Matthew J O'hara

List of Publications by Year
in descending order

43 papers	732 citations	566801 15 h-index	552369 26 g-index
45 all docs	45 docs citations	45 times ranked	436 citing authors

#	Article	IF	Citations
1	Separations of U/Pu and Np/Pu using fluoride volatility. Journal of Fluorine Chemistry, 2022, 257-258, 109952.	0.9	0
2	Anion exchange and extraction chromatography tandem column isolation of zirconium-89 (89Zr) from cyclotron bombarded targets using an automated fluidic platform. Journal of Chromatography A, 2022, 1678, 463347.	1.8	0
3	Gas-phase molybdenum-99 separation from uranium dioxide by fluoride volatility using nitrogen trifluoride. RSC Advances, 2020, 10, 3472-3478.	1.7	9
4	Automated radiochemical separation, analysis, and sensing. , 2020, , 821-872.		2
5	Manipulation of mass transport rates using bead-in-a-tube method. Journal of Chromatography A, 2019, 1586, 139-144.	1.8	0
6	Development of an autonomous solvent extraction system to isolate astatine-211 from dissolved cyclotron bombarded bismuth targets. Scientific Reports, 2019, 9, 20318.	1.6	13
7	Optimized anion exchange column isolation of zirconium-89 (89Zr) from yttrium cyclotron target: Method development and implementation on an automated fluidic platform. Journal of Chromatography A, 2018, 1545, 48-58.	1.8	14
8	Hydroxamate column-based purification of zirconium-89 (89Zr) using an automated fluidic platform. Applied Radiation and Isotopes, 2018, 132, 85-94.	0.7	10
9	Tandem column isolation of zirconium-89 from cyclotron bombarded yttrium targets using an automated fluidic platform: Anion exchange to hydroxamate resin columns. Journal of Chromatography A, 2018, 1567, 37-46.	1.8	9
10	A simple thick target for production of 89Zr using an 11 MeV cyclotron. Applied Radiation and Isotopes, 2017, 122, 211-214.	0.7	20
11	An automated flow system incorporating in-line acid dissolution of bismuth metal from a cyclotron irradiated target assembly for use in the isolation of astatine-211. Applied Radiation and Isotopes, 2017, 122, 202-210.	0.7	17
12	Decomposition of diverse solid inorganic matrices with molten ammonium bifluoride salt for constituent elemental analysis. Chemical Geology, 2017, 466, 341-351.	1.4	33
13	Magnetic iron oxide nanoparticles for the collection and direct measurement of adsorbed alpha-emitting radionuclides from environmental waters by liquid scintillation analysis. Analytical Methods, 2017, 9, 2791-2804.	1.3	2
14	Solid matrix transformation and tracer addition using molten ammonium bifluoride salt as a sample preparation method for laser ablation inductively coupled plasma mass spectrometry. Analyst, The, 2017, 142, 3333-3340.	1.7	10
15	Uniform deposition of uranium hexafluoride (UF6): Standardized mass deposits and controlled isotopic ratios using a thermal fluorination method. Talanta, 2016, 154, 219-227.	2.9	3
16	Magnetic iron oxide and manganese-doped iron oxide nanoparticles for the collection of alpha-emitting radionuclides from aqueous solutions. RSC Advances, 2016, 6, 105239-105251.	1.7	13
17	Automated Radiochemical Separation, Analysis, and Sensing. , 2012, , 1179-1207.		2
18	Automated Radioanalytical System Incorporating Microwave-Assisted Sample Preparation, Chemical Separation, and Online Radiometric Detection for the Monitoring of Total ⁹⁹Tc in Nuclear Waste Processing Streams. Analytical Chemistry, 2012, 84, 3090-3098.	3.2	11

