

Zbigniew was

List of Publications by Year in descending order

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114
papers

7,579
citations

109321

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87
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117
all docs

117
docs citations

117
times ranked

6725
citing authors

#	ARTICLE	IF	CITATIONS
1	PHOTOS Monte Carlo: a precision tool for QED corrections in Z and W decays. European Physical Journal C, 2006, 45, 97-107.	3.9	798
2	The precision Monte Carlo event generator for two-fermion final states in collisions. Computer Physics Communications, 2000, 130, 260-325.	7.5	769
3	PHOTOS - a universal Monte Carlo for QED radiative corrections: version 2.0. Computer Physics Communications, 1994, 79, 291-308.	7.5	593
4	The τ , decay library TAUOLA, version 2.4. Computer Physics Communications, 1993, 76, 361-380.	7.5	562
5	Coherent exclusive exponentiation for precision Monte Carlo calculations. Physical Review D, 2001, 63, .	4.7	551
6	The Monte Carlo program KORALZ version 4.0 for lepton or quark pair production at LEP/SLC energies. Computer Physics Communications, 1994, 79, 503-522.	7.5	340
7	TAUOLA - a library of Monte Carlo programs to simulate decays of polarized τ , leptons. Computer Physics Communications, 1991, 64, 275-299.	7.5	320
8	A standard format for Les Houches Event Files. Computer Physics Communications, 2007, 176, 300-304.	7.5	295
9	Photos - a universal Monte Carlo for QED radiative corrections in decays. Computer Physics Communications, 1991, 66, 115-128.	7.5	290
10	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
11	PHOTOS interface in C++. Computer Physics Communications, 2016, 199, 86-101.	7.5	191
12	The Monte Carlo program KORALZ, version 3.8, for the lepton or quark pair production at LEP/SLC energies. Computer Physics Communications, 1991, 66, 276-292.	7.5	174
13	Monte Carlo simulation of the process $e^+e^- \rightarrow \tau^+\tau^- \gamma, \tau^+\tau^- \gamma \gamma, \tau^+\tau^- \gamma \gamma \gamma$ including radiative ($\hat{1} \pm 3$) QED corrections, mass and spin effects. Computer Physics Communications, 1985, 36, 191-211.	7.5	154
14	Monte Carlo program BHLUMI 2.01 for Bhabha scattering at low angles with Yennie-Frautschi-Suura exponentiation. Computer Physics Communications, 1992, 70, 305-344.	7.5	148
15	Initial state QED corrections to W-pair production at LEP2/NLC - Monte Carlo versus semi-analytical approach. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 372, 289-298.	4.1	121
16	Universal interface of TAUOLA: Technical and physics documentation. Computer Physics Communications, 2012, 183, 821-843.	7.5	115
17	KORALB - an upgrade to version 2.4. Computer Physics Communications, 1995, 85, 453-462.	7.5	85
18	Monte Carlo program KoralW 1.42 for all four-fermion final states in e^+e^- collisions. Computer Physics Communications, 1999, 119, 272-311.	7.5	80

