Matthias Frank

List of Publications by Year
in descending order

162 papers	10,641 citations	66343 42 h-index	32842 100 g-index
169 all docs	169 docs citations	169 times ranked	7749 citing authors

#	Article	IF	Citations
1	Co-flow injection for serial crystallography at X-ray free-electron lasers. Journal of Applied Crystallography, 2022, 55, 1-13.	4.5	12
2	Domestic Dogs as Sentinels for West Nile Virus but not Aedes-borne Flaviviruses, Mexico. Emerging Infectious Diseases, 2022, 28, 1071-1074.	4.3	9
3	The Eco-Bio-Social Factors That Modulate Aedes aegypti Abundance in South Texas Border Communities. Insects, 2021, 12, 183.	2.2	9
4	Observation of substrate diffusion and ligand binding in enzyme crystals using high-repetition-rate mix-and-inject serial crystallography. IUCrJ, 2021, 8, 878-895.	2.2	44
5	Abiotic and Biotic Damage of Microalgae Generate Different Volatile Organic Compounds (VOCs) for Early Diagnosis of Algal Cultures for Biofuel Production. Metabolites, 2021, 11, 707.	2.9	1
6	Plug-and-play polymer microfluidic chips for hydrated, room temperature, fixed-target serial crystallography. Lab on A Chip, 2021, 21, 4831-4845.	6.0	7
7	Time-resolved serial femtosecond crystallography at the European XFEL. Nature Methods, 2020, 17, 73-78.	19.0	110
8	Metabolic Profiling of Volatile Organic Compounds (VOCs) Emitted by the Pathogens Francisella tularensis and Bacillus anthracis in Liquid Culture. Scientific Reports, 2020, 10, 9333.	3.3	16
9	Diffraction data from aerosolized Coliphage PR772 virus particles imaged with the Linac Coherent Light Source. Scientific Data, 2020, 7, 404.	5.3	6
10	Crystallization of ApoA1 and ApoE4 Nanolipoprotein Particles and Initial XFEL-Based Structural Studies. Crystals, 2020, 10, 886.	2.2	6
11	Cell fusing agent virus (Flavivirus) infection in Aedes aegypti in Texas: seasonality, comparison by trap type, and individual viral loads. Archives of Virology, 2020, 165, 1769-1776.	2.1	7
12	In cellulo crystallization of Trypanosoma brucei IMP dehydrogenase enables the identification of genuine co-factors. Nature Communications, 2020, 11, 620.	12.8	24
13	High Rate of Non-Human Feeding by Aedes aegypti Reduces Zika Virus Transmission in South Texas. Viruses, 2020, 12, 453.	3.3	23
14	A fixed-target platform for serial femtosecond crystallography in a hydrated environment. IUCrJ, 2020, 7, 30-41.	2.2	21
15	Cell cultures as inÂvitro models for breath research. , 2020, , 425-439.		0
16	Mosquito-Borne Viruses and Insect-Specific Viruses Revealed in Field-Collected Mosquitoes by a Monitoring Tool Adapted from a Microbial Detection Array. Applied and Environmental Microbiology, 2019, 85, .	3.1	11
17	Detecting opioid metabolites in exhaled breath condensate (EBC). Journal of Breath Research, 2019, 13, 046014.	3.0	10
18	Membrane protein megahertz crystallography at the European XFEL. Nature Communications, 2019, 10, 5021.	12.8	47

