Phillip E Warwick

List of Publications by Year
in descending order

63 papers	1,693 citations	257450 24 h-index	302126 39 g-index
63 all docs	63 docs citations	63 times ranked	1496 citing authors

#	Article	IF	Citations
1	A new ground-level fallout record of uranium and plutonium isotopes for northern temperate latitudes. Earth and Planetary Science Letters, 2002, 203, 1047-1057.	4.4	179
2	Rapid procedure for plutonium and uranium determination in soils using a borate fusion followed by ion-exchange and extraction chromatography. Analytica Chimica Acta, 1998, 371, 217-225.	5.4	112
3	Microbial control of phosphate in the nutrient-depleted North Atlantic subtropical gyre. Environmental Microbiology, 2007, 9, 2079-2089.	3.8	105
4	Plutonium isotope ratio analysis at femtogram to nanogram levels by multicollector ICP-MS. Journal of Analytical Atomic Spectrometry, 2001, 16, 279-284.	3.0	99
5	Light enhanced amino acid uptake by dominant bacterioplankton groups in surface waters of the Atlantic Ocean. FEMS Microbiology Ecology, 2008, 63, 36-45.	2.7	84
6	Determination of 135Cs and 137Cs in environmental samples: A review. Analytica Chimica Acta, 2015, 890, 7-20.	5.4	63
7	ADSORPTION OF RADIOACTIVE METALS BY STRONGLY MAGNETIC IRON SULFIDE NANOPARTICLES PRODUCED BY SULFATE-REDUCING BACTERIA. Separation Science and Technology, 2001, 36, 2571-2607.	2.5	60
8	Optimised method for the routine determination of Technetium-99 in environmental samples by liquid scintillation counting. Analytica Chimica Acta, 1999, 380, 73-82.	5.4	53
9	A rapid method for assessing the accumulation of microplastics in the sea surface microlayer (SML) of estuarine systems. Scientific Reports, 2018, 8, 9428.	3.3	49
10	Multiple ion counting determination of plutonium isotope ratios using multi-collector ICP-MS. Journal of Analytical Atomic Spectrometry, 2003, 18, 480-484.	3.0	45
11	Evidence for the Preservation of Technogenic Tritiated Organic Compounds in an Estuarine Sedimentary Environment. Environmental Science & Technology, 2012, 46, 5704-5712.	10.0	42
12	Radiochemical Determination of241Am and Pu(Î±) in Environmental Materials. Analytical Chemistry, 2001, 73, 3410-3416.	6.5	41
13	Method for Ultra-Low-Level Analysis of Gold in Rocks. Analytical Chemistry, 2006, 78, 1290-1295.	6.5	41
14	Electrokinetic remediation of plutonium-contaminated nuclear site wastes: Results from a pilot-scale on-site trial. Journal of Hazardous Materials, 2011, 186, 1405-1414.	12.4	38
15	Precise and rapid determination of 238U/235U and uranium concentration in soil samples using thermal ionisation mass spectrometry. Chemical Geology, 1998, 144, 73-80.	3.3	37
16	Determination of Precise ¹³⁵Cs/¹³⁷Cs Ratio in Environmental Samples Using Sector Field Inductively Coupled Plasma Mass Spectrometry. Analytical Chemistry, 2014, 86, 8719-8726.	6.5	37
17	Effective desorption of tritium from diverse solid matrices and its application to routine analysis of decommissioning materials. Analytica Chimica Acta, 2010, 676, 93-102.	5.4	35
18	Calixarene-based Extraction Chromatographic Separation of ¹³⁵Cs and ¹³⁷Cs in Environmental and Waste Samples Prior to Sector Field ICP-MS Analysis. Analytical Chemistry, 2014, 86, 11890-11896.	6.5	34

