

# Peter Steier

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5336205/publications.pdf>

Version: 2024-02-01

187  
papers

6,249  
citations

87723

38  
h-index

88477

70  
g-index

190  
all docs

190  
docs citations

190  
times ranked

5675  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Age of Olfactory Bulb Neurons in Humans. <i>Neuron</i> , 2012, 74, 634-639.	3.8	333
2	Dynamics of human adipose lipid turnover in health and metabolic disease. <i>Nature</i> , 2011, 478, 110-113.	13.7	319
3	Biogeochemically diverse organic matter in Alpine glaciers and its downstream fate. <i>Nature Geoscience</i> , 2012, 5, 710-714.	5.4	254
4	Recent near-Earth supernovae probed by global deposition of interstellar radioactive <sup>60</sup> Fe. <i>Nature</i> , 2016, 532, 69-72.	13.7	205
5	Iodine-129 in Seawater Offshore Fukushima: Distribution, Inorganic Speciation, Sources, and Budget. <i>Environmental Science &amp; Technology</i> , 2013, 47, 3091-3098.	4.6	193
6	Natural and anthropogenic <sup>236</sup> U in environmental samples. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2008, 266, 2246-2250.	0.6	166
7	Chronology for the Aegean Late Bronze Age 1700-1400 B.C.. <i>Science</i> , 2006, 312, 565-569.	6.0	163
8	New Half-Life Measurement of <sup>182</sup> Hf: Improved Chronometer for the Early Solar System. <i>Physical Review Letters</i> , 2004, 93, 172501.	2.9	147
9	Direct dating of Early Upper Palaeolithic human remains from Mladeč. <i>Nature</i> , 2005, 435, 332-335.	13.7	140
10	Abundance of live <sup>244</sup> Pu in deep-sea reservoirs on Earth points to rarity of actinide nucleosynthesis. <i>Nature Communications</i> , 2015, 6, 5956.	5.8	139
11	First results on <sup>236</sup> U levels in global fallout. <i>Science of the Total Environment</i> , 2009, 407, 4238-4242.	3.9	134
12	Precise dating of the Middle-to-Upper Paleolithic transition in Murcia (Spain) supports late Neandertal persistence in Iberia. <i>Heliyon</i> , 2017, 3, e00435.	1.4	117
13	Cesium, iodine and tritium in NW Pacific waters – a comparison of the Fukushima impact with global fallout. <i>Biogeosciences</i> , 2013, 10, 5481-5496.	1.3	116
14	Accelerator mass spectrometry of heavy long-lived radionuclides. <i>International Journal of Mass Spectrometry</i> , 2003, 223-224, 713-732.	0.7	108
15	The Use of Bayesian Statistics for <sup>14</sup> C Dates of Chronologically Ordered Samples: A Critical Analysis. <i>Radiocarbon</i> , 2000, 42, 183-198.	0.8	104
16	Isotopic determination of U, Pu and Cs in environmental waters following the Fukushima Daiichi Nuclear Power Plant accident. <i>Geochemical Journal</i> , 2012, 46, 355-360.	0.5	92
17	Airborne Plutonium and Non-Natural Uranium from the Fukushima DNPP Found at 120 km Distance a Few Days after Reactor Hydrogen Explosions. <i>Environmental Science &amp; Technology</i> , 2014, 48, 3808-3814.	4.6	81
18	Uranium-236 as a new oceanic tracer: A first depth profile in the Japan Sea and comparison with caesium-137. <i>Earth and Planetary Science Letters</i> , 2012, 333-334, 165-170.	1.8	77

