

Helio da Motta

List of Publications by Citations

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298
papers

10,610
citations

50
h-index

78
g-index

305
ext. papers

11,395
ext. citations

6
avg, IF

2.76
L-index

#	Paper	IF	Citations
298	The upgraded DØ detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006 , 565, 463-537	1.2	465
297	Observation and properties of the X(3872) decaying to J/ψπ ⁺ π ⁻ in pp collisions at sqrt[s]=1.96 TeV. <i>Physical Review Letters</i> , 2004 , 93, 162002	7.4	408
296	A precision measurement of the mass of the top quark. <i>Nature</i> , 2004 , 429, 638-42	50.4	202
295	Measurement of the forward-backward charge asymmetry in top-quark pair production. <i>Physical Review Letters</i> , 2008 , 100, 142002	7.4	183
294	Direct limits on the oscillation frequency. <i>Physical Review Letters</i> , 2006 , 97, 021802	7.4	165
293	Measurement of B _s ⁰ mixing parameters from the flavor-tagged decay B _s ⁰ →J/ψφ. <i>Physical Review Letters</i> , 2008 , 101, 241801	7.4	156
292	Measurement of the inclusive jet cross section in pp collisions at square root [s]=1.96 TeV. <i>Physical Review Letters</i> , 2008 , 101, 062001	7.4	148
291	Measurement of muon neutrino quasielastic scattering on a hydrocarbon target at E _ν 3.5 GeV. <i>Physical Review Letters</i> , 2013 , 111, 022502	7.4	139
290	Measurement of muon antineutrino quasielastic scattering on a hydrocarbon target at E _ν 3.5 GeV. <i>Physical Review Letters</i> , 2013 , 111, 022501	7.4	119
289	Design, calibration, and performance of the MINERvA detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014 , 743, 130-159	1.2	105
288	The bb production cross section and angular correlations in pp collisions at s=1.8 TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2000 , 487, 264-272	4.2	103
287	Direct measurement of the top quark mass by the DØ Collaboration. <i>Physical Review D</i> , 1998 , 58,	4.9	98
286	Measurement of the Top Quark Mass Using Dilepton Events. <i>Physical Review Letters</i> , 1998 , 80, 2063-2068	7.4	96
285	Search for squarks and gluinos in events with jets and missing transverse energy using 2.1 fb ⁻¹ of . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2008 , 660, 449-457	4.2	95
284	Direct Measurement of the Top Quark Mass. <i>Physical Review Letters</i> , 1997 , 79, 1197-1202	7.4	88
283	Evidence for production of single top quarks and first direct measurement of V _{tb} . <i>Physical Review Letters</i> , 2007 , 98, 181802	7.4	86
282	Direct observation of the strange b baryon Ξ _b ⁻ . <i>Physical Review Letters</i> , 2007 , 99, 052001	7.4	86

281	production in collisions at. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996 , 370, 239-248	4.2	85
280	Measurement of the shape of the boson-transverse momentum distribution in $pp \rightarrow Z/\gamma^* \rightarrow e^+e^- + X$ events produced at square root $s = 1.96$ TeV. <i>Physical Review Letters</i> , 2008 , 100, 102002	7.4	83
279	Search for light top squarks in pp -bar collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , 1996 , 76, 2222-2227	7.4	81
278	Search for Charged Higgs Bosons in Decays of Top Quark Pairs. <i>Physical Review Letters</i> , 1999 , 82, 4975-4980	7.4	78
277	Measurement of the top quark mass in the dilepton channel. <i>Physical Review D</i> , 1999 , 60,	4.9	73
276	Observation of the B_c meson in the exclusive decay $B_c \rightarrow J/\psi \pi$. <i>Physical Review Letters</i> , 2008 , 101, 012001	7.4	72
275	Evidence for production of single top quarks. <i>Physical Review D</i> , 2008 , 78,	4.9	69
274	Measurement of the Top Quark Pair Production Cross Section in pp Collisions. <i>Physical Review Letters</i> , 1997 , 79, 1203-1208	7.4	67
273	Cross section for b-Jet production in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV. <i>Physical Review Letters</i> , 2000 , 85, 5068-73	7.4	65
272	Forward Cross Sections for Production of D^+ , D^0 , D_s , D_s^* , and Λ_c in 250 GeV π^+/π^- , K^+/π^- , and p Interactions with Nuclei. <i>Physical Review Letters</i> , 1996 , 77, 2388-2391	7.4	65
271	Observation of the doubly strange b baryon Ω_{cb} . <i>Physical Review Letters</i> , 2008 , 101, 232002	7.4	64
270	Measurement of the isolated photon cross section in . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2006 , 639, 151-158	4.2	64
269	Measurement of dijet azimuthal decorrelations at central rapidities in pp collisions at $\sqrt{s} = 1.96$ TeV. <i>Physical Review Letters</i> , 2005 , 94, 221801	7.4	64
268	Search for doubly charged higgs boson pair production in the decay to $\mu^+\mu^+\mu^-\mu^-$ in pp collisions at $\sqrt{s}=1.96$ TeV. <i>Physical Review Letters</i> , 2004 , 93, 141801	7.4	63
267	Search for right-handed W bosons and heavy W_L in pp -bar collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , 1996 , 76, 3271-3276	7.4	63
266	High- p_T jets in $p\bar{p}$ collisions at $\sqrt{s}=630$ and 1800 GeV. <i>Physical Review D</i> , 2001 , 64,	4.9	62
265	Inclusive Jet Cross Section in $p\bar{p}$ Collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , 1999 , 82, 2451-2456	7.4	62
264	Search for large extra dimensions in dielectron and diphoton production. <i>Physical Review Letters</i> , 2001 , 86, 1156-61	7.4	61

