

# Christina Streli

## List of Publications by Year in descending order

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233  
papers

4,761  
citations

136740

32  
h-index

174990

52  
g-index

240  
all docs

240  
docs citations

240  
times ranked

3947  
citing authors

#	ARTICLE	IF	CITATIONS
1	Source of coherent kiloelectronvolt X-rays. <i>Nature</i> , 2005, 433, 596-596.	13.7	267
2	Coherent 0.5-keV X-Ray Emission from Helium Driven by a Sub-10-fs Laser. <i>Physical Review Letters</i> , 1998, 80, 3236-3239.	2.9	205
3	Coherent superposition of laser-driven soft-X-ray harmonics from successive sources. <i>Nature Physics</i> , 2007, 3, 878-883.	6.5	192
4	Spatial distribution of the trace elements zinc, strontium and lead in human bone tissue. <i>Bone</i> , 2013, 57, 184-193.	1.4	141
5	Analytical Possibilities of Total Reflection X-ray Spectrometry (TXRF) for Trace Selenium Determination in Soils. <i>Analytical Chemistry</i> , 2010, 82, 7744-7751.	3.2	75
6	Lead accumulation in tidemark of articular cartilage. <i>Osteoarthritis and Cartilage</i> , 2006, 14, 906-913.	0.6	68
7	Determination of the elemental distribution in human joint bones by SR micro XRF. <i>X-Ray Spectrometry</i> , 2008, 37, 3-11.	0.9	65
8	Bone material quality in transiliac bone biopsies of postmenopausal osteoporotic women after 3 years of strontium ranelate treatment. <i>Journal of Bone and Mineral Research</i> , 2010, 25, 891-900.	3.1	62
9	Atomic spectrometry update—X-ray fluorescence spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 1503.	1.6	58
10	Analytical approaches for Hg determination in wastewater samples by means of total reflection X-ray fluorescence spectrometry. <i>Talanta</i> , 2010, 82, 821-827.	2.9	57
11	Source term identification of environmental radioactive Pu/U particles by their characterization with non-destructive spectrochemical analytical techniques. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2005, 60, 455-469.	1.5	51
12	2013 Atomic spectrometry update—A review of advances in X-ray fluorescence spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 1544.	1.6	47
13	Analysis of Ni on Si-wafer surfaces using synchrotron radiation excited total reflection X-ray fluorescence analysis. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1997, 52, 901-906.	1.5	46
14	Synchrotron radiation induced TXRF. <i>Journal of Analytical Atomic Spectrometry</i> , 2008, 23, 792.	1.6	46
15	Recent Advances in TXRF. <i>Applied Spectroscopy Reviews</i> , 2006, 41, 473-489.	3.4	45
16	Speciation of copper and zinc in size-fractionated atmospheric particulate matter using total reflection mode X-ray absorption near-edge structure spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2010, 65, 1008-1013.	1.5	42
17	Atomic spectrometry update-X-ray fluorescence spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 1919.	1.6	42
18	2014 Atomic Spectrometry Update — a review of advances in X-ray fluorescence spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 1516.	1.6	42