#	ARTICLE	IF	CITATIONS
19	Isotopic Compositions of <sup>236</sup> U and Pu Isotopes in "Black Substances" Collected from Roadsides in Fukushima Prefecture: Fallout from the Fukushima Dai-ichi Nuclear Power Plant Accident. <i>Environmental Science &amp; Technology</i> , 2014, 48, 3691-3697.	4.6	74
20	Pego do Diabo (Loures, Portugal): Dating the Emergence of Anatomical Modernity in Westernmost Eurasia. <i>PLoS ONE</i> , 2010, 5, e8880.	1.1	73
21	Analysis and application of heavy isotopes in the environment. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2010, 268, 1045-1049.	0.6	68
22	Bomb fall-out <sup>236</sup> U as a global oceanic tracer using an annually resolved coral core. <i>Earth and Planetary Science Letters</i> , 2012, 359-360, 124-130.	1.8	67
23	Ultra-trace analysis of <sup>36</sup> Cl by accelerator mass spectrometry: an interlaboratory study. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 3125-3132.	1.9	56
24	Pushing the Precision Limit of <sup>14</sup> C AMS. <i>Radiocarbon</i> , 2004, 46, 5-16.	0.8	55
25	Determination of plutonium in environmental samples by AMS and alpha spectrometry. <i>Applied Radiation and Isotopes</i> , 2005, 63, 633-638.	0.7	55
26	The Chronology of Tell El-Daba: A Crucial Meeting Point of <sup>14</sup> C Dating, Archaeology, and Egyptology in the 2nd Millennium BC. <i>Radiocarbon</i> , 2012, 54, 407-422.	0.8	55
27	Predicting soil organic matter stability in agricultural fields through carbon and nitrogen stable isotopes. <i>Soil Biology and Biochemistry</i> , 2015, 88, 29-38.	4.2	54
28	<sup>236</sup> U/ <sup>238</sup> U and <sup>240</sup> Pu/ <sup>239</sup> Pu isotopic ratios in small (2ÅL) sea and river water samples. <i>Journal of Environmental Radioactivity</i> , 2013, 116, 54-58.	0.9	53
29	Heavy ion AMS with a "small" accelerator. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2002, 188, 283-287.	0.6	52
30	VERA, an AMS facility for "all" isotopes. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2004, 223-224, 67-71.	0.6	52
31	<sup>14</sup> C Dating of the Upper Paleolithic Site at Krems-Hundssteig in Lower Austria. <i>Radiocarbon</i> , 2008, 50, 1-10.	0.8	51
32	Comparative biotransformation studies of MeIQx and PhIP in animal models and humans. <i>Cancer Letters</i> , 1999, 143, 161-165.	3.2	48
33	The first use of <sup>236</sup> U in the general environment and near a shutdown nuclear power plant. <i>Applied Radiation and Isotopes</i> , 2009, 67, 1775-1780.	0.7	46
34	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
35	VERA: A new AMS facility in Vienna. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1997, 123, 47-50.	0.6	43
36	Neolithic Massacres: Local Skirmishes or General Warfare in Europe?. <i>Radiocarbon</i> , 2004, 46, 377-385.	0.8	43

#	ARTICLE	IF	CITATIONS
37	233U/236U signature allows to distinguish environmental emissions of civil nuclear industry from weapons fallout. Nature Communications, 2020, 11, 1275.	5.8	43
38	Uranium from German Nuclear Power Projects of the 1940s – A Nuclear Forensic Investigation. Angewandte Chemie - International Edition, 2015, 54, 13452-13456.	7.2	41
39	Experimental and Theoretical Evidence for Long-Lived Molecular Hydrogen Anions H <sub>2</sub> <sup>-</sup> and D <sub>2</sub> <sup>-</sup> . Physical Review Letters, 2005, 94, 223003.	2.9	40
40	Feasibility of using 236U to reconstruct close-in fallout deposition from the Hiroshima atomic bomb. Science of the Total Environment, 2010, 408, 5392-5398.	3.9	39
41	Depth profile of 236U/238U in soil samples in La Palma, Canary Islands. Journal of Environmental Radioactivity, 2011, 102, 614-619.	0.9	39
42	Measurements of <sup>236</sup> U in Ancient and Modern Peat Samples and Implications for Postdepositional Migration of Fallout Radionuclides. Environmental Science & Technology, 2013, 47, 5243-5250.	4.6	36
43	Sequential Injection Method for Rapid and Simultaneous Determination of <sup>236</sup> U, <sup>237</sup> Np, and Pu Isotopes in Seawater. Analytical Chemistry, 2013, 85, 11026-11033.	3.2	36
44	Age Determination of Fossil Bones from the Vindija Neanderthal Site in Croatia. Radiocarbon, 2001, 43, 1021-1028.	0.8	35
45	182Hf, a new isotope for AMS. Nuclear Instruments & Methods in Physics Research B, 2004, 223-224, 823-828.	0.6	35
46	Novel Method to Study Neutron Capture of $U$ and $^{235}U$	2.9	35
47	Radiocarbon re-dating of contact-era Iroquoian history in northeastern North America. Science Advances, 2018, 4, eaav0280.	4.7	35
48	First <sup>14</sup> C Results from Archaeological and Forensic Studies at the Vienna Environmental Research Accelerator. Radiocarbon, 1997, 40, 273-281.	0.8	34
49	A review on 129I analysis in air. Journal of Environmental Radioactivity, 2013, 126, 45-54.	0.9	33
50	<sup>14</sup> C Dating of the Upper Paleolithic Site at Krems-Wachtberg, Austria. Radiocarbon, 2009, 51, 847-855.	0.8	32
51	Sphagnum-dominated bog systems are highly effective yet variable sources of bio-available iron to marine waters. Science of the Total Environment, 2016, 556, 53-62.	3.9	32
52	Accelerator Mass Spectrometry of Actinides in Ground- and Seawater: An Innovative Method Allowing for the Simultaneous Analysis of U, Np, Pu, Am, and Cm Isotopes below ppq Levels. Analytical Chemistry, 2015, 87, 5766-5773.	3.2	31
53	AMS of natural 236U and 239Pu produced in uranium ores. Nuclear Instruments & Methods in Physics Research B, 2007, 259, 727-732.	0.6	30
54	Tectonic implications of fluvial incision and pediment deformation at the northern margin of the Central Anatolian Plateau based on multiple cosmogenic nuclides. Tectonics, 2013, 32, 1107-1120.	1.3	30

