

Hans->Arno Synal

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/297208/publications.pdf>

Version: 2024-02-01

167
papers

8,338
citations

50244

46
h-index

54882

84
g-index

169
all docs

169
docs citations

169
times ranked

6781
citing authors

#	ARTICLE	IF	CITATIONS
1	Cosmogenic radionuclides reveal an extreme solar particle storm near a solar minimum 9125 years BP. <i>Nature Communications</i> , 2022, 13, 214.	5.8	24
2	Radiocarbon Concentration Measurements in Tree Leaves near SOCOCIM (Rufisque, Senegal), A Cement Factory. <i>Open Journal of Air Pollution</i> , 2022, 11, 1-12.	0.4	0
3	The Ticino-Toce glacier system (Swiss-Italian Alps) in the framework of the Alpine Last Glacial Maximum. <i>Quaternary Science Reviews</i> , 2022, 279, 107400.	1.4	23
4	Tree-rings reveal two strong solar proton events in 7176 and 5259 BCE. <i>Nature Communications</i> , 2022, 13, 1196.	5.8	21
5	Direct search for primordial ²⁴⁴ Pu in Bayan Obo bastnaesite. <i>Chinese Chemical Letters</i> , 2022, 33, 3522-3526.	4.8	6
6	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
7	Ultrasensitive Analytical Method for Direct Search of Primordial ²⁴⁴ Pu in Bastnaesite. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 1316-1324.	1.2	4
8	Double Trap Interface: A novel gas interface for high throughput analysis of biomedical samples by AMS. <i>Drug Metabolism and Pharmacokinetics</i> , 2021, 39, 100400.	1.1	3
9	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
10	A simultaneous dual-polarity mass spectrometer with electron start for MeV-SIMS. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2021, 507, 36-41.	0.6	1
11	Advances and limitations of ¹⁴ C dating in the field of heritage sciences. <i>Techné</i> , 2021, , 111-117.	0.0	2
12	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
13	The Ins and Outs of ¹⁴ C Dating Lead White Paint for Artworks Application. <i>Analytical Chemistry</i> , 2020, 92, 7674-7682.	3.2	14
14	Dual isotope system analysis of lead white in artworks. <i>Analyst, The</i> , 2020, 145, 1310-1318.	1.7	15
15	Quantifying glacial erosion on a limestone bed and the relevance for landscape development in the Alps. <i>Earth Surface Processes and Landforms</i> , 2020, 45, 1401-1417.	1.2	12
16	Unravelling 5 decades of anthropogenic ²³⁶ U discharge from nuclear reprocessing plants. <i>Science of the Total Environment</i> , 2020, 717, 137094.	3.9	29
17	ColPuS, a new multi-isotope plutonium standard for Accelerator Mass Spectrometry. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2019, 438, 189-192.	0.6	6
18	Radionuclides in surface waters around the damaged Fukushima Daiichi NPP one month after the accident: Evidence of significant tritium release into the environment. <i>Science of the Total Environment</i> , 2019, 689, 451-456.	3.9	46

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Selective Dating of Paint Components: Radiocarbon Dating of Lead White Pigment. Radiocarbon, 2019, 61, 473-493.	0.8	29
22	Radiocarbon Dating and the Protection of Cultural Heritage. Radiocarbon, 2019, 61, 1133-1134.	0.8	14
23	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
24	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
25	Multiradionuclide evidence for an extreme solar proton event around 2,610 B.P. (≈4660 BC). Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 5961-5966.	3.3	63
26	Proof-of-principle of a compact 300 keV multi-isotope AMS facility. Nuclear Instruments & Methods in Physics Research B, 2019, 439, 84-89.	0.6	21
27	Combined ¹⁴ C Analysis of Canvas and Organic Binder for Dating a Painting. Radiocarbon, 2018, 60, 207-218.	0.8	20
28	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
29	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
30	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
31	Tree rings reveal globally coherent signature of cosmogenic radiocarbon events in 774 and 993 CE. Nature Communications, 2018, 9, 3605.	5.8	98
32	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
33	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
34	Online ¹³ C and ¹⁴ C Gas Measurements by EA-IRMSA-AMS at ETH Zürich. Radiocarbon, 2017, 59, 893-903.	0.8	60
35	The "Enhancement" of Cultural Heritage by AMS Dating: Ethical Questions and Practical Proposals. Radiocarbon, 2017, 59, 559-563.	0.8	8
36	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

