Jun Kawai

List of Publications by Citations

93 papers	749 citations	14 h-index	20 g-index
96 ext. papers	775 ext. citations	1.3 avg, IF	3.82 L-index

#	Paper	IF	Citations
93	Chemical shift and lineshape of high-resolution Ni Kβ x-ray fluorescence spectra. *X-Ray Spectrometry*, **1999**, 28, 470-477	0.9	35
92	Inelastic Mean Free Path of Photoelectrons in Ag Determined by Total Reflection X-Ray Photoelectron Spectroscopy.. *Analytical Sciences*, **1997**, 13, 797-801	1.7	28
91	Photoelectron spectra enhanced by x-ray total reflection and diffraction from periodic multilayer. *Applied Physics Letters*, **1996**, 68, 1921-1923	3.4	26
90	Portable x-ray fluorescence spectrometer with a pyroelectric x-ray generator. *X-Ray Spectrometry*, **2005**, 34, 225-229	0.9	25
89	X-Ray Absorption and Photoelectron Spectroscopies Using Total Reflection X-Rays.. *Analytical Sciences*, **1995**, 11, 519-524	1.7	25
88	Extended X-Ray Absorption Fine Structure (EXAFS) in X-ray Fluorescence Spectra. *Journal of the Physical Society of Japan*, **1997**, 66, 3337-3340	1.5	24
87	Correlation between chemical shift of Si Kβ lines and the effective charge on the Si atom and its application in the Fe-Si binary system. *Physical Review B*, **2004**, 69,	3.3	24
86	Identification of steel by X-ray fluorescence analysis with a pyroelectric X-ray generator. *Analytical and Bioanalytical Chemistry*, **2004**, 379, 735-8	4.4	23
85	Identification of glass and ceramics by X-ray fluorescence analysis with a pyroelectric X-ray generator. *Analytical Sciences*, **2004**, 20, 1211-5	1.7	22
84	Atomic-Resolution X-Ray Fluorescence Holography of Zn (0.02 wt%) in a GaAs Wafer.. *Analytical Sciences*, **1998**, 14, 987-990	1.7	22
83	Effective charge on silicon atom in the metal silicides Mg2Si and CaSi. *Physical Review B*, **2005**, 71,	3.3	17
82	Identification of paint and leather by X-ray fluorescence spectrometry with pyroelectric crystal. *Bunseki Kagaku*, **2004**, 53, 753-755	0.2	16
81	Portable X-ray fluorescence spectrometer with an electric battery. *Bunseki Kagaku*, **2004**, 53, 183-186	0.2	15
80	Radiative auger effect and extended X-ray emission fine structure (EXEFS). *Analytical Sciences*, **2005**, 21, 733-5	1.7	14
79	Strong X-ray emission due to electrification. *Nuclear Instruments & Methods in Physics Research B*, **1996**, 109-110, 206-208	1.2	14
78	Ligand Determination of a Copper Complex by Cu 2p X-Ray Photoelectron Spectroscopy.. *Analytical Sciences*, **1994**, 10, 853-857	1.7	14
77	Phosphate Adsorption Site on Zirconium Ion Modified MgAl-layered Double Hydroxides. *Topics in Catalysis*, **2009**, 52, 714-723	2.3	13

