Lav Tandon

List of Publications by Year in Descending Order

41 papers	762 citations	14 h-index	27 g-index
46 ext. papers	827 ext. citations	2.1 avg, IF	3.35 L-index

#	Paper	IF	Citations
41	Characterization of nuclear materials signatures using statistical analysis processing in conjunction with quantitative morphology: a preliminary study. *Journal of Radioanalytical and Nuclear Chemistry* , **2021**, 328, 259-266	1.5	
40	Intercomparison of the Radio-Chronometric Ages of Plutonium-Certified Reference Materials with Distinct Isotopic Compositions. *Analytical Chemistry*, **2019**, 91, 11643-11652	7.8	18
39	The application of radiochronometry during the 4th collaborative materials exercise of the nuclear forensics international technical working group (ITWG). *Journal of Radioanalytical and Nuclear Chemistry*, **2018**, 315, 425-434	1.5	8
38	Uranium assay and trace element analysis of the fourth collaborative material exercise samples by the modified Davies-Gray method and the ICP-MS/OES techniques. *Journal of Radioanalytical and Nuclear Chemistry*, **2018**, 315, 379-394	1.5	5
37	Analytical chemistry of nuclear material: case studies from Los Alamos National Laboratory. *Journal of Radioanalytical and Nuclear Chemistry*, **2018**, 318, 1697-1712	1.5	3
36	Determination of origin and intended use of plutonium metal using nuclear forensic techniques. *Forensic Science International*, **2017**, 273, e1-e9	2.6	13
35	Chemical investigation of three plutonium–beryllium neutron sources. *Journal of Radioanalytical and Nuclear Chemistry*, **2017**, 312, 95-104	1.5	2
34	Nuclear forensic analysis of a non-traditional actinide sample. *Talanta*, **2016**, 159, 200-207	6.2	3
33	Forensic investigation of plutonium metal: a case study of CRM 126. *Journal of Radioanalytical and Nuclear Chemistry*, **2016**, 310, 623-632	1.5	16
32	Plutonium oxalate precipitation for trace elemental determination in plutonium materials. *Journal of Radioanalytical and Nuclear Chemistry*, **2016**, 307, 1203-1213	1.5	8
31	Determination of initial fuel state and number of reactor shutdowns in archived low-burnup uranium targets. *Journal of Radioanalytical and Nuclear Chemistry*, **2016**, 307, 1871-1876	1.5	3
30	A lexicon for consistent description of material images for nuclear forensics. *Journal of Radioanalytical and Nuclear Chemistry*, **2016**, 307, 1611-1619	1.5	23
29	Dissolution of aerosol particles collected from nuclear facility plutonium production process. *Journal of Radioanalytical and Nuclear Chemistry*, **2016**, 307, 2047-2053	1.5	5
28	Nuclear Forensics of a Non-Traditional Sample: Neptunium. *MRS Advances*, **2016**, 1, 2999-3005	0.7	3
27	Critical need for plutonium and uranium isotopic standards with lower uncertainties. *Analytical Methods*, **2016**, 8, 7289-7305	3.2	13
26	Elemental composition in sealed plutonium-beryllium neutron sources. *Applied Radiation and Isotopes*, **2015**, 95, 85-89	1.7	11
25	Validation of reference materials for uranium radiochronometry in the frame of nuclear forensic investigations. *Applied Radiation and Isotopes*, **2015**, 102, 81-86	1.7	21

