

Bernd Schmitt

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5161417/publications.pdf>

Version: 2024-02-01

260
papers

12,739
citations

50276

46
h-index

28297

105
g-index

260
all docs

260
docs citations

260
times ranked

14311
citing authors

#	ARTICLE	IF	CITATIONS
1	The CMS experiment at the CERN LHC. <i>Journal of Instrumentation</i> , 2008, 3, S08004-S08004.	1.2	2,192
2	Precision electroweak measurements on the Z resonance. <i>Physics Reports</i> , 2006, 427, 257-454.	25.6	974
3	Electroweak measurements in electron-positron collisions at W-boson-pair energies at LEP. <i>Physics Reports</i> , 2013, 532, 119-244.	25.6	453
4	Plastic Deformation with Reversible Peak Broadening in Nanocrystalline Nickel. <i>Science</i> , 2004, 304, 273-276.	12.6	440
5	The PILATUS 1M detector. <i>Journal of Synchrotron Radiation</i> , 2006, 13, 120-130.	2.4	439
6	Performance of single-photon-counting PILATUS detector modules. <i>Journal of Synchrotron Radiation</i> , 2009, 16, 368-375.	2.4	363
7	SwissFEL: The Swiss X-ray Free Electron Laser. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 720.	2.5	272
8	PILATUS: A single photon counting pixel detector for X-ray applications. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009, 607, 247-249.	1.6	268
9	The Materials Science beamline upgrade at the Swiss Light Source. <i>Journal of Synchrotron Radiation</i> , 2013, 20, 667-682.	2.4	255
10	Measurement of the strong coupling constant. <i>European Physical Journal C</i> , 1999, 7, 571.	3.9	250
11	The MYTHEN detector for X-ray powder diffraction experiments at the Swiss Light Source. <i>Journal of Synchrotron Radiation</i> , 2010, 17, 653-668.	2.4	243
12	Mythen detector system. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2003, 501, 267-272.	1.6	190
13	The adaptive gain integrating pixel detector AGIPD a detector for the European XFEL. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 633, S11-S14.	1.6	164
14	A von Hamos x-ray spectrometer based on a segmented-type diffraction crystal for single-shot x-ray emission spectroscopy and time-resolved resonant inelastic x-ray scattering studies. <i>Review of Scientific Instruments</i> , 2012, 83, 103105.	1.3	158
15	Characterization and Calibration of PILATUS Detectors. <i>IEEE Transactions on Nuclear Science</i> , 2009, 56, 758-764.	2.0	157
16	Megahertz serial crystallography. <i>Nature Communications</i> , 2018, 9, 4025.	12.8	147
17	EIGER: Next generation single photon counting detector for X-ray applications. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 650, 79-83.	1.6	136
18	On the Microstructure of Nanoporous Gold: An X-ray Diffraction Study. <i>Nano Letters</i> , 2009, 9, 1158-1163.	9.1	132

#	ARTICLE	IF	CITATIONS
19	Coherent science at the SwissFEL x-ray laser. <i>New Journal of Physics</i> , 2010, 12, 035012.	2.9	123
20	PILATUS: a two-dimensional X-ray detector for macromolecular crystallography. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2003, 501, 260-266.	1.6	105
21	In situ X-ray diffraction of the intercalation of $(C_2H_5)_4N^+$ and BF_4^- into graphite from acetonitrile and propylene carbonate based supercapacitor electrolytes. <i>Electrochimica Acta</i> , 2007, 53, 1074-1082.	5.2	97
22	A new criterion for elasto-plastic transition in nanomaterials: Application to size and composite effects on Cu-Nb nanocomposite wires. <i>Acta Materialia</i> , 2009, 57, 3157-3169.	7.9	96
23	Polarization and forward-backward asymmetry of Λ baryons in hadronic Z^0 decays. <i>European Physical Journal C</i> , 1998, 2, 49-59.	3.9	94
24	Diffraction imaging for periodic samples: retrieving one-dimensional concentration profiles across microfluidic channels. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2007, 63, 306-314.	0.3	93
25			