#	ARTICLE	IF	CITATIONS
55	Determination of $^{239}\text{Pu}$ , $^{240}\text{Pu}$ , $^{241}\text{Pu}$ and $^{242}\text{Pu}$ at femtogram and attogram levels – evidence for the migration of fallout plutonium in an ombrotrophic peat bog profile. <i>Environmental Sciences: Processes and Impacts</i> , 2013, 15, 839.	1.7	30
56	Method for $^{236}\text{U}$ Determination in Seawater Using Flow Injection Extraction Chromatography and Accelerator Mass Spectrometry. <i>Analytical Chemistry</i> , 2015, 87, 7411-7417.	3.2	30
57	Temporal and vertical distributions of anthropogenic $^{236}\text{U}$ in the $^{14}\text{C}$ plateau using a coral core and seawater samples. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 4-13.	1.0	30
58	D-REAMS: A New Compact AMS System for Radiocarbon Measurements at the Weizmann Institute of Science, Rehovot, Israel. <i>Radiocarbon</i> , 2017, 59, 775-784.	0.8	30
59	Search for live $^{182}\text{Hf}$ in deep-sea sediments. <i>New Astronomy Reviews</i> , 2004, 48, 161-164.	5.2	29
60	$^{14}\text{C}$ Dating of Humic Acids from Bronze and Iron Age Plant Remains from the Eastern Mediterranean. <i>Radiocarbon</i> , 2013, 55, 599-607.	0.8	29
61	Opportunities and limits of AMS with 3-MV tandem accelerators. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2005, 240, 445-451.	0.6	27
62	Determination of U, Pu and Am isotopes in Irish Sea sediment by a combination of AMS and radiometric methods. <i>Journal of Environmental Radioactivity</i> , 2011, 102, 331-335.	0.9	27
63	Constraints on the major sources of dissolved organic carbon in Alpine ice cores from radiocarbon analysis over the bomb-peak period. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 3319-3327.	1.2	26
64	First study on $^{236}\text{U}$ in the Northeast Pacific Ocean using a new target preparation procedure for AMS measurements. <i>Journal of Environmental Radioactivity</i> , 2016, 162-163, 244-250.	0.9	26
65	An unknown source of reactor radionuclides in the Baltic Sea revealed by multi-isotope fingerprints. <i>Nature Communications</i> , 2021, 12, 823.	5.8	26
66	A combined method for the determination of the isotopic vector of plutonium isotopes in environmental samples. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2008, 276, 789-793.	0.7	25
67	Determination of the isotopic ratio $^{236}\text{U}/^{238}\text{U}$ in Austrian water samples. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2010, 268, 1146-1149.	0.6	25
68	Investigation of the $^{236}\text{U}/^{238}\text{U}$ isotope abundance ratio in uranium ores and yellow cake samples. <i>Radiochimica Acta</i> , 2011, 99, 335-339.	0.5	25
69	AMS of the Minor Plutonium Isotopes. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2013, 294, 160-164.	0.6	25
70	He stripping for AMS of $^{236}\text{U}$ and other actinides using a 3 MV tandem accelerator. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2015, 361, 458-464.	0.6	25
71	Vertical distribution of $^{236}\text{U}$ in the North Pacific Ocean. <i>Journal of Environmental Radioactivity</i> , 2017, 169-170, 70-78.	0.9	25
72	Limits on Supernova-Associated $^{60}\text{Fe}$ and $^{26}\text{Al}$ in the Earth's Crust. <i>Journal of Geophysical Research</i> , 2017, 122, 1111-1121.	0.5	25

