Kouichi Tsuji

List of Publications by Year
in descending order

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89	1,212	430874	477307
papers	citations	18 h-index	29 g-index

94	94	94	608
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Depth Elemental Imaging of Forensic Samples by Confocal micro-XRF Method. Analytical Chemistry, 2011, 83, 3477-3483.	6.5	77
2	Nondestructive elemental depth profiling of Japanese lacquerware â€˜Tamamushiâ€nuriâ€™ by confocal 3Dâ€XRF analysis in comparison with micro GEâ€XRF. X-Ray Spectrometry, 2009, 38, 446-450.	1.4	52
3	Development of confocal micro X-ray fluorescence instrument using two X-ray beams. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2007, 62, 549-553.	2.9	50
4	Takeoff angleâ€dependent xâ€ray fluorescence of layered materials using a glancing incident xâ€ray beam. Journal of Applied Physics, 1994, 75, 7189-7194.	2.5	46
5	Development of confocal 3D micro-XRF spectrometer with dual Crï£¿Mo excitation. X-Ray Spectrometry, 2007, 36, 145-149.	1.4	46
6	New developments of X-ray fluorescence imaging techniques in laboratory. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2015, 113, 43-53.	2.9	44
7	X-ray Spectrometry. Analytical Chemistry, 2012, 84, 636-668.	6.5	42
8	Development of a new confocal 3D-XRF instrument with an X-ray tube. Journal of Analytical Atomic Spectrometry, 2011, 26, 305-309.	3.0	41
9	Development of a highâ€resolution confocal microâ€XRF instrument equipped with a vacuum chamber. X-Ray Spectrometry, 2013, 42, 374-379.	1.4	39
10	Grazing Exit Electron Probe Microanalysis for Surface and Particle Analysis. Analytical Chemistry, 1999, 71, 2497-2501.	6.5	35
11	Development of laboratory confocal 3D-XRF spectrometer and nondestructive depth profiling. Journal of Analytical Atomic Spectrometry, 2010, 25, 562.	3.0	33
12	Application of Confocal 3D Micro-XRF for Solid/Liquid Interface Analysis. Analytical Sciences, 2008, 24, 99-103.	1.6	32
13	Take-off angle-dependent X-ray fluorescence of thin films at glancing incidence. Spectrochimica Acta, Part B: Atomic Spectroscopy, 1993, 48, 1471-1480.	2.9	29
14	Depthâ€selective elemental imaging of microSD card by confocal micro XRF analysis. X-Ray Spectrometry, 2013, 42, 123-127.	1.4	29
15	Enhancement of electron-induced X-ray intensity for single particles under grazing-exit conditions. Spectrochimica Acta, Part B: Atomic Spectroscopy, 1999, 54, 1243-1251.	2.9	23
16	Feasibility study of three-dimensional XRF spectrometry using Î¼-X-ray beams under grazing-exit conditions. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2003, 58, 2233-2238.	2.9	23
17	X-ray Spectrometry. Analytical Chemistry, 2008, 80, 4421-4454.	6.5	23
18	Wavelength Dispersive X-ray Fluorescence Imaging. Analytical Chemistry, 2011, 83, 6389-6394.	6.5	19

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19	Development of Confocal 3D Micro XRF Spectrometer and Its Application to Rice Grain. Bunseki Kagaku, 2006, 55, 427-432.	0.2	18
20	X-ray fluorescence imaging with polycapillary X-ray optics. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2010, 65, 441-444.	2.9	18
21	X-ray Spectrometry. Analytical Chemistry, 2010, 82, 4950-4987.	6.5	18
22	Multi-Modal Compositional Analysis of Layered Paint Chips of Automobiles by the Combined Application of ATR-FTIR Imaging, Raman Microspectrometry, and SEM/EDX. Molecules, 2019, 24, 1381.	3.8	17
23	Development of a transportable Âµâ€XRF spectrometer with polycapillary half lens. X-Ray Spectrometry, 2010, 39, 78-82.	1.4	16
24	Determination of trace elements in Italian wines by means of total reflection X-ray fluorescence spectroscopy. International Journal of Environmental Analytical Chemistry, 2015, 95, 1208-1218.	3.3	16
25	Grazing Exit Micro X-ray Fluorescence Analysis of a Hazardous Metal Attached to a Plant Leaf Surface Using an X-ray Absorber Method. Analytical Chemistry, 2009, 81, 3356-3364.	6.5	15
26	Confocal microâ€XRF analysis of light elements with Rh Xâ€ray tube and its application for painted steel sheet. X-Ray Spectrometry, 2015, 44, 186-189.	1.4	15
27	Development of glancing-incidence and glancing-take-off X-ray fluorescence apparatus for surface and thin-film analyses. Spectrochimica Acta, Part B: Atomic Spectroscopy, 1997, 52, 841-846.	2.9	14
28	Grazing-Exit Particle-Induced X-ray Emission Analysis with Extremely Low Background. Analytical Chemistry, 1999, 71, 5033-5036.	6.5	14
29	Evaluation of fullâ€field energy dispersive Xâ€ray fluorescence imaging apparatus and super resolution analysis with compressed sensing technique. X-Ray Spectrometry, 2019, 48, 644-650.	1.4	14
30	Elemental X-ray images obtained by grazing-exit electron probe microanalysis (GE-EPMA). Journal of Analytical Atomic Spectrometry, 1999, 14, 1711-1713.	3.0	13
31	Improvement of spatial resolution of Âµâ€XRF by using a thin metal filter. X-Ray Spectrometry, 2008, 37, 642-645.	1.4	13
32	X-ray Energy Dependence of the Properties of the Focused Beams Produced by Polycapillary X-ray Lens. Analytical Sciences, 2008, 24, 843-846.	1.6	13
33	Grazing-Exit and Micro X-ray Fluorescence Analyses for Chemical Microchips. Analytical Sciences, 2005, 21, 799-803.	1.6	12
34	Time-resolved x-ray fluorescence for monitoring the intake of mineral nutrients in living plants. X-Ray Spectrometry, 2007, 36, 324-327.	1.4	12
35	TXRF intensity dependence on position of dried residue on sample carrier and TXRF determination of halogen in liquid samples. X-Ray Spectrometry, 2016, 45, 197-201.	1.4	12
36	Visualizing a black cat drawing hidden inside the painting by confocal micro-XRF analysis. Microchemical Journal, 2016, 126, 496-500.	4.5	12