#	ARTICLE	IF	CITATIONS
37	Development of single photon counting detectors at the Swiss Light Source. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 518, 436-439.	1.6	56
38	Fast and accurate data collection for macromolecular crystallography using the JUNGFRÄU detector. Nature Methods, 2018, 15, 799-804.	19.0	56
39	The GOTTHARD charge integrating readout detector: design and characterization. Journal of Instrumentation, 2012, 7, C01019-C01019.	1.2	55
40	Prototype characterization of the JUNGFRÄU pixel detector for SwissFEL. Journal of Instrumentation, 2014, 9, C05010-C05010.	1.2	54
41	Measurement of the time dependence of mixing using a jet charge technique. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 327, 411-424.	4.1	53
42	Characterization results of the JUNGFRÄU full scale readout ASIC. Journal of Instrumentation, 2016, 11, C02047-C02047.	1.2	53
43	Micrometer-resolution imaging using MÄ-NCH: towards G₂-less grating interferometry. Journal of Synchrotron Radiation, 2016, 23, 1462-1473.	2.4	53
44	A pixel read-out chip for the PILATUS project. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 465, 235-239.	1.6	52
45	<i>In situ</i> observation of rapid reactions in nanoscale Ni-Al multilayer foils using synchrotron radiation. Applied Physics Letters, 2010, 97, .	3.3	50
46	Following peak profiles during elastic and plastic deformation: A synchrotron-based technique. Review of Scientific Instruments, 2006, 77, 013902.	1.3	48
47	An upper limit on the anomalous magnetic moment of the \tilde{l} , lepton. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 431, 188-198.	4.1	47
48	Performance of a single photon counting microstrip detector for strip pitches down to 10 $\frac{1}{4}$ µm. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 591, 163-166.	1.6	46
49	Challenges in chip design for the AGIPD detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 624, 387-391.	1.6	46
50	Precise determination of the Z resonance parameters at LEP: $\hat{\alpha}$ edometry. European Physical Journal C, 2001, 19, 587-651.	3.9	45
51	First experiments at the Swiss Light Source Materials Science beamline powder diffractometer. Journal of Alloys and Compounds, 2004, 362, 206-217.	5.5	44
52	Evidence for chain-like production of strange baryon pairs in jets. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 305, 415-427.	4.1	42
53	Time-resolved monitoring of cement hydration: Influence of cellulose ethers on hydration kinetics. Nuclear Instruments & Methods in Physics Research B, 2005, 238, 102-106.	1.4	41
54	Measurements with MÄ-NCH, a 25 $\frac{1}{4}$ µm pixel pitch hybrid pixel detector. Journal of Instrumentation, 2017, 12, C01071-C01071.	1.2	41

#	ARTICLE	IF	CITATIONS
55	Temperature-dependent residual broadening of x-ray diffraction spectra in nanocrystalline plasticity. Applied Physics Letters, 2005, 87, 231910.	3.3	39
56	A study of b quark fragmentation into B0 and B+ mesons at LEP. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 364, 93-106.	4.1	38
57	EIGER characterization results. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 731, 68-73.	1.6	38
58	Pixel detectors for diffraction-limited storage rings. Journal of Synchrotron Radiation, 2014, 21, 1006-1010.	2.4	38
59	Measurements of flavour-dependent fragmentation functions in. European Physical Journal C, 1999, 7, 369.	3.9	37
60	Measurement of the mass of the W boson in e+e- collisions at. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 389, 416-428.	4.1	36
61	Measurement of the Q2 evolution of the photon structure function F2^gamma. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 411, 387-401.	4.1	36
62	The instrumental resolution function of synchrotron radiation powder diffractometers in the presence of focusing optics. Journal of Applied Crystallography, 2006, 39, 347-357.	4.5	36
63	In situ synchrotron radiation monitoring of phase transitions during microwave heating of Al-Cu-Fe alloys. Journal of Materials Research, 2008, 23, 170-175.	2.6	36
64	A new family of pixel detectors for high frame rate X-ray applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 617, 384-386.	1.6	36
65	Continuous sample rotation data collection for protein crystallography with the PILATUS detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 510, 24-28.	1.6	34
66	Search for chargino and neutralino production using the OPAL detector at GeV at LEP. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 377, 181-194.	4.1	33
67	Test of QCD analytic predictions for the multiplicity ratio between gluon and quark jets. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 388, 659-672.	4.1	33
68	Measurements of the Bs0 and B^0 lifetimes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 426, 161-179.	4.1	33
69	Hydrogenation of LaNi5 studied by in situ synchrotron powder diffraction. Acta Materialia, 2006, 54, 713-719.	7.9	33
70	MÃ-NCH, a small pitch, integrating hybrid pixel detector for X-ray applications. Journal of Instrumentation, 2014, 9, C05015-C05015.	1.2	33
71	Electron crystallography with the EIGER detector. IUCr, 2018, 5, 190-199.	2.2	33
72	Search for anomalous production of high mass photon pairs in e+e- collisions at LEP. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 311, 391-407.	4.1	32