#	ARTICLE	IF	CITATIONS
73	High-precision dendro-14C dating of two cedar wood sequences from First Intermediate Period and Middle Kingdom Egypt and a small regional climate-related 14C divergence. <i>Journal of Archaeological Science</i> , 2014, 46, 401-416.	1.2	24
74	Anthropogenic <sup>236</sup> U in Danish Seawater: Global Fallout versus Reprocessing Discharge. <i>Environmental Science &amp; Technology</i> , 2017, 51, 6867-6876.	4.6	24
75	Evidence for Early Human Presence at High Altitudes in the Tztal Alps (Austria/Italy). <i>Radiocarbon</i> , 2014, 56, 923-947.	0.8	23
76	The actinide beamline at VERA. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2019, 458, 82-89.	0.6	23
77	First performance tests of VERA. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1997, 123, 193-198.	0.6	22
78	AMS <sup>14</sup> C Dating of Equipment from the Iceman and of Spruce Logs from the Prehistoric Salt Mines of Hallstatt. <i>Radiocarbon</i> , 1999, 41, 183-197.	0.8	22
79	New Methods and Critical Aspects in Bayesian Mathematics for <sup>14</sup> C Calibration. <i>Radiocarbon</i> , 2001, 43, 373-380.	0.8	22
80	Radiocarbon Determination of Particulate Organic Carbon in Non-Tempered, Alpine Glacier Ice. <i>Radiocarbon</i> , 2006, 48, 69-82.	0.8	22
81	Measurement of the stellar cross sections for the reactions <sup>9</sup> Be(n, <sup>13</sup> ) <sup>10</sup> Be and <sup>13</sup> C(n, <sup>13</sup> ) <sup>14</sup> C via AMS. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2008, 35, 014018.	1.4	22
82	2500 years of anthropogenic and climatic landscape transformation in the Stymphalia polje, Greece. <i>Quaternary Science Reviews</i> , 2019, 213, 133-154.	1.4	22
83	70-Year Anthropogenic Uranium Imprints of Nuclear Activities in Baltic Sea Sediments. <i>Environmental Science &amp; Technology</i> , 2021, 55, 8918-8927.	4.6	22
84	The <sup>12</sup> C TOF detector for isobar separation at ion energies below 1MeV/amu. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2005, 240, 490-494.	0.6	21
85	Applications of a compact ionization chamber in AMS at energies below 1MeV/amu. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2008, 266, 2213-2216.	0.6	21
86	Plutonium Isotopes ( <sup>239</sup> U- <sup>241</sup> Pu) Dissolved in Pacific Ocean Waters Detected by Accelerator Mass Spectrometry: No Effects of the Fukushima Accident Observed. <i>Environmental Science &amp; Technology</i> , 2017, 51, 2031-2037.	4.6	21
87	A <sup>14</sup> C Calibration with AMS from 3500 to 3000 BC, Derived from A New High-Elevation Stone-Pine Tree-Ring Chronology. <i>Radiocarbon</i> , 2004, 46, 969-978.	0.8	20
88	A new IBA-AMS laboratory at the Comenius University in Bratislava (Slovakia). <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2015, 342, 321-326.	0.6	20
89	Systematic Investigations of <sup>14</sup> C Measurements at the Vienna Environmental Research Accelerator. <i>Radiocarbon</i> , 1997, 40, 255-263.	0.8	19
90	Isobar suppression in AMS using laser photodetachment. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2008, 266, 4565-4568.	0.6	19

