

# Jan Kaspar

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

87  
papers

1,512  
citations

18  
h-index

37  
g-index

98  
ext. papers

1,929  
ext. citations

3  
avg, IF

2.61  
L-index

#	Paper	IF	Citations
87	First measurement of the total proton-proton cross-section at the LHC energy of $\sqrt{s} = 7, \text{TeV}$ . <i>Europhysics Letters</i> , <b>2011</b> , 96, 21002	1.6	196
86	Measurement of proton-proton elastic scattering and total cross-section at $\sqrt{s} = 7, \text{TeV}$ . <i>Europhysics Letters</i> , <b>2013</b> , 101, 21002	1.6	135
85	Luminosity-independent measurement of the proton-proton total cross section at $\sqrt{s} = 8 \text{ TeV}$ . <i>Physical Review Letters</i> , <b>2013</b> , 111, 012001	7.4	131
84	Luminosity-independent measurements of total, elastic and inelastic cross-sections at $\sqrt{s} = 7, \text{TeV}$ . <i>Europhysics Letters</i> , <b>2013</b> , 101, 21004	1.6	125
83	Proton-proton elastic scattering at the LHC energy of $\sqrt{s} = 7, \text{TeV}$ . <i>Europhysics Letters</i> , <b>2011</b> , 95, 41001	1.6	115
82	Evidence for non-exponential elastic proton-proton differential cross-section at low $ t $ and $s=8\text{TeV}$ by TOTEM. <i>Nuclear Physics B</i> , <b>2015</b> , 899, 527-546	2.8	76
81	The TOTEM Experiment at the CERN Large Hadron Collider. <i>Journal of Instrumentation</i> , <b>2008</b> , 3, S08007-S08007	7.6	76
80	Measurement of elastic pp scattering at $(\sqrt{s} = 8) \text{ TeV}$ in the Coulomb-nuclear interference region: determination of the $(\rho)$ -parameter and the total cross-section. <i>European Physical Journal C</i> , <b>2016</b> , 76, 1	4.2	66
79	Measurement of proton-proton inelastic scattering cross-section at $\sqrt{s} = 7, \text{TeV}$ . <i>Europhysics Letters</i> , <b>2013</b> , 101, 21003	1.6	51
78	First measurement of elastic, inelastic and total cross-section at $(\sqrt{s}=13) \text{ TeV}$ by TOTEM and overview of cross-section data at LHC energies. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	47
77	Measurement of pseudorapidity distributions of charged particles in proton-proton collisions at $(\sqrt{s} = 8) \text{ TeV}$ by the CMS and TOTEM experiments. <i>European Physical Journal C</i> , <b>2014</b> , 74, 1	4.2	37
76	First determination of the $(\rho)$ parameter at $(\sqrt{s} = 13) \text{ TeV}$ : probing the existence of a colourless C-odd three-gluon compound state. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	34
75	Double diffractive cross-section measurement in the forward region at the LHC. <i>Physical Review Letters</i> , <b>2013</b> , 111, 262001	7.4	26
74	Search for supersymmetry in proton-proton collisions at 13 TeV in final states with jets and missing transverse momentum. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	21
73	Elastic differential cross-section measurement at $(\sqrt{s}=13) \text{ TeV}$ by TOTEM. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	19
72	Elastic Scattering and Total Cross-Section in p+p Reactions As Measured by the LHC Experiment TOTEM at $\sqrt{s} = 7 \text{ TeV}$ . <i>Progress of Theoretical Physics Supplement</i> , <b>2012</b> , 193, 180-183		19
71	Measurement of the forward charged-particle pseudorapidity density in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ with the TOTEM experiment. <i>Europhysics Letters</i> , <b>2012</b> , 98, 31002	1.6	18