#	ARTICLE	IF	CITATIONS
73	Measurement of the longitudinal, transverse and asymmetry fragmentation functions at LEP. Zeitschrift für Physik C-Particles and Fields, 1995, 68, 203-213.	1.5	32
74	Search for the Bc meson in hadronic Z0 decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 420, 157-168.	4.1	32
75	Multiplicity and transverse momentum correlations in multihadronic final states in e+e- interactions at s = 91.2 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 320, 417-430.	4.1	31
76	A pixel detector for the protein crystallography beamline at the SLS. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 477, 531-535.	1.6	31
77	Spin alignment of leading K*(892)0 mesons in hadronic Z0 decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 412, 210-224.	4.1	30
78	Structural analysis of rapidly solidified Mg-Cu-Y glasses during room-temperature embrittlement. Philosophical Magazine, 2009, 89, 233-248.	1.6	30
79	Creep in nanocrystalline Ni during X-ray diffraction. Scripta Materialia, 2009, 60, 297-300.	5.2	30
80	Megapixels @ Megahertz - The AGIPD high-speed cameras for the European XFEL. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 942, 162324.	1.6	30
81	Improved measurement of the lifetime of the tau lepton. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 374, 341-350.	4.1	29
82	Photon counting microstrip detector for time resolved powder diffraction experiments. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 604, 136-139.	1.6	29
83	Success and failure of dead-time models as applied to hybrid pixel detectors in high-flux applications. Journal of Synchrotron Radiation, 2013, 20, 347-354.	2.4	29
84	A measurement of. European Physical Journal C, 1999, 8, 217.	3.9	29
85	A study of charm meson production in semileptonic B decays. Zeitschrift für Physik C-Particles and Fields, 1995, 67, 57-68.	1.5	28
86	Evidence of internal Bauschinger test in nanocomposite wires during in situ macroscopic tensile cycling under synchrotron beam. Applied Physics Letters, 2007, 90, 241907.	3.3	28
87	A measurement of charged particle multiplicity in Z0 to cc-bar and Z0 to bb-bar events. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 352, 176-186.	4.1	27
88	Measurement of the multiplicity of charm quark pairs from gluons in hadronic Z0 Decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 353, 595-605.	4.1	27
89	Measurement of the photon structure function F2^gamma at low x. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 412, 225-234.	4.1	27
90	EIGER a new single photon counting detector for X-ray applications: performance of the chip. Journal of Instrumentation, 2012, 7, C02019-C02019.	1.2	27

#	ARTICLE	IF	CITATIONS
91	Improving the spatial resolution of soft X-ray detection using an Electron-Multiplying Charge-Coupled Device. <i>Journal of Instrumentation</i> , 2013, 8, C01046-C01046.	1.2	27
92	Micron resolution of MÄ–NCH and GOTTHARD, small pitch charge integrating detectors with single photon sensitivity. <i>Journal of Instrumentation</i> , 2014, 9, C05027-C05027.	1.2	27
93	Towards hybrid pixel detectors for energy-dispersive or soft X-ray photon science. <i>Journal of Synchrotron Radiation</i> , 2016, 23, 385-394.	2.4	27
94	First full dynamic range calibration of the JUNGFRÄU photon detector. <i>Journal of Instrumentation</i> , 2018, 13, C01027-C01027.	1.2	27
95	Segmented flow generator for serial crystallography at the European X-ray free electron laser. <i>Nature Communications</i> , 2020, 11, 4511.	12.8	27
96	MythenII: A 128 channel single photon counting readout chip. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009, 607, 250-252.	1.6	26
97	A measurement of $(892)_{\pm}$ production in hadronic Z0 decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1993, 305, 407-414.	4.1	25
98	Search for the minimal standard model Higgs boson. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1994, 327, 397-410.	4.1	25
99	Measurement of cross-sections and asymmetries in $e+e\hat{a}^{\prime}$ collisions at 130â€“140 GeV centre-of-mass energy. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996, 376, 232-244.	4.1	25
100	A first measurement of the \hat{b} and \hat{b}^{\prime} (\hat{b}) spin compositions in hadronic Z0 decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996, 384, 377-387.	4.1	25
101	New results on silicon microstrip detectors of CMS tracker. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2000, 447, 142-150.	1.6	25
102	Instrumental profile of MYTHEN detector in Debye-Scherrer geometry. <i>Zeitschrift FÄ¼r Kristallographie</i> , 2010, 225, 616-624.	1.1	25
103	JUNGFRÄU detector for brighter x-ray sources: Solutions for IT and data science challenges in macromolecular crystallography. <i>Structural Dynamics</i> , 2020, 7, 014305.	2.3	25
104	Advances in long-wavelength native phasing at X-ray free-electron lasers. <i>IUCr</i> , 2020, 7, 965-975.	2.2	25
105	Measurement of the B0 and B+ lifetimes. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1993, 307, 247-261.	4.1	24
106	A measurement of the \hat{b}^{\prime} lifetime. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1995, 353, 402-412.	4.1	24
107	Multiplicity dependence of Bose-Einstein correlations in hadronic Z0 decays. <i>Zeitschrift FÄ¼r Physik C-Particles and Fields</i> , 1996, 72, 389-398.	1.5	24
108	Investigation of design parameters for radiation hard silicon microstrip detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2002, 485, 343-361.	1.6	24

