

Sangita Dhara

List of Publications by Year in descending order

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48
papers

765
citations

567281

15
h-index

580821

25
g-index

52
all docs

52
docs citations

52
times ranked

817
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of oleic acid functionalized Fe ₃ O ₄ magnetic nanoparticles and studying their interaction with tumor cells for potential hyperthermia applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 108, 158-168.	5.0	134
2	Luminescence, lifetime, and quantum yield studies of redispersible Eu ³⁺ -doped GdPO ₄ crystalline nanoneedles: Core-shell and concentration effects. <i>Journal of Applied Physics</i> , 2010, 107, .	2.5	84
3	Uranium determination in seawater by total reflection X-ray fluorescence spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2006, 61, 1166-1169.	2.9	41
4	Bulk determination of uranium and thorium in presence of each other by Total Reflection X-ray Fluorescence spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2007, 62, 82-85.	2.9	35
5	A total reflection X-ray fluorescence method for the determination of chlorine at trace levels in nuclear materials without sample dissolution. <i>X-Ray Spectrometry</i> , 2012, 41, 316-320.	1.4	27
6	Trace element determination in thorium oxide using total reflection X-ray fluorescence spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2008, 63, 81-85.	2.9	25
7	Forensic application of total reflection X-ray fluorescence spectrometry for elemental characterization of ink samples. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2010, 65, 167-170.	2.9	24
8	Determination of sulphur in uranium matrix by total reflection X-ray fluorescence spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2008, 63, 1395-1398.	2.9	23
9	Direct Compositional Characterization of (U,Th)O ₂ Powders, Microspheres, and Pellets Using TXRF. <i>Analytical Chemistry</i> , 2015, 87, 10262-10267.	6.5	23
10	Inclusion of silver nanoparticles in host poly(perfluorosulfonic) acid membrane using ionic and non-ionic reductants. <i>Journal of Membrane Science</i> , 2010, 352, 247-254.	8.2	22
11	Determination of low atomic number elements at trace levels in uranium matrix using vacuum chamber total reflection X-ray fluorescence. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2010, 65, 457-460.	2.9	20
12	Elemental characterization of nuclear materials using total reflection X-ray fluorescence spectrometry. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 116, 31-43.	11.4	20
13	An EDXRF method for determination of uranium and thorium in AHWR fuel after dissolution. <i>X-Ray Spectrometry</i> , 2009, 38, 112-116.	1.4	19
14	Determinations of low atomic number elements in real uranium oxide samples using vacuum chamber total reflection x-ray fluorescence. <i>X-Ray Spectrometry</i> , 2014, 43, 108-111.	1.4	18
15	Application of total reflection X-ray fluorescence spectrometry for trace elemental analysis of rainwater. <i>Pramana - Journal of Physics</i> , 2011, 76, 361-366.	1.8	15
16	Total reflection X-ray Fluorescence determination of interfering elements rubidium and uranium by profile fitting. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 144, 87-91.	2.9	14
17	A novel approach for chlorine determination in acidic medium by total reflection x-ray fluorescence. <i>X-Ray Spectrometry</i> , 2009, 38, 182-185.	1.4	12
18	Synchrotron-induced EDXRF determination of uranium and thorium in mixed uranium-thorium oxide pellets. <i>X-Ray Spectrometry</i> , 2013, 42, 4-7.	1.4	12

