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	Femtosecond X-ray protein nanocrystallography. Nature, 2011, 470, 73-77.	27.8	1,771
2	Femtosecond diffractive imaging with a soft-X-ray free-electron laser. Nature Physics, 2006, 2, 839-843.	16.7	910
3	Single mimivirus particles intercepted and imaged with an X-ray laser. Nature, 2011, 470, 78-81.	27.8	790
4	Time-resolved serial crystallography captures high-resolution intermediates of photoactive yellow protein. Science, 2014, 346, 1242-1246.	12.6	418
5	Serial time-resolved crystallography of photosystem II using a femtosecond X-ray laser. Nature, 2014, 513, 261-265.	27.8	403
6	Natively Inhibited Trypanosoma brucei Cathepsin B Structure Determined by Using an X-ray Laser. Science, 2013, 339, 227-230.	12.6	393
7	Femtosecond structural dynamics drives the trans/cis isomerization in photoactive yellow protein. Science, 2016, 352, 725-729.	12.6	348
8	Femtosecond time-delay X-ray holography. Nature, 2007, 448, 676-679.	27.8	238
9	Single Particle X-ray Diffractive Imaging. Nano Letters, 2008, 8, 310-316.	9.1	229
10	Ultrafast single-shot diffraction imaging of nanoscale dynamics. Nature Photonics, 2008, 2, 415-419.	31.4	221
11	Time-resolved protein nanocrystallography using an X-ray free-electron laser. Optics Express, 2012, 20, 2706.	3.4	219
12	Visualizing a protein quake with time-resolved X-ray scattering at a free-electron laser. Nature Methods, 2014, 11, 923-926.	19.0	173
13	Fractal morphology, imaging and mass spectrometry of single aerosol particles in flight. Nature, 2012, 486, 513-517.	27.8	170
14	Fixed-target protein serial microcrystallography with an x-ray free electron laser. Scientific Reports, 2014, 4, 6026.	3.3	169
15	Massively parallel X-ray holography. Nature Photonics, 2008, 2, 560-563.	31.4	168
16	Reagentless Detection and Classification of Individual Bioaerosol Particles in Seconds. Analytical Chemistry, 2004, 76, 373-378.	6.5	150
17	Megahertz serial crystallography. Nature Communications, 2018, 9, 4025.	12.8	147
18	Enzyme intermediates captured â€œon the flyâ€•by mix-and-inject serial crystallography. BMC Biology, 2018, 16, 59.	3.8	117

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19	Time-resolved serial femtosecond crystallography at the European XFEL. Nature Methods, 2020, 17, 73-78.	19.0	110
20	Model for cryogenic particle detectors with superconducting phase transition thermometers. Journal of Low Temperature Physics, 1995, 100, 69-104.	1.4	108
21	Cryogenic thermonuclear fuel implosions on the National Ignition Facility. Physics of Plasmas, 2012, 19, .	1.9	95
22	Cryptotomography: Reconstructing 3D Fourier Intensities from Randomly Oriented Single-Shot Diffraction Patterns. Physical Review Letters, 2010, 104, 225501.	7.8	94
23	Structural enzymology using X-ray free electron lasers. Structural Dynamics, 2017, 4, 044003.	2.3	92
24	Energy-sensitive cryogenic detectors for high-mass biomolecule mass spectrometry. , 1999, 18, 155-186.		79
25	Femtosecond X-ray diffraction from two-dimensional protein crystals. IUCrJ, 2014, 1, 95-100.	2.2	78
26	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
27	Single-particle structure determination by correlations of snapshot X-ray diffraction patterns. Nature Communications, 2012, 3, 1276.	12.8	76
28	Structure of a photosynthetic reaction centre determined by serial femtosecond crystallography. Nature Communications, 2013, 4, 2911.	12.8	74
29	Noise-robust coherent diffractive imaging with a single diffraction pattern. Optics Express, 2012, 20, 16650.	3.4	73
30	Laser Power Dependence of Mass Spectral Signatures from Individual Bacterial Spores in Bioaerosol Mass Spectrometry. Analytical Chemistry, 2003, 75, 5480-5487.	6.5	72
31	Human breath analysis: methods for sample collection and reduction of localized background effects. Analytical and Bioanalytical Chemistry, 2010, 396, 739-750.	3.7	71
32	Lipidic cubic phase injector is a viable crystal delivery system for time-resolved serial crystallography. Nature Communications, 2016, 7, 12314.	12.8	71
33	Bioaerosol Mass Spectrometry for Rapid Detection of Individual Airborne Mycobacterium tuberculosis H37Ra Particles. Applied and Environmental Microbiology, 2005, 71, 6086-6095.	3.1	68
34	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
35	Sacrificial Tamper Slows Down Sample Explosion in FLASH Diffraction Experiments. Physical Review Letters, 2010, 104, 064801.	7.8	59
36	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