#	ARTICLE	IF	CITATIONS
109	Beyond single photon counting X-ray detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 628, 238-241.	1.6	24
110	A single photon resolution integrating chip for microstrip detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 633, S29-S32.	1.6	24
111	The single photon sensitivity of the Adaptive Gain Integrating Pixel Detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 694, 82-90.	1.6	24
112	Measurement of heavy quark forward-backward asymmetries and average B mixing using leptons in multihadronic events. Zeitschrift für Physik C-Particles and Fields, 1996, 70, 357-369.	1.5	23
113	Search for stable and long-lived massive charged particles in $e+e^{\gamma}$ collisions at GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 433, 195-208.	4.1	23
114	Confinement-induced liquid ordering investigated by x-ray phase retrieval. Physical Review E, 2007, 75, 021501.	2.1	23
115	Search for anomalous photonic events with missing energy in. European Physical Journal C, 1999, 8, 23.	3.9	23
116	Search for CP violation in $Z \rightarrow \text{longrightarrow}\{au^+au^-\}$ and an upper limit on the weak dipole moment of the au lepton. Zeitschrift für Physik C-Particles and Fields, 1997, 74, 403-412.	1.5	22
117	A measurement of $ V_{cb} $ using decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 395, 128-140.	4.1	22
118	Measurement of the average polarization of b baryons in hadronic Z0 decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 444, 539-554.	4.1	22
119	Performance of the EIGER single photon counting detector. Journal of Instrumentation, 2015, 10, C03011-C03011.	1.2	22
120	A single-photon counting $\text{edge-on}\text{silicon}$ detector for synchrotron radiation mammography. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 608, S62-S65.	1.6	21
121	Development of low-energy X-ray detectors using LGAD sensors. Journal of Synchrotron Radiation, 2019, 26, 1226-1237.	2.4	21
122	Synchrotron beam test with a photon-counting pixel detector. Journal of Synchrotron Radiation, 2000, 7, 301-306.	2.4	20
123	Micrometre resolution of a charge integrating microstrip detector with single photon sensitivity. Journal of Synchrotron Radiation, 2012, 19, 359-365.	2.4	20
124	An improved measurement of the B0 lifetime. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 350, 273-282.	4.1	19
125	A measurement of the B d 0 oscillation frequency using leptons and $D^{*\pm}$ mesons. Zeitschrift für Physik C-Particles and Fields, 1996, 72, 377-388.	1.5	19
126	Search for chargino and neutralino production in $e+e^{\gamma}$ collisions at. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 389, 616-630.	4.1	19