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19	Chemical Profiling of Volatile Organic Compounds in the Headspace of Algal Cultures as Early Biomarkers of Algal Pond Crashes. Scientific Reports, 2019, 9, 13866.	3.3	30
20	Surveillance of Aedes aegypti indoors and outdoors using Autocidal Gravid Ovitraps in South Texas during local transmission of Zika virus, 2016 to 2018. Acta Tropica, 2019, 192, 129-137.	2.0	29
21	X-ray Emission Spectroscopy at X-ray Free Electron Lasers: Limits to Observation of the Classical Spectroscopic Response for Electronic Structure Analysis. Journal of Physical Chemistry Letters, 2019, 10, 441-446.	4.6	8
22	Structure-factor amplitude reconstruction from serial femtosecond crystallography of two-dimensional membrane-protein crystals. IUCrJ, 2019, 6, 34-45.	2.2	1
23	A new 7Be AMS capability established at CAMS and the potential for large datasets. Nuclear Instruments & Methods in Physics Research B, 2018, 414, 126-132.	1.4	5
24	Megahertz serial crystallography. Nature Communications, 2018, 9, 4025.	12.8	147
25	Femtosecond X-ray coherent diffraction of aligned amyloid fibrils on low background graphene. Nature Communications, 2018, 9, 1836.	12.8	34
26	Enzyme intermediates captured â€œon the flyâ€•by mix-and-inject serial crystallography. BMC Biology, 2018, 16, 59.	3.8	117
27	Resolution extension by image summing in serial femtosecond crystallography of two-dimensional membrane-protein crystals. IUCrJ, 2018, 5, 103-117.	2.2	8
28	Structural enzymology using X-ray free electron lasers. Structural Dynamics, 2017, 4, 044003.	2.3	92
29	Analysis of XFEL serial diffraction data from individual crystalline fibrils. IUCrJ, 2017, 4, 795-811.	2.2	16
30	Lipidic cubic phase injector is a viable crystal delivery system for time-resolved serial crystallography. Nature Communications, 2016, 7, 12314.	12.8	71
31	Single-shot diffraction data from the Mimivirus particle using an X-ray free-electron laser. Scientific Data, 2016, 3, 160060.	5.3	18
32	Femtosecond structural dynamics drives the trans/cis isomerization in photoactive yellow protein. Science, 2016, 352, 725-729.	12.6	348
33	Low-Zpolymer sample supports for fixed-target serial femtosecond X-ray crystallography. Journal of Applied Crystallography, 2015, 48, 1072-1079.	4.5	32
34	Structure and Function of REP34 Implicates Carboxypeptidase Activity in Francisella tularensis Host Cell Invasion. Journal of Biological Chemistry, 2014, 289, 30668-30679.	3.4	5
35	Femtosecond X-ray diffraction from two-dimensional protein crystals. IUCrJ, 2014, 1, 95-100.	2.2	78
36	Time-resolved serial crystallography captures high-resolution intermediates of photoactive yellow protein. Science, 2014, 346, 1242-1246.	12.6	418

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37	Observation of charmonium pairs produced exclusively in pp collisions. Journal of Physics G: Nuclear and Particle Physics, 2014, 41, 115002.	3.6	14
38	7 Ã... resolution in protein two-dimensional-crystal X-ray diffraction at Linac Coherent Light Source. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130500.	4.0	32
39	Visualizing a protein quake with time-resolved X-ray scattering at a free-electron laser. Nature Methods, 2014, 11, 923-926.	19.0	173
40	Serial time-resolved crystallography of photosystem II using a femtosecond X-ray laser. Nature, 2014, 513, 261-265.	27.8	403
41	Enabling membrane protein structure and dynamics with X-ray free electron lasers. Current Opinion in Structural Biology, 2014, 27, 69-78.	5.7	21
42	Fixed-target protein serial microcrystallography with an x-ray free electron laser. Scientific Reports, 2014, 4, 6026.	3.3	169
43	Structure of a photosynthetic reaction centre determined by serial femtosecond crystallography. Nature Communications, 2013, 4, 2911.	12.8	74
44	Natively Inhibited Trypanosoma brucei Cathepsin B Structure Determined by Using an X-ray Laser. Science, 2013, 339, 227-230.	12.6	393
45	Sensing the wavefront of x-ray free-electron lasers using aerosol spheres. Optics Express, 2013, 21, 12385.	3.4	28
46	Toward unsupervised single-shot diffractive imaging of heterogeneous particles using X-ray free-electron lasers. Optics Express, 2013, 21, 28729.	3.4	20
47	Mesoscale morphology of airborne coreâ€“shell nanoparticle clusters: x-ray laser coherent diffraction imaging. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 164033.	1.5	12
48	Summary of the first neutron image data collected at the National Ignition Facility. EPJ Web of Conferences, 2013, 59, 13017.	0.3	6
49	Comparing neutron and X-ray images from NIF implosions. EPJ Web of Conferences, 2013, 59, 04002.	0.3	2
50	The neutron imaging system fielded at the National Ignition Facility. EPJ Web of Conferences, 2013, 59, 13016.	0.3	1
51	First downscattered neutron images from Inertial Confinement Fusion experiments at the National Ignition Facility. EPJ Web of Conferences, 2013, 59, 13018.	0.3	7
52	Cryogenic thermonuclear fuel implosions on the National Ignition Facility. Physics of Plasmas, 2012, 19, .	1.9	95
53	Femtosecond free-electron laser x-ray diffraction data sets for algorithm development. Optics Express, 2012, 20, 4149.	3.4	56
54	Noise-robust coherent diffractive imaging with a single diffraction pattern. Optics Express, 2012, 20, 16650.	3.4	73