#	ARTICLE	IF	CITATIONS
37	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
38	Accelerator mass spectrometry of ^{26}Al at 6 MV using AlO^+ ions and a gas-filled magnet. Nuclear Instruments & Methods in Physics Research B, 2017, 406, 272-277.	0.6	8
39	^{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
40	MeV-SIMS capillary microprobe for molecular imaging. Nuclear Instruments & Methods in Physics Research B, 2017, 412, 185-189.	0.6	7
41	Anthropogenic ^{236}U in the North Sea " A Closer Look into a Source Region. Environmental Science & Technology, 2017, 51, 12146-12153.	4.6	26
42	Optimizing the analyte introduction for ^{14}C laser ablation-AMS. Journal of Analytical Atomic Spectrometry, 2017, 32, 1813-1819.	1.6	8
43	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
44	$^{239,240}\text{Pu}$ and ^{236}U records of an ice core from the eastern Tien Shan (Central Asia). Journal of Glaciology, 2017, 63, 929-935.	1.1	17
45	An improved north-south synchronization of ice core records around the 41 kyr ^{10}Be peak. Climate of the Past, 2017, 13, 217-229.	1.3	52
46	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
47	^{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
48	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
49	Time-of-flight MeV-SIMS with beam induced secondary electron trigger. Nuclear Instruments & Methods in Physics Research B, 2016, 380, 94-98.	0.6	8
50	Laser Ablation " Accelerator Mass Spectrometry: An Approach for Rapid Radiocarbon Analyses of Carbonate Archives at High Spatial Resolution. Analytical Chemistry, 2016, 88, 8570-8576.	3.2	21
51	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
52	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.	3.2	18
53	First ^{236}U data from the Arctic Ocean and use of $^{236}\text{U}/^{238}\text{U}$ and $^{129}\text{I}/^{236}\text{U}$ as a new dual tracer. Earth and Planetary Science Letters, 2016, 440, 127-134.	1.8	66
54	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

#	ARTICLE	IF	CITATIONS
55	Reconstruction of the ²³⁶ U input function for the North Atlantic Ocean: Implications for ¹²⁹ I/ ²³⁶ U and ²³⁶ U/ ²³⁸ U-based tracer ages. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 7202-7209.	1.0	46
56	²⁶ Al measurements below 500 keV in charge state 2+. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015, 361, 257-262.	0.6	10
57	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
58	RICH – A new AMS facility at the Royal Institute for Cultural Heritage, Brussels, Belgium. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015, 361, 120-123.	0.6	45
59	Status of mass spectrometric radiocarbon detection at ETHZ. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015, 361, 245-249.	0.6	4
60	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
61	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
62	Further improvement for ¹⁰ Be measurement on an upgraded compact AMS radiocarbon facility. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015, 361, 178-182.	0.6	1
63	The new AMS system at CEDAD for the analysis of ¹⁰ Be, ²⁶ Al, ¹²⁹ I and actinides: Set-up and performances. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015, 361, 100-104.	0.6	3
64	Accelerator Mass Spectrometry of ¹²⁹ I towards its lower limits. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015, 361, 445-449.	0.6	24
65	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
66	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
67	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
68	Post-Accident Sporadic Releases of Airborne Radionuclides from the Fukushima Daiichi Nuclear Power Plant Site. <i>Environmental Science & Technology</i> , 2015, 49, 14028-14035.	4.6	61
69	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
70	ULTRA-TRACE DETERMINATION OF NEPTUNIUM-237 AND PLUTONIUM ISOTOPES IN URINE SAMPLES BY COMPACT ACCELERATOR MASS SPECTROMETRY. <i>AECL Nuclear Review</i> , 2015, 4, 125-130.	0.1	0
71	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
72	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

