

Mathew Joseph

List of Publications by Year in descending order

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papers

357
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759233

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times ranked

287
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	High temperature vapour pressure studies on graphite using laser pulse heating. <i>Carbon</i> , 2002, 40, 2031-2034.	10.3	28
3	Preparation of thin film of CaZrO ₃ by pulsed laser deposition. <i>Solid State Ionics</i> , 2001, 144, 339-346.	2.7	21
4	Physicochemical properties and radiolytic degradation studies on tri-iso-amyl phosphate (TiAP). <i>Radiochimica Acta</i> , 2017, 105, 249-261.	1.2	20
5	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
6	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
7	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
8	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
9	Dissolution and characterisation studies on U ⁴⁺ -Zr and U ⁴⁺ -Pu ⁴⁺ -Zr alloys in nitric acid medium. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2017, 311, 789-800.	1.5	15
10	Laser mass spectrometric studies on rare earth doped UO ₂ . <i>International Journal of Mass Spectrometry</i> , 2006, 253, 98-103.	1.5	14
11	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
12	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
13	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
14	Laser induced vaporization mass spectrometric studies on UO ₂ and graphite. <i>Journal of Nuclear Materials</i> , 1997, 247, 21-27.	2.7	11
15	Studies Related to the Processing of U ⁴⁺ -Zr and U ⁴⁺ -Pu ⁴⁺ -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
16	Fast burn-up measurement in simulated nuclear fuel using ICP-MS. <i>Radiochimica Acta</i> , 2018, 106, 885-895.	1.2	10
17	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
18	Quasi-non-destructive isotopic ratio measurement of boron in irradiated control rod B ₄ C 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

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19	Development of a Laser Induced Vaporization Mass Spectrometric Facility. Instrumentation Science and Technology, 1998, 26, 81-94.	1.8	7
20	Laser-induced breakdown spectroscopy for simultaneous determination of lighter lanthanides in actinide matrix in aqueous medium. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2022, 190, 106393.	2.9	7
21	Effect of laser parameters on the measurement of U/Nd ratio using pulsed laser deposition followed by isotopic dilution mass spectrometry. International Journal of Mass Spectrometry, 2015, 387, 51-55.	1.5	6
22	Studies on purification of ⁸⁹ Sr from irradiated yttria target by multi-column extraction chromatography using DtBuCH18-C-6/XAD-7 resin. Radiochimica Acta, 2019, 107, 479-487.	1.2	6
23	Laser ablation of La _{0.9} Sr _{0.1} Ga _{0.8} Mg _{0.2} O _{2.85} plume and film characterization. Ionics, 2004, 10, 32-38.	2.4	5
24	DEVELOPMENT OF AN ION MOBILITY SPECTROMETER FOR DETECTION OF EXPLOSIVES. Instrumentation Science and Technology, 2013, 41, 96-108.	1.8	5
25	Effect of mass distribution and collection angle in pulsed laser deposited films – a sampling method for chemical characterization of spent nuclear fuel. Journal of Analytical Atomic Spectrometry, 2020, 35, 2840-2851.	3.0	5
26	Laser-mass spectrometric studies on measurement of isotopic ratios – A comparative study using ps and ns pulsed lasers. International Journal of Mass Spectrometry, 2014, 367, 16-20.	1.5	4
27	Direct burn-up determination of fast reactor mixed oxide (MOX) fuel by preferential evaporation of interfering elements. Journal of Radioanalytical and Nuclear Chemistry, 2017, 311, 1593-1603.	1.5	4
28	Preferential removal of Sm by evaporation from Nd-Sm mixture and its application in direct burn-up determination of spent nuclear fuel. Journal of Radioanalytical and Nuclear Chemistry, 2016, 309, 563.	1.5	3
29	Luminescent versus non-luminescent uranyl-picolinate complexes. Journal of Radioanalytical and Nuclear Chemistry, 2018, 318, 2145-2156.	1.5	3
30	Determination of intensity ratios of Nd, Cs, Zr and Sr against U and burn-up in simulated nuclear fuels by LA-ICPMS. Journal of Analytical Atomic Spectrometry, 2022, 37, 910-918.	3.0	3
31	Design, installation and preliminary flux measurements at the Fast Flux Experimental Facility (FFEF) of the Fast Breeder Test Reactor (FBTR). Journal of Radioanalytical and Nuclear Chemistry, 2019, 320, 255-263.	1.5	2
32	Characterization of gamma irradiated PUREX solvent – A systematic study. Separation Science and Technology, 2020, 55, 1485-1494.	2.5	2
33	Radiochemical purification of ¹⁴⁴ Ce from its in-grown daughter ¹⁴⁴ Pr and other fission products. Journal of Nuclear and Radiochemical Sciences, 2019, 19, 1-7.	0.7	1
34	Quantitative determination of ¹³⁷ Cs and ⁹⁰ Sr in dissolver solutions without pre-separation using Isotope Dilution Thermal Ionization Mass Spectrometry. Journal of Analytical Atomic Spectrometry, 0, , .	3.0	1
35	Thermodynamic data of U ₃ Ga ₅ from calorimetric measurements. Journal of Thermal Analysis and Calorimetry, 2017, 129, 241-247.	3.6	0