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19	A new technique for the deposition of standard solutions in total reflection X-ray fluorescence spectrometry (TXRF) using pico-droplets generated by inkjet printers and its applicability for aerosol analysis with SR-TXRF. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2006, 61, 1098-1104.	1.5	41
20	2015 Atomic Spectrometry Update – a review of advances in X-ray fluorescence spectrometry and their applications. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 1839-1889.	1.6	41
21	2016 Atomic Spectrometry Update – a review of advances in X-ray fluorescence spectrometry and its applications. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 1706-1755.	1.6	41
22	Synchrotron radiation-induced total reflection X-ray fluorescence analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2010, 29, 479-496.	5.8	40
23	Distribution of Pb and Zn in slices of human bone by synchrotron $\mu$ -XRF. <i>X-Ray Spectrometry</i> , 2005, 34, 140-143.	0.9	39
24	Instrumental developments in total reflection x-ray fluorescence analysis for K-lines from oxygen to the rare earth elements. <i>X-Ray Spectrometry</i> , 1991, 20, 23-28.	0.9	38
25	Low Z total reflection X-ray fluorescence analysis – challenges and answers. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1999, 54, 1433-1441.	1.5	38
26	Atomic spectrometry update. X-Ray fluorescence spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2005, 20, 1124.	1.6	37
27	A portable micro-X-ray fluorescence spectrometer with polycapillary optics and vacuum chamber for archaeometric and other applications. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2007, 62, 1252-1256.	1.5	37
28	Application of synchrotron radiation induced TXRF-XANES for arsenic speciation in cucumber ( <i>Cucumis sativus</i> L.) xylem sap. <i>X-Ray Spectrometry</i> , 2007, 36, 408-412.	0.9	36
29	Atomic spectrometry update – X-ray fluorescence spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 1603.	1.6	36
30	Analysis of low Z elements in various environmental samples with total reflection X-ray fluorescence (TXRF) spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2006, 61, 1135-1140.	1.5	35
31	Characterization of atmospheric aerosols using Synchrotron radiation total reflection X-ray fluorescence and Fe K-edge total reflection X-ray fluorescence-X-ray absorption near-edge structure. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2008, 63, 1489-1495.	1.5	35
32	Confocal micro-x-ray fluorescence spectrometer for light element analysis. <i>Review of Scientific Instruments</i> , 2012, 83, 083703.	0.6	35
33	Recent results of synchrotron radiation induced total reflection X-ray fluorescence analysis at HASYLAB, beamline L. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2006, 61, 1129-1134.	1.5	34
34	Atomic spectrometry update. X-Ray fluorescence spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2009, 24, 1289.	1.6	34
35	Total reflection X-ray fluorescence analysis of light elements with synchrotron radiation and special X-ray tubes. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1997, 52, 861-872.	1.5	33
36	Total reflection X-ray fluorescence analysis of low-Z elements. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1989, 44, 491-497.	1.5	32

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37	Direct analysis of Al <sub>2</sub> O <sub>3</sub> powders by total reflection X-ray fluorescence spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 382, 1958-1964.	1.9	32
38	Atomic spectrometry update—X-ray fluorescence spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2006, 21, 1076-1107.	1.6	32
39	Atomic spectrometry update. X-ray fluorescence spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2007, 22, 1304.	1.6	32
40	Complex forming competition and in-vitro toxicity studies on the applicability of di-2-pyridylketone-4,4'-dimethyl-3-thiosemicarbazone (Dp44mT) as a metal chelator. <i>Journal of Inorganic Biochemistry</i> , 2014, 130, 52-58.	1.5	32
41	Combined evaluation of grazing incidence X-ray fluorescence and X-ray reflectivity data for improved profiling of ultra-shallow depth distributions. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 99, 121-128.	1.5	32
42	Differential accumulation of lead and zinc in double-tidemarks of articular cartilage. <i>Osteoarthritis and Cartilage</i> , 2013, 21, 1707-1715.	0.6	31
43	First Total Reflection X-Ray Fluorescence round-robin test of water samples: Preliminary results. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 101, 6-14.	1.5	31
44	Light element analysis with a new spectrometer for total-reflection X-ray fluorescence. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1993, 48, 163-170.	1.5	30
45	Characterisation of <sup>210</sup> Pb dated peat core by various X-ray fluorescence techniques. <i>Science of the Total Environment</i> , 1998, 218, 239-248.	3.9	30
46	Total-reflection X-ray fluorescence analysis using special X-ray sources. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1993, 48, 143-151.	1.5	29
47	A new total reflection X-ray fluorescence vacuum chamber with sample changer analysis using a silicon drift detector for chemical analysis. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2004, 59, 1199-1203.	1.5	29
48	Multimodal imaging of undecalcified tissue sections by MALDI MS and <sup>14</sup> XRF. <i>Analyst, The</i> , 2018, 143, 2587-2595.	1.7	29
49	TXRF with synchrotron radiation Analysis of Ni on Si-wafer surfaces. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1995, 363, 619-620.	0.7	28
50	First measurements with new high-resolution gadolinium-GEM neutron detectors. <i>Journal of Instrumentation</i> , 2016, 11, P05011-P05011.	0.5	28
51	Detection and imaging of gadolinium accumulation in human bone tissue by micro- and submicro-XRF. <i>Scientific Reports</i> , 2020, 10, 6301.	1.6	28
52	Generation of coherent keV x-rays with intense femtosecond laser pulses. <i>New Journal of Physics</i> , 2006, 8, 251-251.	1.2	27
53	Applications of a new portable (micro) XRF instrument having low- $Z$ elements determination capability in the field of works of art. <i>X-Ray Spectrometry</i> , 2008, 37, 450-457.	0.9	27
54	Total-reflection X-ray fluorescence analysis of Austrian wine. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2006, 61, 1214-1218.	1.5	26