#	ARTICLE	IF	CITATIONS
37	TauSpinner program for studies on spin effect in tau production at the LHC. European Physical Journal C, 2012, 72, 1.	3.9	35
38	The Monte Carlo program KORALZ, for the lepton or quark pair production at LEP/SLC energies From version 4.0 to version 4.04. Computer Physics Communications, 2000, 124, 233-237.	7.5	31
39	QCD and QED corrections to the longitudinal polarization asymmetry. Zeitschrift für Physik C-Particles and Fields, 1988, 38, 609-617.	1.5	30
40	The present theoretical error on the Bhabha scattering cross section in the luminometry region at LEP. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 383, 238-242.	4.1	30
41	Precision predictions for (un)stable $W+W^*$ pair production at and beyond CERN LEP2 energies. Physical Review D, 2002, 65, .	4.7	30
42	Suppression of QED interference contributions to the charge asymmetry at the Z0 resonance. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 219, 103-106.	4.1	29
43	First- and higher-order noninterference QED radiative corrections to the charge asymmetry at the Z resonance. Physical Review D, 1990, 41, 1425-1437.	4.7	29
44	Scalar QED, NLO and PHOTOS Monte Carlo. European Physical Journal C, 2007, 51, 569-583.	3.9	28
45	TAUOLA as tau Monte Carlo for future applications. Nuclear Physics, Section B, Proceedings Supplements, 2005, 144, 88-94.	0.4	27
46	Global positioning of spin GPS scheme for half-spin massive spinors. European Physical Journal C, 2001, 22, 423-430.	3.9	23
47	Ascertaining the spin for new resonances decaying into $\mathbb{A}^+ \mathbb{A}^-$ at hadron colliders. European Physical Journal C, 2013, 73, 1.	3.9	23
48	KK MC 4.22: Coherent exclusive exponentiation of electroweak corrections for $f\bar{f}$ production at the LHC and muon colliders. Physical Review D, 2013, 88, .	4.7	22
49	MC-TESTER: a universal tool for comparisons of Monte Carlo predictions for particle decays in high energy physics. Computer Physics Communications, 2004, 157, 39-62.	7.5	21
50	Predictions for $u\bar{u}\gamma$ production at LEP. European Physical Journal C, 2002, 24, 373-383.	3.9	17
51	On theoretical uncertainties of the W boson mass measurement at LEP2. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 523, 117-126.	4.1	16
52	MC-TESTER v. 1.23: A universal tool for comparisons of Monte Carlo predictions for particle decays in high energy physics. Computer Physics Communications, 2011, 182, 779-789.	7.5	15
53	QED bremsstrahlung in decays of electroweak bosons. European Physical Journal C, 2013, 73, 1.	3.9	15
54	Application of TauSpinner for Studies on τ -Lepton Polarization and Spin Correlations in $Z\tau^+\tau^-$, $W^+W^-\tau^+\tau^-$ and $H\tau^+\tau^-$ Decays at the LHC. Acta Physica Polonica B, 2014, 45, 1921.	0.8	15

#	ARTICLE	IF	CITATIONS
55	TauSpinner: a tool for simulating CP effects in $H \rightarrow \tau \tau$, $H \rightarrow \tau \tau$, decays at LHC. European Physical Journal C, 2014, 74, 1.	3.9	14
56	TAUOLA of τ , lepton decays framework for hadronic currents, matrix elements and anomalous decays. Computer Physics Communications, 2018, 232, 220-236.	7.5	13
57	Potential for optimizing the Higgs boson $C \rightarrow P$ measurement in $H \rightarrow H$ decays at the LHC including machine learning techniques. Physical Review D, 2016, 94, .	4.7	12
58	Separating electroweak and strong interactions in Drell-Yan processes at LHC: leptons angular distributions and reference frames. European Physical Journal C, 2016, 76, 1.	3.9	12
59	Initial-final-state interference in the Z line-shape. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 465, 254-259.	4.1	11
60	Uncertainties in τ , polarization measurement at SLC/LEP and QED/electroweak radiative corrections. Zeitschrift für Physik C-Particles and Fields, 1989, 43, 109-116.	1.5	10
61	Matching NLO parton shower matrix element with exact phase space: case of $W \rightarrow l \bar{l}$ and $\tau \rightarrow e \bar{e}$. European Physical Journal C, 2010, 70, 673-688.	3.9	10
62	Study of variants for Monte Carlo generators of $W \rightarrow l \bar{l}$, $\tau \rightarrow e \bar{e}$ decays. European Physical Journal C, 2015, 75, 1.	3.9	10
63	W production at LHC: lepton angular distributions and reference frames for probing hard QCD. European Physical Journal C, 2017, 77, 1.	3.9	10
64	Documentation of TauSpinner algorithms: program for simulating spin effects in $W \rightarrow l \bar{l}$, lepton production at LHC. European Physical Journal C, 2019, 79, 1.	3.9	10
65	The cross section and invisible width measurement at LEP. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 246, 541-545.	4.1	9
66	Complete standard model predictions for the muon forward-backward asymmetry at LEP. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 257, 213-218.	4.1	9
67	High-precision improved-analytic-exponentiation results for multiple-photon effects in low-angle Bhabha scattering at the SLAC Linear Collider and the CERN e ⁺ e ⁻ collider LEP. Physical Review D, 1991, 44, 2669-2677.	4.7	9
68	Gauge invariance, infrared/collinear singularities and tree level matrix element for $e^+ e^- \rightarrow u \bar{u} \gamma \gamma$. European Physical Journal C, 2005, 44, 489-503.	3.9	9
69	CP violation in decays. Nuclear Physics B, 2005, 713, 555-574.	2.5	9
70	KK MC-hh: Resumed exact $O(\alpha_s^2)$ generator. Physical Review D, 2016, 94, .		
71	Production of $W \rightarrow l \bar{l}$ final states at the LHC and the TauSpinner algorithm: the spin-2 case. European Physical Journal C, 2018, 78, 1.	3.9	9
72	Deep learning approach to the Higgs boson $C \rightarrow P$ measurement in $H \rightarrow H$ decay and associated systematics. Physical Review D, 2017, 96, .	4.7	8