76	Elemental Analysis of Leaching Solution from Soils in the Mountain District of Shikoku with a Handy-type Liquid Electrode Plasma Atomic Emission Spectrometer. *Bunseki Kagaku*, **2010**, 59, 1125-1131	0.2	13
75	An X-ray fluorescence spectrometer with a pyroelectric X-ray generator and a secondary target for the determination of Cr in steel. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2005**, 60, 89-93	3.1	13
74	X-ray fluorescence analysis with a pyroelectric x-ray generator. *X-Ray Spectrometry*, **2005**, 34, 521-524	0.9	13
73	Theory on Extended X-Ray Emission Spectra. *Journal of the Physical Society of Japan*, **1999**, 68, 4032-4036	1.5	13
72	Artificial peaks in energy dispersive X-ray spectra: sum peaks, escape peaks, and diffraction peaks. *X-Ray Spectrometry*, **2017**, 46, 5-11	0.9	12
71	EXTENDED X-RAY EMISSION FINE STRUCTURE (EXEFS) AND X-RAY ABSORPTION NEAR EDGE STRUCTURE (XANES) OF SOIL SAMPLES. *Instrumentation Science and Technology*, **2001**, 19, 497-507		12
70	First-Principles Study on Stability and Electronic Structures of Pt-Rh Bimetallic Nanoparticles. *Materials Transactions*, **2010**, 51, 321-324	1.3	11
69	X-Ray Fluorescence Holography of SrTiO3 Compared with X-Ray Photoelectron Holography.. *Analytical Sciences*, **1998**, 14, 903-907	1.7	11
68	Profile changes of X-ray spectra and their interpretation using the molecular-orbital method(Review).. *Bunseki Kagaku*, **1995**, 44, 251-269	0.2	11
67	Intensity correction of WD-XRF spectra from 2□to energy. *X-Ray Spectrometry*, **2013**, 42, 16-18	0.9	10
66	X-ray fluorescence analysis at mg l□ level with an X-ray source powered by a dry battery. *Journal of Analytical Atomic Spectrometry*, **2004**, 19, 1524-1528	3.7	10
65	Strong X-ray emission from electrified material. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **1995**, 50, L1-L4	3.1	10
64	Forensic analysis of arsenic poisoning in Japan by synchrotron radiation X-ray fluorescence. *X-Ray Spectrometry*, **2014**, 43, 2-12	0.9	9
63	Note: Portable rare-earth element analyzer using pyroelectric crystal. *Review of Scientific Instruments*, **2013**, 84, 126105	1.7	9
62	Trace elemental determination by portable total reflection X-ray fluorescence spectrometer with low wattage X-ray tube. *X-Ray Spectrometry*, **2013**, 42, 171-173	0.9	9
61	Application of a Portable Total Reflection X-Ray Fluorescence Spectrometer to a Trace Elemental Analysis of Wines. *Bunseki Kagaku*, **2009**, 58, 1041-1045	0.2	9
60	Handy waveguide TXRF spectrometer for nanogram sensitivity. *Powder Diffraction*, **2008**, 23, 146-149	1.8	9
59	Chemical effects in high-resolution nickel Kalpha X-ray fluorescence spectra. *Analytical Sciences*, **2005**, 21, 865-8	1.7	9

58	Pore-Size Dependence of the Acidic Property of Mesoporous Silica FSM-16. *Topics in Catalysis*, **2009**, 52, 657-663	2.3	8
57	X-ray tube spectral measurement method for quantitative analysis of X-ray fluorescence analysis. *X-Ray Spectrometry*, **2010**, 39, 328-331	0.9	8
56	X-ray Fluorescence Analysis of Rice and Rice Bran with a Dry Battery X-ray Generator. *Bunseki Kagaku*, **2005**, 54, 321-324	0.2	8
55	Strong X-ray emission from electrified insulators. *Analytical Sciences*, **2005**, 21, 877-80	1.7	8
54	MICROBEAM XANES AND X-RAY FLUORESCENCE ANALYSIS OF CADMIUM IN KIDNEY. *Instrumentation Science and Technology*, **2001**, 19, 541-546		8
53	Analysis of Trace Elements in Soft Drink, Environmental Water, and Leaching Solution of Toy by Using Portable Total Reflection X-Ray Fluorescence Spectrometer. *Bunseki Kagaku*, **2008**, 57, 135-139	0.2	7
52	Risk assessment of TiO2 photocatalyst by individual micrometer-size particle analysis with on-site combination of SEM-EDX and SR-XANES microscope. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2007**, 62, 677-681	3.1	7
51	A simple X-ray emitter. *Analytical Sciences*, **2005**, 21, 881-4	1.7	7
50	High spatial resolution extended x-ray emission fine structure (EXEFS) spectra of an electronic device measured by electron probe microanalysis (EPMA). *Surface and Interface Analysis*, **2001**, 31, 114-117	1.5	7
49	Magnesium K X-Ray Emission Spectra of Mg, MgO and Olivine [(Mg, Fe)2(SiO4)] by EPMA and XRF. *Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan*, **1999**, 85, 164-168	0.5	7
48	Easy, quick, and small area measurement of X-ray absorption spectra using an electron probe X-ray microanalyzer.. *Bunseki Kagaku*, **1999**, 48, 793-795	0.2	7
47	Convenient Method of X-Ray Absorption Spectroscopy Using EPMA. *Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan*, **1999**, 85, 353-361	0.5	7
46	Recording X-ray spectra with an audio digitizer. *X-Ray Spectrometry*, **2010**, 39, 318-320	0.9	6
45	New Developments in Chemical Wet Processes. X-Ray Traveling Waves.. *Hyomen Kagaku*, **2001**, 22, 397-403		6
44	Methods to distinguish rare-earth magnets using portable cathodoluminescence spectrometer. *Surface and Interface Analysis*, **2016**, 48, 1153-1156	1.5	5
43	Pyroelectric X-ray application to X-ray absorption and emission spectroscopies. *X-Ray Spectrometry*, **2012**, 41, 216-218	0.9	5
42	Analysis of Valence for Chromium in Soil and Plastic Samples Using Laboratory XAFS Spectrometer. *Bunseki Kagaku*, **2009**, 58, 321-325	0.2	5
41	Synchrotron radiation is not a blackbody but a graybody. *X-Ray Spectrometry*, **2007**, 36, 321-323	0.9	5