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19	Short-lived variations in the background gamma-radiation dose. Journal of Radiological Protection, 2010, 30, 525-533.	1.1	33
20	Isolation and quantification of 55Fe and 63Ni in reactor effluents using extraction chromatography and liquid scintillation analysis. Analytica Chimica Acta, 2006, 567, 277-285.	5.4	31
21	Tritium Speciation in Nuclear Reactor Bioshield Concrete and its Impact on Accurate Analysis. Analytical Chemistry, 2008, 80, 5476-5480.	6.5	27
22	Organically bound tritium (OBT) behaviour and analysis: outcomes of the seminar held in Balaruc-les-Bains in May 2012. Radioprotection, 2013, 48, 127-144.	1.0	27
23	Review of analytical techniques for the determination of americium-241 in soils and sediments. Applied Radiation and Isotopes, 1996, 47, 627-642.	1.5	26
24	A novel approach for the rapid decomposition of Actinideâ„¢ resin and its application to measurement of uranium and plutonium in natural waters. Analytica Chimica Acta, 2006, 577, 111-118.	5.4	26
25	An optimised and robust method for the determination of uranium and plutonium in aqueous samples. Applied Radiation and Isotopes, 1999, 50, 579-583.	1.5	19
26	Solid-Phase Extraction of Technetiumâ˜Amine Complexes onto C18Silica and Its Application to the Isolation of99Tc. Analytical Chemistry, 2000, 72, 3960-3963.	6.5	19
27	Characterization of the NIST seaweed Standard Reference Material. Applied Radiation and Isotopes, 2006, 64, 1242-1247.	1.5	19
28	Microbial abundance, activity and iron uptake in vicinity of the Crozet Isles in November 2004â€“January 2005. Deep-Sea Research Part II: Topical Studies in Oceanography, 2007, 54, 2126-2137.	1.4	18
29	Effective Determination of the Long-lived Nuclide ⁴¹Ca in Nuclear Reactor Bioshield Concretes: Comparison of Liquid Scintillation Counting and Accelerator Mass Spectrometry. Analytical Chemistry, 2009, 81, 1901-1906.	6.5	18
30	Evaluation of three electrodeposition procedures for uranium, plutonium and americium. Applied Radiation and Isotopes, 2014, 87, 233-237.	1.5	18
31	Recent contributions to the rapid screening of radionuclides in emergency responses and nuclear forensics. TrAC - Trends in Analytical Chemistry, 2016, 85, 120-129.	11.4	17
32	Activity determination and nuclear decay data of 113mCd. Applied Radiation and Isotopes, 2011, 69, 500-505.	1.5	16
33	The Uptake of Iron-55 by Marine Sediment, Macroalgae, and Biota Following Discharge from a Nuclear Power Station. Environmental Science & Technology, 2001, 35, 2171-2177.	10.0	15
34	Low microbial respiration of leucine at ambient oceanic concentration in the mixed layer of the central Atlantic Ocean. Limnology and Oceanography, 2013, 58, 1597-1604.	3.1	15
35	Organically Bound Tritium Analysis in Environmental Samples. Fusion Science and Technology, 2015, 67, 250-253.	1.1	15
36	Evaluation of inductively coupled plasma tandem mass spectrometry for radionuclide assay in nuclear waste characterisation. Journal of Analytical Atomic Spectrometry, 2019, 34, 1810-1821.	3.0	14

