

# Matthew J O'hara

## List of Publications by Year in descending order

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papers

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docs citations

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#	ARTICLE	IF	CITATIONS
1	Radionuclide Sensors Based on Chemically Selective Scintillating Microspheres:â€‰ Renewable Column Sensor for Analysis of <sup>99</sup> Tc in Water. <i>Analytical Chemistry</i> , 1999, 71, 5420-5429.	3.2	59
2	Sequential Injection Renewable Separation Column Instrument for Automated Sorbent Extraction Separations of Radionuclides. <i>Analytical Chemistry</i> , 1998, 71, 345-352.	3.2	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.	1.7	58
4	Sequential Injection Separation System with Stopped-Flow Radiometric Detection for Automated Analysis of <sup>99</sup> Tc in Nuclear Waste. <i>Analytical Chemistry</i> , 1998, 70, 977-984.	3.2	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.	23.0	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.	3.2	37
7	Automated Radioanalytical System for the Determination of <sup>90</sup> Sr in Environmental Water Samples by <sup>90</sup> Y Cherenkov Radiation Counting. <i>Analytical Chemistry</i> , 2009, 81, 1228-1237.	3.2	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.	1.4	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.	3.2	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.	3.2	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.	3.2	20
12	A simple thick target for production of <sup>89</sup> Zr using an 11 MeV cyclotron. <i>Applied Radiation and Isotopes</i> , 2017, 122, 211-214.	0.7	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.	0.7	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.	0.7	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.	3.2	15
16	Characterization and application of SuperLig <sup>®</sup> 620 solid phase extraction resin for automated process monitoring of <sup>90</sup> Sr. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2009, 282, 623-628.	0.7	14
17	Optimized anion exchange column isolation of zirconium-89 ( <sup>89</sup> Zr) from yttrium cyclotron target: Method development and implementation on an automated fluidic platform. <i>Journal of Chromatography A</i> , 2018, 1545, 48-58.	1.8	14
18	Automated radiochemical analysis of total <sup>99</sup> Tc in aged nuclear waste processing streams. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2005, 263, 629-633.	0.7	13

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19	Radiochemical sensor system for the analysis of <sup>99</sup> Tc(VII) in groundwater. Journal of Radioanalytical and Nuclear Chemistry, 2005, 264, 495-500.	0.7	13
20	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
21	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
22	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
23	Direct Spectrophotometric Analysis of Cr(VI) Using a Liquid Waveguide Capillary Cell. Applied Spectroscopy, 2008, 62, 107-115.	1.2	11
24	Automated Radioanalytical System Incorporating Microwave-Assisted Sample Preparation, Chemical Separation, and Online Radiometric Detection for the Monitoring of Total <sup>99</sup> Tc in Nuclear Waste Processing Streams. Analytical Chemistry, 2012, 84, 3090-3098.	3.2	11
25	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
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. Analyst, The, 2017, 142, 3333-3340.	1.7	10
27	Hydroxamate column-based purification of zirconium-89 ( <sup>89</sup> Zr) using an automated fluidic platform. Applied Radiation and Isotopes, 2018, 132, 85-94.	0.7	10
28	Chemically enhanced alpha-energy spectroscopy in liquids. Journal of Radioanalytical and Nuclear Chemistry, 2005, 263, 291-294.	0.7	9
29	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
30	Gas-phase molybdenum-99 separation from uranium dioxide by fluoride volatility using nitrogen trifluoride. RSC Advances, 2020, 10, 3472-3478.	1.7	9
31	Automation of Radiochemical Analysis: From Groundwater Monitoring to Nuclear Waste Analysis. ACS Symposium Series, 2003, , 246-270.	0.5	8
32	Radiation Damage in Titanate Ceramics for Plutonium Immobilization. Materials Research Society Symposia Proceedings, 2002, 713, 1.	0.1	7
33	Sensors and Automated Analyzers for Radionuclides. ACS Symposium Series, 2005, , 322-341.	0.5	5
34	Radionuclide Sensors and Systems for Environmental Monitoring. ECS Transactions, 2009, 19, 301-304.	0.3	3
35	Uniform deposition of uranium hexafluoride (UF <sub>6</sub> ): Standardized mass deposits and controlled isotopic ratios using a thermal fluorination method. Talanta, 2016, 154, 219-227.	2.9	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.	1.3	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.	0.7	1
41	Manipulation of mass transport rates using bead-in-a-tube method. Journal of Chromatography A, 2019, 1586, 139-144.	1.8	0
42	Separations of U/Pu and Np/Pu using fluoride volatility. Journal of Fluorine Chemistry, 2022, 257-258, 109952.	0.9	0
43	Anion exchange and extraction chromatography tandem column isolation of zirconium-89 ( <sup>89</sup> Zr) from cyclotron bombarded targets using an automated fluidic platform. Journal of Chromatography A, 2022, 1678, 463347.	1.8	0