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55	Total reflection X-ray fluorescence analysis with synchrotron radiation monochromatized by multilayer structures. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1995, 355, 648-653.	0.7	25
56	X-ray fluorescence spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2000, 15, 1417-1442.	1.6	25
57	Analysis of organic contaminants on Si wafers with TXRF-NEXAFS. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2003, 58, 2245-2253.	1.5	25
58	Improved micro x-ray fluorescence spectrometer for light element analysis. <i>Review of Scientific Instruments</i> , 2010, 81, 053707.	0.6	25
59	Combination of grazing incidence x-ray fluorescence with x-ray reflectivity in one table-top spectrometer for improved characterization of thin layer and implants on/in silicon wafers. <i>Review of Scientific Instruments</i> , 2014, 85, 083110.	0.6	25
60	JGIXA – A software package for the calculation and fitting of grazing incidence X-ray fluorescence and X-ray reflectivity data for the characterization of nanometer-layers and ultra-shallow-implants. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2016, 118, 20-28.	1.5	25
61	Metal transport capabilities of anticancer copper chelators. <i>Journal of Trace Elements in Medicine and Biology</i> , 2018, 47, 79-88.	1.5	25
62	A new spectrometer for total reflection X-ray fluorescence analysis of light elements. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1993, 334, 425-429.	0.7	24
63	Total reflection X-ray fluorescence analysis of light elements using synchrotron radiation. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1994, 345, 399-403.	0.7	24
64	Atomic Spectrometry Update. X-ray fluorescence spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2001, 16, 1217-1237.	1.6	24
65	Improvement of total reflection X-ray fluorescence analysis of low Z elements on silicon wafer surfaces at the PTB monochromator beamline for undulator radiation at the electron storage ring BESSY II. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2001, 56, 2073-2083.	1.5	24
66	Analysis of some chosen elements of cerebrospinal fluid and serum in amyotrophic lateral sclerosis patients by total reflection X-ray fluorescence. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2006, 61, 1210-1213.	1.5	24
67	Increased strontium uptake in trabecular bone of ovariectomized calcium-deficient rats treated with strontium ranelate or strontium chloride. <i>Journal of Synchrotron Radiation</i> , 2011, 18, 835-841.	1.0	24
68	Uptake and toxicity of nano-ZnO in the plant-feeding nematode, <i>Xiphinema vuittenezi</i> : the role of dissolved zinc and nanoparticle-specific effects. <i>Environmental Science and Pollution Research</i> , 2016, 23, 9669-9678.	2.7	24
69	2017 atomic spectrometry update – a review of advances in X-ray fluorescence spectrometry and its special applications. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 1629-1649.	1.6	24
70	Novel methods of TXRF analysis for silicon wafer surface inspection. <i>Fresenius' Journal of Analytical Chemistry</i> , 1999, 363, 98-102.	1.5	23
71	Nondestructive dose determination and depth profiling of arsenic ultrashallow junctions with total reflection X-ray fluorescence analysis compared to dynamic secondary ion mass spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2004, 59, 1243-1249.	1.5	23
72	Atomic spectrometry update. X-ray fluorescence spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2008, 23, 1409.	1.6	23