24	The urgent requirement for new radioanalytical certified reference materials for nuclear safeguards, forensics, and consequence management. *Journal of Radioanalytical and Nuclear Chemistry*, **2013**, 296, 5-22	1.5	36
23	Dissolution and assay of neptunium oxide. *Journal of Radioanalytical and Nuclear Chemistry*, **2013**, 296, 245-249	1.5	7
22	Gamma spectrometer measurements of microgram quantities of plutonium using uranium L X-rays in the 13–21 keV region. *Journal of Radioanalytical and Nuclear Chemistry*, **2013**, 296, 429-434	1.5	
21	The analysis of uranium-232: comparison of radiochemical techniques and an improved method by alpha spectrometry. *Journal of Radioanalytical and Nuclear Chemistry*, **2013**, 296, 483-487	1.5	3
20	Application of micro-XRF for nuclear materials characterization and problem solving. *Powder Diffraction*, **2013**, 28, 127-131	1.8	2
19	Interactive image quantification tools in nuclear material forensics **2011**,		7
18	Alpha spectrometric characterization of process-related particle size distributions from active particle sampling at the Los Alamos National Laboratory uranium foundry. *IOP Conference Series: Materials Science and Engineering*, **2010**, 9, 012041	0.4	3
17	Unique challenges with recent gamma spectroscopy measurements at Los Alamos National Laboratory. *Journal of Radioanalytical and Nuclear Chemistry*, **2009**, 282, 533-537	1.5	1
16	Plutonium metal standards exchange program for actinide measurement quality assurance (2001–2007). *Journal of Radioanalytical and Nuclear Chemistry*, **2009**, 282, 565-571	1.5	8
15	Refinement of Pu parent–daughter isotopic and concentration analysis for forensic (dating) purposes. *Journal of Radioanalytical and Nuclear Chemistry*, **2009**, 282, 549-554	1.5	15
14	Establishing reactor operations from uranium targets used for the production of plutonium. *Journal of Radioanalytical and Nuclear Chemistry*, **2009**, 282, 573-579	1.5	4
13	One-dimensional mapping of gamma emitting radionuclides in support of forensic examination. *Journal of Radioanalytical and Nuclear Chemistry*, **2009**, 282, 865	1.5	
12	Nuclear, chemical, and physical characterization of nuclear materials. *Journal of Radioanalytical and Nuclear Chemistry*, **2008**, 276, 467-473	1.5	29
11	Characterization of depleted uranium oxides fabricated using different processing methods. *Journal of Radioanalytical and Nuclear Chemistry*, **2008**, 276, 475-481	1.5	14
10	The radiolysis of poly(4-vinylpyridine) quaternary salt ion exchange resins. *Journal of Nuclear Materials*, **2008**, 373, 103-111	3.3	10
9	H2 and Cl2 production in the radiolysis of calcium and magnesium chlorides and hydroxides. *Journal of Physical Chemistry A*, **2005**, 109, 2861-5	2.8	14
8	H2 Production in the Radiolysis of Water on UO2 and Other Oxides. *Journal of Physical Chemistry B*, **2003**, 107, 13623-13628	3.4	74
7	H2 Production in the Radiolysis of Water on CeO2 and ZrO2. *Journal of Physical Chemistry B*, **2002**, 106, 380-386	3.4	93

6	A review of radiologically important trace elements in human bones. *Applied Radiation and Isotopes*, **1998**, 49, 903-10	1.7	31
5	Elemental imbalance studies by INAA on extraneural tissues from amyotrophic lateral sclerosis patients. *Journal of Radioanalytical and Nuclear Chemistry*, **1995**, 195, 13-19	1.5	3
4	Neutron activation analysis of trace elements in motor neuron disease spinal cord. *Experimental Neurology*, **1995**, 4, 383-90		26
3	Aluminum, calcium, and iron in the spinal cord of patients with sporadic amyotrophic lateral sclerosis using laser microprobe mass spectroscopy: a preliminary study. *Journal of the Neurological Sciences*, **1995**, 130, 203-8	3.2	117
2	RNAA for arsenic, cadmium, copper, and molybdenum in CNS tissues from subjects with age-related neurodegenerative diseases. *Journal of Radioanalytical and Nuclear Chemistry*, **1994**, 179, 331-339	1.5	19
1	Iron, selenium and glutathione peroxidase activity are elevated in sporadic motor neuron disease. *Neuroscience Letters*, **1994**, 182, 87-90	3.3	91