#	ARTICLE	IF	CITATIONS
127	Footprints of deformation mechanisms during in situ x-ray diffraction: Nanocrystalline and ultrafine grained Ni. Applied Physics Letters, 2005, 86, 231910.	3.3	19
128	Single photon counting pixel detectors for synchrotron radiation experiments. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 623, 204-206.	1.6	19
129	JUNGFRAU 0.2: prototype characterization of a gain-switching, high dynamic range imaging system for photon science at SwissFEL and synchrotrons. Journal of Instrumentation, 2014, 9, P12013-P12013.	1.2	19
130	A study of KOSKOS Bose-Einstein correlations in hadronic Z0 decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 298, 456-468.	4.1	18
131	Measurement of the time dependence of mixing using leptons and D_s^{\pm} mesons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 336, 585-598.	4.1	18
132	Measurement of the triple gauge boson coupling $\hat{\Gamma}_{\pm W\gamma\gamma}$ from $W+W^{\pm}$ production in $e+e^{\pm}$ collisions at GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 397, 147-157.	4.1	18
133	The materials science beamline at the Swiss Light Source. Nuclear Instruments & Methods in Physics Research B, 2005, 238, 224-228.	1.4	18
134	Commensurate structural modulation in the charge- and orbitally ordered phase of the quadruple perovskite Mn_4O_{12} . Physical Review B, 2012, 86, 041101.	3.2	18
135	Inclusive production of charged hadrons and. European Physical Journal C, 1999, 6, 253.	3.9	18
136	Measurement of the B _S lifetime. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 312, 501-510.	4.1	17
137	Improved measurements of the B ₀ and B ⁺ meson lifetimes. Zeitschrift für Physik C-Particles and Fields, 1995, 67, 379-388.	1.5	17
138	Looking at single photons using hybrid detectors. Journal of Instrumentation, 2015, 10, C01033-C01033.	1.2	17
139	The EIGER detector for low-energy electron microscopy and photoemission electron microscopy. Journal of Synchrotron Radiation, 2017, 24, 963-974.	2.4	17
140	Updated measurement of the $\tilde{\chi}_1^0$ lifetime. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 338, 497-506.	4.1	16
141	Search for charged Higgs bosons using the OPAL detector at LEP. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 370, 174-184.	4.1	16
142	Search for Higgs bosons and new particles decaying into two photons at GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 437, 218-230.	4.1	16
143	Production of $\tilde{\chi}_1^0\tilde{\chi}_2^0$ mesons in photon-photon collisions at LEP. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 439, 197-208.	4.1	16
144	A measurement of the branching ratio. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 447, 134-146.	4.1	16

#	ARTICLE	IF	CITATIONS
145	Measurement of the W mass and width in e^+e^- collisions at 183 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 453, 138-152.	4.1	16
146	Developing a CCD camera with high spatial resolution for RIXS in the soft X-ray range. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 731, 47-52.	1.6	16
147	Advances in exploiting preferred orientation in the structure analysis of polycrystalline materials. Journal of Applied Crystallography, 2013, 46, 173-180.	4.5	16
148	Test of the four-fermion contact interaction in e^+e^- collisions at $\sqrt{s} = 130-140$ GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 387, 432-442.	4.1	15
149	Clinical mammography at the SYRMEP beam line: Toward the digital detection system. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 576, 160-163.	1.6	15
150	A measurement of the average lifetime of b -flavoured baryons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 316, 435-447.	4.1	14
151	Search for a scalar top quark using the OPAL detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 337, 207-218.	4.1	14
152	Colour reconnection studies in $e^+e^- \rightarrow \tau^+W+W^-$ at GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 453, 153-168.	4.1	14
153	Single shot x-ray phase contrast imaging using a direct conversion microstrip detector with single photon sensitivity. Applied Physics Letters, 2016, 108, .	3.3	14
154	Characterization of GaAs:Cr sensors using the charge-integrating JUNGFRÄU readout chip. Journal of Instrumentation, 2019, 14, P05020-P05020.	1.2	14
155	KALYPSO: Linear array detector for high-repetition rate and real-time beam diagnostics. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 936, 10-13.	1.6	14
156	Search for neutral Higgs bosons in the minimal supersymmetric extension of the standard model. Zeitschrift für Physik C-Particles and Fields, 1994, 64, 1-13.	1.5	13
157	Observation of \hat{t}^3 production in hadronic Z^0 decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 370, 185-194.	4.1	13
158	Amino Acids in Iron Oxide Mineralization: (Incomplete) Crystal Phase Selection Is Achieved Even with Single Amino Acids. Journal of Physical Chemistry C, 2008, 112, 12104-12110.	3.1	13
159	Improving the resolution in soft X-ray emission spectrometers through photon-counting using an Electron Multiplying CCD. Journal of Instrumentation, 2012, 7, C01063-C01063.	1.2	13
160	Search for chargino and neutralino production at. European Physical Journal C, 1999, 8, 255.	3.9	13
161	\hat{t}^{++} production in hadronic Z^0 decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 358, 162-172.	4.1	12
162	A low noise high dynamic range analog front-end ASIC for the AGIPD XFEL detector. , 2012, , .		12