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73	A novel vacuum spectrometer for total reflection x-ray fluorescence analysis with two exchangeable low power x-ray sources for the analysis of low, medium, and high Z elements in sequence. Review of Scientific Instruments, 2015, 86, 083105.	0.6	23
74	Grazing exit versus grazing incidence geometry for x-ray absorption near edge structure analysis of arsenic traces. Journal of Applied Physics, 2009, 105, 074906.	1.1	22
75	Measurement of the spectral distribution of a diffraction x-ray tube with a solid-state detector. X-Ray Spectrometry, 1992, 21, 37-42.	0.9	21
76	Trace element determination of mercury by total-reflection X-ray fluorescence. Spectrochimica Acta, Part B: Atomic Spectroscopy, 1997, 52, 945-951.	1.5	21
77	Femtosecond X-Ray Fluorescence. Physical Review Letters, 2000, 85, 3392-3395.	2.9	21
78	Synchrotron XRF analyses of element distribution in fossilized sauropod dinosaur bones. Powder Diffraction, 2009, 24, 130-134.	0.4	21
79	PART II (Portable ART analyzer)-development of a XRF spectrometer adapted for the study of artworks in the Kunsthistorisches Museum, Vienna. X-Ray Spectrometry, 2010, 39, 98-102.	0.9	21
80	Microanalytical method development for Fe, Cu and Zn determination in colorectal cancer cells. Talanta, 2011, 85, 1959-1965.	2.9	21
81	Assessment of chemical species of lead accumulated in tidemarks of human articular cartilage by X-ray absorption near-edge structure analysis. Journal of Synchrotron Radiation, 2011, 18, 238-244.	1.0	21
82	A simple method for monitoring of removal of arsenic species from drinking water applying on-site separation with solid phase extraction and detection by atomic absorption and X-ray fluorescence based techniques. Microchemical Journal, 2017, 135, 105-113.	2.3	21
83	Comparative elemental analysis of fine particulate matter (PM 2.5 ) from industrial and residential areas in Greater Cairo-Egypt by means of a multi-secondary target energy dispersive X-ray fluorescence spectrometer. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2018, 145, 29-35.	1.5	21
84	Unshielding Multidrug Resistant Cancer through Selective Iron Depletion of P-Glycoprotein-Expressing Cells. Cancer Research, 2020, 80, 663-674.	0.4	21
85	A new SR-TXRF vacuum chamber for ultra-trace analysis at HASYLAB, Beamline L. X-Ray Spectrometry, 2005, 34, 451-455.	0.9	20
86	Quantitative total reflection X-ray fluorescence analysis of directly collected aerosol samples. X-Ray Spectrometry, 2017, 46, 454-460.	0.9	20
87	Total reflection x-ray fluorescence analysis of light elements under various excitation conditions. X-Ray Spectrometry, 1995, 24, 137-142.	0.9	19
88	First results of TXRF measurements of low-Z elements on Si wafer surfaces at the PTB plane grating monochromator beamline for undulator radiation at BESSY II. X-Ray Spectrometry, 2001, 30, 24-31.	0.9	19
89	A new X-ray tube for efficient excitation of low-Z-elements with total reflection X-ray fluorescence analysis. Spectrochimica Acta, Part B: Atomic Spectroscopy, 1991, 46, 1351-1359.	1.5	18
90	Direct total-reflection X-ray fluorescence trace element analysis of organic matrix materials with a semiempirical standard. Spectrochimica Acta, Part B: Atomic Spectroscopy, 1997, 52, 923-933.	1.5	18