#	ARTICLE	IF	CITATIONS
73	A first transect of ²³⁶ U in the North Atlantic Ocean. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 133, 34-46.	1.6	65
74	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
75	Low energy AMS of americium and curium. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014, 331, 225-232.	0.6	28
76	Rapid Revelation of Radiocarbon Records with Laser Ablation Accelerator Mass Spectrometry. <i>Chimia</i> , 2014, 68, 215.	0.3	3
77	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	12
78	Developments in accelerator mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2013, 349-350, 192-202.	0.7	83
79	MAMS – 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
80	Detection of UH ₃ ⁺ and ThH ₃ ⁺ molecules and ²³⁶ U background studies with low-energy AMS. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013, 294, 364-368.	0.6	27
81	C-14 analysis of groundwater down to the millilitre level. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013, 294, 573-576.	0.6	19
82	Carrier free ¹⁰ Be/ ⁹ 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
83	First data of Uranium-236 in the North Sea. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013, 294, 530-536.	0.6	36
84	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
85	Plutonium release from Fukushima Daiichi fosters the need for more detailed investigations. <i>Scientific Reports</i> , 2013, 3, 2988.	1.6	64
86	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
87	A Simple Way to Upgrade a Compact Radiocarbon AMS Facility for ¹⁰ Be. <i>Radiocarbon</i> , 2013, 55, 231-236.	0.8	1
88	A Simple Way to Upgrade a Compact Radiocarbon AMS Facility for ¹⁰ Be. <i>Radiocarbon</i> , 2013, 55, .	0.8	0
89	Existence of triply charged actinide-hydride molecules. <i>Physical Review A</i> , 2012, 85, .	1.0	10
90	Radiochemical analysis of concrete samples from accelerator waste. <i>Radiochimica Acta</i> , 2012, 100, 851-856.	0.5	0

#	ARTICLE	IF	CITATIONS
91	Ultra-trace determination of plutonium in urine samples using a compact accelerator mass spectrometry system operating at 300 kV. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 126-130.	1.6	34
92	A depth profile of uranium-236 in the Atlantic Ocean. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 77, 98-107.	1.6	55
93	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
94	Iodine-129, Iodine-127 and Caesium-137 in the environment: soils from Germany and Chile. <i>Journal of Environmental Radioactivity</i> , 2012, 112, 8-22.	0.9	32
95	Direct radiocarbon analysis of exhaled air. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 287-292.	1.6	10
96	The youngest natural oil on earth. <i>Doklady Chemistry</i> , 2011, 438, 144-147.	0.2	15
97	Accelerator mass spectrometry of ²³⁶ U at low energies. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2011, 269, 3199-3203.	0.6	26
98	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
99	Excitation functions for the production of long-lived residue nuclides in the reaction $\langle \sup \text{nat} \langle /sup \rangle \text{Bi}(p;xn,yp)Z$. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2011, 38, 065103.	1.4	3
100	Are Compact AMS Facilities a Competitive Alternative to Larger Tandem Accelerators?. <i>Radiocarbon</i> , 2010, 52, 319-330.	0.8	12
101	The relevance of ion optics for the development of small AMS facilities. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010, 268, 722-725.	0.6	13
102	Carrier-free measurements of natural ¹⁰ Be/ ⁹ Be ratios at low energies. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010, 268, 726-729.	0.6	10
103	²³¹ Pa/ ²³⁰ Th: A proxy for upwelling off the coast of West Africa. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010, 268, 1159-1162.	0.6	13
104	Isotopic signature of plutonium at Bikini atoll. <i>Applied Radiation and Isotopes</i> , 2010, 68, 979-983.	0.7	33
105	AMS measurement technique after 30years: Possibilities and limitations of low energy systems. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010, 268, 701-707.	0.6	32
106	¹²⁹ I AMS at 0.5MV tandem accelerator. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010, 268, 769-772.	0.6	28
107	BioMICADAS: Compact next generation AMS system for pharmaceutical science. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010, 268, 891-894.	0.6	34
108	MICADAS: Routine and High-Precision Radiocarbon Dating. <i>Radiocarbon</i> , 2010, 52, 252-262.	0.8	217