#	ARTICLE	IF	CITATIONS
163	Characterization of AGIPD1.0: The full scale chip. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 838, 39-46.	1.6	12
164	Calibration status and plans for the charge integrating JUNGFRÄU pixel detector for SwissFEL. Journal of Instrumentation, 2016, 11, C11013-C11013.	1.2	12
165	Search for massive, unstable photinos that violate R parity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 313, 333-340.	4.1	11
166	A study of muon pair production and evidence for tau pair production in photon-photon collisions at LEP. Zeitschrift für Physik C-Particles and Fields, 1993, 60, 593-600.	1.5	11
167	Prompt production in hadronic Z0 decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 384, 343-352.	4.1	11
168	Search for charged Higgs bosons in e^+e^- collisions at $\sqrt{s} = 172$ GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 426, 180-192.	4.1	11
169	High-resolution hard-X-ray fluorescence spectrometer. Journal of Physics: Conference Series, 2009, 190, 012035.	0.4	11
170	Direct formation of ZnO nanostructures by chemical solution deposition and EUV exposure. Nanotechnology, 2010, 21, 215302.	2.6	11
171	Time-over-threshold readout to enhance the high-flux capabilities of single-photon-counting detectors. Journal of Synchrotron Radiation, 2011, 18, 923-929.	2.4	11
172	The adaptive gain integrating pixel detector. Journal of Instrumentation, 2016, 11, C02066-C02066.	1.2	11
173	Towards Gotthard-II: development of a silicon microstrip detector for the European X-ray Free-Electron Laser. Journal of Instrumentation, 2018, 13, P01025-P01025.	1.2	11
174	Operation and performance of the JUNGFRÄU photon detector during first FEL and synchrotron experiments. Journal of Instrumentation, 2018, 13, C11006-C11006.	1.2	11
175	Measurement of the Michel parameters in leptonic tau decays. European Physical Journal C, 1999, 8, 3.	3.9	11
176	Production of. European Physical Journal C, 1999, 8, 241.	3.9	11
177	Search for rare hadronic B decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 337, 393-404.	4.1	10
178	Test of the exponential decay law at short decay times using tau leptons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 368, 244-250.	4.1	10
179	Measurement of the branching ratio. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 369, 163-172.	4.1	10
180	Search for excited leptons in e^+e^- collisions at. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 386, 463-474.	4.1	10

#	ARTICLE	IF	CITATIONS
181	Search for scalar top and scalar bottom quarks using the OPAL detector at LEP. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 389, 197-210.	4.1	10
182	Search for the Standard Model Higgs boson in $e+e^-$ collisions at. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 393, 231-244.	4.1	10
183	Search for charged scalar leptons using the OPAL detector at GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 396, 301-314.	4.1	10
184	Development of a fast read-out system of a single photon counting detector for mammography with synchrotron radiation. Journal of Instrumentation, 2011, 6, C12031-C12031.	1.2	10
185	New calibration circuitry and concept for AGIPD. Journal of Instrumentation, 2016, 11, C11019-C11019.	1.2	10
186	Di-jet production in photon-photon collisions at. European Physical Journal C, 1999, 10, 547.	3.9	10
187	Detector developments at DESY. Journal of Synchrotron Radiation, 2016, 23, 111-117.	2.4	10
188	Measurement of the $\tau \rightarrow \mu \nu_\mu$, and $\tau \rightarrow e \nu_e$ branching ratios. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 328, 207-222.	4.1	9
189	Search for unstable neutral and charged heavy leptons in $e+e^-$ collisions at and 136 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 385, 433-444.	4.1	9
190	Search for excited leptons in $e+e^-$ collisions at. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 391, 197-209.	4.1	9
191	Search for unstable neutral and charged heavy leptons in $e+e^-$ collisions at. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 393, 217-230.	4.1	9
192	XFEL detectors. Nature Reviews Physics, 2020, 2, 335-336.	26.6	9
193	Measurement of tau branching ratios to five charged hadrons. European Physical Journal C, 1999, 8, 183.	3.9	9
194	A precise measurement of the tau polarization and its forward-backward asymmetry at LEP. Zeitschrift für Physik C-Particles and Fields, 1996, 72, 365-375.	1.5	8
195	First measurement of production in Compton scattering of quasi-real photons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 438, 391-404.	4.1	8
196	Improving the spatial resolution of a soft X-ray Charge Coupled Device used for Resonant Inelastic X-ray Scattering. Journal of Instrumentation, 2011, 6, C11021-C11021.	1.2	8
197	High speed cameras for X-rays: AGIPD and others. Journal of Instrumentation, 2013, 8, C01042-C01042.	1.2	8
198	Discrimination of Aluminum from Silicon by Electron Crystallography with the JUNGFRÄU Detector. Crystals, 2020, 10, 1148.	2.2	8

