

# Jerzy W Mietelski

## List of Publications by Year in descending order

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Version: 2024-02-01

103  
papers

2,393  
citations

257101

24  
h-index

223531

46  
g-index

103  
all docs

103  
docs citations

103  
times ranked

1928  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Design, construction and tests of the ICARUS T600 detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 527, 329-410.                        | 0.7 | 362       |
| 2  | Tracking of Airborne Radionuclides from the Damaged Fukushima Dai-Ichi Nuclear Reactors by European Networks. Environmental Science & Technology, 2011, 45, 7670-7677.  | 4.6 | 333       |
| 3  | Strontium-90 activity concentration in soil samples from the exclusion zone of the Fukushima daiichi nuclear power plant. Scientific Reports, 2016, 6, 23925.   | 1.6 | 88        |
| 4  | Resolving Chernobyl vs. global fallout contributions in soils from Poland using Plutonium atom ratios measured by inductively coupled plasma mass spectrometry. Journal of Environmental Radioactivity, 2004, 73, 183-201.              | 0.9 | 87        |
| 5  | Plutonium from Chernobyl in Poland. Applied Radiation and Isotopes, 1995, 46, 1203-1211.  | 0.7 | 78        |
| 6  | Radioactive contamination of Polish mushrooms. Science of the Total Environment, 1994, 157, 217-226.  | 3.9 | 67        |
| 7  | Resolving global versus local/regional Pu sources in the environment using sector ICP-MS. Journal of Analytical Atomic Spectrometry, 2004, 19, 241-245.   | 1.6 | 63        |
| 8  | Downward migration of Chernobyl-derived radionuclides in soils in Poland and Sweden. Applied Geochemistry, 2011, 26, 105-115.   | 1.4 | 53        |
| 9  | <sup>137</sup> Cs and <sup>40</sup> K in fruiting bodies of different fungal species collected in a single forest in southern Poland. Journal of Environmental Radioactivity, 2010, 101, 706-711.                                       | 0.9 | 52        |
| 10 | <sup>47</sup> Sc production development by cyclotron irradiation of <sup>48</sup> Ca. Journal of Radioanalytical and Nuclear Chemistry, 2017, 313, 429-434.   | 0.7 | 52        |
| 11 | Pu-241 in samples of forest soil from Poland. Applied Radiation and Isotopes, 1999, 51, 435-447.  | 0.7 | 50        |
| 12 | Airborne concentrations and chemical considerations of radioactive ruthenium from an undeclared major nuclear release in 2017. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16750-16759. | 3.3 | 44        |
| 13 | Radioactivity in the Kuwait marine environment – Baseline measurements and review. Marine Pollution Bulletin, 2015, 100, 651-661.   | 2.3 | 40        |
| 14 | <sup>90</sup> Sr and <sup>239+240</sup> Pu/ <sup>238</sup> Pu/ <sup>241</sup> Am in some samples of mushrooms and forest soil from Poland. Journal of Radioanalytical and Nuclear Chemistry, 1993, 170, 243-258.                        | 0.7 | 39        |
| 15 | Plutonium and other alpha emitters in mushrooms from Poland, Spain and Ukraine. Applied Radiation and Isotopes, 2002, 56, 717-729.  | 0.7 | 39        |
| 16 | Sources and vertical distribution of <sup>137</sup> Cs, <sup>238</sup> Pu, <sup>239+240</sup> Pu and <sup>241</sup> Am in peat profiles from southwest Spitsbergen. Applied Geochemistry, 2013, 28, 100-108.                            | 1.4 | 39        |
| 17 | The sources of high airborne radioactivity in cryoconite holes from the Caucasus (Georgia). Scientific Reports, 2018, 8, 10802.   | 1.6 | 34        |
| 18 | Cosmic-Ray Extremely Distributed Observatory. Symmetry, 2020, 12, 1835.   | 1.1 | 33        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Sources and pathways of artificial radionuclides to soils at a High Arctic site. <i>Environmental Science and Pollution Research</i> , 2014, 21, 12479-12493.  | 2.7 | 31        |