#	ARTICLE	IF	CITATIONS
109	On-line Radiocarbon Measurements of Small Samples Using Elemental Analyzer and MICADAS Gas Ion Source. Radiocarbon, 2010, 52, 1645-1656.	0.8	121
110	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
111	Surface exposure dating of the Flims landslide, Graubünden, Switzerland. Geomorphology, 2009, 103, 104-112.	1.1	147
112	Towards radiocarbon dating of ice cores. Journal of Glaciology, 2009, 55, 985-996.	1.1	45
113	^{36}Cl bomb peak: comparison of modeled and measured data. Atmospheric Chemistry and Physics, 2009, 9, 4145-4156.	1.9	25
114	Fossil and non-fossil sources of organic carbon (OC) and elemental carbon (EC) in Gäddede, Sweden. Atmospheric Chemistry and Physics, 2009, 9, 1521-1535.	1.9	240
115	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
116	$^{129}\text{I}/^{127}\text{I}$ ratios in Scottish coastal surface sea water: Geographical and temporal responses to changing emissions. Applied Geochemistry, 2007, 22, 619-627.	1.4	22
117	$^{129}\text{I}/^{127}\text{I}$ ratios in surface waters of the English Lake District. Applied Geochemistry, 2007, 22, 628-636.	1.4	18
118	Dominant impact of residential wood burning on particulate matter in Alpine valleys during winter. Geophysical Research Letters, 2007, 34, .	1.5	191
119	A Gas Ion Source for Radiocarbon Measurements at 200 kV. Radiocarbon, 2007, 49, 307-314.	0.8	176
120	MICADAS: A new compact radiocarbon AMS system. Nuclear Instruments & Methods in Physics Research B, 2007, 259, 7-13.	0.6	495
121	New concepts of ^{10}Be AMS at low energies. Nuclear Instruments & Methods in Physics Research B, 2007, 259, 173-177.	0.6	19
122	Advances in particle identification in AMS at low energies. Nuclear Instruments & Methods in Physics Research B, 2007, 259, 165-172.	0.6	56
123	Protactinium-231: A new radionuclide for AMS. Nuclear Instruments & Methods in Physics Research B, 2007, 262, 379-384.	0.6	25
124	Contributions of fossil fuel, biomass-burning, and biogenic emissions to carbonaceous aerosols in Zurich as traced by ^{14}C . Journal of Geophysical Research, 2006, 111, .	3.3	330
125	Radiocarbon analysis in an Alpine ice core: record of anthropogenic and biogenic contributions to carbonaceous aerosols in the past (1650-1940). Atmospheric Chemistry and Physics, 2006, 6, 5381-5390.	1.9	105
126	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