#	ARTICLE	IF	CITATIONS
73	How to generate four-fermion phase space. Computer Physics Communications, 2000, 125, 8-20.	7.5	7
74	Gauge-invariant sub-structures of tree-level double-emission exact QCD spin amplitudes. European Physical Journal C, 2009, 61, 33-49.	3.9	7
75	Extra Lepton Pair Emission Corrections to Drell–Yan Processes in PHOTOS and SANC. Acta Physica Polonica B, 2017, 48, 1469.	0.8	7
76	Four-quark final state in W^+W^- -pair production: Case of signal and background. European Physical Journal C, 1998, 4, 75-84.	3.9	6
77	Higher-order QED corrections to $e^+e^- \rightarrow \nu\bar{\nu}\gamma$ at LEP2. European Physical Journal C, 1999, 6, 485-491.	3.9	5
78	Library of SM and anomalous couplings for the Monte Carlo programs. Computer Physics Communications, 2000, 124, 238-242.	7.5	5
79	Electric charge screening effect in single-W production with the KoralW Monte Carlo. European Physical Journal C, 2003, 27, 19-32.	3.9	5
80	Why do we need higher-order fully exclusive Monte Carlo generator for Higgs boson production from heavy quark fusion at LHC?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 589, 125-134.	4.1	5
81	Production of S_{uptau} , lepton pairs with high p_{T} jets at the LHC and the TauSpinner reweighting algorithm. European Physical Journal C, 2016, 76, 1.	3.9	5
82	Systematic studies of exact $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">\langle \text{mml:mi mathvariant="script">O</mml:mi>\langle \text{mml:mo stretchy="false">(\langle \text{mml:mo}</mml:mo>\langle \text{mml:msup}</mml:msup>\langle \text{mml:mi}>\hat{1}\pm</mml:mi>\langle \text{mml:mn}>2</mml:mn>\langle \text{mml:msup}</mml:msup>\langle \text{mml:mi}>L</mml:mi>\langle \text{mml:mo}</mml:mo>\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">\langle \text{mml:mi}>Z</mml:mi>\langle \text{mml:mo stretchy="false">(\langle \text{mml:mo}</mml:mo>\langle \text{mml:msup}</mml:msup>\langle \text{mml:mi}>\hat{1}\pm</mml:mi>\langle \text{mml:mn}>2</mml:mn>\langle \text{mml:msup}</mml:msup>\langle \text{mml:mi}>L</mml:mi>\langle \text{mml:mo}</mml:mo}</mml:math>$ production. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 351, 562-568.	4.7	5
83	On the feasibility of measuring transverse spin effects in $l^+l^- \rightarrow \gamma^* \rightarrow \mu^+\mu^-$ production. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 351, 562-568.	4.1	4
84	NEW RESULTS ON PRECISION STUDIES OF HEAVY VECTOR BOSON PHYSICS. International Journal of Modern Physics A, 2005, 20, 3258-3262.	1.5	4
85	PHOTOS Monte Carlo and its theoretical accuracy. Nuclear Physics, Section B, Proceedings Supplements, 2008, 181-182, 269-274.	0.4	4
86	TAUOLA for simulation of tau decay and production: perspectives for precision low energy and LHC applications. Nuclear Physics, Section B, Proceedings Supplements, 2011, 218, 249-255.	0.4	4
87	Theoretical inputs and errors in the new hadronic currents in TAUOLA. , 2012, , .		4
88	Observable $\langle \text{mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x$	4.1	4
89	Machine learning classification: Case of Higgs boson CP state in $H \rightarrow \tau^+\tau^-$ decay at the LHC. Physical Review D, 2019, 100, .	4.7	4
90	Adequacy of Effective Born for electroweak effects and TauSpinner algorithms for high energy physics simulated samples. European Physical Journal Plus, 2022, 137, 1.	2.6	4