| 20 | Title is missing!. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2000, 245, 527-537.   | 0.7 | 30        |
| 21 | Sources and distributions of <sup>137</sup> Cs, <sup>238</sup> Pu, <sup>239,240</sup> Pu radionuclides in the north-western Barents Sea. <i>Journal of Environmental Radioactivity</i> , 2010, 101, 323-331.   | 0.9 | 29        |
| 22 | Potential Source Apportionment and Meteorological Conditions Involved in Airborne <sup>131</sup> I Detections in January/February 2017 in Europe. <i>Environmental Science &amp; Technology</i> , 2018, 52, 8488-8500.   | 4.6 | 29        |
| 23 | The method of measurement used in the investigation of radioactive contamination of forests in Poland. <i>Applied Radiation and Isotopes</i> , 1996, 47, 1089-1095.  | 0.7 | 27        |
| 24 | Cosmogenic <sup>22</sup> Na, <sup>7</sup> Be and terrestrial <sup>137</sup> Cs, <sup>40</sup> K radionuclides in ground level air samples collected weekly in Kraków (Poland) over years 2003-2006. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2014, 300, 747-756.  | 0.7 | 26        |
| 25 | Americium, Curium and rare earths radionuclides in forest litter samples from Poland. <i>Applied Radiation and Isotopes</i> , 1997, 48, 705-713.   | 0.7 | 25        |
| 26 | Sr and stable strontium in bones of wild, herbivorous animals from Poland. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2001, 247, 363-370.   | 0.7 | 24        |
| 27 | <sup>137</sup> Cs, <sup>40</sup> K, <sup>238</sup> Pu, <sup>239+240</sup> Pu and <sup>90</sup> Sr in biological samples from King George Island (Southern Tj ETQq1 1 0.784314 rgBT /Overlo   | 0.5 | 23        |
| 28 | Gamma Emitters on Micro-Becquerel Activity Level in Air at Kraków (Poland). <i>Journal of Atmospheric Chemistry</i> , 2003, 46, 103-116.   | 1.4 | 22        |
| 29 | <sup>137</sup> Cs, <sup>40</sup> K, <sup>90</sup> Sr, <sup>238</sup> , <sup>239+240</sup> Pu, <sup>241</sup> Am and <sup>243+244</sup> Cm in forest litter and their transfer to some species of insects and plants in boreal forests: Three case studies. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2004, 262, 645-660. | 0.7 | 22        |
| 30 | Plutonium isotopes in the atmosphere of Central Europe: Isotopic composition and time evolution vs. circulation factors. <i>Science of the Total Environment</i> , 2016, 569-570, 937-947.   | 3.9 | 22        |
| 31 | <sup>238</sup> Pu, <sup>239+240</sup> Pu, <sup>241</sup> Am, <sup>90</sup> Sr and <sup>137</sup> Cs in mountain soil samples from the Tatra National Park (Poland). <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2008, 275, 523-533.  | 0.7 | 21        |
| 32 | Long-range transport of gaseous <sup>131</sup> I and other radionuclides from Fukushima accident to Southern Poland. <i>Atmospheric Environment</i> , 2014, 91, 137-145.   | 1.9 | 20        |
| 33 | Soil-to-fungi transfer of <sup>90</sup> Sr, <sup>239+240</sup> Pu, and <sup>241</sup> Am. <i>Radiochimica Acta</i> , 2006, 94, 75-80.  | 0.5 | 19        |
| 34 | Plutonium, <sup>137</sup> Cs and <sup>90</sup> Sr in selected invertebrates from some areas around Chernobyl nuclear power plant. <i>Journal of Environmental Radioactivity</i> , 2010, 101, 488-493.  | 0.9 | 18        |
| 35 | Measurement of <sup>131</sup> I activity in thyroid of nuclear medical staff and internal dose assessment in a Polish nuclear medical hospital. <i>Radiation and Environmental Biophysics</i> , 2017, 56, 19-26.   | 0.6 | 18        |
| 36 | Determination of element composition and extraterrestrial material occurrence in moss and lichen samples from King George Island (Antarctica) using reactor neutron activation analysis and SEM microscopy. <i>Environmental Science and Pollution Research</i> , 2018, 25, 436-446.   | 2.7 | 18        |

