

Matthew J O'hara

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Radionuclide Sensors Based on Chemically Selective Scintillating Microspheres:â€‰ Renewable Column Sensor for Analysis of ⁹⁹ Tc in Water. <i>Analytical Chemistry</i> , 1999, 71, 5420-5429.	6.5	59
2	Sequential Injection Renewable Separation Column Instrument for Automated Sorbent Extraction Separations of Radionuclides. <i>Analytical Chemistry</i> , 1998, 71, 345-352.	6.5	58
3	Extraction chromatographic separations and analysis of actinides using sequential injection techniques with on-line inductively coupled plasma mass spectrometry (ICP MS) detection. <i>Analyst</i> , 2001, 126, 1594-1601.	3.5	58
4	Sequential Injection Separation System with Stopped-Flow Radiometric Detection for Automated Analysis of ⁹⁹ Tc in Nuclear Waste. <i>Analytical Chemistry</i> , 1998, 70, 977-984.	6.5	55
5	Radionuclide Sensors for Environmental Monitoring:â€‰ From Flow Injection Solid-Phase Absorptiometry to Equilibration-Based Preconcentrating Minicolumn Sensors with Radiometric Detection. <i>Chemical Reviews</i> , 2008, 108, 543-562.	47.7	51
6	Equilibration-Based Preconcentrating Minicolumn Sensors for Trace Level Monitoring of Radionuclides and Metal Ions in Water without Consumable Reagents. <i>Analytical Chemistry</i> , 2006, 78, 5480-5490.	6.5	37
7	Automated Radioanalytical System for the Determination of ⁹⁰ Sr in Environmental Water Samples by ⁹⁰ Y Cherenkov Radiation Counting. <i>Analytical Chemistry</i> , 2009, 81, 1228-1237.	6.5	37
8	Decomposition of diverse solid inorganic matrices with molten ammonium bifluoride salt for constituent elemental analysis. <i>Chemical Geology</i> , 2017, 466, 341-351.	3.3	33
9	Extraction Chromatographic Methods in the Sample Preparation Sequence for Thermal Ionization Mass Spectrometric Analysis of Plutonium Isotopes. <i>Analytical Chemistry</i> , 2011, 83, 9086-9091.	6.5	30
10	Quantification of Technetium-99 in Complex Groundwater Matrixes Using a Radiometric Preconcentrating Minicolumn Sensor in an Equilibration-Based Sensing Approach. <i>Analytical Chemistry</i> , 2009, 81, 1068-1078.	6.5	21
11	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. <i>Analytical Chemistry</i> , 2004, 76, 3869-3877.	6.5	20
12	A simple thick target for production of ⁸⁹ Zr using an 11 MeV cyclotron. <i>Applied Radiation and Isotopes</i> , 2017, 122, 211-214.	1.5	20
13	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. <i>Applied Radiation and Isotopes</i> , 2017, 122, 202-210.	1.5	17
14	Direct measurement of alpha emitters in liquids using passivated ion implanted planar silicon (PIPS) diode detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2005, 537, 600-609.	1.6	15
15	Accelerated Analyte Uptake on Single Beads in Microliter-Scale Batch Separations Using Acoustic Streaming: Plutonium Uptake by Anion Exchange for Analysis by Mass Spectrometry. <i>Analytical Chemistry</i> , 2008, 80, 4070-4077.	6.5	15
16	Characterization and application of SuperLig ^Â 620 solid phase extraction resin for automated process monitoring of ⁹⁰ Sr. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2009, 282, 623-628.	1.5	14
17	Optimized anion exchange column isolation of zirconium-89 (⁸⁹ Zr) from yttrium cyclotron target: Method development and implementation on an automated fluidic platform. <i>Journal of Chromatography A</i> , 2018, 1545, 48-58.	3.7	14
18	Automated radiochemical analysis of total ⁹⁹ Tc in aged nuclear waste processing streams. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2005, 263, 629-633.	1.5	13