#	ARTICLE	IF	CITATIONS
91	The ILIAMS project – An RFQ ion beam cooler for selective laser photodetachment at VERA. Nuclear Instruments & Methods in Physics Research B, 2019, 456, 213-217.	0.6	19
92	Vertical distribution of <sup>238</sup> Pu, <sup>239</sup> (40)Pu, <sup>241</sup> Am, <sup>90</sup> Sr and <sup>137</sup> Cs in Austrian soil profiles. Radiochimica Acta, 2008, 96, .	0.5	18
93	Studies on the Preparation of Small <sup>14</sup> C Samples with an RGA and <sup>13</sup> C-Enriched Material. Radiocarbon, 2010, 52, 1394-1404.	0.8	18
94	Dating a small impact crater: An age of Kaali crater (Estonia) based on charcoal emplaced within proximal ejecta. Meteoritics and Planetary Science, 2016, 51, 681-695.	0.7	18
95	The increase of soil organic carbon as proposed by the ‘‘4/1000 initiative’’ is strongly limited by the status of soil development - A case study along a substrate age gradient in Central Europe. Science of the Total Environment, 2018, 628-629, 840-847.	3.9	18
96	First dataset of <sup>236</sup> U and <sup>233</sup> U around the Greenland coast: A 5-year snapshot (2012–2016). Chemosphere, 2020, 257, 127185.	4.2	18
97	AMS analysis of iodine-129 in aerosols from Austria. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 3183-3187.	0.6	17
98	AMS of <sup>36</sup> Cl with the VERA 3MV tandem accelerator. Nuclear Instruments & Methods in Physics Research B, 2013, 294, 115-120.	0.6	17
99	Assessment of the radiological impact of a decommissioned nuclear power plant in Italy. Radioprotection, 2012, 47, 285-297.	0.5	16
100	Comparison of methods for the detection of <sup>10</sup> Be with AMS and a new approach based on a silicon nitride foil stack. International Journal of Mass Spectrometry, 2019, 444, 116175.	0.7	16
101	Pushing Limits of ICP-MS/MS for the Determination of Ultralow <sup>236</sup> U/ <sup>238</sup> U Isotope Ratios. Analytical Chemistry, 2020, 92, 7869-7876.	3.2	16
102	Selective laser photodetachment of intense atomic and molecular negative ion beams with the ILIAS RFQ ion beam cooler. International Journal of Mass Spectrometry, 2017, 415, 9-17.	0.7	15
103	<a href="http://www.w3.org/1998/Math/MathML">http://www.w3.org/1998/Math/MathML</a> <math>Fe^{54}</math> cross sections via accelerator	0.1	15
104	Cova de les Malladetes (Valencia, Spain): New Insights About the Early Upper Palaeolithic in the Mediterranean Basin of the Iberian Peninsula. Journal of Paleolithic Archaeology, 2021, 4, 1.	0.7	15
105	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.	0.7	14
106	Reassessment of <sup>182</sup> Hf AMS measurements at VERA. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 3180-3182.	0.6	14
107	The ILIAS project for selective isobar suppression by laser photodetachment. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 217-221.	0.6	14
108	Preparation Methods of <sup>14</sup> C Carbon Samples for <sup>14</sup> C Measurements. Radiocarbon, 2017, 59, 803-814.	0.8	14