#	ARTICLE	IF	CITATIONS
127	Determination of ¹²⁹ I/ ¹²⁷ I in aerosol samples in Seville (Spain). <i>Journal of Environmental Radioactivity</i> , 2005, 84, 103-109.	0.9	24
128	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). <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005, 229, 281-292.	0.6	22
129	A universal and competitive compact AMS facility. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005, 240, 483-489.	0.6	69
130	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
131	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
132	Radiocarbon AMS towards its low-energy limits. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004, 223-224, 339-345.	0.6	42
133	Initial results from isotope dilution for ³⁵ S 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
134	Relative influence of ¹²⁹ I sources in a sediment core from the Kattegat area. <i>Science of the Total Environment</i> , 2004, 323, 195-210.	3.9	40
135	Timing of deglaciation on the northern Alpine foreland (Switzerland). <i>Eclogae Geologicae Helveticae</i> , 2004, 97, 47-55.	0.6	184
136	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
137	Source Apportionment of Aerosols by ¹⁴ C Measurements in Different Carbonaceous Particle Fractions. <i>Radiocarbon</i> , 2004, 46, 475-484.	0.8	123
138	Seasonal deuterium excess in a Tien Shan ice core: Influence of moisture transport and recycling in Central Asia. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	53
139	Cosmogenic nuclides during Isotope Stages 2 and 3. <i>Quaternary Science Reviews</i> , 2002, 21, 1129-1139.	1.4	68
140	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. <i>Earth and Planetary Science Letters</i> , 2001, 193, 515-521.	1.8	46
141	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
142	On the origin of ¹²⁹ I in rain water near Zürich. <i>Radiochimica Acta</i> , 2001, 89, 815-822.	0.5	30
143	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
144	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

#	ARTICLE	IF	CITATIONS
145	Analysis of Iodine-129 in Environmental Materials: Quality Assurance and Applications. Journal of Radioanalytical and Nuclear Chemistry, 2000, 244, 45-50.	0.7	15
146	Glaciochemical dating of an ice core from upper Grenzgletscher (4200 m a.s.l.). Journal of Glaciology, 2000, 46, 507-515.	1.1	91
147	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
148	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.	0.5	8
149	Chlorine-36 evidence for the Mono Lake event in the Summit GRIP ice core. Earth and Planetary Science Letters, 2000, 181, 1-6.	1.8	147
150	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
151	Determination of in atmospheric samples by accelerator mass spectrometry. Applied Radiation and Isotopes, 1999, 51, 315-322.	0.7	24
152	^{36}Cl in modern atmospheric precipitation. Geophysical Research Letters, 1999, 26, 1401-1404.	1.5	24
153	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.	3.9	80
154	Geomagnetic Modulation of the ^{36}Cl Flux in the GRIP Ice Core, Greenland. Science, 1998, 279, 1330-1332.	6.0	124
155	^{36}Cl and ^{129}I in the Yenisei, Kolyma, and Mackenzie Rivers. Environmental Science & Technology, 1997, 31, 1834-1836.	4.6	18
156	Tropical Climate Instability: The Last Glacial Cycle from a Qinghai-Tibetan Ice Core. Science, 1997, 276, 1821-1825.	6.0	993
157	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.	0.9	9
158	Accelerator mass spectrometry: New applications. Applied Radiation and Isotopes, 1995, 46, 457-466.	0.7	5
159	Projectile X-ray detection: application and limits. Nuclear Instruments & Methods in Physics Research B, 1995, 99, 519-523.	0.6	10
160	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
161	Transfer of atmospheric constituents into an alpine snow field. Atmospheric Environment Part A General Topics, 1993, 27, 1881-1890.	1.3	36
162	A new design of a Cs sputter ion source for accelerator mass spectrometry. Review of Scientific Instruments, 1992, 63, 2485-2487.	0.6	7

#	ARTICLE	IF	CITATIONS
163	History of the paired lunar meteorites MAC88104 and MAC88105 derived from noble gas isotopes, radionuclides, and some chemical abundances. <i>Geochimica Et Cosmochimica Acta</i> , 1991, 55, 3139-3148.	1.6	49
164	³⁶ Cl in ground water of the Mazowsze basin (Poland). <i>Journal of Hydrology</i> , 1990, 118, 373-385.	2.3	7
165	Elastic photoproduction of charged pions on ³ He and ³ H in the $\hat{\pi}^*$ (1232) resonance region. <i>Nuclear Physics A</i> , 1987, 470, 429-444.	0.6	13
166	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
167	WILLY WÄ—LFLI (1930â€“2014): A NUCLEAR PHYSICIST WITH PIONEERING VISIONS. <i>Radiocarbon</i> , 0, , 1-3.	0.8	1