40	X-ray absorption spectral analysis with a 9 V battery X-ray generator. *Analytical Sciences*, **2005**, 21, 783-4	1.7	5
39	Scanning Electron Microscope-Cathodoluminescence Analysis of Rare-Earth Elements in Magnets. *Microscopy and Microanalysis*, **2016**, 22, 82-6	0.5	5
38	Variation of trace elements in snow during starting and ending of snowfall in Kyoto city measured by low power total reflection X-ray fluorescence spectrometry. *X-Ray Spectrometry*, **2018**, 47, 273-276	0.9	4
37	Similarity between blackbody and synchrotron radiation analyzed by Tsallis entropy. *X-Ray Spectrometry*, **2012**, 41, 125-127	0.9	4
36	X-ray absorption fine structure measurement with a 9V electric battery x-ray emitter. *Applied Physics Letters*, **2006**, 89, 134104	3.4	4
35	X-ray reflection from thin multilayers: symmetric patterns. *Surface and Interface Analysis*, **2003**, 35, 76-79	1.5	4
34	Calculation of B KV x-ray emission spectra of boron nitrides. *X-Ray Spectrometry*, **1999**, 28, 497-502	0.9	4
33	3D-printed compact XRF spectrometer. *International Journal of PIXE*, **2017**, 27, 87-92	0.1	3
32	Mechanical stress X-ray emission from crystal sugar. *X-Ray Spectrometry*, **2014**, 43, 367-369	0.9	3
31	EDXRF with an audio digitizer. *X-Ray Spectrometry*, **2011**, 40, 446-448	0.9	3
30	Multilayer nano-thickness measurement by a portable low-power Bremsstrahlung X-ray reflectometer. *Analytical Methods*, **2010**, 2, 1555	3.2	3
29	Terasawa-type small X-Ray Gas Tubes and its Application to Neutralizer for Static Electricity **2006**,		3
28	Total reflection x-ray photoelectron spectroscopy of a tantalumtitanium multilayer. *X-Ray Spectrometry*, **1999**, 28, 519-522	0.9	3
27	VERTICAL BEAM PIXE FOR IN SITU ANALYSIS OF LIQUIDS. *International Journal of PIXE*, **1994**, 04, 147-154	0.1	3
26	SEM Observation at High Magnification and EDX Analysis of Insulating Sample by Diluted Ionic Liquid. *Hyomen Kagaku*, **2011**, 32, 659-663		3
25	Relation between Sample Area and Accuracy of STM: What Causes the Difficulty in Quantitative Elemental Analysis?. *E-Journal of Surface Science and Nanotechnology*, **2020**, 18, 28-31	0.7	2
24	SEM-EDX Analysis of Insulator Specimen by Using Garment Antistatic Spray. *Bunseki Kagaku*, **2013**, 62, 155-158	0.2	2
23	Application of Pyroelectric Crystal A Safety X-ray Source. *Radioisotopes*, **2011**, 60, 249-263	0.1	2