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37	Accumulation of COGEMA-La Hague-derived Reprocessing Wastes in French Salt Marsh Sediments. Environmental Science & Technology, 2002, 36, 4990-4997.	10.0	13
38	Pre-concentration of short-lived radionuclides using manganese dioxide precipitation from surface waters. Journal of Radioanalytical and Nuclear Chemistry, 2012, 292, 25-28.	1.5	11
39	Rapid determination of tritium and carbon-14 in urine samples using a combustion technique. Journal of Radioanalytical and Nuclear Chemistry, 2014, 299, 187-191.	1.5	11
40	The requirement for proper storage of nuclear and related decommissioning samples to safeguard accuracy of tritium data. Journal of Hazardous Materials, 2012, 213-214, 292-298.	12.4	10
41	Rapid measurement of 241Pu activity at environmental levels using low-level liquid scintillation analysis. Journal of Radioanalytical and Nuclear Chemistry, 2013, 298, 353-359.	1.5	9
42	Investigation of an Alleged Nuclear Incident at Greenham Common Airbase Using TI-mass Spectrometric Measurements of Uranium Isotopes. Environmental Science & Technology, 2000, 34, 4496-4503.	10.0	8
43	Spatial distribution of 241Am, 137Cs, 238Pu, 239,240Pu and 241Pu over 17 year periods in the Ravenglass saltmarsh, Cumbria, UK. Applied Radiation and Isotopes, 2009, 67, 1484-1492.	1.5	8
44	Pre-concentration of naturally occurring radionuclides and the determination of 212Pb from fresh waters. Journal of Environmental Radioactivity, 2011, 102, 326-330.	1.7	8
45	A rapid dissolution procedure to aid initial nuclear forensics investigations of chemically refractory compounds and particles prior to gamma spectrometry. Analytica Chimica Acta, 2015, 900, 1-9.	5.4	8
46	Fusion Bead Procedure for Nuclear Forensics Employing Synthetic Enstatite to Dissolve Uraniferous and Other Challenging Materials Prior to Laser Ablation Inductively Coupled Plasma Mass Spectrometry. Analytical Chemistry, 2017, 89, 6006-6014.	6.5	8
47	Decline of Radionuclides in the Nearshore Environment Following Nuclear Reactor Closure:Â A U.K. Case Study. Environmental Science & Technology, 1999, 33, 2841-2849.	10.0	7
48	Penetration of tritium (as tritiated water vapour) into low carbon steel and remediation using abrasive cleaning. Journal of Radiological Protection, 2005, 25, 161-168.	1.1	7
49	Novel DGT Configurations for the Assessment of Bioavailable Plutonium, Americium, and Uranium in Marine and Freshwater Environments. Analytical Chemistry, 2021, 93, 11937-11945.	6.5	7
50	Identification and Quantification of Radionuclides in Contaminated Drinking Waters and Pipeline Deposits. Analytical Chemistry, 2013, 85, 8166-8172.	6.5	6
51	Applying multivariate statistics to discriminate uranium ore concentrate geolocations using (radio)chemical data in support of nuclear forensic investigations. Journal of Environmental Radioactivity, 2016, 162-163, 172-181.	1.7	6
52	A Suite of Robust Radioanalytical Techniques for the Determination of Tritium and Other Volatile Radionuclides in Decommissioning Wastes and Environmental Matrices. Fusion Science and Technology, 2017, 71, 290-295.	1.1	6
53	A New Reference Material for Tritium Organic Molecules in Sediment: Results of an International Intercomparison Exercise. Geostandards and Geoanalytical Research, 2018, 42, 253-262.	3.1	5
54	Variations in the gross alpha and beta activity in surface waters at the Atomic Weapons Establishment Aldermaston (UK). Journal of Radioanalytical and Nuclear Chemistry, 2011, 289, 389-394.	1.5	4

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55	Rapid on-site radionuclide screening of aqueous waste streams using dip-stick technologies and liquid scintillation counting. Journal of Radioanalytical and Nuclear Chemistry, 2017, 314, 761-766.	1.5	4
56	Liquid scintillation counters calibration stability over long timescales. Journal of Radioanalytical and Nuclear Chemistry, 2017, 314, 753-760.	1.5	4
57	Under-estimation of 210Pb in industrial radioactive scales. Analytica Chimica Acta, 2018, 1000, 67-74.	5.4	4
58	Lead pre-concentration using a novel manganese dioxide resin. Environmental Earth Sciences, 2012, 67, 637-640.	2.7	3
59	A new bomb-combustion system for tritium extraction. Journal of Radioanalytical and Nuclear Chemistry, 2017, 314, 651-658.	1.5	3
60	Bioavailable actinide fluxes to the Irish Sea from Sellafield-labelled sediments. Water Research, 2022, 221, 118838.	11.3	3
61	Application of multiple quench parameters for confirmation of radionuclide identity in radioanalytical quality control. Journal of Radioanalytical and Nuclear Chemistry, 2019, 322, 1383-1390.	1.5	2
62	Development of a numerical simulation method for modelling column breakthrough from extraction chromatography resins. Analyst, The, 2021, 146, 4049-4065.	3.5	1
63	A compact, dual-zone vertical tube furnace for the determination of tritium and carbon-14 in decommissioning wastes. Applied Radiation and Isotopes, 2021, 179, 109995.	1.5	0