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37	Femtosecond free-electron laser x-ray diffraction data sets for algorithm development. Optics Express, 2012, 20, 4149.	3.4	56
38	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
39	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
40	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
41	Stable Isotope Labeling of Entire Bacillus atrophaeus Spores and Vegetative Cells Using Bioaerosol Mass Spectrometry. Analytical Chemistry, 2005, 77, 1081-1087.	6.5	49
42	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
43	Membrane protein megahertz crystallography at the European XFEL. Nature Communications, 2019, 10, 5021.	12.8	47
44	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
45	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
46	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
47	Achieving High Detection Sensitivity (14 zmol) of Biomolecular Ions in Bioaerosol Mass Spectrometry. Analytical Chemistry, 2005, 77, 4734-4741.	6.5	41
48	Femtosecond diffractive imaging of biological cells. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 194015.	1.5	41
49	Aerosol Imaging with a Soft X-Ray Free Electron Laser. Aerosol Science and Technology, 2010, 44, i-vi.	3.1	40
50	Proximity effect in iridiumâ€gold bilayers. Journal of Applied Physics, 1994, 76, 4262-4266.	2.5	39
51	Femtosecond dark-field imaging with an X-ray free electron laser. Optics Express, 2012, 20, 13501.	3.4	38
52	A superconducting tunnel junction x-ray detector with performance limited by statistical effects. Applied Physics Letters, 1998, 73, 1295-1297.	3.3	37
53	Modeling the power flow in normal conductor-insulator-superconductor junctions. Journal of Applied Physics, 1998, 83, 3217-3224.	2.5	36
54	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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55	Femtosecond X-ray coherent diffraction of aligned amyloid fibrils on low background graphene. Nature Communications, 2018, 9, 1836.	12.8	34
56	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
57	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
58	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
59	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
60	Low-Zpolymer sample supports for fixed-target serial femtosecond X-ray crystallography. Journal of Applied Crystallography, 2015, 48, 1072-1079.	4.5	32
61	Identification of High Explosives Using Single-Particle Aerosol Mass Spectrometry. Analytical Chemistry, 2007, 79, 1918-1925.	6.5	31
62	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
63	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
64	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
65	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
66	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
67	Single-Particle Aerosol Mass Spectrometry for the Detection and Identification of Chemical Warfare Agent Simulants. Analytical Chemistry, 2007, 79, 6368-6375.	6.5	28
68	Multipurpose modular experimental station for the DiProI beamline of Fermi@Elettra free electron laser. Review of Scientific Instruments, 2011, 82, 043711.	1.3	28
69	Sensing the wavefront of x-ray free-electron lasers using aerosol spheres. Optics Express, 2013, 21, 12385.	3.4	28
70	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
71	Autonomous, Broad-Spectrum Detection of Hazardous Aerosols in Seconds. Analytical Chemistry, 2008, 80, 4583-4589.	6.5	25
72	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