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19	Radiochemical sensor system for the analysis of ⁹⁹ Tc(VII) in groundwater. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2005, 264, 495-500.	1.5	13
20	Magnetic iron oxide and manganese-doped iron oxide nanoparticles for the collection of alpha-emitting radionuclides from aqueous solutions. <i>RSC Advances</i> , 2016, 6, 105239-105251.	3.6	13
21	Development of an autonomous solvent extraction system to isolate astatine-211 from dissolved cyclotron bombarded bismuth targets. <i>Scientific Reports</i> , 2019, 9, 20318.	3.3	13
22	Preconcentration and assay of radionuclides with self assembled monolayers on mesoporous supports. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2005, 263, 59-64.	1.5	11
23	Direct Spectrophotometric Analysis of Cr(VI) Using a Liquid Waveguide Capillary Cell. <i>Applied Spectroscopy</i> , 2008, 62, 107-115.	2.2	11
24	Automated Radioanalytical System Incorporating Microwave-Assisted Sample Preparation, Chemical Separation, and Online Radiometric Detection for the Monitoring of Total ⁹⁹ Tc in Nuclear Waste Processing Streams. <i>Analytical Chemistry</i> , 2012, 84, 3090-3098.	6.5	11
25	INVESTIGATION OF MAGNETIC NANOPARTICLES FOR THE RAPID EXTRACTION AND ASSAY OF ALPHA-EMITTING RADIONUCLIDES FROM URINE: DEMONSTRATION OF A NOVEL RADIOBIOASSAY METHOD. <i>Health Physics</i> , 2011, 101, 196-208.	0.5	10
26	Solid matrix transformation and tracer addition using molten ammonium bifluoride salt as a sample preparation method for laser ablation inductively coupled plasma mass spectrometry. <i>Analyst</i> , The, 2017, 142, 3333-3340.	3.5	10
27	Hydroxamate column-based purification of zirconium-89 (⁸⁹ Zr) using an automated fluidic platform. <i>Applied Radiation and Isotopes</i> , 2018, 132, 85-94.	1.5	10
28	Chemically enhanced alpha-energy spectroscopy in liquids. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2005, 263, 291-294.	1.5	9
29	Tandem column isolation of zirconium-89 from cyclotron bombarded yttrium targets using an automated fluidic platform: Anion exchange to hydroxamate resin columns. <i>Journal of Chromatography A</i> , 2018, 1567, 37-46.	3.7	9
30	Gas-phase molybdenum-99 separation from uranium dioxide by fluoride volatility using nitrogen trifluoride. <i>RSC Advances</i> , 2020, 10, 3472-3478.	3.6	9
31	Automation of Radiochemical Analysis: From Groundwater Monitoring to Nuclear Waste Analysis. <i>ACS Symposium Series</i> , 2003, , 246-270.	0.5	8
32	Radiation Damage in Titanate Ceramics for Plutonium Immobilization. <i>Materials Research Society Symposia Proceedings</i> , 2002, 713, 1.	0.1	7
33	Sensors and Automated Analyzers for Radionuclides. <i>ACS Symposium Series</i> , 2005, , 322-341.	0.5	5
34	Radionuclide Sensors and Systems for Environmental Monitoring. <i>ECS Transactions</i> , 2009, 19, 301-304.	0.5	3
35	Uniform deposition of uranium hexafluoride (UF ₆): Standardized mass deposits and controlled isotopic ratios using a thermal fluorination method. <i>Talanta</i> , 2016, 154, 219-227.	5.5	3
36	Preconcentrating Minicolumn Sensors for Trace Environmental Monitoring. , 2007, , .		2

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37	Automated Radiochemical Separation, Analysis, and Sensing. , 2012, , 1179-1207.		2
38	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.	2.7	2
39	Automated radiochemical separation, analysis, and sensing. , 2020, , 821-872.		2
40	Direct actinide assay with surface passivated silicon diodes. Journal of Radioanalytical and Nuclear Chemistry, 2005, 263, 295-300.	1.5	1
41	Manipulation of mass transport rates using bead-in-a-tube method. Journal of Chromatography A, 2019, 1586, 139-144.	3.7	0
42	Separations of U/Pu and Np/Pu using fluoride volatility. Journal of Fluorine Chemistry, 2022, 257-258, 109952.	1.7	0
43	Anion exchange and extraction chromatography tandem column isolation of zirconium-89 (⁸⁹ Zr) from cyclotron bombarded targets using an automated fluidic platform. Journal of Chromatography A, 2022, 1678, 463347.	3.7	0