#	ARTICLE	IF	CITATIONS
199	Bose-Einstein Correlations in. European Physical Journal C, 1999, 8, 559.	3.9	8
200	Measurement of the branching fraction of the radiative decay. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 388, 437-449.	4.1	7
201	Measurement of the longitudinal cross-section using the direction of the thrust axis in hadronic events at LEP. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 440, 393-402.	4.1	7
202	AGIPD - The adaptive gain integrating pixel detector for the European XFEL development and status. , 2011, , .		7
203	Towards AGIPD1.0: optimization of the dynamic range and investigation of a pixel input protection. Journal of Instrumentation, 2014, 9, P06001-P06001.	1.2	7
204	Spectrometer for shot-to-shot photon energy characterization in the multi-bunch mode of the free electron laser at Hamburg. Review of Scientific Instruments, 2015, 86, 113107.	1.3	7
205	Determination of an upper limit for the mass of the $\tilde{\nu}_\tau$ -neutrino at LEP. Zeitschrift für Physik C-Particles and Fields, 1995, 65, 183-188.	1.5	6
206	A study of four-fermion final states with high multiplicity at LEP. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 376, 315-328.	4.1	6
207	Performance of CMS silicon microstrip detectors with the APV6 readout chip. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 447, 133-141.	1.6	6
208	Optimization of the noise performance of the AGIPD prototype chips. Journal of Instrumentation, 2013, 8, P10022-P10022.	1.2	6
209	X-ray Detector Development at the Swiss Light Source. Synchrotron Radiation News, 2014, 27, 3-8.	0.8	6
210	Comparator threshold settings and the effective pixel width of the PICASSO detector. Journal of Instrumentation, 2014, 9, C05056-C05056.	1.2	6
211	Towards MYTHEN 3: Characterization of prototype chips. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 936, 383-385.	1.6	6
212	A measurement of the product branching ratio. European Physical Journal C, 1999, 9, 1.	3.9	6
213	A study of the electric charge distributions of quark and gluon jets in hadronic Z^0 decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 302, 523-532.	4.1	5
214	Measurements of the inclusive branching ratios of $\tilde{\nu}_\tau$ -leptons to K^0S and charged K^{\pm} —(892). Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 339, 278-292.	4.1	5
215	Photonic events with large missing energy in $e^+e^- \rightarrow \gamma\gamma$ collisions at. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 391, 210-220.	4.1	5
216	Multi-photon production in $e^+e^- \rightarrow \gamma\gamma$ collisions at GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 438, 379-390.	4.1	5

#	ARTICLE	IF	CITATIONS
217	Search for an excess in the production of four-jet events from e^+e^- collisions at $\sqrt{s} = 184$ GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 429, 399-413.	4.1	5
218	Radiation hardness assessment of the charge-integrating hybrid pixel detector JUNGFRAU 1.0 for photon science. Review of Scientific Instruments, 2015, 86, 123110.	1.3	5
219	Front end ASIC for AGIPD, a high dynamic range fast detector for the European XFEL. Journal of Instrumentation, 2016, 11, C01057-C01057.	1.2	5
220	An upper limit on the branching ratio for \tilde{l}_1 , decays into seven charged particles. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 404, 213-222.	4.1	4
221	Search for acoplanar lepton pair events in e^+e^- collisions at $\sqrt{s} = 161, 172$ and 183 GeV. European Physical Journal C, 2000, 12, 551-565.	3.9	4
222	The adaptive gain integrating pixel detector (AGIPD): A detector for the European XFEL. development and status. , 2009, , .		4
223	Evaluation of charge -sharing effects on the spatial resolution of the PICASSO detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 617, 244-245.	1.6	4
224	Breast computed tomography with the PICASSO detector: A feasibility study. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 628, 419-422.	1.6	4
225	Front end electronics for European XFEL sensor: The AGIPD project. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 731, 79-82.	1.6	4
226	The high speed, high dynamic range camera AGIPD. , 2013, , .		4
227	The AGIPD 1.0 ASIC: Random access high frame rate, high dynamic range X-ray camera readout for the European XFEL. , 2015, , .		4
228	AGIPD: a multi megapixel, multi megahertz X-ray camera for the European XFEL. Proceedings of SPIE, 2017, , .	0.8	4
229	Towards a stand-alone high-throughput EUV actinic photomask inspection tool: RESCAN. , 2017, , .		4
230	Performance evaluation of the analogue front-end and ADC prototypes for the Gotthard-II development. Journal of Instrumentation, 2017, 12, C12052-C12052.	1.2	4
231	Photon counting microstrip X-ray detectors with GaAs sensors. Journal of Instrumentation, 2018, 13, C01046-C01046.	1.2	4
232	Upper limit on the \tilde{l}_1 , mass from $\tilde{l}_1 \rightarrow 3h\tilde{l}_1$, decays. Zeitschrift für Physik C-Particles and Fields, 1996, 72, 231-238.		3
233	The CMS silicon tracker. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 419, 538-543.	1.6	3
234	The CMS silicon strip tracker. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 435, 102-108.	1.6	3

