

Janos Kirz

List of Publications by Year in descending order

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64
papers

5,766
citations

147726
31
h-index

143943
57
g-index

64
all docs

64
docs citations

64
times ranked

3292
citing authors

#	ARTICLE	IF	CITATIONS
1	Extending the methodology of X-ray crystallography to allow imaging of micrometre-sized non-crystalline specimens. <i>Nature</i> , 1999, 400, 342-344.	13.7	1,741
2	Soft X-ray microscopes and their biological applications. <i>Quarterly Reviews of Biophysics</i> , 1995, 28, 33-130.	2.4	601
3	Biological imaging by soft x-ray diffraction microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 15343-15346.	3.3	506
4	Phase zone plates for x rays and the extreme uv. <i>Journal of the Optical Society of America</i> , 1974, 64, 301.	1.2	368
5	Data on Particles and Resonant States. <i>Reviews of Modern Physics</i> , 1965, 37, 633-651.	16.4	228
6	Data on Elementary Particles and Resonant States. <i>Reviews of Modern Physics</i> , 1964, 36, 977-1004.	16.4	201
7	Soft x-ray microscopes. <i>Review of Scientific Instruments</i> , 1985, 56, 1-13.	0.6	139
8	Soft X-Ray Diffraction Microscopy of a Frozen Hydrated Yeast Cell. <i>Physical Review Letters</i> , 2009, 103, 198101.	2.9	137
9	High-resolution x-ray diffraction microscopy of specifically labeled yeast cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 7235-7239.	3.3	121
10	X-ray spectromicroscopy with a zone plate generated microprobe. <i>Applied Physics Letters</i> , 1990, 56, 1841-1843.	1.5	119
11	Strange-Particle Production in $\pi^+\pi^-p$ Interactions from 1.5 to 4.2 BeVc. I. Three-and-More-Body Final States. <i>Physical Review</i> , 1967, 163, 1377-1429.	2.7	113
12	Reaction $\pi^+\pi^-\pi^+\pi^-p$ from 360 to 800 MeV. <i>Physical Review</i> , 1963, 130, 2481-2484.	2.7	112
13	Strange-Particle Production in $\pi^+\pi^-p$ Interactions from 1.5 to 4.2 BeVc. II. Two-Body Final States. <i>Physical Review</i> , 1967, 163, 1430-1440.	2.7	110
14	X-ray holographic microscopy using photoresists. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1990, 7, 1847.	0.8	109
15	New directions in X-ray microscopy. <i>Contemporary Physics</i> , 2011, 52, 293-318.	0.8	99
16	Analysis of the 1.0- to 1.4-BeV $\pi^+\pi^-p$ Enhancement. <i>Physical Review Letters</i> , 1964, 12, 621-625.	2.9	75
17	Taking X-Ray Diffraction to the Limit: Macromolecular Structures from Femtosecond X-Ray Pulses and Diffraction Microscopy of Cells with Synchrotron Radiation. <i>Annual Review of Biophysics and Biomolecular Structure</i> , 2004, 33, 157-176.	18.3	64
18	X-ray microscopy with synchrotron radiation. <i>Nature Structural Biology</i> , 1998, 5, 650-653.	9.7	50

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19	$\lambda=2S$ -Wave Scattering Length. Physical Review, 1962, 126, 763-765.	2.7	46
20	Incorrect support and missing center tolerances of phasing algorithms. Optics Express, 2010, 18, 26441.	1.7	44
21	Multipion Final States from $\pi\pi$ Interactions at 3.2 and 4.2 GeV/c. Physical Review, 1968, 165, 1491-1532.	2.7	42
22	Soft-X-Ray Microscopes. Physics Today, 1985, 38, 22-32.	0.3	42
23	Selective chemical mapping of coal microheterogeneity by scanning transmission x-ray microscopy. Energy & Fuels, 1994, 8, 151-154.	2.5	41
24	Specimen replication for electron microscopy using x rays and x-ray resist. Journal of Applied Physics, 1976, 47, 1192-1193.	1.1	40
25	X-Ray Microscopes. Scientific American, 1991, 264, 88-94.	1.0	37
26	Scanning photoelectron microscope with a zone plate generated microprobe. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1990, 291, 126-131.	0.7	36
27	MAPPING THE DISTRIBUTION OF PARTICULAR ATOMIC SPECIES. Annals of the New York Academy of Sciences, 1980, 342, 273-287.	1.8	35
28	Development of a second generation scanning photoemission microscope with a zone plate generated microprobe at the National Synchrotron Light Source. Review of Scientific Instruments, 1995, 66, 1416-1418.	0.6	34
29	Branching Ratios for Decays of the ρ^0 , A_2 , and $K^*(1400)$ Mesons. Physical Review Letters, 1965, 15, 325-329.	2.9	33
30	Further Evidence for a K^* Resonance Near 1400 MeV. Physical Review Letters, 1965, 14, 401-403.	2.9	32
31	COMPARATIVE ANALYSIS OF X-RAY EMISSION MICROSCOPES FOR BIOLOGICAL SPECIMENS. Annals of the New York Academy of Sciences, 1978, 306, 291-305.	1.8	31
32	K^* Resonance at 1280 MeV. Physical Review Letters, 1965, 14, 1074-1077.	2.9	29
33	Optimizing detector geometry for trace element mapping by X-ray fluorescence. Ultramicroscopy, 2015, 152, 44-56.	0.8	29
34	Production and Decay of ρ^0 and ω Mesons in the Reaction $\pi^+d \rightarrow (p)\pi^+\pi^0$ between 1.1 and 2.4 GeV/c. Physical Review D, 1970, 2, 2564-2588.	1.6	28
35	Decay Properties of the $A_2(1310)$ Meson. Physical Review Letters, 1967, 18, 100-104.	2.9	26
36	The scanning transmission microscope at the NSLS. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1990, 291, 54-59.	0.7	25