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91	How to measure the structure of the weak charged current in semileptonic b decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 332, 168-176.	4.1	3
92	Precision simulations with TAUOLA and PHOTOS. Nuclear Physics, Section B, Proceedings Supplements, 2007, 169, 16-21.	0.4	3
93	News on PHOTOS Monte Carlo: $\hat{\Gamma}^3 * \hat{\alpha}^{\prime} \hat{\Gamma}^{\epsilon} + \hat{\Gamma}^{\epsilon} \hat{\alpha}^{\prime} (\hat{\Gamma}^3)$ and $K \hat{\Delta}_{\pm} \hat{\alpha}^{\prime} \hat{\Gamma}^{\epsilon} + \hat{\Gamma}^{\epsilon} \hat{\alpha}^{\prime} e \hat{\Delta}_{\pm} \hat{\Gamma}^{1/2}(\hat{\Gamma}^3)$. Chinese Physics C, 2010, 34, 7889-895.		
94	MC generator TAUOLA: Implementation of resonance chiral theory for two and three meson modes. Comparison with experiment. , 2012, , .		3
95	Bremsstrahlung simulation in $K \hat{\Delta}_{\pm} \hat{\Gamma}^{\epsilon} \hat{\Delta}_{\pm} \hat{\Gamma}^{1/2} (\hat{\Gamma}^3)$ decays. European Physical Journal C, 2012, 72, 1.	3.9	3
96	RChL currents in Tauola: implementation and fit parameters. Nuclear Physics, Section B, Proceedings Supplements, 2014, 253-255, 73-76.	0.4	3
97	The $\hat{\Gamma}$, leptons theory and experimental data: Monte Carlo, fits, software and systematic errors. Nuclear and Particle Physics Proceedings, 2015, 260, 47-51.	0.5	3
98	Documentation of TauSpinner approach for electroweak corrections in LHC $\hat{\Delta}_{\pm} \hat{\Gamma}^{\epsilon} \hat{\Delta}_{\pm} \hat{\Gamma}^{\epsilon}$ observables. European Physical Journal C, 2019, 79, 1.	3.9	3
99	e^+e^- annihilation into hadrons at LEP2 in the presence of the anomalous DESY positron-jet event phenomenon. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 408, 281-287.	4.1	2
100	Trefoil knot and ad-hoc classification of elementary fields in the Standard Model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 416, 369-372.	4.1	2
101	TAUOLA, TAUOLA universal interface PHOTOS and MC-TESTER: Status Report. Nuclear Physics, Section B, Proceedings Supplements, 2009, 189, 43-48.	0.4	2
102	Constrained MC for QCD evolution with rapidity ordering and minimum kT. Computer Physics Communications, 2009, 180, 675-698.	7.5	2
103	Deep neural network application: Higgs boson CP state mixing angle in $H \hat{\Delta}_{\pm} \hat{\Gamma}^{\epsilon} \hat{\Delta}_{\pm} \hat{\Gamma}^{\epsilon}$ decay and at the LHC. Physical Review D, 2021, 103, .	4.7	2
104	Library of anomalous couplings for Monte Carlo programs. Computer Physics Communications, 2000, 124, 243-246.	7.5	1
105	Tau lepton production and decays: perspective of multi-dimensional distributions and Monte Carlo methods. Nuclear and Particle Physics Proceedings, 2017, 287-288, 15-18.	0.5	1
106	Systematic of TauSpinner for $\hat{\Delta}_{\pm} \hat{\Gamma}^{\epsilon} \hat{\Delta}_{\pm} \hat{\Gamma}^{\epsilon}$ Pairs With Two Hard Jets and Its Recent Development. Acta Physica Polonica B, 2017, 48, 903.	0.8	1
107	QED corrections to small angle Bhabha and quark-electron scattering. Nuclear Physics, Section B, Proceedings Supplements, 1992, 29, 258-262.	0.4	0
108	Precision W-pair physics with the YFSWW3 and KoralW Monte Carlos. Nuclear Physics, Section B, Proceedings Supplements, 2003, 116, 358-362.	0.4	0

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109	Title is missing!. Acta Physica Polonica B, 2011, 42, 1679.	0.8	0
110	New hadronic currents in TAUOLA: for confrontation with the experimental data. Nuclear Physics, Section B, Proceedings Supplements, 2012, 225-227, 190-194.	0.4	0
111	Title is missing!. Acta Physica Polonica B, 2013, 44, 1645. CEEX EW Corrections for $\langle \text{mml:math altimg="si1.gif" overflow="scroll"} \rangle$	0.8	0
112	CEEX EW Corrections for $\langle \text{mml:math altimg="si1.gif" overflow="scroll"} \rangle$ XML Schema Instance	0.5	0
113	Automated calculation of matrix elements and physics motivated observables. Journal of Physics: Conference Series, 2017, 920, 012008.	0.4	0
114	Optimizing Higgs Boson CP Measurement in \sqrt{s} Au Au Decay With ML Techniques. Acta Physica Polonica B, 2017, 48, 1049.	0.8	0