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55	Time-resolved protein nanocrystallography using an X-ray free-electron laser. Optics Express, 2012, 20, 2706.	3.4	219
56	Femtosecond dark-field imaging with an X-ray free electron laser. Optics Express, 2012, 20, 13501.	3.4	38
57	Ultrafast Transitions from Solid to Liquid and Plasma States of Graphite Induced by X-Ray Free-Electron Laser Pulses. Physical Review Letters, 2012, 108, 217402.	7.8	60
58	Fractal morphology, imaging and mass spectrometry of single aerosol particles in flight. Nature, 2012, 486, 513-517.	27.8	170
59	Single-particle structure determination by correlations of snapshot X-ray diffraction patterns. Nature Communications, 2012, 3, 1276.	12.8	76
60	In-plane rotation classification for coherent X-ray imaging of single biomolecules. Optics Express, 2011, 19, 11691.	3.4	1
61	Single particle imaging with soft x-rays at the Linac Coherent Light Source. , 2011, , .		12
62	Single mimivirus particles intercepted and imaged with an X-ray laser. Nature, 2011, 470, 78-81.	27.8	790
63	Femtosecond X-ray protein nanocrystallography. Nature, 2011, 470, 73-77.	27.8	1,771
64	Multipurpose modular experimental station for the DiProI beamline of Fermi@Elettra free electron laser. Review of Scientific Instruments, 2011, 82, 043711.	1.3	28
65	Single-Particle Aerosol Mass Spectrometry (SPAMS) for High-Throughput and Rapid Analysis of Biological Aerosols and Single Cells. ACS Symposium Series, 2011, , 161-196.	0.5	10
66	Short-pulse Laser Induced Transient Structure Formation and Ablation Studied with Time-resolved Coherent XUV-scattering. , 2010, , .		21
67	Human breath analysis: methods for sample collection and reduction of localized background effects. Analytical and Bioanalytical Chemistry, 2010, 396, 739-750.	3.7	71
68	Detecting trace pesticides in real time using single particle aerosol mass spectrometry. Analytica Chimica Acta, 2010, 661, 188-194.	5.4	18
69	Single-shot femtosecond x-ray diffraction from randomly oriented ellipsoidal nanoparticles. Physical Review Special Topics: Accelerators and Beams, 2010, 13, .	1.8	13
70	Modeling the National Ignition Facility neutron imaging system. Review of Scientific Instruments, 2010, 81, 10D335.	1.3	10
71	Aerosol Imaging with a Soft X-Ray Free Electron Laser. Aerosol Science and Technology, 2010, 44, i-vi.	3.1	40
72	Editorial The Future of Sensors and Instrumentation for Human Breath Analysis. IEEE Sensors Journal, 2010, 10, 3-6.	4.7	18

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73	Femtosecond diffractive imaging of biological cells. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 194015.	1.5	41
74	Analysis of Volatile and Non-Volatile Biomarkers in Human Breath Using Differential Mobility Spectrometry (DMS). IEEE Sensors Journal, 2010, 10, 114-122.	4.7	29
75	Publisherâ€™s Note: Cryptotomography: Reconstructing 3D Fourier Intensities from Randomly Oriented Single-Shot Diffraction Patterns [Phys. Rev. Lett.104, 225501 (2010)]. Physical Review Letters, 2010, 104, .	7.8	6
76	Cryptotomography: Reconstructing 3D Fourier Intensities from Randomly Oriented Single-Shot Diffraction Patterns. Physical Review Letters, 2010, 104, 225501.	7.8	94
77	Sacrificial Tamper Slows Down Sample Explosion in FLASH Diffraction Experiments. Physical Review Letters, 2010, 104, 064801.	7.8	59
78	Ultrafast coherent X-ray diffractive imaging with the FLASH Free-Electron Laser. Springer Series in Chemical Physics, 2009, , 143-145.	0.2	1
79	Short-pulse Laser Induced Transient Structure Formation and Ablation Studied with Time-resolved Coherent XUV-scattering. Materials Research Society Symposia Proceedings, 2009, 1230, 1.	0.1	3
80	Use of Single Particle Aerosol Mass Spectrometry for the Automated Nondestructive Identification of Drugs in Multicomponent Samples. Analytical Chemistry, 2009, 81, 9336-9342.	6.5	7
81	Coherent imaging at FLASH. Journal of Physics: Conference Series, 2009, 186, 012051.	0.4	6
82	Femtosecond dynamic diffraction imaging with free electron lasers: X-ray snapshots of ultra-fast nanoscale phenomena. , 2009, , .		0
83	Parameters contributing to efficient ion generation in aerosol MALDI mass spectrometry. Journal of the American Society for Mass Spectrometry, 2008, 19, 315-324.	2.8	17
84	Ultrafast soft X-ray scattering and reference-enhanced diffractive imaging of weakly scattering nanoparticles. Journal of Electron Spectroscopy and Related Phenomena, 2008, 166-167, 65-73.	1.7	16
85	Ultrafast single-shot diffraction imaging of nanoscale dynamics. Nature Photonics, 2008, 2, 415-419.	31.4	221
86	Massively parallel X-ray holography. Nature Photonics, 2008, 2, 560-563.	31.4	168
87	Single Particle X-ray Diffractive Imaging. Nano Letters, 2008, 8, 310-316.	9.1	229
88	Supramicrometer particle shadowgraph imaging in the ionization region of a single particle aerosol mass spectrometer. Journal of Aerosol Science, 2008, 39, 10-18.	3.8	4
89	Non-destructive characterization and alignment of aerodynamically focused particle beams using single particle charge detection. Journal of Aerosol Science, 2008, 39, 917-928.	3.8	26
90	Camera for coherent diffractive imaging and holography with a soft-x-ray free-electron laser. Applied Optics, 2008, 47, 1673.	2.1	34