263	Extraction of the width of the W boson from measurements of $(pp \rightarrow W+X)B(W \rightarrow e\bar{\nu})$ and $(pp \rightarrow Z+X)B(Z \rightarrow ee)$ and their ratio. <i>Physical Review D</i> , 2000 , 61,	4.9	61
262	Inclusive jet production in pp(macro) collisions. <i>Physical Review Letters</i> , 2001 , 86, 1707-12	7.4	60
261	Isolated photon cross section in p&pmacr; collisions at radicals = 1. 8 TeV. <i>Physical Review Letters</i> , 2000 , 84, 2786-91	7.4	60
260	Search for associated production of charginos and neutralinos in the trilepton final state using 2.3 fb of data. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2009 , 680, 34-43	4.2	58
259	Measurement of the shape of the boson rapidity distribution for $pp \rightarrow Z/\bar{\nu} \rightarrow e+e\bar{\nu}X$ events produced at s of 1.96 TeV. <i>Physical Review D</i> , 2007 , 76,	4.9	58
258	Enhanced leading production of $D^{+/-}$ and $D^{*+/-}$ in 250 GeV pi $+/-$ -nucleon interactions. <i>Physical Review Letters</i> , 1994 , 72, 812-815	7.4	58
257	Observation and properties of the orbitally excited $B_{(s2)}(*)$ meson. <i>Physical Review Letters</i> , 2008 , 100, 082002	7.4	57
256	Measurement of the High-Mass Drell-Yan Cross Section and Limits on Quark-Electron Compositeness Scales. <i>Physical Review Letters</i> , 1999 , 82, 4769-4774	7.4	57
255	Search for the flavor-changing neutral current decay $B_0 \rightarrow \mu^+ \mu^-$ in pp Collisions at $\sqrt{s} = 1.96$ TeV with the D0 detector. <i>Physical Review Letters</i> , 2005 , 94, 071802	7.4	55
254	Dijet Mass Spectrum and a Search for Quark Compositeness in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV. <i>Physical Review Letters</i> , 1999 , 82, 2457-2462	7.4	53
253	Probing hard color-singlet exchange in pp collisions at s = 630 GeV and 1800 GeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1998 , 440, 189-202	4.2	52
252	Charged pion production in π Interactions on hydrocarbon at $\sqrt{s} = 4.0$ GeV. <i>Physical Review D</i> , 2015 , 92,	4.9	51
251	Search for large extra dimensions in the monojet+E(T) channel with the D0 detector. <i>Physical Review Letters</i> , 2003 , 90, 251802	7.4	51
250	Search for single top quark production at D using neural networks. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2001 , 517, 282-294	4.2	51
249	Search for Squarks and Gluinos in Events Containing Jets and a Large Imbalance in Transverse Energy. <i>Physical Review Letters</i> , 1999 , 83, 4937-4942	7.4	51
248	Lifetime difference and CP-violating phase in the B_{s0} system. <i>Physical Review Letters</i> , 2007 , 98, 121801	7.4	50
247	Determination of the absolute jet energy scale in the D calorimeters. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1999 , 424, 352-394	1.2	50
246	Measurement of coherent production of $(\bar{\nu})$ in neutrino and antineutrino beams on carbon from E of 1.5 to 20 GeV. <i>Physical Review Letters</i> , 2014 , 113, 261802	7.4	49

