Stephan Richter

List of Publications by Year
in descending order

33 papers	1,573 citations	430874 18 h-index	395702 33 g-index
34 all docs	34 docs citations	34 times ranked	1038 citing authors

#	Article	IF	Citations
1	Isotopic â€œfingerprintsâ€•for natural uranium ore samples. International Journal of Mass Spectrometry, 1999, 193, 9-14.	1.5	167
2	Improved techniques for high accuracy isotope ratio measurements of nuclear materials using thermal ionization mass spectrometry. International Journal of Mass Spectrometry, 2003, 229, 181-197.	1.5	166
3	Natural and anthropogenic 236U in environmental samples. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 2246-2250.	1.4	166
4	New average values for the n(238U)/n(235U) isotope ratios of natural uranium standards. International Journal of Mass Spectrometry, 2010, 295, 94-97.	1.5	111
5	The provenance of Australian uranium ore concentrates by elemental and isotopic analysis. Applied Geochemistry, 2008, 23, 765-777.	3.0	108
6	Mass spectrometric analysis for nuclear safeguards. Journal of Analytical Atomic Spectrometry, 2015, 30, 1469-1489.	3.0	104
7	Improvements in routine uranium isotope ratio measurements using the modified total evaporation method for multi-collector thermal ionization mass spectrometry. Journal of Analytical Atomic Spectrometry, 2011, 26, 550-564.	3.0	87
8	The isotopic composition of natural uranium samplesâ€”Measurements using the new n(233U)/n(236U) double spike IRMM-3636. International Journal of Mass Spectrometry, 2008, 269, 145-148.	1.5	78
9	Linearity tests for secondary electron multipliers used in isotope ratio mass spectrometry. International Journal of Mass Spectrometry, 2001, 206, 105-127.	1.5	73
10	Implementation of Guide to the expression of Uncertainty in Measurement (GUM) to multi-collector TIMS uranium isotope ratio metrology. International Journal of Mass Spectrometry, 2010, 294, 65-76.	1.5	61
11	Determination of 240Pu/239Pu, 241Pu/239Pu and 242Pu/239Pu isotope ratios in environmental reference materials and samples from Chernobyl by thermal ionization mass spectrometry (TIMS) and filament carburization. Journal of Analytical Atomic Spectrometry, 2010, 25, 815.	3.0	58
12	A new series of uranium isotope reference materials for investigating the linearity of secondary electron multipliers in isotope mass spectrometry. International Journal of Mass Spectrometry, 2009, 281, 115-125.	1.5	41
13	Investigation of Uranium Isotopic Signatures in Real-Life Particles from a Nuclear Facility by Thermal Ionization Mass Spectrometry. Analytical Chemistry, 2011, 83, 3011-3016.	6.5	40
14	Development of an improved method to perform single particle analysis by TIMS for nuclear safeguards. Analytica Chimica Acta, 2011, 688, 1-7.	5.4	35
15	Re-certification of a series of uranium isotope reference materials: IRMM-183, IRMM-184, IRMM-185, IRMM-186 and IRMM-187. International Journal of Mass Spectrometry, 2005, 247, 37-39.	1.5	34
16	Evaluation of chronometers in plutonium age determination for nuclear forensics: What if the â€˜Pu/U clocksâ€™ do not match?. Journal of Radioanalytical and Nuclear Chemistry, 2014, 302, 399-411.	1.5	33
17	Evaluating the status of uranium isotope ratio measurements using an inter-laboratory comparison campaign. International Journal of Mass Spectrometry, 2007, 264, 184-190.	1.5	26
18	Preparation of 240Pu and 242Pu targets to improve cross-section measurements for advanced reactors and fuel cycles. Journal of Radioanalytical and Nuclear Chemistry, 2014, 299, 1093-1098.	1.5	26

#	Article	IF	Citations
19	An inter-calibration campaign using various selected Pu spike isotopic reference materials. Journal of Radioanalytical and Nuclear Chemistry, 2010, 286, 449-454.	1.5	16
20	IRMM-1000a and IRMM-1000b uranium reference materials certified for the production date. Part I: methodology, preparation and target characteristics. Journal of Radioanalytical and Nuclear Chemistry, 2016, 307, 1077-1085.	1.5	16
21	Preparation and certification of synthetic uranium isotope mixtures with 236U/238U ratios of 10â€“6, 10â€“7, 10â€“8. Journal of Analytical Atomic Spectrometry, 2005, 20, 1381.	3.0	14
22	Certification of uranium hexafluoride reference materials for isotopic composition. Journal of Radioanalytical and Nuclear Chemistry, 2015, 305, 255-266.	1.5	14
23	Certification of a new series of gravimetrically prepared synthetic reference materials for n(236U)/n(238U) isotope ratio measurements. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 956-959.	1.4	13
24	Preparation and certification of the uranium nitrate solution reference materials series IRMM-2019 to IRMM-2029 for the isotopic composition. Journal of Radioanalytical and Nuclear Chemistry, 2018, 318, 1359-1368.	1.5	13
25	Uranium hexafluoride (UF6) gas source mass spectrometry for certification of reference materials and nuclear safeguard measurements at IRMM. Journal of Analytical Atomic Spectrometry, 2013, 28, 536.	3.0	11
26	Linearity testing and dead-time determination for MC-ICP-MS ion counters using the IRMM-072 series of uranium isotope reference materials. Journal of Analytical Atomic Spectrometry, 2016, 31, 1647-1657.	3.0	11
27	Magnesium isotope ratio measurements by negative thermal ionisation mass spectrometry using molecular fluoride ions. Fresenius' Journal of Analytical Chemistry, 1999, 364, 478-481.	1.5	9
28	234U/235U activity ratios as a probe for the 238U/235U half-life ratio. Journal of Radioanalytical and Nuclear Chemistry, 2008, 277, 207-210.	1.5	8
29	REIMEP-22 inter-laboratory comparison: â€œU Age Dating â€“ determination of the production date of a uranium certified test sampleâ€• Radiochimica Acta, 2015, 103, 825-834.	1.2	8
30	Optimized Chemical Separation and Measurement by TE TIMS Using Carburized Filaments for Uranium Isotope Ratio Measurements Applied to Plutonium Chronometry. Analytical Chemistry, 2016, 88, 6223-6230.	6.5	8
31	IRMM-1000a and IRMM-1000b: uranium reference materials certified for the production date based on the 230Th/234U radiochronometer. Part II: certification. Journal of Radioanalytical and Nuclear Chemistry, 2016, 308, 105-111.	1.5	7
32	IRMM-3100a: A new certified isotopic reference material with equal abundances of 233U, 235U, 236U and 238U. International Journal of Mass Spectrometry, 2011, 299, 120-124.	1.5	6
33	Certification of the First Uranium Oxide micro-particle reference materials for Nuclear Safety and Security, IRMM-2329P and IRMM-2331P. Journal of Radioanalytical and Nuclear Chemistry, 2023, 332, 2809-2813.	1.5	5