#	ARTICLE	IF	CITATIONS
235	Concentration Profiles of Colloidal Fluids in One-Dimensional Confinement. <i>Chimia</i> , 2008, 62, 789-792.	0.6	3
236	Study of the signal response of the MÃ–NCH 251¼m pitch hybrid pixel detector at different photon absorption depths. <i>Journal of Instrumentation</i> , 2015, 10, C03022-C03022.	1.2	3
237	Measurement of the semileptonic branching ratio of charm hadrons produced in. <i>European Physical Journal C</i> , 1999, 8, 573.	3.9	3
238	X-ray fluorescence detection for serial macromolecular crystallography using a JUNGFRÄU pixel detector. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 329-339.	2.4	3
239	Search for baryon and lepton number violating Z0 decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1999, 447, 157-166.	4.1	2
240	The CMS silicon microstrip detectors: research and development. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1999, 426, 16-23.	1.6	2
241	Architecture and design of the AGIPD detector for the European XFEL. , 2012, , .		2
242	High-resolution soft x-ray spectrometry using the electron-multiplying charge-coupled device (EM-CCD). , 2013, , .		2
243	AGIPD 1.0: The high-speed high dynamic range readout ASIC for the adaptive gain integrating pixel detector at the European XFEL. , 2014, , .		2
244	Radiation tests with foxfet biased microstrip detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1998, 418, 128-137.	1.6	1
245	The CMS silicon tracker. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2000, 453, 121-125.	1.6	1
246	CMS silicon tracker developments. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2002, 477, 440-445.	1.6	1
247	Pixel Detectors For Diffraction Experiments At The Swiss Light Source. <i>AIP Conference Proceedings</i> , 2004, , .	0.4	1
248	PICASSO: A silicon microstrip detector for mammography with synchrotron radiation. , 2008, , .		1
249	The AGIPD System for the European XFEL. <i>Proceedings of SPIE</i> , 2013, , .	0.8	1
250	Two fermion production in e+eâˆ’ collisions at LEP at centre-of-mass energies between 130 and 172 GeV. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 1998, 65, 124-128.	0.4	0
251	The CMS silicon tracker at LHC. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1998, 409, 105-111.	1.6	0
252	R&D for the CMS silicon tracker. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 1999, 78, 322-328.	0.4	0

#	ARTICLE	IF	CITATIONS
253	Test results of heavily irradiated Si detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 422, 238-241.	1.6	0
254	The silicon microstrip tracker for CMS. Nuclear Physics, Section B, Proceedings Supplements, 1999, 78, 315-321.	0.4	0
255	Test results on heavily irradiated silicon detectors for the CMS experiment at LHC. IEEE Transactions on Nuclear Science, 2000, 47, 2092-2100.	2.0	0
256	Real-Time Beam Profile Uniformity Monitoring System. IEEE Transactions on Nuclear Science, 2013, 60, 3802-3804.	2.0	0
257	PSIMOD - A generalised system model for investigating the performance of hybrid pixel detectors. Journal of Physics: Conference Series, 2013, 425, 062006.	0.4	0
258	Detector Developments for Hard X-rays at DESY: Cutting-Edge Systems for Cutting-Edge Light Sources. Synchrotron Radiation News, 2014, 27, 9-13.	0.8	0
259	Vertically integrated circuits: Example of an application to an x-ray detector. , 2014, , .		0
260	Characterisation of an electron collecting CdTe strip sensor using the MYTHEN readout chip. Journal of Instrumentation, 2015, 10, C01024-C01024.	1.2	0