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|----|---|-----|-----------|
| 37 | Geographical distribution of <sup>90</sup> Sr contamination in Poland. <i>Radiochimica Acta</i> , 2006, 94, 175-179.  | 0.5 | 17        |
| 38 | Combined, sequential procedure for determination of <sup>137</sup> Cs, <sup>40</sup> K, <sup>63</sup> Ni, <sup>90</sup> Sr, <sup>230,232</sup> Th, <sup>234,238</sup> U, <sup>237</sup> Np, <sup>238,239+240</sup> Pu and <sup>241</sup> Am applied for study on contamination of soils near Å»arnowiec Lake (northern Tj ETQq0070 rgBT 10verlock 1 | 0.7 | 10        |
| 39 | Activation of ITER materials in JET: nuclear characterisation experiments for the long-term irradiation station. <i>Nuclear Fusion</i> , 2018, 58, 096013.  | 1.6 | 17        |
| 40 | Plutonium and other alpha-emitters in bones of wild, herbivorous animals from north-eastern Poland. <i>Applied Radiation and Isotopes</i> , 2000, 53, 251-257.  | 0.7 | 15        |
| 41 | Sources and variation of isotopic ratio of airborne radionuclides in Western Arctic lichens and mosses. <i>Chemosphere</i> , 2020, 239, 124783.   | 4.2 | 15        |
| 42 | Gamma-emitters <sup>90</sup> Sr, <sup>238,239+240</sup> Pu and <sup>241</sup> Am in bones and liver of eagles from Poland. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2006, 270, 131-135.  | 0.7 | 14        |
| 43 | An episode of Ru-106 in air over Europe, Septemberâ€œOctober 2017 â€œ Geographical distribution of inhalation dose over Europe. <i>Journal of Environmental Radioactivity</i> , 2019, 205-206, 79-92.   | 0.9 | 14        |
| 44 | Chernobyl <sup>90</sup> Sr in bilberries from Poland. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1997, 222, 183-187.   | 0.7 | 13        |
| 45 | <sup>40</sup> K, <sup>137</sup> Cs, <sup>90</sup> Sr, <sup>238,239+240</sup> Pu and <sup>241</sup> Am in mammals' skulls from owls' pellets and owl skeletons in Poland. <i>Journal of Environmental Radioactivity</i> , 2005, 78, 93-103.  | 0.9 | 13        |
| 46 | Traces of DU in samples of environmental bio-monitors (non-flowering plants, fungi) and soil from target sites of the Western Balkan region. <i>Journal of Environmental Radioactivity</i> , 2008, 99, 1324-1328.   | 0.9 | 12        |
| 47 | Variations in Pu isotopic composition in soils from the Spitsbergen (Norway): Three potential pollution sources of the Arctic region. <i>Chemosphere</i> , 2017, 178, 231-238.  | 4.2 | 12        |
| 48 | Europe-Wide Atmospheric Radionuclide Dispersion by Unprecedented Wildfires in the Chernobyl Exclusion Zone, April 2020. <i>Environmental Science &amp; Technology</i> , 2021, 55, 13834-13848.  | 4.6 | 12        |
| 49 | Radioactive <sup>125</sup> Sb and <sup>60</sup> Co in â€œrutheniumâ€œhot particles from Chernobyl fallout. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1992, 166, 173-180.  | 0.7 | 11        |
| 50 | Long lived isotopes in the Chernobyl radioactive cloud at Cracow. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1988, 127, 367-378.   | 0.7 | 10        |
| 51 | Radionuclides in two rised peat profiles collected from KoÅ»cieliska Valley in the Tatra Mountains. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2006, 267, 443-448.   | 0.7 | 10        |
| 52 | Status of ITER material activation experiments at JET. <i>Fusion Engineering and Design</i> , 2017, 124, 1150-1155.   | 1.0 | 10        |
| 53 | Measurement of <sup>131</sup> I activity in air indoor Polish nuclear medical hospital as a tool for an internal dose assessment. <i>Radiation and Environmental Biophysics</i> , 2018, 57, 77-82.  | 0.6 | 10        |
| 54 | Geotrupine beetles (Coleoptera: Scarabaeoidea) as bio-monitors of man-made radioactivity. <i>Journal of Environmental Monitoring</i> , 2003, 5, 296-301.  | 2.1 | 9         |