245	Measurement of the $t\bar{t}$ production cross section in pp collisions at $s=1.96$ TeV using kinematic characteristics of lepton+jets events. <i>Physical Review D</i> , 2007 , 76,	4.9	49
244	Search for scalar top quarks in the acoplanar charm jets and missing transverse energy final state in pp collisions at $s=1.96$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2008 , 665, 1-8	4.2	49
243	Measurement of the electron charge asymmetry in $pp \rightarrow W+X \rightarrow e\nu+X$ events at $\sqrt{s}=1.96$ TeV. <i>Physical Review Letters</i> , 2008 , 101, 211801	7.4	48
242	Search for new particles in the two-jet decay channel with the DØ detector. <i>Physical Review D</i> , 2004 , 69,	4.9	48
241	Measurement of the inclusive differential cross section for Z bosons as a function of transverse momentum in $p\bar{p}$ collisions at $s=1.8$ TeV. <i>Physical Review D</i> , 2000 , 61,	4.9	48
240	Measurement of the muon charge asymmetry from W boson decays. <i>Physical Review D</i> , 2008 , 77,	4.9	47
239	Properties of L=1 B(1) and B(2)* mesons. <i>Physical Review Letters</i> , 2007 , 99, 172001	7.4	47
238	Measurement of the W Boson Mass. <i>Physical Review Letters</i> , 1996 , 77, 3309-3314	7.4	47
237	Search for long-lived charged massive particles with the D0 detector. <i>Physical Review Letters</i> , 2009 , 102, 161802	7.4	46
236	Helicity of the W boson in lepton+jets . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2005 , 617, 1-10	4.2	46
235	Search for First Generation Scalar Leptoquark Pairs in pp Collisions at $s=1.8$ TeV. <i>Physical Review Letters</i> , 1998 , 80, 2051-2056	7.4	46
234	Limits on Anomalous WW Couplings from $pp \rightarrow W\bar{W}X$ Events at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , 1997 , 78, 3634-3639	7.4	45
233	Feynman-x and Transverse Momentum Dependence of D Meson Production in 250 GeV pi, K, and p Interactions with Nuclei. <i>Physical Review Letters</i> , 1996 , 77, 2392-2395	7.4	45
232	Search for Scalar Leptoquark Pairs Decaying to Electrons and Jets in $p\bar{p}$ Collisions. <i>Physical Review Letters</i> , 1997 , 79, 4321-4326	7.4	44
231	Search for W boson resonances decaying to a top quark and a bottom quark. <i>Physical Review Letters</i> , 2008 , 100, 211803	7.4	44
230	Measurement of inclusive differential cross sections for pp collisions at $(\text{square root})s = 1.96$ TeV. <i>Physical Review Letters</i> , 2005 , 94, 232001	7.4	44
229	Results of the engineering run of the Coherent Neutrino Nucleus Interaction Experiment (CONNIE). <i>Journal of Instrumentation</i> , 2016 , 11, P07024-P07024	1	43
228	Search for pair production of doubly charged Higgs bosons in the $H^{++}H^{--} \rightarrow \mu^+ \mu^+ \mu^- \mu^-$ final state. <i>Physical Review Letters</i> , 2008 , 101, 071803	7.4	43

