

# Alexey Petrukhin

## List of Publications by Year in descending order

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Version: 2024-02-01

36  
papers

2,256  
citations

361413

20  
h-index

345221

36  
g-index

36  
all docs

36  
docs citations

36  
times ranked

5585  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Combined measurement and QCD analysis of the inclusive $e^{\pm} p$ scattering cross sections at HERA. Journal of High Energy Physics, 2010, 2010, 1.   | 4.7 | 458       |
| 2  | Combination of measurements of inclusive deep inelastic $e^{\pm} p$ scattering cross sections and QCD analysis of HERA data. European Physical Journal C, 2015, 75, 1.   | 3.9 | 383       |
| 3  | Measurement and QCD analysis of the diffractive deep-inelastic scattering cross section at HERA. European Physical Journal C, 2006, 48, 715-748.   | 3.9 | 213       |
| 4  | Diffractive deep-inelastic scattering with a leading proton at HERA. European Physical Journal C, 2006, 48, 749-766.   | 3.9 | 105       |
| 5  | Measurement of the charm and beauty structure functions using the H1 vertex detector at HERA. European Physical Journal C, 2010, 65, 89-109.   | 3.9 | 103       |
| 6  | Measurement of the inclusive ep scattering cross section at low $Q^2$ and $x$ at HERA. European Physical Journal C, 2009, 63, 625.   | 3.9 | 99        |
| 7  | Diffractive electroproduction of $\bar{D}$ and $D$ mesons at HERA. Journal of High Energy Physics, 2010, 2010, 1.  | 4.7 | 90        |
| 8  | Measurement of inclusive $\vec{e} p$ cross sections at high $Q^2$ at $\sqrt{s} = 225$ and $252$ GeV and of the longitudinal proton structure function $F_L$ at HERA. European Physical Journal C, 2014, 74, 1. | 3.9 | 76        |
| 9  | Measurement of leading neutron production in deep-inelastic scattering at HERA. European Physical Journal C, 2010, 68, 381-399.  | 3.9 | 75        |
| 10 | A precision measurement of the inclusive ep scattering cross section at HERA. European Physical Journal C, 2009, 64, 561-587.  | 3.9 | 71        |
| 11 | Tests of QCD factorisation in the diffractive production of dijets in deep-inelastic scattering and photoproduction at HERA. European Physical Journal C, 2007, 51, 549-568.                                   | 3.9 | 63        |
| 12 | Jet production in ep collisions at low $Q^2$ and determination of $\hat{\sigma}_{\pm}$ . European Physical Journal C, 2010, 67, 1-24.  | 3.9 | 61        |
| 13 | Jet production in ep collisions at high $Q^2$ and determination of $\hat{\sigma}_{\pm}$ . European Physical Journal C, 2010, 65, 363-383.  | 3.9 | 60        |
| 14 | Inelastic production of $J/\psi$ mesons in photoproduction and deep inelastic scattering at HERA. European Physical Journal C, 2010, 68, 401-420.  | 3.9 | 50        |
| 15 | Combination and QCD analysis of charm and beauty production cross-section measurements in deep inelastic ep scattering at HERA. European Physical Journal C, 2018, 78, 1.                                      | 3.9 | 49        |
| 16 | Diffractive open charm production in deep-inelastic scattering and photoproduction at HERA. European Physical Journal C, 2007, 50, 1-20.   | 3.9 | 39        |
| 17 | Study of charm fragmentation into $D^*_{\pm}$ mesons in deep-inelastic scattering at HERA. European Physical Journal C, 2009, 59, 589-606.   | 3.9 | 26        |
| 18 | Inclusive $D^*_{\pm}$ meson and associated dijet production in deep-inelastic scattering at HERA. European Physical Journal C, 2007, 51, 271.  | 3.9 | 25        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Measurement of charm and beauty dijet cross sections in photoproduction at HERA using the H1 vertex detector. European Physical Journal C, 2006, 47, 597-610.   | 3.9 | 24        |
| 20 | AtlFast3: The Next Generation of Fast Simulation in ATLAS. Computing and Software for Big Science, 2022, 6, 1.  | 2.9 | 23        |
| 21 | Measurement of isolated photon production in deep-inelastic scattering at HERA. European Physical Journal C, 2008, 54, 371-387.   | 3.9 | 20        |
| 22 | Prompt photons in photoproduction at HERA. European Physical Journal C, 2010, 66, 17-33.  | 3.9 | 20        |
| 23 | Events with isolated leptons and missing transverse momentum and measurement of W production at HERA. European Physical Journal C, 2009, 64, 251-271.   | 3.9 | 16        |
| 24 | Measurement of the c-jet mistagging efficiency in $t\bar{t}$ events using pp collision data at $\sqrt{s}=13$ TeV collected with the ATLAS detector. European Physical Journal C, 2022, 82, .  | 3.9 | 14        |
| 25 | Inclusive $D^*\hat{\pm}$ meson cross sections and $D^*\hat{\pm}$ -jet correlations in photoproduction at HERA. European Physical Journal C, 2007, 50, 251-267.  | 3.9 | 13        |
| 26 | Search for lepton flavour violation in ep collisions at HERA. European Physical Journal C, 2007, 52, 833-847.   | 3.9 | 12        |
| 27 | Determination of the parton distribution functions of the proton using diverse ATLAS data from pp collisions at $\sqrt{s} = 7, 8$ and $13$ TeV. European Physical Journal C, 2022, 82, 1.   | 3.9 | 12        |
| 28 | Tau lepton production in ep collisions at HERA. European Physical Journal C, 2006, 48, 699-714.   | 3.9 | 10        |
| 29 | Search for Higgs bosons decaying into new spin-0 or spin-1 particles in four-lepton final states with the ATLAS detector with $139 \text{ fb}^{-1}$ of pp collision data at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1. | 4.7 | 10        |
| 30 | Search for baryonic resonances decaying to $\hat{\nu}\hat{\nu}$ in deep-inelastic scattering at HERA. European Physical Journal C, 2007, 52, 507-514.   | 3.9 | 9         |
| 31 | Events with an isolated lepton and missing transverse momentum and measurement of W production at HERA. Journal of High Energy Physics, 2010, 2010, 1.  | 4.7 | 8         |
| 32 | Search for flavour-changing neutral-current interactions of a top quark and a gluon in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. European Physical Journal C, 2022, 82, .   | 3.9 | 7         |
| 33 | Strangeness production at low Q <sup>2</sup> in deep-inelastic ep scattering at HERA. European Physical Journal C, 2009, 61, 185-205.   | 3.9 | 4         |
| 34 | Measurement of the energy response of the ATLAS calorimeter to charged pions from $W^{\pm} \rightarrow u^{\pm} \bar{u}^{\pm} \rightarrow \pi^{\pm} u \bar{u}$ events in Run-2 data. European Physical Journal C, 2022, 82, 1.                   | 3.9 | 4         |
| 35 | Three- and four-jet production at low x at HERA. European Physical Journal C, 2008, 54, 389.  | 3.9 | 2         |
| 36 | Measurement of the energy asymmetry in $t\bar{t}$ production at $\sqrt{s}=13$ TeV with the ATLAS experiment and interpretation in the SMEFT framework. European Physical Journal C, 2022, 82, .   | 3.9 | 2         |