

# Sophie Redford

## List of Publications by Year in descending order

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84  
papers

3,547  
citations

126708

33  
h-index

138251

58  
g-index

85  
all docs

85  
docs citations

85  
times ranked

7176  
citing authors

#	ARTICLE	IF	CITATIONS
1	Calibration methods for charge integrating detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1024, 166078.	0.7	3
2	Observation of radiation damage in CdTe Schottky sensors created by 20 keV photons. Journal of Instrumentation, 2022, 17, P06035.	0.5	0
3	Characterization of Chromium Compensated GaAs Sensors with the Charge-Integrating JUNGFR AU Readout Chip by Means of a Highly Collimated Pencil Beam. Sensors, 2021, 21, 1550.	2.1	16
4	Strain wave pathway to semiconductor-to-metal transition revealed by time-resolved X-ray powder diffraction. Nature Communications, 2021, 12, 1239.	5.8	29
5	Discrimination of Aluminum from Silicon by Electron Crystallography with the JUNGFR AU Detector. Crystals, 2020, 10, 1148.	1.0	8
6	A compact and cost-effective hard X-ray free-electron laser driven by a high-brightness and low-energy electron beam. Nature Photonics, 2020, 14, 748-754.	15.6	140
7	Measurement of charge deposition from heavy ions with the charge integrating JUNGFR AU detector. Journal of Instrumentation, 2020, 15, C05044-C05044.	0.5	1
8	First full dynamic range scan of the JUNGFR AU detector performed at an XFEL with an accurate intensity reference. Journal of Instrumentation, 2020, 15, C02025-C02025.	0.5	5
9	JUNGFR AU detector for brighter x-ray sources: Solutions for IT and data science challenges in macromolecular crystallography. Structural Dynamics, 2020, 7, 014305.	0.9	25
10	X-ray fluorescence detection for serial macromolecular crystallography using a JUNGFR AU pixel detector. Journal of Synchrotron Radiation, 2020, 27, 329-339.	1.0	3
11	Advances in long-wavelength native phasing at X-ray free-electron lasers. IUCrJ, 2020, 7, 965-975.	1.0	25
12	Characterization of GaAs:Cr sensors using the charge-integrating JUNGFR AU readout chip. Journal of Instrumentation, 2019, 14, P05020-P05020.	0.5	14
13	Towards MYTHEN III - prototype characterisation of MYTHEN III.0.2. Journal of Instrumentation, 2019, 14, C11028-C11028.	0.5	3
14	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.	0.7	6
15	Development of low-energy X-ray detectors using LGAD sensors. Journal of Synchrotron Radiation, 2019, 26, 1226-1237.	1.0	21
16	1 kHz fixed-target serial crystallography using a multilayer monochromator and an integrating pixel detector. IUCrJ, 2019, 6, 927-937.	1.0	35
17	First full dynamic range calibration of the JUNGFR AU photon detector. Journal of Instrumentation, 2018, 13, C01027-C01027.	0.5	27
18	Radiation Damage Effects and Operation of the LHCb Vertex Locator. IEEE Transactions on Nuclear Science, 2018, 65, 1127-1132.	1.2	1

#	ARTICLE	IF	CITATIONS
19	The MÃ–NCH Detector for Soft X-ray, High-Resolution, and Energy Resolved Applications. Synchrotron Radiation News, 2018, 31, 11-15.	0.2	12
20	The JUNGFRÄU Detector for Applications at Synchrotron Light Sources and XFELs. Synchrotron Radiation News, 2018, 31, 16-20.	0.2	44
21	Operation and performance of the JUNGFRÄU photon detector during first FEL and synchrotron experiments. Journal of Instrumentation, 2018, 13, C11006-C11006.	0.5	11
22	Fast and accurate data collection for macromolecular crystallography using the JUNGFRÄU detector. Nature Methods, 2018, 15, 799-804.	9.0	56
23	Hybrid Detectors for High Resolution Imaging.. Microscopy and Microanalysis, 2018, 24, 320-321.	0.2	1
24	Measurements with MÃ–NCH, a 25 $\hat{1}$ 4m pixel pitch hybrid pixel detector. Journal of Instrumentation, 2017, 12, C01071-C01071.	0.5	41
25	The EIGER detector for low-energy electron microscopy and photoemission electron microscopy. Journal of Synchrotron Radiation, 2017, 24, 963-974.	1.0	17
26	Towards a stand-alone high-throughput EUV actinic photomask inspection tool: RESCAN. , 2017, , .		4
27	SwissFEL: The Swiss X-ray Free Electron Laser. Applied Sciences (Switzerland), 2017, 7, 720.	1.3	272
28	Calibration status and plans for the charge integrating JUNGFRÄU pixel detector for SwissFEL. Journal of Instrumentation, 2016, 11, C11013-C11013.	0.5	12
29	Micrometer-resolution imaging using MÃ–NCH: towards G<sub>2</sub>-less grating interferometry. Journal of Synchrotron Radiation, 2016, 23, 1462-1473.	1.0	53
30	Higgs and BSM physics at CLIC. , 2016, , .		0
31	Physics at CLIC. Acta Physica Polonica B, 2015, 46, 1391.	0.3	1
32	R&D for the Vertexing at CLIC. , 2015, , .		1
33	CLIC vertex detector R&D. Journal of Instrumentation, 2014, 9, C08014-C08014.	0.5	2
34	Study of forward Z + jet production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	25
35	Study of $J/\psi$ production and cold nuclear matter effects in pPb collisions at $\sqrt{s_{NN}} = 5$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	74
36	Addendum: Observation of double charm production involving open charm in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	34