227	Search for large extra dimensions via single photon plus missing energy final states at $\sqrt{s} = 1.96$ TeV. <i>Physical Review Letters</i> , 2008 , 101, 011601	7.4	43
226	Measurement of the top quark mass in the lepton+jets final state with the matrix element method. <i>Physical Review D</i> , 2006 , 74,	4.9	43
225	Search for production of single top quarks via tcg and tug flavor-changing-neutral-current couplings. <i>Physical Review Letters</i> , 2007 , 99, 191802	7.4	43
224	Experimental discrimination between charge $2e/3$ top quark and charge $4e/3$ exotic quark production scenarios. <i>Physical Review Letters</i> , 2007 , 98, 041801	7.4	43
223	Measurement of the W boson mass. <i>Physical Review D</i> , 1998 , 58,	4.9	43
222	Measurement of the lifetime of the $B_{c\pm}$ meson in the semileptonic decay channel. <i>Physical Review Letters</i> , 2009 , 102, 092001	7.4	42
221	Measurement of the $t\bar{t}$ production cross section in pp collisions at $\sqrt{s}=1.96$ TeV using secondary vertex b tagging. <i>Physical Review D</i> , 2006 , 74,	4.9	42
220	Measurement of muon plus proton final states in π interactions on hydrocarbon at $\langle E_{\pi} \rangle = 4.2$ GeV. <i>Physical Review D</i> , 2015 , 91,	4.9	41
219	Measurement of the differential cross section $d\sigma/dt$ in elastic pp scattering at $\sqrt{s}=1.96$ TeV. <i>Physical Review D</i> , 2012 , 86,	4.9	41
218	Combination of CDF and D0 results on the W boson mass and width. <i>Physical Review D</i> , 2004 , 70,	4.9	41
217	Measurement of the CP-violation parameter of B_0 mixing and decay with $pp \rightarrow \mu\bar{\mu}$ data. <i>Physical Review D</i> , 2006 , 74,	4.9	40
216	Search for Heavy Pointlike Dirac Monopoles. <i>Physical Review Letters</i> , 1998 , 81, 524-529	7.4	40
215	Search for W bosons decaying to an electron and a neutrino with the D0 detector. <i>Physical Review Letters</i> , 2008 , 100, 031804	7.4	39
214	Isolated Photon Cross Section in the Central and Forward Rapidity Regions in pp -bar Collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , 1996 , 77, 5011-5015	7.4	39
213	Cross sections for π^0 and η induced pion production on hydrocarbon in the few-GeV region using MINERvA. <i>Physical Review D</i> , 2016 , 94,	4.9	39
212	The CONNIE experiment. <i>Journal of Physics: Conference Series</i> , 2016 , 761, 012057	0.3	38
211	Measurement of differential $d\sigma/d\Omega$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2008 , 669, 278-286	4.2	38
210	Small Angle J/ψ Production in pp Collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , 1999 , 82, 35-40	7.4	38

209	Measurement of $\gamma+b+X$ and $\gamma+c+X$ Production Cross Sections in pp Collisions at $\sqrt{s}=1.96$ TeV. <i>Physical Review Letters</i> , 2009 , 102, 192002	7.4	37
208	Search for tt resonances in the lepton plus jets final state in pp collisions at $s=1.96$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2008 , 668, 98-104	4.2	37
207	Direct search for charged higgs bosons in decays of top quarks. <i>Physical Review Letters</i> , 2002 , 88, 151803	7.4	37
206	Small-angle muon and bottom-quark production in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV. <i>Physical Review Letters</i> , 2000 , 84, 5478-83	7.4	37
205	Measurement of neutrino flux from neutrino-electron elastic scattering. <i>Physical Review D</i> , 2016 , 93,	4.9	36
204	Measurement of Dijet Angular Distributions and Search for Quark Compositeness. <i>Physical Review Letters</i> , 1998 , 80, 666-671	7.4	36
203	Study of the ZZ and $Z\gamma$ Couplings in Z Production. <i>Physical Review Letters</i> , 1997 , 78, 3640-3645	7.4	35
202	Search for stopped gluinos from pp collisions at square root $s = 1.96$ TeV. <i>Physical Review Letters</i> , 2007 , 99, 131801	7.4	35
201	Search for squarks and gluinos in events with jets and missing transverse energy in pp collisions at $s=1.96$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2006 , 638, 119-127	4.2	35
200	Improved W boson mass measurement with the DØ detector. <i>Physical Review D</i> , 2002 , 66,	4.9	35
199	Spin correlation in $t\bar{t}$ production from $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV. <i>Physical Review Letters</i> , 2000 , 85, 256-61	7.4	35
198	Experimental Search for Chargino and Neutralino Production in Supersymmetry Models with a Light Gravitino. <i>Physical Review Letters</i> , 1998 , 80, 442-447	7.4	35
197	Measurement of ratios of ν charged-current cross sections on C, Fe, and Pb to CH at neutrino energies 2-20 GeV. <i>Physical Review Letters</i> , 2014 , 112, 231801	7.4	33
196	Model-independent measurement of the W-boson helicity in top-quark decays at DØ. <i>Physical Review Letters</i> , 2008 , 100, 062004	7.4	33
195	Ratio of isolated photon cross sections in pp collisions at square root of $s = 630$ and 1800 GeV. <i>Physical Review Letters</i> , 2001 , 87, 251805	7.4	33
194	Search for electroweak production of single top quarks in pp collisions. <i>Physical Review D</i> , 2000 , 63,	4.9	33
193	Differential production cross section of Z bosons as a function of transverse momentum at \sqrt{s} . <i>Physical Review Letters</i> , 2000 , 84, 2792-7	7.4	33
192	Feynman-x and transverse-momentum dependence of $D^{+/-}$ and D^0 , D^0 production in 250 GeV π^- -nucleon interactions. <i>Physical Review Letters</i> , 1992 , 69, 3147-3150	7.4	33

