

# Thomas Teubner

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2720403/publications.pdf>

Version: 2024-02-01

80  
papers

5,990  
citations

147801

31  
h-index

91884

69  
g-index

80  
all docs

80  
docs citations

80  
times ranked

5953  
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement of the Positive Muon Anomalous Magnetic Moment to 0.46Åppm. Physical Review Letters, 2021, 126, 141801.	7.8	991
2	The anomalous magnetic moment of the muon in the Standard Model. Physics Reports, 2020, 887, 1-166.	25.6	790
3	( $g-2$ ) and $a_\mu$ re-evaluated using new precise data. Journal of Physics G: Nuclear and Particle Physics, 2011, 38, 085003.	3.6	577
4	Muon $g-2$ and $a_\mu$ re-evaluated using new precise data. Journal of Physics G: Nuclear and Particle Physics, 2011, 38, 085003.	4.7	484
5	Muon $g-2$ and $a_\mu$ re-evaluated using new precise data. Journal of Physics G: Nuclear and Particle Physics, 2011, 38, 085003.	4.7	357
6	muonium Physics with $e^+e^-$ linear colliders. Physics Reports, 1998, 299, 1-78.	25.6	274
7	Quest for precision in hadronic cross sections at low energy: Monte Carlo tools vs. experimental data. European Physical Journal C, 2010, 66, 585-686.	3.9	270
8	Improved predictions for of the muon and. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 649, 173-179.	4.1	221
9	Predictions for $g-2$ of the muon and $a_\mu$ QED(MZ2). Physical Review D, 2004, 69, .	4.7	185
10	The SM prediction of $g-2$ of the muon. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 557, 69-75.	4.1	106
11	Measurement of the anomalous precession frequency of the muon in the Fermilab Muon $g-2$ Experiment. Physical Review D, 2021, 103, .	4.7	105
12	Top-quark pair production close to threshold: Top-quark mass, width, and momentum distribution. Physical Review D, 1999, 60, .	4.7	88
13	Probes of the small $x$ gluon via exclusive $J/\psi$ and $\Upsilon$ production at HERA and the LHC. Journal of High Energy Physics, 2013, 2013, 1.	4.7	84
14	Radiation of light fermions in heavy fermion production. Nuclear Physics B, 1995, 452, 173-187.	2.5	71
15	Top quark pair production at threshold: Complete next-to-next-to-leading order relativistic corrections. Physical Review D, 1998, 58, .	4.7	67
16	$Q^2$ dependence of diffractive vector meson electroproduction. Physical Review D, 2000, 62, .	4.7	67
17	QCD description of diffractive meson electroproduction. Physical Review D, 1997, 55, 4329-4337.	4.7	61
18	Diffractive open charm production at HERA. Zeitschrift für Physik C-Particles and Fields, 1997, 74, 671-685.	1.5	58