#	ARTICLE	IF	CITATIONS
109	Search for beta-delayed proton emission from $^{11}\text{Be}$ . European Physical Journal A, 2020, 56, 1.	1.0	14
110	Highly sensitive $^{26}\text{Al}$ measurements by Ion-Laser-InterAction Mass Spectrometry. International Journal of Mass Spectrometry, 2021, 465, 116576.	0.7	14
111	New Chronological Frame for the Young Neolithic Baden Culture in Central Europe (4th Millennium) Tj ETQq1 1 0.784314 rgBT /Overl 0.8 13	0.8	13
112	The Filling of Gaps in Geophysical Time Series by Artificial Neural Networks. Radiocarbon, 2001, 43, 365-371.	0.8	13
113	Developments toward the measurement of I-129 in lignite. Nuclear Instruments & Methods in Physics Research B, 2007, 259, 714-720.	0.6	13
114	Reconstruction of the temporal distribution of $^{236}\text{U}/^{238}\text{U}$ in the Northwest Pacific Ocean using a coral core sample from the Kuroshio Current area. Marine Chemistry, 2017, 190, 28-34.	0.9	13
115	Prehistoric salt mining in Hallstatt, Austria. New chronologies out of small wooden fragments. Dendrochronologia, 2021, 66, 125814.	1.0	13
116	Comparison and performance of two cosmogenic nuclide sample preparation procedures of in situ produced $^{10}\text{Be}$ and $^{26}\text{Al}$ . Journal of Radioanalytical and Nuclear Chemistry, 2021, 329, 1523-1536.	0.7	13
117	Automated evaluation of C AMS measurements. Nuclear Instruments & Methods in Physics Research B, 2000, 172, 274-280.	0.6	12
118	Developing a detection method of environmental $^{244}\text{Pu}$ . Nuclear Instruments & Methods in Physics Research B, 2004, 223-224, 817-822.	0.6	12
119	Fluorides or hydrides? $^{41}\text{Ca}$ performance at VERA's 3-MV AMS facility. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 799-803.	0.6	12
120	$^{36}\text{Cl}$ exposure dating with a 3-MV tandem. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 744-747.	0.6	12
121	AMS Applications in Nuclear Astrophysics: New Results for $^{13}\text{C}(n, n^{\prime})^{13}\text{C}$ and $^{14}\text{C}(n, n^{\prime})^{14}\text{C}$ . Publications of the Astronomical Society of Australia, 2012, 29, 115-120.	1.3	12
122	Iodine Isotopes ( $^{127}\text{I}$ and $^{129}\text{I}$ ) in Aerosols at High Altitude Alp Stations. Environmental Science & Technology, 2012, 46, 8637-8644.	4.6	12
123	The Tyrolean Iceman and His Glacial Environment During the Holocene. Radiocarbon, 2017, 59, 395-405.	0.8	12
124	Radiocarbon concentration in tree-ring samples collected in the south-west Slovakia (1974-2013). Applied Radiation and Isotopes, 2017, 126, 58-60.	0.7	12
125	$^{36}\text{Cl}$ in a new light: AMS measurements assisted by ion-laser interaction. Nuclear Instruments & Methods in Physics Research B, 2019, 456, 163-168.	0.6	12
126	Developments towards a fully automated AMS system. Nuclear Instruments & Methods in Physics Research B, 2000, 161-163, 250-254.	0.6	11



#	ARTICLE	IF	CITATIONS
127	Recent advances in AMS of $^{36}\text{Cl}$ with a 3-MV-tandem. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 3188-3191.	0.6	11
128	European roe deer antlers as an environmental archive for fallout $^{236}\text{U}$ and $^{239}\text{Pu}$ . Journal of Environmental Radioactivity, 2016, 151, 587-592.	0.9	11
129	On the Quality Control for the Determination of Ultratrace-Level $^{236}\text{U}$ and $^{233}\text{U}$ in Environmental Samples by Accelerator Mass Spectrometry. Analytical Chemistry, 2021, 93, 3362-3369.	3.2	11
130	Revisiting the Middle and Upper Palaeolithic archaeology of Gruta do Caldeirão (Tomar, Portugal). PLoS ONE, 2021, 16, e0259089.	1.1	11
131	$^{14}\text{C}$ Measurements of Sub-Milligram Carbon Samples from Aerosols. Radiocarbon, 1997, 40, 265-272.	0.8	10
132	Accelerator Mass Spectrometry Analysis of Non-Soluble Carbon in Aerosol Particles from High Alpine Snow (Mt. Sonnblich, Austria). Radiocarbon, 2000, 42, 285-294.	0.8	10
133	$^{182}\text{Hf}$ FROM GEOPHYSICS TO ASTROPHYSICS. Nuclear Physics A, 2005, 758, 340-343.	0.6	10
134	AMS –A powerful tool for probing nucleosynthesis via long-lived radionuclides. European Physical Journal A, 2006, 27, 337-342.	1.0	10
135	Calorimetric low temperature detectors for low-energetic heavy ions and their application in accelerator mass spectrometry. Review of Scientific Instruments, 2009, 80, 103304.	0.6	10
136	On the effect of organic carbon on rehydroxylation (RHX) dating. Journal of Archaeological Science, 2015, 57, 92-97.	1.2	10
137	Deciphering anthropogenic uranium sources in the equatorial northwest Pacific margin. Science of the Total Environment, 2022, 806, 150482.	3.9	10
138	AMS Radiocarbon Dating of Bone Samples from the Xinzhai Site in China. Radiocarbon, 2005, 47, 21-25.	0.8	9
139	Ion source refinement at VERA. Nuclear Instruments & Methods in Physics Research B, 2007, 259, 94-99.	0.6	9
140	The new injection beamline at VERA. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 824-826.	0.6	9
141	Carbon background and ionization yield of an AMS system during $^{14}\text{C}$ measurements of microgram-size graphite samples. Nuclear Instruments & Methods in Physics Research B, 2013, 294, 335-339.	0.6	9
142	Multiactinide Analysis with Accelerator Mass Spectrometry for Ultratrace Determination in Small Samples: Application to an in Situ Radionuclide Tracer Test within the Colloid Formation and Migration Experiment at the Grimsel Test Site (Switzerland). Analytical Chemistry, 2017, 89, 7182-7189.	3.2	9
143	The quest for AMS of $^{182}\text{Hf}$ – why poor gas gives pure beams. EPJ Web of Conferences, 2020, 232, 02003.	0.1	9
144	Determining the age and possibility for an extraterrestrial impact formation mechanism of the Ilumetsa structures (Estonia). Meteoritics and Planetary Science, 2020, 55, 274-293.	0.7	9