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19	Extraction Chromatographic Methods in the Sample Preparation Sequence for Thermal Ionization Mass Spectrometric Analysis of Plutonium Isotopes. Analytical Chemistry, 2011, 83, 9086-9091.	3.2	30
20	INVESTIGATION OF MAGNETIC NANOPARTICLES FOR THE RAPID EXTRACTION AND ASSAY OF ALPHA-EMITTING RADIONUCLIDES FROM URINE: DEMONSTRATION OF A NOVEL RADIOBIOASSAY METHOD. Health Physics, 2011, 101, 196-208.	0.3	10
21	Radionuclide Sensors and Systems for Environmental Monitoring. ECS Transactions, 2009, 19, 301-304.	0.3	3
22	Characterization and application of SuperLigÂ® 620 solid phase extraction resin for automated process monitoring of 90Sr. Journal of Radioanalytical and Nuclear Chemistry, 2009, 282, 623-628.	0.7	14
23	Quantification of Technetium-99 in Complex Groundwater Matrixes Using a Radiometric Preconcentrating Minicolumn Sensor in an Equilibration-Based Sensing Approach. Analytical Chemistry, 2009, 81, 1068-1078.	3.2	21
24	Automated Radioanalytical System for the Determination of ⁹⁰Sr in Environmental Water Samples by ⁹⁰Y Cherenkov Radiation Counting. Analytical Chemistry, 2009, 81, 1228-1237.	3.2	37
25	Radionuclide Sensors for Environmental Monitoring:â€‰ From Flow Injection Solid-Phase Absorptiometry to Equilibration-Based Preconcentrating Minicolumn Sensors with Radiometric Detection. Chemical Reviews, 2008, 108, 543-562.	23.0	51
26	Direct Spectrophotometric Analysis of Cr(VI) Using a Liquid Waveguide Capillary Cell. Applied Spectroscopy, 2008, 62, 107-115.	1.2	11
27	Accelerated Analyte Uptake on Single Beads in Microliter-Scale Batch Separations Using Acoustic Streaming: Plutonium Uptake by Anion Exchange for Analysis by Mass Spectrometry. Analytical Chemistry, 2008, 80, 4070-4077.	3.2	15
28	Preconcentrating Minicolumn Sensors for Trace Environmental Monitoring. , 2007, , .		2
29	Equilibration-Based Preconcentrating Minicolumn Sensors for Trace Level Monitoring of Radionuclides and Metal Ions in Water without Consumable Reagents. Analytical Chemistry, 2006, 78, 5480-5490.	3.2	37
30	Direct measurement of alpha emitters in liquids using passivated ion implanted planar silicon (PIPS) diode detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 537, 600-609.	0.7	15
31	Preconcentration and assay of radionuclides with self assembled monolayers on mesoporous supports. Journal of Radioanalytical and Nuclear Chemistry, 2005, 263, 59-64.	0.7	11
32	Chemically enhanced alpha-energy spectroscopy in liquids. Journal of Radioanalytical and Nuclear Chemistry, 2005, 263, 291-294.	0.7	9
33	Direct actinide assay with surface passivated silicon diodes. Journal of Radioanalytical and Nuclear Chemistry, 2005, 263, 295-300.	0.7	1
34	Automated radiochemical analysis of total 99Tc in aged nuclear waste processing streams. Journal of Radioanalytical and Nuclear Chemistry, 2005, 263, 629-633.	0.7	13
35	Radiochemical sensor system for the analysis of 99Tc(VII) in groundwater. Journal of Radioanalytical and Nuclear Chemistry, 2005, 264, 495-500.	0.7	13
36	Sensors and Automated Analyzers for Radionuclides. ACS Symposium Series, 2005, , 322-341.	0.5	5

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37	Microwave-Assisted Sample Treatment in a Fully Automated Flow-Based Instrument:â€‰ Oxidation of Reduced Technetium Species in the Analysis of Total Technetium-99 in Caustic Aged Nuclear Waste Samples. Analytical Chemistry, 2004, 76, 3869-3877.	3.2	20
38	Automation of Radiochemical Analysis: From Groundwater Monitoring to Nuclear Waste Analysis. ACS Symposium Series, 2003, , 246-270.	0.5	8
39	Radiation Damage in Titanate Ceramics for Plutonium Immobilization. Materials Research Society Symposia Proceedings, 2002, 713, 1.	0.1	7
40	Extraction chromatographic separations and analysis of actinides using sequential injection techniques with on-line inductively coupled plasma mass spectrometry (ICP MS) detection. Analyst, The, 2001, 126, 1594-1601.	1.7	58
41	Radionuclide Sensors Based on Chemically Selective Scintillating Microspheres:â€‰ Renewable Column Sensor for Analysis of 99Tc in Water. Analytical Chemistry, 1999, 71, 5420-5429.	3.2	59
42	Sequential Injection Separation System with Stopped-Flow Radiometric Detection for Automated Analysis of99Tc in Nuclear Waste. Analytical Chemistry, 1998, 70, 977-984.	3.2	55
43	Sequential Injection Renewable Separation Column Instrument for Automated Sorbent Extraction Separations of Radionuclides. Analytical Chemistry, 1998, 71, 345-352.	3.2	58