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37	Detection Limits of Grazing-Exit EPMA for Particle Analysis. Mikrochimica Acta, 2000, 132, 357-360.	5.0	11
38	Grazing-exit electron probe X-ray microanalysis (GE-EPMA): Fundamental and applications. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2005, 60, 1381-1391.	2.9	11
39	Micro X-ray fluorescence using a pinhole aperture in quasi-contact mode. Journal of Analytical Atomic Spectrometry, 2002, 17, 1405-1407.	3.0	10
40	Grazing-exit electron probe X-ray microanalysis of ultra-thin films and single particles with high-angle resolution. Analytica Chimica Acta, 2002, 455, 245-252.	5.4	10
41	X-ray fluorescence analysis of soft materials using needle-type collimators enabling greater tolerance in analysis depth. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2006, 61, 460-464.	2.9	10
42	Glancing-incidence and glancing-takeoff x-ray fluorescence analysis of Ni-GaAs interface reactions. X-Ray Spectrometry, 2000, 29, 155-160.	1.4	9
43	Comparison of grazing-exit particle-induced X-ray emission with other related methods. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2000, 55, 1009-1016.	2.9	9
44	Micro total reflection x-ray fluorescence (Âμ-TXRF) analysis. X-Ray Spectrometry, 2006, 35, 375-378.	1.4	9
45	Fundamental characteristics of polycapillary xâ€ray optics combined with glass conical pinhole for micro xâ€ray fluorescence spectrometry. X-Ray Spectrometry, 2009, 38, 258-262.	1.4	9
46	X-Ray Elemental Imaging in Depth by Combination of FE-SEM-EDS and Glow Discharge Sputtering. ISIJ International, 2013, 53, 1939-1942.	1.4	9
47	Numerical approach for depth profiling with GE-XRF. X-Ray Spectrometry, 2006, 35, 305-311.	1.4	8
48	Wavelength dispersive X-ray fluorescence imaging using a high-sensitivity imaging sensor. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2013, 83-84, 56-60.	2.9	8
49	Total reflection X-ray fluorescence analysis with chemical microchip. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2006, 61, 389-392.	2.9	7
50	Preconcentration of environmental waters by agar for XRF analysis. Powder Diffraction, 2009, 24, 135-139.	0.2	7
51	Fundamental characteristics of hybrid X-ray focusing optics for micro X-ray fluorescence analysis. Nuclear Instruments & Methods in Physics Research B, 2013, 309, 260-263.	1.4	7
52	Underfilm corrosion of steel sheets observed by confocal 3D-XRF technique. Powder Diffraction, 2014, 29, 151-154.	0.2	7
53	Total reflection X-ray fluorescence analysis with a glass substrate treated with a He atmospheric pressure plasma jet. Journal of Analytical Atomic Spectrometry, 2021, 36, 1873-1878.	3.0	7
54	Localized thin-film analysis by grazing-exit electron probe microanalysis. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2002, 57, 897-906.	2.9	6