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|----|--|-----|-----------|
| 55 | Human bones obtained from routine joint replacement surgery as a tool for studies of plutonium, americium and <sup>90</sup> Sr body-burden in general public. <i>Journal of Environmental Radioactivity</i> , 2011, 102, 559-565.  | 0.9 | 9         |
| 56 | Gamma emitters in atmospheric precipitation in Krakow (Southern Poland) during the years 2005–2015. <i>Journal of Environmental Radioactivity</i> , 2017, 166, 10-16.  | 0.9 | 9         |
| 57 | Low-background, digital gamma-ray spectrometer with BEGe detector and active shield: commissioning, optimisation and software development. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2019, 322, 1311-1321.         | 0.7 | 9         |
| 58 | Inhalation dose due to presence of <sup>131</sup> I in air above septic tank system of an endocrinology hospital. <i>Radiation Protection Dosimetry</i> , 2005, 117, 395-401.  | 0.4 | 8         |
| 59 | Plutonium, americium, <sup>90</sup> Sr and <sup>137</sup> Cs in bones of red fox ( <i>Vulpes vulpes</i> ) from Eastern Poland. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2008, 275, 571-577.                       | 0.7 | 8         |
| 60 | Lead shielding efficiency from the gamma background measurements in the salt cavern of the Polkowice–Sieroszowice copper mine. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2016, 308, 773-780.                       | 0.7 | 8         |
| 61 | Variations of plutonium isotopic ratios in Antarctic ecosystems. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2018, 318, 1511-1518.   | 0.7 | 8         |
| 62 | Environmental radioactivity aspects of recent nuclear accidents associated with undeclared nuclear activities and suggestion for new monitoring strategies. <i>Journal of Environmental Radioactivity</i> , 2020, 214-215, 106151. | 0.9 | 8         |
| 63 | Plutonium in the environment of Poland (a review). <i>Radioactivity in the Environment</i> , 2001, 1, 401-412.   | 0.2 | 7         |
| 64 | <sup>131</sup> I age-dependent inhalation dose in Southern Poland from Fukushima accident. <i>Radiation and Environmental Biophysics</i> , 2017, 56, 9-17.   | 0.6 | 7         |
| 65 | Identification and assessment of elevated exposure to natural radiation in Balkan region (Serbia). <i>Radioprotection</i> , 2009, 44, 919-925.   | 0.5 | 7         |
| 66 | TRANSURANIC ISOTOPES AND <sup>90</sup> Sr IN ATTIC DUST IN THE VICINITY OF TWO NUCLEAR ESTABLISHMENTS IN NORTHERN GERMANY. <i>Health Physics</i> , 2003, 84, 599-607.  | 0.3 | 6         |
| 67 | Plutonium traces in atmospheric precipitation and in aerosols from Krakow and Bialystok. <i>Radiochimica Acta</i> , 2009, 97, 253-255.   | 0.5 | 6         |
| 68 | Radionuclides in raised bogs: a case study of Białe Lasem. <i>Journal of Environmental Monitoring</i> , 2001, 3, 324-329.  | 2.1 | 5         |
| 69 | Pilot measurements of <sup>237</sup> Np in forest litter from Poland. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2010, 283, 385-387.  | 0.7 | 5         |
| 70 | Range-based method of alpha-particle spectrometry using LiF fluorescent nuclear track detectors. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 160, 107837.                                   | 2.5 | 5         |
| 71 | Accumulation of cesium and radiocesium in forest litter in selected regions of Poland and its influence on litter-to-mushroom transfer factor. <i>Biological Trace Element Research</i> , 1994, 43-45, 273-277.                    | 1.9 | 4         |
| 72 | Radioactive contamination of forests in Poland. <i>Biological Trace Element Research</i> , 1994, 43-45, 715-723.   | 1.9 | 4         |