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37	Searches for $\Lambda_b^0$ and $\Xi_b^0$ decays to $K_{\text{charm}}^{\text{S}} \pi^{\pm}$ and $K_{\text{charm}}^{\text{S}} \pi^{\pm}$ final states with first observation of the $\Lambda_b^0$ $K_{\text{charm}}^{\text{S}} \pi^{\pm}$ decay. Journal of High Energy Physics, 2014, 2014, 1.	1.6	25
38	Measurement of $\psi(2S)$ $\Upsilon(2S)$ polarisation in $pp$ collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2014, 74, 2872.	1.4	53
39	Measurement of charged particle multiplicities and densities in $pp$ collisions at $\sqrt{s} = 7$ ; $s = 7$ TeV in the forward region. European Physical Journal C, 2014, 74, 2888.	1.4	30
40	Differential branching fraction and angular analysis of the decay $B_s^0 \rightarrow \pi^+ \pi^- \pi^0$ . Journal of High Energy Physics, 2013, 2013, 1.	1.6	103
41	Search for CP violation in $D^+ \rightarrow \pi^+ \pi^0$ and $D_s^+ \rightarrow \pi^+ \pi^0$ decays. Journal of High Energy Physics, 2013, 2013, 1.	1.6	14
42	Production of $J/\psi$ and $\Upsilon$ mesons in $pp$ collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	65
43	Measurement of the $B^0 \rightarrow K^+ K^- e^+ e^-$ branching fraction at low dilepton mass. Journal of High Energy Physics, 2013, 2013, 1.	1.6	28
44	Limits on neutral Higgs boson production in the forward region in $pp$ collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	7
45	Measurement of the fragmentation fraction ratio $f_s/f_d$ and its dependence on B meson kinematics. Journal of High Energy Physics, 2013, 2013, 1.	1.6	89
46	Measurement of CP observables in $B^0 \rightarrow DK^+ K^-$ with $D \rightarrow K^+ K^-$ . Journal of High Energy Physics, 2013, 2013, 1.	1.6	6
47	Measurement of the cross-section for $Z \rightarrow e^+ e^-$ production in $pp$ collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	53
48	Differential branching fraction and angular analysis of the $B^+ \rightarrow K^+ \pi^+ \pi^-$ decay. Journal of High Energy Physics, 2013, 2013, 1.	1.6	72
49	Measurement of $J/\psi$ production in $pp$ collisions at $\sqrt{s} = 2.76$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	30
50	Measurement of the forward energy flow in $pp$ collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 2421.	1.4	25
51	Measurements of the branching fractions of $B^+ \rightarrow p \bar{p} K^+$ decays. European Physical Journal C, 2013, 73, 2462.	1.4	24
52	First measurement of time-dependent CP violation in $B_s^0 \rightarrow K^+ K^-$ decays. Journal of High Energy Physics, 2013, 2013, 1.	1.6	28
53	Measurement of the relative rate of prompt $\Upsilon(0)$ , $\Upsilon(1)$ and $\Upsilon(2)$ production at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	36
54	Study of D meson decays to $D \rightarrow \pi^+ \pi^-$ , $D \rightarrow \pi^+ \pi^0$ and $D \rightarrow \pi^+ \pi^+ \pi^-$ final states in $pp$ collisions. Journal of High Energy Physics, 2013, 2013, 1.	1.6	82