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19	Development of a microanalytical energy dispersive X-ray fluorescence method for compositional characterization of (U, Pu)O ₂ samples. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2017, 131, 124-129.	2.9	12
20	The role of matrix in the evaluation of analytical parameters for trace determinations using TXRF spectrometry. Journal of Analytical Atomic Spectrometry, 2021, 36, 352-360.	3.0	12
21	Drastic improvement in detection limits in energy dispersive X-ray fluorescence geometry utilizing micro-focused bremsstrahlung excitation in thin-film sample specimen. Journal of Analytical Atomic Spectrometry, 2021, 36, 803-812.	3.0	11
22	Galvanic reactions involving silver nanoparticles embedded in cation-exchange membrane. Chemical Communications, 2010, 46, 6371.	4.1	10
23	Application of TXRF for burn leach test of TRISO coated UO ₂ particles. Journal of Radioanalytical and Nuclear Chemistry, 2014, 302, 1357-1361.	1.5	10
24	Direct Multielemental Trace Determinations in Plutonium Samples by Total Reflection X-ray Fluorescence Spectrometry Using a Very Small Sample Amount. Analytical Chemistry, 2018, 90, 11070-11077.	6.5	10
25	TXRF determination of indium at ultra trace levels in heavy water samples using In K α as analytical line and continuum excitation. Journal of Radioanalytical and Nuclear Chemistry, 2015, 306, 231-235.	1.5	9
26	Energy dispersive X-ray fluorescence determination of cadmium in uranium matrix using Cd K α line excited by continuum. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2010, 65, 461-465.	2.9	8
27	Trace determination of uranium in fertilizer samples by total reflection X-ray fluorescence. Pramana - Journal of Physics, 2011, 76, 357-360.	1.8	8
28	Characterization of Sb-doped Bi ₂ UO ₆ Solid Solutions by X-ray Diffraction and X-ray Absorption Spectroscopy. Analytical Sciences, 2013, 29, 579-584.	1.6	8
29	Improved approach for the determination of low-Z elements in uranium samples using a vacuum chamber TXRF spectrometer. X-Ray Spectrometry, 2017, 46, 442-447.	1.4	8
30	Quantification and distribution of trace elements in fusion bead and pressed pellet specimens using a table top micro-X-ray fluorescence spectrometer. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2021, 177, 106063.	2.9	8
31	Betterment in EDXRF analytical results for compositional characterization of mixed uranium thorium oxide samples with bead specimens compared with pressed pellet specimens. X-Ray Spectrometry, 2016, 45, 268-273.	1.4	7
32	Analysis of Th and U in thorium-based mixed-oxide fuel using wavelength dispersive X-ray fluorescence spectrometer. Journal of Radioanalytical and Nuclear Chemistry, 2019, 319, 775-781.	1.5	7
33	Total reflection X-ray fluorescence spectrometric determination of ultra-trace uranium in natural water samples using a dispersive liquid-liquid micro-extraction method. Journal of Analytical Atomic Spectrometry, 2020, 35, 1632-1640.	3.0	7
34	Direct non-destructive total reflection X-ray fluorescence elemental determinations in zirconium alloy samples. Journal of Synchrotron Radiation, 2020, 27, 1253-1261.	2.4	7
35	Energy dispersive X-Ray fluorescence determination of thorium in phosphoric acid solutions. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2010, 65, 579-582.	2.9	6
36	A direct and safe method for plutonium determination using total reflection X-ray fluorescence spectrometry. Journal of Analytical Atomic Spectrometry, 2019, 34, 366-374.	3.0	6

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37	Direct determination of uranium in sintered deeply depleted uranium oxide pellets by wavelength dispersive X-ray fluorescence spectrometry. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2020, 323, 275-281.	1.5	6
38	A highly precise micro-analytical XRF method for compositional characterization of fast breeder reactor fuels. <i>Journal of Analytical Atomic Spectrometry</i> , 2022, 37, 130-138.	3.0	5
39	Preparation, characterization and thermal behavior of $K_{2.4}U_{4.13}O_{13.2}Rb_{2.4}U_{4.13}O_{13}$ solid solutions. <i>Radiochimica Acta</i> , 2016, 104, 205-210.	1.2	4
40	A simple microanalytical method for trace elemental determination in plutonium samples using energy dispersive X-ray fluorescence. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 169, 105897.	2.9	4
41	Direct non-destructive trace and major elemental analysis in steel samples utilizing micro-focused bremsstrahlung radiation in X-ray fluorescence geometry. <i>Analytical Sciences</i> , 2022, 38, 665-673.	1.6	4
42	Universal EDXRF Method for Multi-elemental Determinations Using Fused Bead Specimens. <i>Analytical Sciences</i> , 2020, 36, 113-117.	1.6	3
43	Compositional characterization of hafnium recovered from zirconium purification process using total reflection X-ray fluorescence. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2021, 182, 106235.	2.9	3
44	A Direct Non-destructive Method for Determination of Sulfur in Ore Samples Using EDXRF Spectrometry. <i>Analytical Sciences</i> , 2021, 37, 1111-1115.	1.6	3
45	Energy dispersive X-ray fluorescence determination of uranium in different uranates using $Rh K\beta$ scattered peaks for matrix correction. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2022, 193, 106427.	2.9	3
46	A comparative study on determination of uranium and thorium in their mixed oxides by EDXRF using tube and radioisotope $X\text{-ray}$ sources. <i>X-Ray Spectrometry</i> , 2011, 40, 379-384.	1.4	2
47	Evaluation of compositional micro-homogeneity in MOX fuels using lab based μ -XRF spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2022, 37, 1179-1185.	3.0	2
48	X-ray absorption near-edge structure (XANES) studies on Sb-doped Bi_2UO_6 at Bi and U edges. <i>AIP Conference Proceedings</i> , 2013, , .	0.4	1