

Kaushik Sanyal

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

455
citations

933447

10
h-index

713466

21
g-index

27
all docs

27
docs citations

27
times ranked

497
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	A green analytical approach for the direct non-destructive compositional analysis of (Th, U) based nuclear fuel. <i>Journal of Analytical Atomic Spectrometry</i> , 2022, 37, 741-749.	3.0	6
3	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
4	Assessment of matrix tolerance for the direct trace elemental analysis in uranium by X-Ray Fluorescence technique using micro focussed beam. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2022, 190, 106389.	2.9	1
5	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
6	Quantification and distribution of trace elements in fusion bead and pressed pellet specimens using a table top micro-X-ray fluorescence spectrometer. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2021, 177, 106063.	2.9	8
7	Drastic improvement in detection limits in energy dispersive X-ray fluorescence geometry utilizing micro-focused bremsstrahlung excitation in thin-film sample specimen. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 803-812.	3.0	11
8	Piperazinyl-Based Diamide Ligand for Selective Precipitation of Actinyl (UO ₂ ²⁺ /PuO ₂ ²⁺) Ions with Fast Kinetics. <i>Inorganic Chemistry</i> , 2021, 60, 17529-17536.	4.0	2
9	Arsenic quantification and speciation at trace levels in natural water samples by total reflection X-ray fluorescence after pre-concentration with N-methyl-D-glucamine functionalized quartz supports. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 2770-2778.	3.0	16
10	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
11	Universal EDXRF Method for Multi-elemental Determinations Using Fused Bead Specimens. <i>Analytical Sciences</i> , 2020, 36, 113-117.	1.6	3
12	Direct non-destructive total reflection X-ray fluorescence elemental determinations in zirconium alloy samples. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 1253-1261.	2.4	7
13	A direct and safe method for plutonium determination using total reflection X-ray fluorescence spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 366-374.	3.0	6
14	Trace element determinations in uranium by energy dispersive X-ray fluorescence spectrometry using thin film specimens. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019, 155, 44-49.	2.9	14
15	Direct determination of fluorine in high-purity water samples using vacuum sample chamber total reflection X-ray fluorescence spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 876-882.	3.0	6
16	Trace element determinations in uranium by Total reflection X-Ray Fluorescence spectrometry using a newly developed polymer resin for major matrix separation. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 150, 18-25.	2.9	15
17	Direct Multielemental Trace Determinations in Plutonium Samples by Total Reflection X-ray Fluorescence Spectrometry Using a Very Small Sample Amount. <i>Analytical Chemistry</i> , 2018, 90, 11070-11077.	6.5	10
18	Determination of trace elements in normal and malignant breast tissues of different age group using total reflection X-ray fluorescence spectrometer. <i>X-Ray Spectrometry</i> , 2018, 47, 432-440.	1.4	9

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19	Trace element determinations in uranium by total reflection X-ray fluorescence spectrometry using polychromatic X-ray excitation. <i>X-Ray Spectrometry</i> , 2017, 46, 277-282.	1.4	5
20	Direct Determination of Oxidation States of Uranium in Mixed-Valent Uranium Oxides Using Total Reflection X-ray Fluorescence X-ray Absorption Near-Edge Spectroscopy. <i>Analytical Chemistry</i> , 2017, 89, 871-876.	6.5	54
21	Selective Micellar Extraction of Ultratrace Levels of Uranium in Aqueous Samples by Task Specific Ionic Liquid Followed by Its Detection Employing Total Reflection X-ray Fluorescence Spectrometry. <i>Analytical Chemistry</i> , 2017, 89, 10422-10430.	6.5	38
22	Improved approach for the determination of low atomic number elements in uranium samples using a vacuum chamber TXRF spectrometer. <i>X-Ray Spectrometry</i> , 2017, 46, 442-447.	1.4	8
23	Investigations on local structures in new $\text{Bi}_{2-x}\text{La}_x\text{UO}_6$ ($x = 1$) <i>Journal of Solid State Chemistry</i> , 2017, 333, 7650-7664.	3.3	21
24	Luminescence of undoped and Eu^{3+} doped nanocrystalline SrWO_4 scheelite: time resolved fluorescence complimented by DFT and positron annihilation spectroscopic studies. <i>RSC Advances</i> , 2016, 6, 3792-3805.	3.6	57
25	Application of TXRF for burn leach test of TRISO coated UO_2 particles. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2014, 302, 1357-1361.	1.5	10
26	Photoluminescence and EPR studies on Fe^{3+} doped ZnAl_2O_4 : an evidence for local site swapping of Fe^{3+} and formation of inverse and normal phase. <i>Dalton Transactions</i> , 2014, 43, 9313.	3.3	104
27	Improvements in energy dispersive X-ray fluorescence detection limits with thin specimens deposited on thin transparent adhesive tape supports. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 101, 130-133.	2.9	29