#	ARTICLE	IF	CITATIONS
19	Angular distributions of massive quarks and leptons close to threshold. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 359, 355-361.	4.1	56
20	Renormalization-Group Improved Calculation of Top-Quark Production Near Threshold. Physical Review Letters, 2001, 86, 1951-1954.	7.8	56
21	Threshold $\hat{\sigma}$ -cross section at next-to-next-to-leading logarithmic order. Physical Review D, 2001, 65, .	4.7	55
22	Momentum distributions in $t\bar{t}$ production and decay near threshold. Zeitschrift für Physik C-Particles and Fields, 1992, 56, 653-660.	1.5	54
23	Magnetic-field measurement and analysis for the Muon $g-2$ Experiment at Fermilab. Physical Review A, 2021, 103, .	4.5	52
24	Strange and charm quark contributions to the anomalous magnetic moment of the muon. Physical Review D, 2014, 89, .	4.7	53
25	Top-Antitop Pair Production Close to Threshold Synopsis of Recent NNLO Results. EPJ Direct, 2000, 2, 1-22.	0.1	52
26	Radiation of heavy quarks. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 338, 330-335.	4.1	47
27	Hadronic contributions to the anomalous magnetic moment of the electron and the hyperfine splitting of muonium. Nuclear Physics B, 2013, 867, 236-243.	2.5	44
28	Small $x$ gluon from exclusive $J/\psi$ production. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 662, 252-258.	4.1	42
29	$\bar{\nu}$ photoproduction at HERA compared to estimates of perturbative QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 454, 339-345.	4.1	40
30	Update of $\langle \sigma \rangle$ of the muon and $\bar{\nu}$ . Chinese Physics C, 2010, 34, 728-734.	3.7	38
31	Polarization in top quark pair production near threshold. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 346, 137-142.	4.1	34
32	Beam dynamics corrections to the Run-1 measurement of the muon anomalous magnetic moment at Fermilab. Physical Review Accelerators and Beams, 2021, 24, .	1.6	32
33	Exclusive $J/\psi$ and $\bar{\nu}$ photoproduction and the low $x$ gluon. Journal of Physics G: Nuclear and Particle Physics, 2016, 43, 035002.	3.6	31
34	Massive quark production in electron positron annihilation to order $\alpha_s^2$ . European Physical Journal C, 1998, 2, 137-150.	3.9	30
35	Combination of KLOE $\bar{\nu}$ ( $e^+e^- \rightarrow \bar{\nu} + \bar{\nu} + \bar{\nu}$ ) measurements and determination of $\alpha_{\mu}^{\pi^+\pi^+}$ in the energy range $0.10 < s < 0.95 \text{ GeV}^2$ . Journal of High Energy Physics, 2018, 2018, 1.	4.7	30
36	The exclusive $J/\psi$ process at the LHC tamed to probe the low $x$ gluon. European Physical Journal C, 2016, 76, 1.	3.9	28

#	ARTICLE	IF	CITATIONS
37	Double bubble corrections to heavy quark production. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 384, 233-240.	4.1	23
38	How to include exclusive $J/\psi$ production data in global PDF analyses. Physical Review D, 2020, 101, .	4.7	20
39	Strong coupling from $J/\psi$ production data below charm. Physical Review D, 2018, 98, .	4.7	19
40	Analytic calculation of two-loop corrections to heavy quark pair production vertices induced by light quarks. Nuclear Physics B, 1998, 519, 285-328.	2.5	17
41	The Measurement of the Anomalous Magnetic Moment of the Muon at Fermilab. Journal of Physical and Chemical Reference Data, 2015, 44, .	4.2	17
42	Exclusive $J/\psi$ production at the LHC in the $k_T$ factorisation approach. Journal of Physics G: Nuclear and Particle Physics, 2017, 44, 03LT01.	3.6	17
43	$g_{\mu}^2$ of the muon: status report. Nuclear and Particle Physics Proceedings, 2017, 287-288, 33-38.	0.5	17
44	Momentum distributions in $t\bar{t}$ production and decay near threshold. Zeitschrift für Physik C-Particles and Fields, 1993, 59, 669-675.	1.5	16
45	Generalised parton distributions at small $x$ . European Physical Journal C, 2009, 63, 57-67.	3.9	16
46	Very low $x$ gluon density determined by LHCb exclusive $J/\psi$ data. Physical Review D, 2020, 102, .	4.7	16
47	Extracting $\alpha_s$ from electron-positron annihilation around 10 GeV. Physical Review D, 1997, 56, 3011-3018.	4.7	15
48	Determination of the strong coupling constant from the CLEO measurement of the total hadronic cross section in $e^+e^-$ annihilation below 10.56 GeV. Physical Review D, 2007, 76, .	4.7	14
49	Fully-differential top-pair production at a lepton collider: from threshold to continuum. Journal of High Energy Physics, 2018, 2018, 1.	4.7	14
50	Perturbative QCD potential and $\theta$ threshold. Physical Review D, 1998, 58, .	4.7	13
51	Skewed parton distributions and $F_2^D$ at $\hat{s} \hat{t}^2$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 498, 16-22.	4.1	12
52	Predictions of exclusive $\Upsilon(2S)$ production at the LHC. Journal of Physics G: Nuclear and Particle Physics, 2014, 41, 055009.	3.6	12
53	Axial contributions at the top threshold. European Physical Journal C, 1999, 9, 221-228.	3.9	11
54	Mixed Leptonic and Hadronic Corrections to the Anomalous Magnetic Moment of the Muon. Physical Review Letters, 2022, 128, 112002.	7.8	11