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55	First observation of the decay $B_c^+ \rightarrow \psi(K^+)$ . Journal of High Energy Physics, 2013, 2013, 1.	1.6	41
56	Searches for $B_{(s)}^0 \rightarrow \psi p$ and $B^+ \rightarrow \psi p$ decays. Journal of High Energy Physics, 2013, 2013, 1.	1.6	7
57	Differential branching fraction and angular analysis of the decay $B^0 \rightarrow K^+ K^- \pi^+ \pi^-$ . Journal of High Energy Physics, 2013, 2013, 1.	1.6	111
58	Measurement of B meson production cross-sections in proton-proton collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	50
59	Implications of LHCb measurements and future prospects. European Physical Journal C, 2013, 73, 1.	1.4	137
60	Search for the doubly charmed baryon $\Xi_{cc}^+$ . Journal of High Energy Physics, 2013, 2013, 1.	1.6	50
61	Measurement of $J/\psi$ polarization in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2013, 73, 2631.	1.4	117
62	Observation of the decay $B_c^+ \rightarrow \psi' K^+ K^- \pi^+$ . Journal of High Energy Physics, 2013, 2013, 1.	1.6	25
63	First observation of the decay $B_s^0 \rightarrow \psi K^{*0}$ . Journal of High Energy Physics, 2013, 2013, 1.	1.6	9
64	Search for the rare decay $K_S^0 \rightarrow \mu^+ \mu^-$ . Journal of High Energy Physics, 2013, 2013, 1.	1.6	13
65	A study of the Z production cross-section in pp collisions at $\sqrt{s}=7$ TeV using tau final states. Journal of High Energy Physics, 2013, 2013, 1.	1.6	14
66	Measurement of the $B_{\pm}^{\Delta}$ production cross-section in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	22
67	Observation of double charm production involving open charm in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	103
68	Measurement of the isospin asymmetry in $B^0 \rightarrow K^+ K^- \pi^+ \pi^-$ decays. Journal of High Energy Physics, 2012, 2012, 165		
69	Measurement of the fraction of $\psi(1S)$ originating from $\psi(1P)$ decays in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	18
70	First observation of the decay $B^+ \rightarrow \psi' \pi^+ \pi^- \pi^+$ . Journal of High Energy Physics, 2012, 2012, 1.	1.6	36
71	Measurement of $\psi(2S)$ meson production in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2012, 72, 2100.	1.4	83
72	Measurement of relative branching fractions of B decays to $\psi(2S)$ and $J/\psi$ mesons. European Physical Journal C, 2012, 72, 2118.	1.4	29

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73	Measurement of prompt hadron production ratios in pp collisions at $\sqrt{s} = 0.9$ and $7 \text{ TeV}$ . European Physical Journal C, 2012, 72, 1.	1.4	26
74	Measurement of mixing and CP violation parameters in two-body charm decays. Journal of High Energy Physics, 2012, 2012, 1.	1.6	26
75	Inclusive W and Z production in the forward region at $\sqrt{s} = 7, 13 \text{ TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.	1.6	71
76	Measurement of charged particle multiplicities in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ in the forward region. European Physical Journal C, 2012, 72, 1.	1.4	30
77	Observation of $X(3872)$ production in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . European Physical Journal C, 2012, 72, 1.	1.4	153
78	Opposite-side flavour tagging of B mesons at the LHCb experiment. European Physical Journal C, 2012, 72, 2022.	1.4	58
79	Measurement of $\eta'$ production in pp collisions at $\sqrt{s} = 7, 13 \text{ TeV}$ . European Physical Journal C, 2012, 72, 2025.	1.4	106
80	Observation of double charm production involving open charm in pp collisions at $\sqrt{s} = 7, 13 \text{ TeV}$ . , 2012, 2012, 1.		2
81	Optimisation of variables for studying dilepton transverse momentum distributions at hadron colliders. European Physical Journal C, 2011, 71, 1.	1.4	91
82	Measurement of $J/\psi$ production in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . European Physical Journal C, 2011, 71, 1.	1.4	238
83	Measurement of $V_0$ production ratios in pp collisions at $\sqrt{s} = 0.9$ and $7 \text{ TeV}$ . Journal of High Energy Physics, 2011, 2011, 1.	1.6	18
84	LHCb VELO Closing Control, Beam Reconstruction, and Luminosity from Vertex Reconstruction. , 2011, , .		0