

Mathew Joseph

List of Publications by Year in descending order

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35
papers

357
citations

759233

12
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888059

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35
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35
times ranked

287
citing authors

#	ARTICLE	IF	CITATIONS
1	Determination of intensity ratios of Nd, Cs, Zr and Sr against U and burn-up in simulated nuclear fuels by LA-ICPMS. <i>Journal of Analytical Atomic Spectrometry</i> , 2022, 37, 910-918.	3.0	3
2	Laser-induced breakdown spectroscopy for simultaneous determination of lighter lanthanides in actinide matrix in aqueous medium. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2022, 190, 106393.	2.9	7
3	Characterization of gamma irradiated PUREX solvent – A systematic study. <i>Separation Science and Technology</i> , 2020, 55, 1485-1494.	2.5	2
4	Effect of mass distribution and collection angle in pulsed laser deposited films – a sampling method for chemical characterization of spent nuclear fuel. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 2840-2851.	3.0	5
5	Design, installation and preliminary flux measurements at the Fast Flux Experimental Facility (FFEF) of the Fast Breeder Test Reactor (FBTR). <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2019, 320, 255-263.	1.5	2
6	Studies on purification of ^{89}Sr from irradiated yttria target by multi-column extraction chromatography using DtBuCH18-C-6/XAD-7 resin. <i>Radiochimica Acta</i> , 2019, 107, 479-487.	1.2	6
7	Radiochemical purification of ^{144}Ce from its in-grown daughter ^{144}Pr and other fission products. <i>Journal of Nuclear and Radiochemical Sciences</i> , 2019, 19, 1-7.	0.7	1
8	Luminescent versus non-luminescent uranyl–picolinate complexes. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2018, 318, 2145-2156.	1.5	3
9	Fast burn-up measurement in simulated nuclear fuel using ICP-MS. <i>Radiochimica Acta</i> , 2018, 106, 885-895.	1.2	10
10	Physicochemical properties and radiolytic degradation studies on tri-iso-amyl phosphate (TiAP). <i>Radiochimica Acta</i> , 2017, 105, 249-261.	1.2	20
11	Solubility of tri- <i>iso</i> -amyl phosphate in supercritical carbon dioxide and its application to selective extraction of uranium. <i>Separation Science and Technology</i> , 2017, 52, 2224-2237.	2.5	15
12	Studies on neutron spectrum characterization for the Pneumatic Fast Transfer System (PFTS) of KAMINI reactor. <i>Applied Radiation and Isotopes</i> , 2017, 124, 49-55.	1.5	12
13	Thermodynamic data of U_3Ga_5 from calorimetric measurements. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 129, 241-247.	3.6	0
14	Direct burn-up determination of fast reactor mixed oxide (MOX) fuel by preferential evaporation of interfering elements. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2017, 311, 1593-1603.	1.5	4
15	Dissolution and characterisation studies on U-Zr and U-Pu-Zr alloys in nitric acid medium. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2017, 311, 789-800.	1.5	15
16	Preferential removal of Sm by evaporation from Nd–Sm mixture and its application in direct burn-up determination of spent nuclear fuel. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2016, 309, 563.	1.5	3
17	Studies Related to the Processing of U-Zr and U-Pu-Zr Metallic Fuels Using Tri-iso-amyl Phosphate (TiAP) as Extractant. <i>Solvent Extraction and Ion Exchange</i> , 2016, 34, 422-438.	2.0	10
18	Complexation Behavior of the Tri- <i>n</i> -butyl Phosphate Ligand with Pu(IV) and Zr(IV): A Computational Study. <i>Journal of Physical Chemistry A</i> , 2016, 120, 4201-4210.	2.5	39

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19	Effect of laser parameters on the measurement of U/Nd ratio using pulsed laser deposition followed by isotopic dilution mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2015, 387, 51-55.	1.5	6
20	Ligand sensitized luminescence of uranyl by benzoic acid in acetonitrile medium: A new luminescent uranyl benzoate specie. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 138, 509-516.	3.9	14
21	Laser-mass spectrometric studies on measurement of isotopic ratios $\delta^{13}C$. A comparative study using ps and ns pulsed lasers. <i>International Journal of Mass Spectrometry</i> , 2014, 367, 16-20.	1.5	4
22	DEVELOPMENT OF AN ION MOBILITY SPECTROMETER FOR DETECTION OF EXPLOSIVES. <i>Instrumentation Science and Technology</i> , 2013, 41, 96-108.	1.8	5
23	Quasi-non-destructive isotopic ratio measurement of boron in irradiated control rod B4C pellets using a home-built reflectron time-of-flight mass spectrometer. <i>International Journal of Mass Spectrometry</i> , 2012, 309, 148-153.	1.5	9
24	Laser mass spectrometric studies on rare earth doped UO ₂ . <i>International Journal of Mass Spectrometry</i> , 2006, 253, 98-103.	1.5	14
25	Characteristics of amorphous VO ₂ thin films prepared by pulsed laser deposition. <i>Journal of Materials Science</i> , 2004, 39, 2869-2871.	3.7	13
26	Laser ablation of La _{0.9} Sr _{0.1} Ga _{0.8} Mg _{0.2} O _{2.85} plume and film characterization. <i>Ionics</i> , 2004, 10, 32-38.	2.4	5
27	Determination of boron isotope ratio in boron carbide using a laser mass spectrometric method. <i>Rapid Communications in Mass Spectrometry</i> , 2004, 18, 231-234.	1.5	17
28	Determination of Thermal Parameters of Vanadium Oxide Uncooled Microbolometer Infrared Detector. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 2003, 24, 327-334.	0.6	9
29	Boron isotope enrichment in nanosecond pulsed laser-ablation plume. <i>Applied Physics A: Materials Science and Processing</i> , 2003, 76, 153-156.	2.3	19
30	High temperature vapour pressure studies on graphite using laser pulse heating. <i>Carbon</i> , 2002, 40, 2031-2034.	10.3	28
31	Laser-induced-vaporisation mass-spectrometry studies on UO ₂ , UC, and ThO ₂ . <i>High Temperatures - High Pressures</i> , 2002, 34, 411-424.	0.3	17
32	Preparation of thin film of CaZrO ₃ by pulsed laser deposition. <i>Solid State Ionics</i> , 2001, 144, 339-346.	2.7	21
33	Development of a Laser Induced Vaporization Mass Spectrometric Facility. <i>Instrumentation Science and Technology</i> , 1998, 26, 81-94.	1.8	7
34	Laser induced vaporization mass spectrometric studies on UO ₂ and graphite. <i>Journal of Nuclear Materials</i> , 1997, 247, 21-27.	2.7	11
35	Quantitative determination of ¹³⁷ Cs and ⁹⁰ Sr in dissolver solutions without pre-separation using Isotope Dilution Thermal Ionization Mass Spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 0, , .	3.0	1