191	The inclusive jet cross section in pp collisions at $s=1.8\sqrt{s}$ TeV using the k_T algorithm. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2002 , 525, 211-218	4.2	32
190	Search for new physics in e^+e^- data at D using SLEUTH: A quasi-model-independent search strategy for new physics. <i>Physical Review D</i> , 2000 , 62,	4.9	32
189	Search for Higgs bosons decaying to tau pairs in pp over collisions with the D0 detector. <i>Physical Review Letters</i> , 2008 , 101, 071804	7.4	31
188	Measurement of the $t\bar{t}$ production cross section in pp collisions at $\sqrt{s}=1.96$ TeV. <i>Physical Review Letters</i> , 2008 , 100, 192004	7.4	31
187	Search for single top quark production in pp collisions at $s=1.96$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2005 , 622, 265-276	4.2	31
186	Measurement of the Top Quark Pair Production Cross Section in the All-Jets Decay Channel. <i>Physical Review Letters</i> , 1999 , 83, 1908-1913	7.4	31
185	Search for Diphoton Events with Large Missing Transverse Energy in pp Collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , 1997 , 78, 2070-2074	7.4	30
184	First study of the radiation-amplitude zero in $W\gamma$ production and limits on anomalous $WW\gamma$ couplings at $\sqrt{s}=1.96$ TeV. <i>Physical Review Letters</i> , 2008 , 100, 241805	7.4	30
183	Measurement of the σ_{had}/s . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2005 , 626, 35-44	4.2	30
182	Search for Randall-Sundrum gravitons in dilepton and diphoton final states. <i>Physical Review Letters</i> , 2005 , 95, 091801	7.4	30
181	Azimuthal Decorrelation of Jets Widely Separated in Rapidity. <i>Physical Review Letters</i> , 1996 , 77, 595-600	7.4	30
180	Measurement of the muon antineutrino double-differential cross section for quasielastic-like scattering on hydrocarbon at $E_{\nu}=3.5$ GeV. <i>Physical Review D</i> , 2018 , 97,	4.9	29
179	Single neutral pion production by charged-current interactions on hydrocarbon at $E_{\nu}=3.6$ GeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015 , 749, 130-136	4.2	29
178	Search for resonant diphoton production with the D0 detector. <i>Physical Review Letters</i> , 2009 , 102, 231801	7.4	29
177	Simultaneous measurement of the ratio $R=B(t \rightarrow Wb)/B(t \rightarrow Wq)$ and the top-quark pair production cross section with the D0 detector at $\sqrt{s} = 1.96$ TeV. <i>Physical Review Letters</i> , 2008 , 100, 192003	7.4	29
176	Search for supersymmetry in di-photon final states at $\sqrt{s}=1.96$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2008 , 659, 856-863	4.2	29
175	Search for neutral Higgs bosons decaying to tau pairs in pp collisions at $\sqrt{s}=1.96$ TeV. <i>Physical Review Letters</i> , 2006 , 97, 121802	7.4	29
174	$t\bar{t}$ production cross section in pp collisions at $s=1.8$ TeV. <i>Physical Review D</i> , 2003 , 67,	4.9	29