#	ARTICLE	IF	CITATIONS
145	Radiocarbon analysis of carbonaceous aerosols in Bratislava, Slovakia. Journal of Environmental Radioactivity, 2020, 218, 106221.	0.9	9
146	5 YEARS OF ION-LASER INTERACTION MASS SPECTROMETRY'S STATUS AND PROSPECTS OF ISOBAR SUPPRESSION IN AMS BY LASERS. Radiocarbon, 2022, 64, 555-568.	0.8	9
147	Developing Accelerator Mass Spectrometry Capabilities for Anthropogenic Radionuclide Analysis to Extend the Set of Oceanographic Tracers. Frontiers in Marine Science, 2022, 9, .	1.2	9
148	14C Bomb Peak Analysis of African Elephant Tusks and its Relation to Cites. Radiocarbon, 2019, 61, 1619-1624.	0.8	8
149	Robust Bayesian Analysis, an Attempt to Improve Bayesian Sequencing. Radiocarbon, 2010, 52, 962-983.	0.8	7
150	Retrospective measurements of airborne 129Iodine in Austria. Journal of Environmental Radioactivity, 2012, 112, 90-95.	0.9	7
151	A New UV Oxidation Setup for Small Radiocarbon Samples in Solution. Radiocarbon, 2013, 55, 373-382.	0.8	7
152	Stellar and thermal neutron capture cross section of ${}^9\text{Be}$ . Physical Review C, 2019, 99, .		7
153	Accelerator mass spectrometry of the heaviest long-lived radionuclides with a 3-MV tandem accelerator. Pramana - Journal of Physics, 2002, 59, 1041-1051.	0.9	6
154	Investigation of the isotopic ratio 129I/I in petrified wood. Journal of Environmental Radioactivity, 2013, 120, 33-38.	0.9	6
155	New fluoride target matrix preparation procedure for determination of 236U with accelerator mass spectrometry. Nuclear Instruments & Methods in Physics Research B, 2020, 472, 64-71.	0.6	6
156	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.	0.6	5
157	Comparison of detector systems for the separation of 36Cl and 36S with a 3-MV tandem. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 847-850.	0.6	5
158	Light induced suppression of sulfur in a cesium sputter ion source. International Journal of Mass Spectrometry, 2012, 315, 55-59.	0.7	5
159	Iodine-129 in animal thyroids from Argentina. Science of the Total Environment, 2012, 430, 231-236.	3.9	5
160	Sorption of uranium on freshly prepared hydrous titanium oxide and its utilization in determination of 236U using accelerator mass spectrometry. Journal of Radioanalytical and Nuclear Chemistry, 2017, 311, 447-453.	0.7	5
161	Nature Does the Averaging – In-Situ Produced 10Be, 21Ne, and 26Al in a Very Young River Terrace. Geosciences (Switzerland), 2020, 10, 237.	1.0	5
162	Anthropogenic 236U and 233U in the Baltic Sea: Distributions, source terms, and budgets. Water Research, 2022, 210, 117987.	5.3	5