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|----|---|-----|-----------|
| 73 | Title is missing!. Water, Air, and Soil Pollution, 1998, 102, 355-360.  | 1.1 | 4         |
| 74 | Determination of Technetium-99 in Peat by Flow Injectionâ€“Inductively Coupled Plasma Mass Spectrometry. Analytical Letters, 2016, 49, 2755-2765.   | 1.0 | 4         |
| 75 | The study of natural and artificial radionuclides incorporation in teeth and head bones of animals lived nearby CaetitÃ© uranium mine, Brazil. Journal of Environmental Radioactivity, 2016, 162-163, 39-44.  | 0.9 | 4         |
| 76 | Study on the sorption process on geological materials of long-lived radioactive isotopes <sup>90</sup> Sr and <sup>137</sup> Cs in model systems with the use of short-lived isotopes of <sup>85</sup> Sr, <sup>134</sup> Cs. Journal of Radioanalytical and Nuclear Chemistry, 2018, 316, 81-93. | 0.7 | 4         |
| 77 | Anthropogenic radionuclides in Antarctic biota â€“ dosimetric considerations. Journal of Environmental Radioactivity, 2020, 213, 106140.  | 0.9 | 4         |
| 78 | Nuclear Reactions That Occur in Human Body During Proton Therapy. Acta Physica Polonica A, 2021, 139, 454-456.  | 0.2 | 4         |
| 79 | Radioactive contamination of the forests of Southern Poland and Finland. Journal of Radioanalytical and Nuclear Chemistry, 1990, 146, 1-13.   | 0.7 | 3         |
| 80 | Application of a low-background gamma-ray spectrometer to the determination of. Applied Radiation and Isotopes, 2000, 53, 121-126.  | 0.7 | 3         |
| 81 | Elevated plutonium and americium content in skulls of small mammals. Journal of Radioanalytical and Nuclear Chemistry, 2003, 256, 593-594.  | 0.7 | 3         |
| 82 | SUNLABâ€“The Project of a Polish Underground Laboratory. , 2010, , .  |     | 3         |
| 83 | <sup>63</sup> Ni in Chernobyl â€“ruthenium hot particlesâ€“and in forest soil samples. Radiochimica Acta, 2010, 98, .   | 0.5 | 3         |
| 84 | Plutonium, <sup>90</sup> Sr and <sup>241</sup> Am in human bones from southern and northeastern parts of Poland. Journal of Radioanalytical and Nuclear Chemistry, 2014, 299, 1379-1388.  | 0.7 | 3         |
| 85 | Potassium influence on the sorption of <sup>134</sup> Cs and <sup>83</sup> Rb by AMP in fresh and salty waters. Journal of Radioanalytical and Nuclear Chemistry, 2015, 305, 439-443.   | 0.7 | 3         |
| 86 | Fabrication, characterization and analysis of a prototype high purity germanium detector for <sup>76</sup> Ge-based neutrinoless double beta decay experiments. European Physical Journal C, 2021, 81, 1.   | 1.4 | 3         |
| 87 | Plutonium in Gorce Mountains area (Southern Poland). Journal of Radioanalytical and Nuclear Chemistry, 2013, 295, 771-775.  | 0.7 | 2         |
| 88 | Plutonium and thorium isotopes in the bottom sediments of some Mazurian Lakes (Poland). Journal of Radioanalytical and Nuclear Chemistry, 2018, 318, 2389-2399.   | 0.7 | 2         |
| 89 | The radioactive contamination study in south-western Greenland tundra in 2012â€“2013. Journal of Environmental Radioactivity, 2020, 212, 106125.  | 0.9 | 2         |
| 90 | Reexamination of Proton-induced Reactions on <sup>m nat</sup> Mo at 19--26 MeV and Study of Target Yield of Resultant Radionuclides. Acta Physica Polonica B, 2019, 50, 1583.   | 0.3 | 2         |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 91  | Medical activated charcoal tablets as a cheap tool for passive monitoring of gaseous $^{131}\text{I}$ activity in air of nuclear medicine departments. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2018, 318, 723-726.                              | 0.7 | 1         |
| 92  | Detection of background thermal neutrons in a modified low-background germanium gamma-ray spectrometer. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2019, 322, 1331-1339.   | 0.7 | 1         |
| 93  | Search for tritium in air in a room equipped with $^{14}\text{MeV}$ neutron generator with tritiated targets. <i>Journal of Environmental Radioactivity</i> , 2020, 217, 106218.  | 0.9 | 1         |
| 94  | Investigations of Muon Flux Variations Detected Using Veto Detectors of the Digital Gamma-rays Spectrometer. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7916.  | 1.3 | 1         |
| 95  | Uranium and radium in water samples around the Nikola Tesla B lignite-fired power plant - Obrenovac, Serbia. <i>Nuclear Technology and Radiation Protection</i> , 2011, 26, 11-17.  | 0.3 | 1         |
| 96  | Some aspects of cesium-137 entry into "market basket" in Kyiv. <i>Environment &amp; Health</i> , 2019, , 17-20.   | 0.1 | 1         |
| 97  | On a Pure Instrumental Method of $^{90}\text{Sr}$ Determination in Bone Samples. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2001, 250, 551-553.  | 0.7 | 0         |
| 98  | Determination of iodine concentration in aqueous solutions by proton activation analysis: preliminary results for digested human thyroids. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2012, 291, 415-419.  | 0.7 | 0         |
| 99  | Methodological studies of the determination of $^{99}\text{Tc}$ in matrix-rich environmental samples. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2013, 296, 403-406.   | 0.7 | 0         |
| 100 | Are Kimberlite Pipes a Kind of Macroscopic Nuclear Tracks Formed in Collision with CUDO?. <i>Acta Physica Polonica B</i> , 2013, 44, 787.   | 0.3 | 0         |
| 101 | Searching for the "smoking gun" of the miscarried 2019 Nenoksa nuclear cruise missile test: a null result. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2021, 647, 350-358.  | 0.6 | 0         |
| 102 | Modeling of the $^{137}\text{Cs}$ and $^{90}\text{Sr}$ contamination transportation process performed for the vicinity of National Radioactive Wastes Disposal in RA $^3$ A $^{1/4}$ an (NE Poland). <i>Computer Science and Mathematical Modelling</i> , 2018, . | 0.2 | 0         |
| 103 | Air radioactivity in Marambio Base: The peculiar character of Antarctic Peninsula. <i>Journal of Environmental Radioactivity</i> , 2022, 251-252, 106930.   | 0.9 | 0         |