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91	Analysis of low Z elements on Si wafer surfaces with undulator radiation induced total reflection X-ray fluorescence at the PTB beamline at BESSY II. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2003, 58, 2113-2121.	1.5	18
92	Analysis of low Z elements on Si wafer surfaces with synchrotron radiation induced total reflection X-ray fluorescence at SSRL, Beamline 3-3: comparison of droplets with spin coated wafers. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2003, 58, 2105-2112.	1.5	18
93	Applicability of direct total reflection X-ray fluorescence analysis for selenium determination in solutions related to environmental and geochemical studies. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2010, 65, 1002-1007.	1.5	18
94	Peer review versus editorial review and their role in innovative science. <i>Theoretical Medicine and Bioethics</i> , 2012, 33, 359-376.	0.4	18
95	Study of selenium sorption processes in volcanic ash using Total Reflection X-ray Fluorescence (TXRF). <i>Chemical Geology</i> , 2013, 352, 19-26.	1.4	18
96	Comparison of two confocal micro-XRF spectrometers with different design aspects. <i>X-Ray Spectrometry</i> , 2014, 43, 93-101.	0.9	18
97	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.	0.9	18
98	Shading in TXRF: calculations and experimental validation using a color X-ray camera. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 2184-2193.	1.6	18
99	Comparative in vitro investigation of anticancer copper chelating agents. <i>Microchemical Journal</i> , 2018, 136, 227-235.	2.3	18
100	Elemental imaging of trace elements in bone samples using micro and nano-X-ray fluorescence spectrometry. <i>Applied Radiation and Isotopes</i> , 2019, 149, 200-205.	0.7	18
101	Atomic spectrometry update. X-ray fluorescence spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2004, 19, 1397.	1.6	17
102	Investigation of element distribution and homogeneity of TXRF samples using SR-micro-XRF to validate the use of an internal standard and improve external standard quantification. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 2649-2654.	1.9	17
103	Comparison of three reconstruction methods based on deconvolution, iterative algorithm and neural network for X-ray fluorescence imaging with coded aperture optics. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 1423-1434.	1.6	17
104	Total reflection X-ray fluorescence analysis of light elements. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1997, 52, 281-293.	1.5	16
105	Atomic spectrometry update. X-ray fluorescence spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2002, 17, 1439-1455.	1.6	16
106	Grazing incidence x-ray fluorescence and secondary ion mass spectrometry combined approach for the characterization of ultrashallow arsenic distribution in silicon. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010, 28, C1C59-C1C64.	0.6	16
107	Observation of X-ray shadings in synchrotron radiation-total reflection X-ray fluorescence using a color X-ray camera. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 99, 179-184.	1.5	16
108	Elemental depth profiling in transparent conducting oxide thin film by X-ray reflectivity and grazing incidence X-ray fluorescence combined analysis. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 135, 22-28.	1.5	16

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109	X-ray fluorescence spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1999, 14, 1773-1799.	1.6	15
110	Parameter study of self-absorption effects in Total Reflection X-ray Fluorescence—X-ray Absorption Near Edge Structure analysis of arsenic. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2008, 63, 1496-1502.	1.5	15
111	EDXRF analysis of suspended particulate matter (SPM) from residential and industrial areas in Cairo, Egypt. <i>X-Ray Spectrometry</i> , 2018, 47, 223-230.	0.9	15
112	Three-Year Long Source Apportionment Study of Airborne Particles in Ulaanbaatar Using X-Ray Fluorescence and Positive Matrix Factorization. <i>Aerosol and Air Quality Research</i> , 2019, 19, 1056-1067.	0.9	15
113	Energy-dispersive measurement and comparison of different spectra from diffraction x-ray tubes. <i>X-Ray Spectrometry</i> , 1995, 24, 157-162.	0.9	14
114	Comparison of conventional and total reflection excitation geometry for fluorescence X-ray absorption spectroscopy on droplet samples. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2003, 58, 2239-2244.	1.5	14
115	Atomic spectrometry update. X-ray fluorescence spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2003, 18, 1297.	1.6	14
116	Study of the deterioration of sandstone due to acid rain and humid SO <sub>2</sub> gas. <i>X-Ray Spectrometry</i> , 2004, 33, 342-348.	0.9	14
117	A new spectrometer for grazing incidence X-ray fluorescence for the characterization of Arsenic implants and Hf based high-k layers. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2010, 65, 429-433.	1.5	14
118	Considerations on the ideal sample shape for Total Reflection X-ray Fluorescence Analysis. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2011, 66, 815-821.	1.5	14
119	Increased zinc accumulation in mineralized osteosarcoma tissue measured by confocal synchrotron radiation micro X-ray fluorescence analysis. <i>X-Ray Spectrometry</i> , 2017, 46, 56-62.	0.9	14
120	Aerosol particle chemical characteristics measured from aircraft in the lower troposphere during ACE-2. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 52, 185.	0.8	13
121	Production of the ideal sample shape for Total Reflection X-ray Fluorescence analysis. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2012, 77, 31-34.	1.5	13
122	Nanoliter deposition unit for pipetting droplets of small volumes for Total Reflection X-ray Fluorescence applications. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2013, 82, 71-75.	1.5	13
123	Determination of phosphorus and other elements in atmospheric aerosols using synchrotron totalâ€reflection Xâ€ray fluorescence. <i>X-Ray Spectrometry</i> , 2013, 42, 368-373.	0.9	13
124	Atomic layer deposition to prevent metal transfer from implants: An X-ray fluorescence study. <i>Applied Surface Science</i> , 2015, 359, 215-220.	3.1	13
125	A new experimental setup for time- and laterally-resolved X-ray absorption fine structure spectroscopy in a â€single shotâ€™. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 239-246.	1.6	13
126	Total reflection X-ray fluorescence analysis of elemental composition of herbal infusions and teas. <i>Journal of the Science of Food and Agriculture</i> , 2020, 100, 4226-4236.	1.7	13