70	Phenomenological models of elastic nucleon scattering and predictions for LHC. <i>Nuclear Physics B</i> , <b>2011</b> , 843, 84-106	2.8	18
69	DEEP-ELASTIC pp SCATTERING AT LHC FROM LOW-x GLUONS. <i>Modern Physics Letters A</i> , <b>2009</b> , 24, 485-496	1.2	16
68	Final size planar edgeless silicon detectors for the TOTEM experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2006</b> , 563, 41-44	1.2	16
67	Relation between the extreme angular and areal distortion in cartographic representation. <i>Studia Geophysica Et Geodaetica</i> , <b>1981</b> , 25, 132-151	0.7	16
66	Elastic differential cross-section ( $\frac{d\sigma}{dt}$ ) at ( $\sqrt{s}=2.76$ TeV) and implications on the existence of a colourless C-odd three-gluon compound state. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	14
65	Diamond detectors for the TOTEM timing upgrade. <i>Journal of Instrumentation</i> , <b>2017</b> , 12, P03007-P03007	1.2	14
64	PERFORMANCE OF THE TOTEM DETECTORS AT THE LHC. <i>International Journal of Modern Physics A</i> , <b>2013</b> , 28, 1330046	1.2	14
63	Observation of proton-tagged, central (semi)exclusive production of high-mass lepton pairs in pp collisions at 13 TeV with the CMS-TOTEM precision proton spectrometer. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1	5.4	14
62	Characteristics of edgeless silicon detectors for the Roman Pots of the TOTEM experiment at the LHC. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2009</b> , 604, 242-245	1.2	13
61	The TOTEM detector at LHC. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2010</b> , 617, 62-66	1.2	11
60	Measurements of differential Z boson production cross sections in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	11
59	Effect of energy scale imperfections on results of neutrino mass measurements from $\beta$ decay. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2004</b> , 527, 423-431	1.2	10
58	Measurement of the forward charged particle pseudorapidity density in pp collisions at ( $\sqrt{s}$ ) = 8) TeV using a displaced interaction point. <i>European Physical Journal C</i> , <b>2015</b> , 75, 1	4.2	9
57	Search for anomalous triple gauge couplings in WW and WZ production in lepton + jet events in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	9
56	Search for dark photons in decays of Higgs bosons produced in association with Z bosons in proton-proton collisions at ( $\sqrt{s}$ ) = 13 TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	7
55	Search for dark matter produced in association with a leptonically decaying boson in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2021</b> , 81, 13	4.2	7
54	Precision luminosity measurement in proton-proton collisions at in 2015 and 2016 at CMS. <i>European Physical Journal C</i> , <b>2021</b> , 81, 800	4.2	7
53	LHC optics measurement with proton tracks detected by the Roman pots of the TOTEM experiment. <i>New Journal of Physics</i> , <b>2014</b> , 16, 103041	2.9	6

52	On the stochastic relations between the points of a geodetic network. <i>Studia Geophysica Et Geodaetica</i> , <b>1974</b> , 18, 19-32	0.7	6
51	Les formes différentielles extérieures dans la géométrie II: Courbure moyenne. <i>Studia Geophysica Et Geodaetica</i> , <b>1971</b> , 15, 106-112	0.7	6
50	Measurement of the average very forward energy as a function of the track multiplicity at central pseudorapidities in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 893	4.2	6
49	The problem of the system of height reference in determining the settling of foundations and buildings. <i>Studia Geophysica Et Geodaetica</i> , <b>1974</b> , 18, 33-46	0.7	5
48	A contribution to the migration of gold in the biosphere of the humid mild zone. <i>Chemical Geology</i> , <b>1972</b> , 10, 299-305	4.2	5
47	Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2021</b> , 81, 488	4.2	5
46	Search for resonances decaying to a pair of Higgs bosons in the $b(\overline{\text{b}})q(\overline{\text{q}})$ final state in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	5
45	Feasibility of photoelectron sources with sharp lines of stable energy between 20 and 80 keV. <i>Applied Radiation and Isotopes</i> , <b>2011</b> , 69, 672-7	1.7	4
44	Les formes différentielles extérieures dans la géométrie I: Courbure de Gauss. <i>Studia Geophysica Et Geodaetica</i> , <b>1971</b> , 15, 1-6	0.7	4
43	Odderon Exchange from Elastic Scattering Differences between pp and $pp[\overline{p}]$ Data at 1.96 TeV and from pp Forward Scattering Measurements. <i>Physical Review Letters</i> , <b>2021</b> , 127, 062003	7.4	4
42	La fonction d'appui dans les formules de la géométrie mathématique. <i>Studia Geophysica Et Geodaetica</i> , <b>1971</b> , 15, 241-245	0.7	3
41	Reducing Beam-Related Background on Forward Physics Detectors Using Crystal Collimation at the Large Hadron Collider <sup>1</sup> . <i>Physical Review Applied</i> , <b>2020</b> , 14,	4.3	3
40	Measurements of Higgs boson production cross sections and couplings in the diphoton decay channel at $(\sqrt{\text{mathrm{s}}}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2021</b> , 2021, 1	5.4	3
39	Soft diffraction at LHC. <i>EPJ Web of Conferences</i> , <b>2018</b> , 172, 06005	0.3	3
38	Search for charged Higgs bosons produced in vector boson fusion processes and decaying into vector boson pairs in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2021</b> , 81, 723	4.2	3
37	ElegantAn elastic event generator. <i>Computer Physics Communications</i> , <b>2014</b> , 185, 1081-1084	4.2	2
36	The development of a super-stable datum point for monitoring the energy scale of electron spectrometers in the energy range up to 20 keV. <i>Measurement Techniques</i> , <b>2010</b> , 53, 305-312	0.4	2
35	Konforme Abbildung einer Fläche auf eine Andere unter Wählbaren Bedingungen. <i>Studia Geophysica Et Geodaetica</i> , <b>1962</b> , 6, 105-139	0.7	2