#	ARTICLE	IF	CITATIONS
163	Investigation of a Chinese Ink Rubbing by $^{14}\text{C}$ AMS Analysis. <i>Radiocarbon</i> , 2003, 45, 1-7.	0.8	4
164	Stable platinum isotope measurements in presolar nanodiamonds by TEAMS. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2013, 294, 496-502.	0.6	3
165	Preparation of pure $\text{TiO}_2$ sorption material. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2014, 300, 1151-1158.	0.7	3
166	Update on the Absolute Chronology of the Migration period in Central Europe (375â€“568 AD): new data from Maria pöensee, Lower Austria. <i>Radiocarbon</i> , 2019, 61, 1653-1662.	0.8	3
167	$^{14}\text{C}$ Dating of Humic Acids from Bronze and Iron Age Plant Remains from the Eastern Mediterranean. <i>Radiocarbon</i> , 2013, 55, .	0.8	3
168	Novel $^{90}\text{Sr}$ analysis of environmental samples by Ion-Laser InterAction Mass Spectrometry. <i>Analytical Methods</i> , 2022, 14, 2732-2738.	1.3	3
169	Estimation of Atlantic Water transit times in East Greenland fjords using a $^{233}\text{U}$ - $^{236}\text{U}$ tracer approach. <i>Chemical Geology</i> , 2022, 607, 121007.	1.4	3
170	Deciphering sources of U contamination using isotope ratio signatures in the Loire River sediments: Exploring the relevance of $^{233}\text{U}/^{236}\text{U}$ and stable Pb isotope ratios. <i>Chemosphere</i> , 2022, 307, 135658.	4.2	3
171	Characterization and improvement of thin natural diamond detectors for spectrometry of heavy ions below 1 MeV/amu. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2008, 590, 221-226.	0.7	2
172	The 410,000 year terrestrial age of eucrite RÑo Cuarto 001. <i>Meteoritics and Planetary Science</i> , 2008, 43, 805-813.	0.7	2
173	$^{14}\text{C}$ -Dating of the Late Bronze Age City of Hala Sultan Tekke, Cyprus: Status Report. <i>Radiocarbon</i> , 2019, 61, 1253-1264.	0.8	2
174	A New UV Oxidation Setup for Small Radiocarbon Samples in Solution. <i>Radiocarbon</i> , 2013, 55, .	0.8	2
175	A record of $^{241}\text{Am}$ , $^{236}\text{U}$ , $^{238}\text{U}$ , $^{239}\text{Pu}$ , $^{240}\text{Pu}$ , $^{134}\text{Cs}$ and $^{137}\text{Cs}$ in surface seawater and $^{241}\text{Am}$ in aerosols shortly after the FDNPP incident occurred. <i>Geochemical Journal</i> . 2021, 55, 33-38.	0.5	2
176	Late Pleistocene glacial advances, equilibrium-line altitude changes and paleoclimate in the Jakupica Mts (North Macedonia). <i>Catena</i> , 2022, 216, 106383.	2.2	2
177	On the AMS and EPR Studies of Chinese Cultural Objects. <i>Journal of the Chinese Chemical Society</i> , 2008, 55, 572-577.	0.8	1
178	Study on Anthropogenic Uranium Isotope U-236 in the Environment â€” Application for Oceanic Circulation Tracer â€”. <i>Bunseki Kagaku</i> , 2013, 62, 1001-1012.	0.1	1
179	The movements of Alpine glaciers throughout the last 10,000 years as sensitive proxies of temperature and climate changes. <i>EPJ Web of Conferences</i> , 2020, 232, 02002.	0.1	1
180	Second Radiocarbon Intercomparison Program for the Chauvetpont d'Arc Cave, ArdÑche, France. <i>Radiocarbon</i> , 2014, 56, 833-850.	0.8	1

#	ARTICLE	IF	CITATIONS
181	Concurrent determination of U, Np, Pu, Am, and Cm in clay systems at ultra-trace levels with accelerator mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2022, 37, 1696-1705.	1.6	1
182	Double-differential neutron emission cross sections of 14-MeV neutron induced reactions on Na and Pb. <i>Physical Review C</i> , 1997, 56, 1424-1437.	1.1	0
183	A device for automated phase space measurement of ion beams. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2007, 259, 140-143.	0.6	0
184	<sup>129</sup> I concentration in a high-mountain environment. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2019, 456, 193-202.	0.6	0
185	EXOTIC ARCHAEOLOGY: SEARCHING FOR SUPERHEAVY ELEMENTS IN NATURE AND DATING HUMAN DNA WITH THE <sup>14</sup> C BOMB PEAK. , 2011, , .		0
186	AMS <sup>14</sup> C A powerful tool for probing nucleosynthesis via long-lived radionuclides. , 2006, , 337-342.		0
187	Retrospective determination of U and Pu isotopes and atom ratios in lung samples from Vienna, Austria. <i>Journal of Environmental Radioactivity</i> , 2022, 251-252, 106965.	0.9	0