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91	Reagentless Detection of Mycobacteria tuberculosis H37Ra in Respiratory Effluents in Minutes. Analytical Chemistry, 2008, 80, 5350-5357.	6.5	9
92	Autonomous, Broad-Spectrum Detection of Hazardous Aerosols in Seconds. Analytical Chemistry, 2008, 80, 4583-4589.	6.5	25
93	Aerosol sample preparation methods for X-ray diffractive imaging: Size-selected spherical nanoparticles on silicon nitride foils. Journal of Aerosol Science, 2007, 38, 1119-1128.	3.8	11
94	Modular Sampling and Analysis Techniques for the Real-Time Analysis of Human Breath. , 2007, , .		3
95	Single-Particle Aerosol Mass Spectrometry for the Detection and Identification of Chemical Warfare Agent Simulants. Analytical Chemistry, 2007, 79, 6368-6375.	6.5	28
96	Identification of High Explosives Using Single-Particle Aerosol Mass Spectrometry. Analytical Chemistry, 2007, 79, 1918-1925.	6.5	31
97	Online aerosol mass spectrometry of single micrometer-sized particles containing poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock	1.5	13
98	The nonâ€destructive identification of solid overâ€theâ€counter medications using single particle aerosol mass spectrometry. Rapid Communications in Mass Spectrometry, 2007, 21, 3561-3568.	1.5	10
99	Femtosecond time-delay X-ray holography. Nature, 2007, 448, 676-679.	27.8	238
100	Fast Determination of the Relative Elemental and Organic Carbon Content of Aerosol Samples by On-Line Single-Particle Aerosol Time-of-Flight Mass Spectrometry. Environmental Science & Technology, 2006, 40, 3327-3335.	10.0	53
101	Following the biochemical and morphological changes of Bacillus atrophaeus cells during the sporulation process using Bioaerosol Mass Spectrometry. Journal of Microbiological Methods, 2006, 67, 56-63.	1.6	28
102	Characterization of ambient aerosols at the San Francisco International Airport using bioaerosol mass spectrometry. , 2006, 6218, 80.		4
103	Femtosecond diffractive imaging with a soft-X-ray free-electron laser. Nature Physics, 2006, 2, 839-843.	16.7	910
104	Detection of biological particles in ambient air using bioaerosol mass spectrometry. , 2006, 6218, 89.		4
105	Improved sensitivity and mass range in time-of-flight bioaerosol mass spectrometry using an electrostatic ion guide. Journal of the American Society for Mass Spectrometry, 2005, 16, 1866-1875.	2.8	22
106	The spectral response of superconducting tunnel junction X-ray detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 551, 35-45.	1.6	9
107	Bioaerosol Mass Spectrometry for Rapid Detection of Individual Airborne Mycobacterium tuberculosis H37Ra Particles. Applied and Environmental Microbiology, 2005, 71, 6086-6095.	3.1	68
108	Stable Isotope Labeling of Entire Bacillus atrophaeus Spores and Vegetative Cells Using Bioaerosol Mass Spectrometry. Analytical Chemistry, 2005, 77, 1081-1087.	6.5	49