173	Search for second-generation leptoquark pairs in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV. <i>Physical Review Letters</i> , 2000 , 84, 2088-93	7.4	29
172	$Z\bar{\nu}$ production in pp collisions at $\sqrt{s}=1.8$ TeV and limits on anomalous $ZZ\bar{\nu}$ and $Z\bar{\nu}$ couplings. <i>Physical Review D</i> , 1998 , 57, R3817-R3821	4.9	29
171	Search for large extra spatial dimensions in the dielectron and diphoton channels in pp collisions at $\sqrt{s}=1.96$ TeV. <i>Physical Review Letters</i> , 2009 , 102, 051601	7.4	28
170	Search for charged higgs bosons decaying into top and bottom quarks in pp collisions. <i>Physical Review Letters</i> , 2009 , 102, 191802	7.4	28
169	Measurement of the R_{τ} . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2009 , 679, 177-185	4.2	28
168	Measurement of the ratios of the R_{τ} . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2008 , 658, 112-119	4.2	28
167	Search for pair production of scalar bottom quarks in pp collisions at square root of $s = 1.96$ TeV. <i>Physical Review Letters</i> , 2006 , 97, 171806	7.4	28
166	Measurement of the R_{τ} . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2005 , 626, 45-54	4.2	28
165	Measurement of the W boson mass using large rapidity electrons. <i>Physical Review D</i> , 2000 , 62,	4.9	28
164	A Measurement of the W Boson Mass at the Fermilab pp Collider. <i>Physical Review Letters</i> , 1998 , 80, 3008-3013	7.4	28
163	Measurement of Electron Neutrino Quasielastic and Quasielasticlike Scattering on Hydrocarbon at $\sqrt{s}=3.6$ GeV. <i>Physical Review Letters</i> , 2016 , 116, 081802	7.4	27
162	Search for ZZ and $Z\gamma^*$ production in pp collisions at square root $s=1.96$ TeV and limits on anomalous ZZZ and $ZZ\gamma^*$ couplings. <i>Physical Review Letters</i> , 2008 , 100, 131801	7.4	27
161	Combined D0 measurements constraining the CP-violating phase and width difference in the B_s^0 system. <i>Physical Review D</i> , 2007 , 76,	4.9	27
160	Measurement of B_d mixing using opposite-side flavor tagging. <i>Physical Review D</i> , 2006 , 74,	4.9	27
159	Measurement of the Shape of the Transverse Momentum Distribution of W Bosons Produced in pp Collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , 1998 , 80, 5498-5503	7.4	27
158	Search for Nonstandard Higgs Bosons Using High Mass Photon Pairs in $pp \rightarrow \gamma\gamma$ Jets at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , 1999 , 82, 2244-2249	7.4	27
157	Measurement of Final-State Correlations in Neutrino Muon-Proton Mesonless Production on Hydrocarbon at $\sqrt{s}=3$ GeV. <i>Physical Review Letters</i> , 2018 , 121, 022504	7.4	26
156	DEMONSTRATION OF COMMUNICATION USING NEUTRINOS. <i>Modern Physics Letters A</i> , 2012 , 27, 125007	7.3	26

155	Limits on WWZ and WW couplings from $pp \rightarrow e\mu X$ Events at $s=1.8\text{TeV}$. <i>Physical Review Letters</i> , 1997 , 79, 1441-1446	7.4	26
154	Studies of gauge boson pair production and trilinear couplings. <i>Physical Review D</i> , 1997 , 56, 6742-6778	4.9	26
153	Measurement of the top quark mass in the lepton+jets channel using the ideogram method. <i>Physical Review D</i> , 2007 , 75,	4.9	26
152	Measurement of the $t\bar{t}$ production cross section in pp collisions using dilepton events. <i>Physical Review D</i> , 2007 , 76,	4.9	26
151	Search for \tilde{g} . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2006 , 641, 423-431	4.2	26
150	Search for large extra spatial dimensions in dimuon production with the d0 detector. <i>Physical Review Letters</i> , 2005 , 95, 161602	7.4	26
149	Measurement of the W boson mass using electrons at large rapidities. <i>Physical Review Letters</i> , 2000 , 84, 222-7	7.4	26
148	Measurement of quasielastic-like neutrino scattering at $E_{\nu} \sim 3.5$ GeV on a hydrocarbon target. <i>Physical Review D</i> , 2019 , 99,	4.9	25
147	Measurement of the semileptonic branching ratio of $B_{s;0}$ to an orbitally excited $D_{s;^{**}}$ state: $Br(B_{s;0} \rightarrow D_{s1;^{*}}(2536)\mu_{\pm}\nu_X)$. <i>Physical Review Letters</i> , 2009 , 102, 051801	7.4	25
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145	Measurement of the ratio of the α_s . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2008 , 666, 23-30	4.2	25
144	Search for heavy particles decaying into electron-positron pairs in pp collisions. <i>Physical Review Letters</i> , 2001 , 87, 061802	7.4	25
143	Search for additional neutral gauge bosons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996 , 385, 471-478	4.2	25
142	Measurement of $(pp \rightarrow Z+X)Br(Z \rightarrow \mu\mu)$ at $s=1.96$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2009 , 670, 292-299	4.2	24
141	Search for $B_{s0} \rightarrow \mu\mu$ decays at D0. <i>Physical Review D</i> , 2007 , 76,	4.9	24
140	Measurement of the differential cross section for the production of an isolated photon with associated jet in pp . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2008 , 666, 435-445	4.2	24
139	Search for neutral, long-lived particles decaying into two muons in pp collisions at $\sqrt{s}=1.96$ TeV. <i>Physical Review Letters</i> , 2006 , 97, 161802	7.4	24
138	Quasi-model-independent search for new high $p(T)$ physics at D0. <i>Physical Review Letters</i> , 2001 , 86, 3712-74	7.4	24

