

Kaushik Sanyal

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Photoluminescence and EPR studies on Fe ³⁺ doped ZnAl ₂ O ₄ : an evidence for local site swapping of Fe ³⁺ and formation of inverse and normal phase. Dalton Transactions, 2014, 43, 9313.	3.3	104
2	Luminescence of undoped and Eu ³⁺ doped nanocrystalline SrWO ₄ scheelite: time resolved fluorescence complimented by DFT and positron annihilation spectroscopic studies. RSC Advances, 2016, 6, 3792-3805.	3.6	57
3	Direct Determination of Oxidation States of Uranium in Mixed-Valent Uranium Oxides Using Total Reflection X-ray Fluorescence X-ray Absorption Near-Edge Spectroscopy. Analytical Chemistry, 2017, 89, 871-876.	6.5	54
4	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. Analytical Chemistry, 2017, 89, 10422-10430.	6.5	38
5	Improvements in energy dispersive X-ray fluorescence detection limits with thin specimens deposited on thin transparent adhesive tape supports. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2014, 101, 130-133.	2.9	29
6	Investigations on local structures in new Bi ₂ La ₂ UO ₆ (x =) Tj ETQq0 0 0 rgBT /Overlock 107650-7664.	3.3	21
7	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. Journal of Analytical Atomic Spectrometry, 2020, 35, 2770-2778.	3.0	16
8	Trace element determinations in uranium by Total reflection X-Ray Fluorescence spectrometry using a newly developed polymer resin for major matrix separation. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2018, 150, 18-25.	2.9	15
9	Trace element determinations in uranium by energy dispersive X-ray fluorescence spectrometry using thin film specimens. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2019, 155, 44-49.	2.9	14
10	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
11	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
12	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
13	Determination of trace elements in normal and malignant breast tissues of different age group using total reflection X-ray fluorescence spectrometer. X-Ray Spectrometry, 2018, 47, 432-440.	1.4	9
14	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
15	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
16	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
17	Direct determination of fluorine in high-purity water samples using vacuum sample chamber total reflection X-ray fluorescence spectrometry. Journal of Analytical Atomic Spectrometry, 2018, 33, 876-882.	3.0	6
18	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

#	ARTICLE	IF	CITATIONS
19	A green analytical approach for the direct non-destructive compositional analysis of (Th,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 Journal of Analytical Atomic Spectrometry, 2022, 37, 741-749.	3.0	6
20	Trace element determinations in uranium by total reflection X-ray fluorescence spectrometry using polychromatic X-ray excitation. X-Ray Spectrometry, 2017, 46, 277-282.	1.4	5
21	A highly precise micro-analytical XRF method for compositional characterization of fast breeder reactor fuels. Journal of Analytical Atomic Spectrometry, 2022, 37, 130-138.	3.0	5
22	A simple microanalytical method for trace elemental determination in plutonium samples using energy dispersive X-ray fluorescence. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2020, 169, 105897.	2.9	4
23	Direct non-destructive trace and major elemental analysis in steel samples utilizing micro-focused bremsstrahlung radiation in X-ray fluorescence geometry. Analytical Sciences, 2022, 38, 665-673.	1.6	4
24	Universal EDXRF Method for Multi-elemental Determinations Using Fused Bead Specimens. Analytical Sciences, 2020, 36, 113-117.	1.6	3
25	Piperazinyl-Based Diamide Ligand for Selective Precipitation of Actinyl (UO ₂ ²⁺ /PuO ₂ ²⁺) Ions with Fast Kinetics. Inorganic Chemistry, 2021, 60, 17529-17536.	4.0	2
26	Evaluation of compositional micro-homogeneity in MOX fuels using lab based ²³⁵ U-XRF spectrometry. Journal of Analytical Atomic Spectrometry, 2022, 37, 1179-1185.	3.0	2
27	Assessment of matrix tolerance for the direct trace elemental analysis in uranium by X-Ray Fluorescence technique using micro focussed beam. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2022, 190, 106389.	2.9	1