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109	Achieving High Detection Sensitivity (14 zmol) of Biomolecular Ions in Bioaerosol Mass Spectrometry. Analytical Chemistry, 2005, 77, 4734-4741.	6.5	41
110	Comprehensive Assignment of Mass Spectral Signatures from IndividualBacillusatrophaeusSpores in Matrix-Free Laser Desorption/Ionization Bioaerosol Mass Spectrometry. Analytical Chemistry, 2005, 77, 3315-3323.	6.5	49
111	Desorption/Ionization Fluence Thresholds and Improved Mass Spectral Consistency Measured Using a Flattop Laser Profile in the Bioaerosol Mass Spectrometry of SingleBacillusEndospores. Analytical Chemistry, 2005, 77, 7448-7454.	6.5	43
112	Toward understanding the ionization of biomarkers from micrometer particles by bio-aerosol mass spectrometry. Journal of the American Society for Mass Spectrometry, 2004, 15, 900-909.	2.8	33
113	Reagentless Detection and Classification of Individual Bioaerosol Particles in Seconds. Analytical Chemistry, 2004, 76, 373-378.	6.5	150
114	SINGLE PARTICLE ANALYSIS OF STANDARD SOOT SAMPLES FOR FAST DETERMINATION OF EC/OC VALUES. Journal of Aerosol Science, 2004, 35, S1169-S1170.	3.8	1
115	Laser Power Dependence of Mass Spectral Signatures from Individual Bacterial Spores in Bioaerosol Mass Spectrometry. Analytical Chemistry, 2003, 75, 5480-5487.	6.5	72
116	Characterization of superconducting tunnel junction X-ray detectors by means of monochromatized undulator radiation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 487, 450-456.	1.6	6
117	Discrimination between Bacterial Spore Types Using Time-of-Flight Mass Spectrometry and Matrix-Free Infrared Laser Desorption and Ionization. Analytical Chemistry, 2001, 73, 2331-2337.	6.5	33
118	A superconducting detector endstation for high-resolution energy-dispersive SR-XRF. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 467-468, 1117-1120.	1.6	15
119	Gamma-ray spectrometers using superconducting transition edge sensors with external active feedback bias. IEEE Transactions on Applied Superconductivity, 2001, 11, 743-746.	1.7	5
120	Investigating ion-surface collisions with a niobium superconducting tunnel junction detector in a time-of-flight mass spectrometer. , 2000, 14, 600-607.		16
121	Using a superconducting tunnel junction detector to measure the secondary electron emission efficiency for a microchannel plate detector bombarded by large molecular ions. Rapid Communications in Mass Spectrometry, 2000, 14, 1854-1861.	1.5	56
122	Fiske modes in superconducting tunnel junction detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 444, 151-155.	1.6	8
123	Mass spectrometry with cryogenic detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 444, 375-384.	1.6	22
124	Identification of microorganisms using superconducting tunnel junctions and time-of-flight mass spectrometry. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 444, 385-388.	1.6	9
125	Novel refrigerator development. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 444, 38-41.	1.6	1
126	Gamma-ray spectrometers using a bulk Sn absorber coupled to a Mo/Cu multilayer superconducting transition edge sensor. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 444, 196-200.	1.6	18