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73	In cellulo crystallization of Trypanosoma brucei IMP dehydrogenase enables the identification of genuine co-factors. Nature Communications, 2020, 11, 620.	12.8	24
74	High Rate of Non-Human Feeding by Aedes aegypti Reduces Zika Virus Transmission in South Texas. Viruses, 2020, 12, 453.	3.3	23
75	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
76	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
77	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
78	Short-pulse Laser Induced Transient Structure Formation and Ablation Studied with Time-resolved Coherent XUV-scattering. , 2010, , .		21
79	Enabling membrane protein structure and dynamics with X-ray free electron lasers. Current Opinion in Structural Biology, 2014, 27, 69-78.	5.7	21
80	A fixed-target platform for serial femtosecond crystallography in a hydrated environment. IUCrJ, 2020, 7, 30-41.	2.2	21
81	Toward unsupervised single-shot diffractive imaging of heterogeneous particles using X-ray free-electron lasers. Optics Express, 2013, 21, 28729.	3.4	20
82	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
83	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
84	Detecting trace pesticides in real time using single particle aerosol mass spectrometry. Analytica Chimica Acta, 2010, 661, 188-194.	5.4	18
85	Editorial The Future of Sensors and Instrumentation for Human Breath Analysis. IEEE Sensors Journal, 2010, 10, 3-6.	4.7	18
86	Single-shot diffraction data from the Mimivirus particle using an X-ray free-electron laser. Scientific Data, 2016, 3, 160060.	5.3	18
87	High resolution tunnel junction extreme ultraviolet detectors limited by quasiparticle counting statistics. IEEE Transactions on Applied Superconductivity, 1999, 9, 3330-3333.	1.7	17
88	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
89	Investigating ion-surface collisions with a niobium superconducting tunnel junction detector in a time-of-flight mass spectrometer. , 2000, 14, 600-607.		16
90	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

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91	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
92	Analysis of XFEL serial diffraction data from individual crystalline fibrils. IUCrJ, 2017, 4, 795-811.	2.2	16
93	Low-energy response of superconducting tunnel junction X-ray spectrometers. IEEE Transactions on Applied Superconductivity, 1995, 5, 3034-3037.	1.7	15
94	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
95	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
96	Observation of charmonium pairs produced exclusively in pp collisions. Journal of Physics G: Nuclear and Particle Physics, 2014, 41, 115002.	3.6	14
97	Online aerosol mass spectrometry of single micrometer-sized particles containing poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock	1.5	13
98	Single-shot femtosecond x-ray diffraction from randomly oriented ellipsoidal nanoparticles. Physical Review Special Topics: Accelerators and Beams, 2010, 13, .	1.8	13
99	Energy-transport phenomena in single superconducting grains. Physical Review B, 1991, 43, 5321-5328.	3.2	12
100	Single particle imaging with soft x-rays at the Linac Coherent Light Source. , 2011, , .		12
101	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
102	Co-flow injection for serial crystallography at X-ray free-electron lasers. Journal of Applied Crystallography, 2022, 55, 1-13.	4.5	12
103	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
104	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
105	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
106	Use of proximity effect in iridium-gold superconducting phase transition thermometers. Journal of Low Temperature Physics, 1993, 93, 543-548.	1.4	10
107	Munich dark matter search. Journal of Low Temperature Physics, 1993, 93, 797-802.	1.4	10
108	Cryogenic high-resolution X-ray spectrometers for SR-XRF and microanalysis. Journal of Synchrotron Radiation, 1998, 5, 515-517.	2.4	10