34	Declarative Big Data Analysis for High-Energy Physics: TOTEM Use Case. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 241-255	0.9	2
33	Search for supersymmetry using Higgs boson to diphoton decays at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	2
32	Search for physics beyond the standard model in events with jets and two same-sign or at least three charged leptons in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2020</b> , 80, 752	4.2	2
31	Search for the production of four top quarks in the single-lepton and opposite-sign dilepton final states in proton-proton collisions at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	2
30	Big Data Tools and Cloud Services for High Energy Physics Analysis in TOTEM Experiment <b>2018</b> ,		2
29	Performance of almost edgeless silicon detectors in CTS and 3D-planar technologies. <i>Journal of Instrumentation</i> , <b>2013</b> , 8, P06009-P06009	1	1
28	La classe des projections equidistantes dans les méridiens et dans les parallèles. <i>Studia Geophysica Et Geodaetica</i> , <b>1977</b> , 21, 118-126	0.7	1
27	On the method of determining the external gravity field on a limited territory. <i>Studia Geophysica Et Geodaetica</i> , <b>1970</b> , 14, 226-242	0.7	1
26	Bedeutung von Transformationen in der Photogrammetrie. <i>Studia Geophysica Et Geodaetica</i> , <b>1971</b> , 15, 409-415	0.7	1
25	Adjustment of a spatial network according to conditional observations when various kinds of corrections are introduced. <i>Studia Geophysica Et Geodaetica</i> , <b>1972</b> , 16, 209-220	0.7	1
24	Some methods of adjusting a terrestrial spatial network (Part 1). <i>Studia Geophysica Et Geodaetica</i> , <b>1973</b> , 17, 81-99	0.7	1
23	Anwendung der Abbildung einer Rotationsfläche auf eine Kugel für die Übertragung von Koordinaten bei größeren Entfernungen zwischen den Punkten. <i>Studia Geophysica Et Geodaetica</i> , <b>1957</b> , 1, 197-224	0.7	1
22	Entwurf eines zweckmäßigen Koordinatensystems auf der approximativen Geoidfläche zur Bestimmung ihres Verlaufes. <i>Studia Geophysica Et Geodaetica</i> , <b>1965</b> , 9, 178-185	0.7	1
21	Study of the $(\mathbf{B}^+ \rightarrow \mathbf{J}/\psi \overline{\Lambda} \mathbf{p})$ decay in proton-proton collisions at $(\sqrt{s}) = 8$ TeV. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1	5.4	1
20	Beam-Background Tests with TOTEM Roman Pot Detectors at the LHC Injection Energy. <i>Instruments</i> , <b>2018</b> , 2, 20	1.2	1
19	Search for flavor-changing neutral current interactions of the top quark and the Higgs boson decaying to a bottom quark-antiquark pair at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	1
18	Measurement of single-diffractive dijet production in proton-proton collisions at with the CMS and TOTEM experiments. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1164	4.2	0
17	Inclusive and differential cross section measurements of single top quark production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	0

16	Characterisation of the dip-bump structure observed in proton-proton elastic scattering at $\sqrt{s} = 8$ TeV. <i>European Physical Journal C</i> , <b>2022</b> , 82, 1	4.2	○
15	Search for low-mass dilepton resonances in Higgs boson decays to four-lepton final states in proton-proton collisions at .. <i>European Physical Journal C</i> , <b>2022</b> , 82, 290	4.2	○
14	Search for supersymmetry in final states with two or three soft leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	○
13	Search for a right-handed W boson and a heavy neutrino in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	○
12	Search for a heavy resonance decaying into a top quark and a W boson in the lepton+jets final state at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	○
11	Search for heavy resonances decaying to ZZ or ZW and axion-like particles mediating nonresonant ZZ or ZH production at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	○
10	Measurement and QCD analysis of double-differential inclusive jet cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	○
9	Status of the TOTEM experiment at LHC. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2013</b> , 718, 21-25	1.2	
8	Evaluation of low-count spectra without binning. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2008</b> , 594, 97-101	1.2	
7	Some methods of adjusting a terrestrial spatial network (part 2). <i>Studia Geophysica Et Geodaetica</i> , <b>1975</b> , 19, 330-349	0.7	
6	Über isozentrale Abbildungen. <i>Studia Geophysica Et Geodaetica</i> , <b>1977</b> , 21, 99-102	0.7	
5	Zur Anwendung der Raumabbildung in der Geodäsie. <i>Studia Geophysica Et Geodaetica</i> , <b>1971</b> , 15, 254-262	0.7	
4	Volles Gewicht einer im Refraktionsmilieu gemessenen Größe (Teil II). <i>Studia Geophysica Et Geodaetica</i> , <b>1971</b> , 15, 263-274	0.7	
3	The effect of initial data in adjusting conditional observations. <i>Studia Geophysica Et Geodaetica</i> , <b>1973</b> , 17, 100-105	0.7	
2	Study of dijet events with large rapidity separation in proton-proton collisions at $\sqrt{s} = 2.76$ TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	
1	Measurement of the inclusive $\overline{\text{t}}\text{t}$ production cross section in proton-proton collisions at $\sqrt{s} = 5.02$ TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	