22	Polarization and intensity of Compton scattering. *X-Ray Spectrometry*,	0.9	2
21	Fundamental Parameter Method for Energy Dispersive X-Ray Fluorescence and its Application to Stainless Steels as First Principles Calculation. *Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan*, **2019**, 105, 981-987	0.5	1
20	Low-power total reflection X-ray fluorescence spectrometer using diffractometer guide rail. *Powder Diffraction*, **2015**, 30, 36-39	1.8	1
19	Palm-top size X-ray microanalyzer using a pyroelectric focused electron beam with 100-micro-meter diameter. *Journal of Physics: Conference Series*, **2014**, 499, 012011	0.3	1
18	SEM-EDX Analysis of Insulator Specimens by Diluted Ionic Liquid Application to Volcanic Particles *Bunseki Kagaku*, **2012**, 61, 947-951	0.2	1
17	Gray-body approximation to continuous X-ray spectra from scanning electron microscope. *Surface and Interface Analysis*, **2008**, 40, 1719-1721	1.5	1
16	ANALYSIS OF MULTI-ELEMENT POWDERS AND SOLUTIONS OF METALS WITH A PYROELECTRIC X-RAY GENERATOR. *International Journal of PIXE*, **2005**, 15, 19-25	0.1	1
15	Analytical Chemistry represented by "super" and "ultra". Polar-angle dependence of the X-ray fluorescence intensity from a Pd single crystal.. *Bunseki Kagaku*, **2001**, 50, 405-410	0.2	1
14	X-Ray Wave Guide and its Possible Application to Surface Analysis;. *Journal of Surface Analysis (Online)*, **2002**, 9, 356-358	0.1	1
13	X-Ray Trace/Micro Analysis. *Shinku/Journal of the Vacuum Society of Japan*, **2000**, 43, 1022-1029		1
12	On the Fine Structures in X-Ray Fluorescence Spectra.. *Nihon Kessho Gakkaishi*, **2001**, 43, 185-188	0	1
11	Extrinsic and Intrinsic Contributions to Plasmon Peaks in Solids. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **2016**, 71, 91-93	1.4	1
10	Chemical shift and lineshape of high-resolution Ni K x-ray fluorescence spectra **1999**, 28, 470		1
9	Arsenic Analysis **2022**, 609-621		1
8	A Probable Improvement of Wavelength Dispersive X-Ray Fluorescence Spectrometer for Steel Making. *ISIJ International*, **2022**, 62, 867-870	1.7	1
7	Comments on Application of Laplace Transform to Electrochemistry by Toshiyuki Osakai. *Review of Polarography*, **2017**, 63, 41-43	0.2	
6	Elemental Analysis of Rare-earth Magnet Utilizing Cathodoluminescence. *Microscopy and Microanalysis*, **2015**, 21, 793-794	0.5	
5	Si PIN X-ray photon counter. *X-Ray Spectrometry*, **2011**, 40, 257-259	0.9	

4	X-ray Absorption Fine Structure Spectroscopy for Analytical Chemistry. *X-Ray Spectrometry*, **2008**, 37, 203-203	0.9
3	Numerical Simulation of Planar X-Ray Waveguides with Low-Z Cladding Layers. *Bunseki Kagaku*, **2006**, 55, 447-452	0.2
2	Fluorine K□x-ray fluorescence spectra of LuF3 and NaF using synchrotron radiation. *Surface and Interface Analysis*, **2005**, 37, 194-196	1.5
1	Hitoshi KAMADA (1919□2015). *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2016**, 126, 101-102	3.1