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127	A multifunctional vacuum chamber for total reflection X-ray fluorescence analysis in various excitation and detection geometries for detection limits in the femtogram range. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1993, 327, 594-599.	0.7	12
128	Study of annealing-induced interdiffusion in In <sub>2</sub> O <sub>3</sub> /Ag/In <sub>2</sub> O <sub>3</sub> structures by a combined X-ray reflectivity and grazing incidence X-ray fluorescence analysis. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015, 113, 132-137.	1.5	12
129	µXRF Elemental Mapping of Bioresorbable Magnesium-Based Implants in Bone. <i>Materials</i> , 2016, 9, 811.	1.3	12
130	Fast and direct screening of copper in micro-volumes of distilled alcoholic beverages by high-resolution continuum source graphite furnace atomic absorption spectrometry. <i>Food Chemistry</i> , 2016, 213, 799-805.	4.2	12
131	Synchrotron radiation micro X-ray fluorescence spectroscopy of thin structures in bone samples: comparison of confocal and color X-ray camera setups. <i>Journal of Synchrotron Radiation</i> , 2017, 24, 307-311.	1.0	12
132	Recent Developments and Results in Total Reflection X-ray Fluorescence Analysis. <i>Advances in X-ray Analysis</i> , 1990, 34, 1-12.	0.0	11
133	Principles and Development of Total Reflection X-Ray Fluorescence Analysis. <i>Analytical Sciences</i> , 1995, 11, 471-475.	0.8	11
134	Detection of transmutional elements in copper by means of total reflection x-ray fluorescence spectrometry using synchrotron radiation. <i>X-Ray Spectrometry</i> , 1995, 24, 253-254.	0.9	11
135	Atomic Spectrometry Update—X-ray Fluorescence Spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1998, 13, 209R-232R.	1.6	11
136	Synchrotron radiation-induced TXRF of reactor steel samples. <i>X-Ray Spectrometry</i> , 2001, 30, 267-272.	0.9	11
137	Radiation imaging with optically read out GEM-based detectors. <i>Journal of Instrumentation</i> , 2018, 13, T02006-T02006.	0.5	11
138	Synchrotron radiation-excited glancing incidence xrf for depth profile and thin-film analysis of light elements. <i>X-Ray Spectrometry</i> , 1999, 28, 292-296.	0.9	10
139	Synchrotron radiation induced total reflection X-ray fluorescence of low Z elements on Si wafer surfaces at SSRL—comparison of excitation geometries and conditions. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2001, 56, 2085-2094.	1.5	10
140	Comparison of SiLi detector and silicon drift detector for the determination of low Z elements in total reflection X-ray fluorescence. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2004, 59, 1211-1213.	1.5	10
141	Elemental mapping in slices of human brain by SR-µXRF. <i>Powder Diffraction</i> , 2005, 20, 158-160.	0.4	10
142	Study of dinuclear Rh(II) complexes of phenylalanine derivatives as potential anticancer agents by using X-ray fluorescence and X-ray absorption. <i>Microchemical Journal</i> , 2015, 120, 51-57.	2.3	10
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