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133	Measurement of the charge asymmetry in semileptonic B_s^0 decays. <i>Physical Review Letters</i> , 2007 , 98, 151801	7.4	23
132	Differential cross section for w boson production as a function of transverse momentum in collisions at TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2001 , 513, 292-300	4.2	23
131	Measurement of partonic nuclear effects in deep-inelastic neutrino scattering using MINERvA. <i>Physical Review D</i> , 2016 , 93,	4.9	22
130	Search for pair production of second generation scalar leptoquarks. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2009 , 671, 224-232	4.2	22
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127	Measurement of the $B_s(0)$ lifetime using semileptonic decays. <i>Physical Review Letters</i> , 2006 , 97, 241801	7.4	22
126	Search for Wbb and WH production in pp collisions at square root $[\sqrt{s}]=1.96$ TeV. <i>Physical Review Letters</i> , 2005 , 94, 091802	7.4	22
125	Studies of WW and WZ production and limits on anomalous $WW\bar{\nu}$ and WWZ couplings. <i>Physical Review D</i> , 1999 , 60,	4.9	22
124	Search for bottom squarks in pp collisions at $s=1.8$ TeV. <i>Physical Review D</i> , 1999 , 60,	4.9	22
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122	Search for third-generation scalar leptoquarks in pp at square root $s=1.96$ TeV. <i>Physical Review Letters</i> , 2007 , 99, 061801	7.4	21
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115	Search for first-generation scalar leptoquarks in pp collisions at $s=1.96$ TeV. <i>Physical Review D</i> , 2005 , 71,	4.9	20
114	Measurement of $(pp \rightarrow Z)Br(Z \rightarrow \mu\mu)$ at $s=1.96$ TeV. <i>Physical Review D</i> , 2005 , 71,	4.9	20
113	Search for supersymmetry via associated production of charginos and neutralinos in final states with three leptons. <i>Physical Review Letters</i> , 2005 , 95, 151805	7.4	20
112	Measurement of π^0 charged-current single π^0 production on hydrocarbon in the few-GeV region using MINERvA. <i>Physical Review D</i> , 2017 , 96,	4.9	19
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109	Search for the Higgs boson in $H \rightarrow WW(*)$ decays in pp collisions at square root of 1.96 TeV. <i>Physical Review Letters</i> , 2006 , 96, 011801	7.4	19
108	Measurement of the $pp \rightarrow W\mu X$ cross section at $s=1.96$ TeV and WW anomalous coupling limits. <i>Physical Review D</i> , 2005 , 71,	4.9	19
107	Search for R-parity violating supersymmetry via the LLE couplings λ_{21} , λ_{22} or λ_{33} in pp collisions at $s=1.96$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2006 , 638, 441-449	4.2	19
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94	Measurement of semileptonic branching fractions of B mesons to narrow D^{**} states. <i>Physical Review Letters</i> , 2005 , 95, 171803	7.4	18
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89	Study of direct CP violation in $B(+/-) \rightarrow J/\psi K(+/-) \pi(+/-)$ decays. <i>Physical Review Letters</i> , 2008 , 100, 211802	7.4	17
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86	Direct measurement of the W boson decay width. <i>Physical Review D</i> , 2002 , 66,	4.9	17
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83	Observation of ZZ production in p-p collisions at $\sqrt{s}=1.96$ TeV. <i>Physical Review Letters</i> , 2008 , 101, 171803	7.4	16
82	Measurement of the Λ_b lifetime in the decay $\Lambda_b \rightarrow J/\psi \Lambda$ with the D0 detector. <i>Physical Review Letters</i> , 2005 , 94, 102001	7.4	16
81	Search for the scalar top quark in pp collisions at square root $\sqrt{s} = 1.8$ TeV. <i>Physical Review Letters</i> , 2002 , 88, 171802	7.4	16
80	The MINERvA data acquisition system and infrastructure. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2012 , 694, 179-192	1.2	15
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78	Search for a scalar or vector particle decaying into $Z\nu\bar{\nu}$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2009 , 671, 349-355	4.2	15
77	Search for admixture of scalar top quarks in the $t\bar{t}$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2009 , 674, 4-10	4.2	15
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75	Search for neutral Higgs bosons in multi-b-jet events in pp collisions at $\sqrt{s}=1.96$ TeV. <i>Physical Review Letters</i> , 2008 , 101, 221802	7.4	15
74	Multivariate searches for single top quark production with the D0 detector. <i>Physical Review D</i> , 2007 , 75,	4.9	15
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71	Search for resonant second generation slepton production at the Fermilab Tevatron. <i>Physical Review Letters</i> , 2006 , 97, 111801	7.4	15
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66	Search for Second Generation Leptoquark Pairs Decaying to $b\bar{b}$ jets in pp Collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , 1999 , 83, 2896-2901	7.4	15