#	ARTICLE	IF	CITATIONS
55	Hadron radiation in leptonic Z decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 325, 495-499.	4.1	10
56	Diffraction electroproduction of meson excitations. Physical Review D, 1997, 56, 3007-3010.	4.7	10
57	Multi-jet events in the k <sub>T</sub> -factorisation scheme. European Physical Journal C, 2008, 58, 17-28.	3.9	9
58	Hadron radiation in J/ψ-production and the leptonic Z boson decay rate. Nuclear Physics B, 1995, 455, 3-20.	2.5	7
59	Diffraction Production of Vector Mesons and the Gluon at small x. AIP Conference Proceedings, 2005, , .	0.4	5
60	Automation of NLO processes and decays and POWHEG matching in WHIZARD. Journal of Physics: Conference Series, 2016, 762, 012059.	0.4	5
61	Exclusive heavy vector meson electroproduction to NLO in collinear factorisation. Journal of High Energy Physics, 2021, 2021, 1.	4.7	5
62	Hadronic Contributions to the theoretical value of α <sub>s</sub> and α <sub>s</sub> (M <sub>Z</sub> ). Nuclear Physics, Section B, Proceedings Supplements, 2008, 181-182, 20-25.	0.4	4
63	α <sub>s</sub> of the muon and α <sub>s</sub> (M <sub>Z</sub> ) re-evaluated. Nuclear Physics, Section B, Proceedings Supplements, 2011, 218, 225-230.	0.4	4
64	α <sub>s</sub> and α <sub>s</sub> (M <sub>Z</sub> ): Status of the Standard Model predictions. Nuclear Physics, Section B, Proceedings Supplements, 2012, 225-227, 282-287.	0.4	4
65	Predictions of exclusive J/ψ photoproduction at the LHC and future colliders. Physical Review D, 2022, 105, .	4.7	4
66	Hadronic contributions to α <sub>s</sub> (M <sub>Z</sub> ) and α <sub>s</sub> (M <sub>Z</sub> ). Nuclear Physics, Section B, Proceedings Supplements, 2004, 131, 201-209.	0.4	3
67	The anomalous anomaly. Nature Physics, 2018, 14, 1148-1148.	16.7	3
68	Theoretical evaluations of the running alpha and the muon magnetic moment. European Physical Journal C, 2004, 33, s653-s655.	3.9	2
69	α <sub>s</sub> (M <sub>Z</sub> ) and α <sub>s</sub> (M <sub>Z</sub> ): recent developments and status report. , 2011, , .		1
70	Physics of the Top Quark at Future Lepton Colliders. Journal of Physics: Conference Series, 2013, 452, 012043.	0.4	1
71	Exclusive J/ψ and Upsilon photoproduction and the low x gluon. , 2016, , .		1
72	Upsilon photoproduction at HERA in perturbative QCD. Nuclear Physics, Section B, Proceedings Supplements, 1999, 79, 359-361.	0.4	0

#	ARTICLE	IF	CITATIONS
73	The SM prediction of $g_{\mu}^{\prime 2}$ of the muon. Nuclear Physics, Section B, Proceedings Supplements, 2003, 117, 216-219.	0.4	0
74	Status of $\hat{\Gamma}_{\pm}^{\text{had}}$ and $g_{\mu}^{\prime 2}$ . Journal of Physics: Conference Series, 2008, 110, 042031.	0.4	0
75	Status and prospects of $(g_{\mu}^{\prime 2})_{\text{sub } \hat{1}/4}$ and $\hat{\Gamma}_{\pm}^{\text{QED}}$ . , 2008, , .		0
76	HADRONIC VACUUM POLARISATION IN $g_{\mu}^{\prime 2}$ AND $\hat{\Gamma}_{\pm}^{\text{QED}}$ . International Journal of Modern Physics Conference Series, 2014, 35, 1460406.	0.7	0
77	The strange and charm quark contributions to the anomalous magnetic moment of the muon from lattice QCD. Nuclear and Particle Physics Proceedings, 2016, 273-275, 1645-1649.	0.5	0
78	Exclusive $J/\psi$ process Tamed to probe the low-x gluon. AIP Conference Proceedings, 2017, , .	0.4	0
79	The strong coupling from $e^+e^- \rightarrow \text{hadrons}$ . , 2019, , .		0
80	Theory of Elastic Vector Meson Production. , 2000, , 349-360.		0