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109	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
110	Modeling the National Ignition Facility neutron imaging system. Review of Scientific Instruments, 2010, 81, 10D335.	1.3	10
111	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
112	Detecting opioid metabolites in exhaled breath condensate (EBC). Journal of Breath Research, 2019, 13, 046014.	3.0	10
113	Superconducting tungsten films for use as phase transition thermometers for calorimetric detectors. Journal of Low Temperature Physics, 1993, 93, 549-554.	1.4	9
114	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
115	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
116	Reagentless Detection of Mycobacteria tuberculosis H37Ra in Respiratory Effluents in Minutes. Analytical Chemistry, 2008, 80, 5350-5357.	6.5	9
117	The Eco-Bio-Social Factors That Modulate Aedes aegypti Abundance in South Texas Border Communities. Insects, 2021, 12, 183.	2.2	9
118	Domestic Dogs as Sentinels for West Nile Virus but not Aedes-borne Flaviviruses, Mexico. Emerging Infectious Diseases, 2022, 28, 1071-1074.	4.3	9
119	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
120	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
121	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
122	Resolution extension by image summing in serial femtosecond crystallography of two-dimensional membrane-protein crystals. IUCrJ, 2018, 5, 103-117.	2.2	8
123	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
124	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
125	First downscattered neutron images from Inertial Confinement Fusion experiments at the National Ignition Facility. EPJ Web of Conferences, 2013, 59, 13018.	0.3	7
126	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

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127	Energyâ€sensitive cryogenic detectors for highâ€mass biomolecule mass spectrometry. Mass Spectrometry Reviews, 1999, 18, 155-186.	5.4	7
128	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
129	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
130	Coherent imaging at FLASH. Journal of Physics: Conference Series, 2009, 186, 012051.	0.4	6
131	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
132	Summary of the first neutron image data collected at the National Ignition Facility. EPJ Web of Conferences, 2013, 59, 13017.	0.3	6
133	Diffraction data from aerosolized Coliphage PR772 virus particles imaged with the Linac Coherent Light Source. Scientific Data, 2020, 7, 404.	5.3	6
134	Crystallization of ApoA1 and ApoE4 Nanolipoprotein Particles and Initial XFEL-Based Structural Studies. Crystals, 2020, 10, 886.	2.2	6
135	Superconducting grains as micro-calorimeters. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 230, 159-161.	4.1	5
136	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
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	Superconducting Tunnel Junction Array Development for High-Resolution Energy-Dispersive X-ray Spectroscopy. Microscopy and Microanalysis, 1998, 4, 616-621.	0.4	5
139	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
140	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
141	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
142	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
143	Characterization of ambient aerosols at the San Francisco International Airport using bioaerosol mass spectrometry. , 2006, 6218, 80.		4
144	Detection of biological particles in ambient air using bioaerosol mass spectrometry. , 2006, 6218, 89.		4

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145	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
146	Modular Sampling and Analysis Techniques for the Real-Time Analysis of Human Breath. , 2007, , .		3
147	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
148	Munich cryogenic detector development for direct Dark Matter search. Nuclear Physics, Section B, Proceedings Supplements, 1994, 35, 172-174.	0.4	2
149	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
150	Comparing neutron and X-ray images from NIF implosions. EPJ Web of Conferences, 2013, 59, 04002.	0.3	2
151	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
152	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
153	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
154	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
155	Ultrafast coherent X-ray diffractive imaging with the FLASH Free-Electron Laser. Springer Series in Chemical Physics, 2009, , 143-145.	0.2	1
156	In-plane rotation classification for coherent X-ray imaging of single biomolecules. Optics Express, 2011, 19, 11691.	3.4	1
157	The neutron imaging system fielded at the National Ignition Facility. EPJ Web of Conferences, 2013, 59, 13016.	0.3	1
158	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
159	Structure-factor amplitude reconstruction from serial femtosecond crystallography of two-dimensional membrane-protein crystals. IUCrJ, 2019, 6, 34-45.	2.2	1
160	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
161	Femtosecond dynamic diffraction imaging with free electron lasers: X-ray snapshots of ultra-fast nanoscale phenomena. , 2009, , .		0
162	Cell cultures as inÂvitro models for breath research. , 2020, , 425-439.		0