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55	Characterization of x-rays emerging from between reflector and sample carrier in reflector-assisted TXRF analysis. X-Ray Spectrometry, 2004, 33, 281-284.	1.4	6
56	X-Ray Optics. , 2004, , 63-131.		6
57	New Computerisation Methods. , 2004, , 435-485.		6
58	Development of a compact XRF probe using a ring-type secondary target. X-Ray Spectrometry, 2008, 37, 503-507.	1.4	6
59	GEâ€MXRF analysis of multilayer films. X-Ray Spectrometry, 2008, 37, 625-628.	1.4	6
60	Enhancement of XRF intensity by using Au-coated glass monocapillary. Powder Diffraction, 2011, 26, 163-167.	0.2	6
61	Elemental Depth Analysis of Corroded Paint-Coated Steel by Confocal Micro-XRF Method. ISIJ International, 2013, 53, 1953-1957.	1.4	6
62	Secondary excitation process for quantitative confocal 3D-XRF analysis. Powder Diffraction, 2015, 30, 109-112.	0.2	6
63	Total reflection X-ray fluorescence analysis of aerosol particles with direct dissolution of the collection filter on a substrate. Journal of Analytical Atomic Spectrometry, 2021, 36, 570-575.	3.0	6
64	Direct digestion of human scalp hair on the substrate used for total reflection X-ray fluorescence analysis. Analytical Sciences, 2022, 38, 821-824.	1.6	6
65	Preliminary experiment of total reflection x-ray fluorescence using two glancing x-ray beams excitation. Review of Scientific Instruments, 1999, 70, 1621-1623.	1.3	5
66	In-situ Observation of the Corrosion Process of Steel Sheets in a Solution by a Confocal Micro XRF Technique. Bunseki Kagaku, 2017, 66, 713-718.	0.2	5
67	New Applications. , 2004, , 487-592.		4
68	Micro and imaging x-ray analysis by using polycapillary x-ray optics. Proceedings of SPIE, 2008, , .	0.8	4
69	X-Ray Sources. , 2004, , 13-62.		3
70	X-Ray Fluorescence Analysis of Micro-Volume of Sample Inside by Using Needle-Type Collimators. Bunseki Kagaku, 2006, 55, 681-687.	0.2	3
71	Proposal of X-Ray Fluorescence Analysis for Solid-Liquid Interfaces and Monitoring Chemical Plating Processes. Bunseki Kagaku, 2007, 56, 499-504.	0.2	3
72	Development of X-ray 2D dispersive device for WD-XRF imaging spectrometer. Powder Diffraction, 2012, 27, 71-74.	0.2	3

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73	Depth Elemental Imaging during Corrosion of Hot-Dip Galvanized Steel Sheet by Confocal Micro XRF Analysis. Analytical Sciences, 2020, 36, 55-59.	1.6	3
74	Improvement of Detection Limits for Particle Contamination by Confocal Configuration in X-Ray Fluorescence Microscope. Analytical Sciences, 2021, 37, 1447-1451.	1.6	3
75	Fundamental research for a new confocal line Xâ€ray spectrometer. X-Ray Spectrometry, 2021, 50, 224-230.	1.4	3
76	X-Ray Detectors. , 2004, , 133-275.		2
77	Study of the Sampling Method of Blood Samples for Total-Reflection X-ray Fluorescence. Bunseki Kagaku, 2005, 54, 749-753.	0.2	2
78	Preliminary experiment of X-ray diffraction imaging. Nuclear Instruments & Methods in Physics Research B, 2015, 355, 272-275.	1.4	2
79	Calculation of Electron-Induced X-ray Intensities under Grazing Exit Conditions. E-Journal of Surface Science and Nanotechnology, 2003, 1, 111-115.	0.4	2
80	Special Configurations. , 2004, , 277-433.		1
81	Sample Surface and Near-surface Analysis by Confocal 3D XRF Spectrometer. Hyomen Kagaku, 2010, 31, 331-336.	0.0	1
82	SEM Observation of Inclusions in Steel Samples Using Fast Cleaning and Modification of the Surface by Glow Discharge. ISIJ International, 2013, 53, 1936-1938.	1.4	1
83	Development of Confocal 3D X-ray Fluorescence Instrument and Its Applications to Micro Depth Profiling. Hyomen Kagaku, 2007, 28, 447-452.	0.0	1
84	Theoretical characterization of reflector-assisted TXRF analysis. E-Journal of Surface Science and Nanotechnology, 2006, 4, 579-583.	0.4	0
85	Microstructural Characterization of Electroplated Copper Films on Copper-Alloy Seed Layer. Bunseki Kagaku, 2007, 56, 465-470.	0.2	0
86	In situ Observation of Corrosion Process of Steel Sheet under Stress Load by Confocal Micro X-ray Fluorescence Imaging. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2019, 105, 975-980.	0.4	0
87	3D Elemental Mapping in Laboratory by Confocal 3D X-ray Fluorescence Analytical Instrument. Materia Japan, 2007, 46, 833-833.	0.1	0
88	Effects of an X-ray absorber in Grazing Exit Micro X-ray Fluorescence Analysis of Arsenic Attached to an aqueous leaf of Cammelia hiemalis. E-Journal of Surface Science and Nanotechnology, 2009, 7, 841-846.	0.4	0
89	Scanning and Full Field X-Ray Fluorescence Imaging with Laboratory X-ray Source. Journal of Surface Analysis (Online), 2019, 26, 116-117.	0.1	0