65	Search for scalar neutrino superpartners in e+mu final states in pp collisions at $\sqrt{s}=1.96$ TeV. <i>Physical Review Letters</i> , 2008 , 100, 241803	7.4	14
64	Measurement of the top quark mass in the dilepton channel. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2007 , 655, 7-14	4.2	14
63	Limits on WW and WWZ couplings from W boson pair production. <i>Physical Review D</i> , 1998 , 58,	4.9	14
62	Evidence for Neutral-Current Diffractive π^0 Production from Hydrogen in Neutrino Interactions on Hydrocarbon. <i>Physical Review Letters</i> , 2016 , 117, 111801	7.4	13
61	Antineutrino Charged-Current Reactions on Hydrocarbon with Low Momentum Transfer. <i>Physical Review Letters</i> , 2018 , 120, 221805	7.4	13
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59	Search for associated higgs boson production $WH \rightarrow WWW^* \rightarrow \{+/-\nu\} \{+/-\nu\} X$ in pp collisions at square root $s=1.96$ Te V. <i>Physical Review Letters</i> , 2006 , 97, 151804	7.4	13
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57	Measurement of the ratio of B+ and B0 meson lifetimes. <i>Physical Review Letters</i> , 2005 , 94, 182001	7.4	13
56	Ratio of jet cross sections at square root of $s = 630$ GeV and 1800 GeV. <i>Physical Review Letters</i> , 2001 , 86, 2523-8	7.4	13
55	Ratios of multijet Cross Sections in p p collisions at $\sqrt{s} = 1.8$ TeV. <i>Physical Review Letters</i> , 2001 , 86, 1955-60	7.4	13
54	Search for first-generation scalar and vector leptoquarks. <i>Physical Review D</i> , 2001 , 64,	4.9	13
53	Search for top squark pair production in the dielectron channel. <i>Physical Review D</i> , 1998 , 57, 589-593	4.9	13
52	Measurement of total and differential cross sections of neutrino and antineutrino coherent π^0 production on carbon. <i>Physical Review D</i> , 2018 , 97,	4.9	12
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48	Measurement of $B(t \rightarrow Wb)/B(t \rightarrow Wq)$ at $s=1.96$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2006 , 639, 616-622	4.2	12

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44	Measurement of the angular and lifetime parameters of the decays $B_d^0 \rightarrow J/\psi K^*0$ and $B_s^0 \rightarrow J/\psi \phi$. <i>Physical Review Letters</i> , 2009 , 102, 032001	7.4	11
43	Evidence for the decay $B_s^0 \rightarrow D_s^* D_s^*$ and a measurement of $\Delta\Gamma_{CP}/\Gamma_{CP}$. <i>Physical Review Letters</i> , 2009 , 102, 091801	7.4	11
42	Search for neutral Higgs Bosons at high $\tan\beta$ in the $b(h/H/A) \rightarrow b\tau; \{+\}\tau; \{-}\tau$ channel. <i>Physical Review Letters</i> , 2009 , 102, 051804	7.4	11
41	Search for a Higgs boson produced in association with a Z boson in pp collisions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2007 , 655, 209-216	4.2	11
40	Search for excited muons in pp collisions at $\sqrt{s}=1.96$ TeV. <i>Physical Review D</i> , 2006 , 73,	4.9	11
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12	Measurement of Neutral-Current K^+_{sc} Production by Neutrinos using MINERvA. <i>Physical Review Letters</i> , 2017 , 119, 011802	7.4	5

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1	ARAPUCA light trap for large liquid argon time projection chambers. <i>Journal of Physics: Conference Series</i> , 2018 , 1143, 012003	0.3	