

# Matthew J O'hara

## List of Publications by Year in descending order

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43  
papers

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citations

567281

15  
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26  
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45  
docs citations

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times ranked

436  
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#	ARTICLE	IF	CITATIONS
1	Separations of U/Pu and Np/Pu using fluoride volatility. <i>Journal of Fluorine Chemistry</i> , 2022, 257-258, 109952.	1.7	0
2	Anion exchange and extraction chromatography tandem column isolation of zirconium-89 ( <sup>89</sup> Zr) from cyclotron bombarded targets using an automated fluidic platform. <i>Journal of Chromatography A</i> , 2022, 1678, 463347.	3.7	0
3	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
4	Automated radiochemical separation, analysis, and sensing. , 2020, , 821-872.		2
5	Manipulation of mass transport rates using bead-in-a-tube method. <i>Journal of Chromatography A</i> , 2019, 1586, 139-144.	3.7	0
6	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
7	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.	3.7	14
8	Hydroxamate column-based purification of zirconium-89 ( <sup>89</sup> Zr) using an automated fluidic platform. <i>Applied Radiation and Isotopes</i> , 2018, 132, 85-94.	1.5	10
9	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
10	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.	1.5	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. <i>Applied Radiation and Isotopes</i> , 2017, 122, 202-210.	1.5	17
12	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
13	Magnetic iron oxide nanoparticles for the collection and direct measurement of adsorbed alpha-emitting radionuclides from environmental waters by liquid scintillation analysis. <i>Analytical Methods</i> , 2017, 9, 2791-2804.	2.7	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. <i>Analyst</i> , The, 2017, 142, 3333-3340.	3.5	10
15	Uniform deposition of uranium hexafluoride (UF <sub>6</sub> ): Standardized mass deposits and controlled isotopic ratios using a thermal fluorination method. <i>Talanta</i> , 2016, 154, 219-227.	5.5	3
16	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
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 <sup>99</sup> Tc in Nuclear Waste Processing Streams. <i>Analytical Chemistry</i> , 2012, 84, 3090-3098.	6.5	11

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19	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
20	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
21	Radionuclide Sensors and Systems for Environmental Monitoring. <i>ECS Transactions</i> , 2009, 19, 301-304.	0.5	3
22	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.	1.5	14
23	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
24	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.	6.5	37
25	Radionuclide Sensors for Environmental Monitoring: 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
26	Direct Spectrophotometric Analysis of Cr(VI) Using a Liquid Waveguide Capillary Cell. <i>Applied Spectroscopy</i> , 2008, 62, 107-115.	2.2	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. <i>Analytical Chemistry</i> , 2008, 80, 4070-4077.	6.5	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. <i>Analytical Chemistry</i> , 2006, 78, 5480-5490.	6.5	37
30	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
31	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
32	Chemically enhanced alpha-energy spectroscopy in liquids. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2005, 263, 291-294.	1.5	9
33	Direct actinide assay with surface passivated silicon diodes. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2005, 263, 295-300.	1.5	1
34	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.	1.5	13
35	Radiochemical sensor system for the analysis of <sup>99</sup> Tc(VII) in groundwater. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2005, 264, 495-500.	1.5	13
36	Sensors and Automated Analyzers for Radionuclides. <i>ACS Symposium Series</i> , 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. <i>Analytical Chemistry</i> , 2004, 76, 3869-3877.	6.5	20
38	Automation of Radiochemical Analysis: From Groundwater Monitoring to Nuclear Waste Analysis. <i>ACS Symposium Series</i> , 2003, , 246-270.	0.5	8
39	Radiation Damage in Titanate Ceramics for Plutonium Immobilization. <i>Materials Research Society Symposia Proceedings</i> , 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. <i>Analyst</i> , The, 2001, 126, 1594-1601.	3.5	58
41	Radionuclide Sensors Based on Chemically Selective Scintillating Microspheres:â€‰% Renewable Column Sensor for Analysis of 99Tc in Water. <i>Analytical Chemistry</i> , 1999, 71, 5420-5429.	6.5	59
42	Sequential Injection Separation System with Stopped-Flow Radiometric Detection for Automated Analysis of 99Tc in Nuclear Waste. <i>Analytical Chemistry</i> , 1998, 70, 977-984.	6.5	55
43	Sequential Injection Renewable Separation Column Instrument for Automated Sorbent Extraction Separations of Radionuclides. <i>Analytical Chemistry</i> , 1998, 71, 345-352.	6.5	58