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127	Superconducting high-resolution X-ray detectors for metalloprotein L-edge spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 1999, 101-103, 891-896.	1.7	8
128	Energy-sensitive cryogenic detectors for high-mass biomolecule mass spectrometry. , 1999, 18, 155-186.		79
129	High resolution tunnel junction extreme ultraviolet detectors limited by quasiparticle counting statistics. IEEE Transactions on Applied Superconductivity, 1999, 9, 3330-3333.	1.7	17
130	Energyâ€sensitive cryogenic detectors for highâ€mass biomolecule mass spectrometry. Mass Spectrometry Reviews, 1999, 18, 155-186.	5.4	7
131	Cryogenic high-resolution X-ray spectrometers for SR-XRF and microanalysis. Journal of Synchrotron Radiation, 1998, 5, 515-517.	2.4	10
132	Modeling the power flow in normal conductor-insulator-superconductor junctions. Journal of Applied Physics, 1998, 83, 3217-3224.	2.5	36
133	Energy resolution and high count rate performance of superconducting tunnel junction x-ray spectrometers. Review of Scientific Instruments, 1998, 69, 25-31.	1.3	77
134	A superconducting tunnel junction x-ray detector with performance limited by statistical effects. Applied Physics Letters, 1998, 73, 1295-1297.	3.3	37
135	Superconducting Tunnel Junction Array Development for High-Resolution Energy-Dispersive X-ray Spectroscopy. Microscopy and Microanalysis, 1998, 4, 616-621.	0.4	5
136	High-resolution superconducting X-ray spectrometers with an active area of 282 Î¼mÃ—282 Î¼m. IEEE Transactions on Applied Superconductivity, 1997, 7, 3415-3418.	1.7	14
137	Proximity effect and hot-electron diffusion in Ag/Al/sub 2/O/sub 3//Al tunnel junctions. IEEE Transactions on Applied Superconductivity, 1997, 7, 3379-3382.	1.7	5
138	Simultaneous measurement of flight time and energy of large matrix-assisted laser desorption ionization ions with a superconducting tunnel junction detector. Journal of the American Society for Mass Spectrometry, 1997, 8, 1094-1102.	2.8	24
139	Investigation of quasiparticle diffusion away from the tunneling regions of SIN X-ray sensors. European Physical Journal D, 1996, 46, 2899-2900.	0.4	0
140	Analysis of pulse shape from a high-resolution superconducting tunnel junction X-ray spectrometer. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 370, 53-56.	1.6	55
141	High-efficiency Detection of 66 000 Da Protein Molecules Using a Cryogenic Detector in a Matrix-assisted Laser Desorption/Ionization Time-of-flight Mass Spectrometer. Rapid Communications in Mass Spectrometry, 1996, 10, 1946-1950.	1.5	53
142	High-resolution X-ray detectors with high-speed SQUID readout of superconducting tunnel junctions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 370, 41-43.	1.6	43
143	Development of a prototype superconducting X-ray spectrometer using a Ta crystal as an absorber. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 370, 47-49.	1.6	7
144	Characterization of photolithographically defined NIS tunnel junctions as X-ray sensors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 370, 57-60.	1.6	4

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145	Assessment of low temperature X-ray detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 370, 65-68.	1.6	2
146	A superconducting tunnel junction X-ray detector design for practical applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 370, 81-84.	1.6	1
147	Non-equilibrium normal metal superconducting tunnel junction detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 370, 121-123.	1.6	1
148	Model for cryogenic particle detectors with superconducting phase transition thermometers. Journal of Low Temperature Physics, 1995, 100, 69-104.	1.4	108
149	Low-energy X-ray detection in cryogenic detectors with tungsten thermometers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1995, 354, 408-416.	1.6	33
150	High-resolution superconducting X-ray spectrometers with aluminum trapping layers of different thicknesses. IEEE Transactions on Applied Superconductivity, 1995, 5, 3069-3072.	1.7	5
151	Low-energy response of superconducting tunnel junction X-ray spectrometers. IEEE Transactions on Applied Superconductivity, 1995, 5, 3034-3037.	1.7	15
152	A calorimetric particle detector using an iridium superconducting phase transition thermometer. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1994, 345, 367-378.	1.6	18
153	A massive cryogenic particle detector with good energy resolution. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 323, 95-98.	4.1	22
154	Munich cryogenic detector development for direct Dark Matter search. Nuclear Physics, Section B, Proceedings Supplements, 1994, 35, 172-174.	0.4	2
155	Proximity effect in iridiumâ€gold bilayers. Journal of Applied Physics, 1994, 76, 4262-4266.	2.5	39
156	Physics and performance of calorimetric particle detectors with dielectric absorbers and superconducting phase transition thermometers. Journal of Low Temperature Physics, 1993, 93, 213-218.	1.4	11
157	Use of proximity effect in iridium-gold superconducting phase transition thermometers. Journal of Low Temperature Physics, 1993, 93, 543-548.	1.4	10
158	Superconducting tungsten films for use as phase transition thermometers for calorimetric detectors. Journal of Low Temperature Physics, 1993, 93, 549-554.	1.4	9
159	Munich dark matter search. Journal of Low Temperature Physics, 1993, 93, 797-802.	1.4	10
160	Energy-transport phenomena in single superconducting grains. Physical Review B, 1991, 43, 5321-5328.	3.2	12
161	Studies of single superconducting grains for a neutrino and dark matter detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1990, 287, 583-594.	1.6	28
162	Superconducting grains as micro-calorimeters. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 230, 159-161.	4.1	5