#	ARTICLE	IF	CITATIONS
37	Instrumentation developments in scanning soft x-ray microscopy at the NSLS (invited). Review of Scientific Instruments, 1995, 66, 1271-1275.	0.6	24
38	Development of a Cryo Scanning Transmission X-Ray Microscope at the NSLS. , 1998, , 35-44.		24
39	Analysis of the B Enhancement. Physical Review Letters, 1966, 16, 481-485.	2.9	22
40	Peripheral Production in the Single-Meson-Exchange Forbidden Reaction $\pi^+p \rightarrow K^+n$ at 2 to 4 GeV/c. Physical Review Letters, 1969, 22, 427-430.	2.9	22
41	Anti-contamination device for cryogenic soft X-ray diffraction microscopy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 638, 171-175.	0.7	19
42	π^+ Production in π^+n Interactions from Threshold to 2.4 GeV/c. Physical Review D, 1972, 6, 3059-3068.	1.6	17
43	FLASH microscopy. Nature Physics, 2006, 2, 799-800.	6.5	17
44	Low-Mass K^+ Systems Produced in π^+p Interactions Below 5 BeV/c. Physical Review Letters, 1966, 17, 1109-1112.	2.9	13
45	Strange-Particle Production in π^+n Interactions from 1.1 to 2.4 GeV/c. Physical Review D, 1970, 2, 506-517.	1.6	13
46	Scintillation counter for soft X-ray spectroscopy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1985, 236, 419-422.	0.7	11
47	A scanning photoelectron microscope (SPEM) at the NSLS. Physica Scripta, 1990, 41, 737-739.	1.2	11
48	Soft x-ray microscopy at the NSLS. Synchrotron Radiation News, 2003, 16, 11-15.	0.2	9
49	X-ray Microscopy with the NSLS Soft X-ray Undulator. Physica Scripta, 1990, T31, 12-17.	1.2	8
50	<title>Scanning transmission soft x-ray microscopy at beamline X-1A at the NSLS: advances in instrumentation and selected applications</title>. , 2001, , .		6
51	X-ray microscopy. Synchrotron Radiation News, 1991, 4, 17-22.	0.2	5
52	<title>Chemical state mapping on material surfaces with the X1A second-generation scanning photoemission microscope (X1A SPEM-II)</title>. , 1995, 2516, 150.		4
53	<title>Scanning transmission x-ray microscope at the NSLS: from XANES to cryo</title>. , 1995, , .		4
54	Coherent soft x-rays in high resolution imaging. AIP Conference Proceedings, 1984, , .	0.3	3

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55	Extending the methodology of X-ray crystallography to non-crystalline specimens. AIP Conference Proceedings, 2000, , .	0.3	3
56	Soft X-ray microscopy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1986, 246, 695-697.	0.7	2
57	Applications of the Xia Scanning Photoemission Spectromicroscope for Element Identification on Material Surfaces. Materials Research Society Symposia Proceedings, 1994, 375, 303.	0.1	2
58	Ê Polarization in Ê from 1.1 to 2.4 GeV/c. Physical Review D, 1973, 7, 3546-3548.	1.6	1
59	Transmission measurements of soft X-ray absorption fine structure in solids by a new scintillation technique. Physics Letters, Section A: General, Atomic and Solid State Physics, 1985, 113, 283-288.	0.9	1
60	Extending the methodology of X-ray crystallography to allow X-ray microscopy without X-ray optics. AIP Conference Proceedings, 2000, , .	0.3	1
61	X-ray Microscopy and Microtomography. Synchrotron Radiation News, 2013, 26, 2-3.	0.2	1
62	Zoneplates and their applications in soft x-ray imaging. AIP Conference Proceedings, 1984, , .	0.3	0
63	Coherence Experiments at the ALS. Synchrotron Radiation News, 2008, 21, 25-29.	0.2	0
64	Second-generation scanning photoemission microscope at the National Synchrotron Light Source. Proceedings Annual Meeting Electron Microscopy Society of America, 1993, 51, 650-651.	0.0	0