dating: Ethical Questions and Practical Proposals. <i>Radiocarbon</i> , 2017, 59, 559-563.	0.8	8
135	Accelerator mass spectrometry of ^{26}Al at 6 MV using AlO^{\oplus} ions and a gas-filled magnet. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017, 406, 272-277.	0.6	8
136	Optimizing the analyte introduction for ^{14}C laser ablation-AMS. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 1813-1819.	1.6	8
137	Glacial erosion by the Trift glacier (Switzerland): Deciphering the development of riegels, rock basins and gorges. <i>Geomorphology</i> , 2021, 375, 107533.	1.1	8
138	^{36}Cl in ground water of the Mazowsze basin (Poland). <i>Journal of Hydrology</i> , 1990, 118, 373-385.	2.3	7
139	A new design of a Cs sputter ion source for accelerator mass spectrometry. <i>Review of Scientific Instruments</i> , 1992, 63, 2485-2487.	0.6	7
140	^{41}Ca , ^{14}C and ^{10}Be concentrations in coral sand from the Bikini atoll. <i>Journal of Environmental Radioactivity</i> , 2014, 129, 68-72.	0.9	7
141	MeV-SIMS capillary microprobe for molecular imaging. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017, 412, 185-189.	0.6	7
142	Chlorine-36 and cesium-137 in ice-core samples from mid-latitude glacial sites in the Northern Hemisphere. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2000, 172, 812-816.	0.6	6
143	Oral Vitamin D Supplements Increase Serum 25-Hydroxyvitamin D in Postmenopausal Women and Reduce Bone Calcium Flux Measured by ^{41}Ca Skeletal Labeling. <i>Journal of Nutrition</i> , 2015, 145, 2333-2340.	1.3	6
144	Simulation of ion beam scattering in a gas stripper. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015, 361, 237-244.	0.6	6

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145	¹⁴ C Contamination Testing in Natural Abundance Laboratories: A New Preparation Method Using Wet Chemical Oxidation and Some Experiences. Radiocarbon, 2016, 58, 935-941.	0.8	6
146	ColPuS, a new multi-isotope plutonium standard for Accelerator Mass Spectrometry. Nuclear Instruments & Methods in Physics Research B, 2019, 438, 189-192.	0.6	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.	0.7	6
148	Direct search for primordial ²⁴⁴ Pu in Bayan Obo bastnaesite. Chinese Chemical Letters, 2022, 33, 3522-3526.	4.8	6
149	Accelerator mass spectrometry: New applications. Applied Radiation and Isotopes, 1995, 46, 457-466.	0.7	5
150	Status of mass spectrometric radiocarbon detection at ETHZ. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 245-249.	0.6	4
151	Ultrasensitive Analytical Method for Direct Search of Primordial ²⁴⁴ Pu in Bastnaesite. ACS Earth and Space Chemistry, 2021, 5, 1316-1324.	1.2	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.	1.4	3
153	Rapid Revelation of Radiocarbon Records with Laser Ablation Accelerator Mass Spectrometry. Chimia, 2014, 68, 215.	0.3	3
154	The new AMS system at CEDAD for the analysis of ¹⁰ Be, ²⁶ Al, ¹²⁹ I and actinides: Set-up and performances. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 100-104.	0.6	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.	0.6	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.	1.1	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.	0.6	2
158	Advances and limitations of ¹⁴ C dating in the field of heritage sciences. Techne, 2021, , 111-117.	0.0	2
159	A Simple Way to Upgrade a Compact Radiocarbon AMS Facility for ¹⁰ Be. Radiocarbon, 2013, 55, 231-236.	0.8	1
160	Further improvement for ¹⁰ Be measurement on an upgraded compact AMS radiocarbon facility. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 178-182.	0.6	1
161	WILLY WÄLFELI (1930–2014): A NUCLEAR PHYSICIST WITH PIONEERING VISIONS. Radiocarbon, 0, , 1-3.	0.8	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.	0.6	1

#	ARTICLE	IF	CITATIONS
163	Radiochemical analysis of concrete samples from accelerator waste. Radiochimica Acta, 2012, 100, 851-856.	0.5	0
164	A Simple Way to Upgrade a Compact Radiocarbon AMS Facility for ^{10}Be . Radiocarbon, 2013, 55, .	0.8	0
165	^{14}C Contamination Testing in Natural Abundance Laboratories: A New Preparation Method Using Wet Chemical Oxidation and Some Experiences – CORRIGENDUM. Radiocarbon, 2017, 59, 269-269.	0.8	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.	0.4	0