

Peter A Wijeratne

List of Publications by Year in descending order

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129
papers

6,739
citations

47006

47
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74163

75
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137
all docs

137
docs citations

137
times ranked

7901
citing authors

#	ARTICLE	IF	CITATIONS
19	Jet mass and substructure of inclusive jets in $\sqrt{s} = 7$ TeV pp collisions with the ATLAS experiment. Journal of High Energy Physics, 2012, 2012, 1.	4.7	88
20	Search for direct production of charginos and neutralinos in events with three leptons and missing transverse momentum in $\sqrt{s} = 8$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	88
21	Search for neutral Higgs bosons of the minimal supersymmetric standard model in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	82
22	ATLAS search for new phenomena in dijet mass and angular distributions using pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	81
23	Measurement of the inclusive and dijet cross-sections of b-jets in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2011, 71, 1.	3.9	73
24	Measurement of the production cross section of jets in association with a Z boson in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	4.7	73
25	Search for charged Higgs bosons decaying via $H \rightarrow \tau^+ \bar{\nu}_\tau, \tau^\pm \nu_\tau$ in fully hadronic final states using pp collision data at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	4.7	69
26	Search for top squark pair production in final states with one isolated lepton, jets, and missing transverse momentum in $\sqrt{s} = 8$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	66
27	Search for new phenomena in final states with large jet multiplicities and missing transverse momentum using $\sqrt{s} = 7$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2011, 2011, 1.	4.7	65
28	Measurement of isolated-photon pair production in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	4.7	64
29	Aging related cognitive changes associated with Alzheimer's disease in Down syndrome. Annals of Clinical and Translational Neurology, 2018, 5, 741-751.	3.7	64
30	Mutant huntingtin and neurofilament light have distinct longitudinal dynamics in Huntington's disease. Science Translational Medicine, 2020, 12, .	12.4	64
31	Measurement of ZZ production in pp collisions at $\sqrt{s} = 7$ TeV and limits on anomalous ZZZ and ZZ $\tilde{\chi}^0$ couplings with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	4.7	61
32	Measurements of top quark pair relative differential cross-sections with ATLAS in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 1.	3.9	61
33	Measurement of multi-jet cross sections in proton-proton collisions at a 7 TeV center-of-mass energy. European Physical Journal C, 2011, 71, 1.	3.9	60
34	Search for anomalous production of prompt same-sign lepton pairs and pair-produced doubly charged Higgs bosons with $\sqrt{s} = 8$ TeV pp collisions using the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	4.7	60
35	Search for resonances decaying into top-quark pairs using fully hadronic decays in pp collisions with ATLAS at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	59
36	Measurement of the production of a W boson in association with a charm quark in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	59

#	ARTICLE	IF	CITATIONS
37	Search for direct top-squark pair production in final states with two leptons in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	59
38	Measurement of the W boson polarization in top quark decays with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1.	4.7	57
39	Measurement of the jet fragmentation function and transverse profile in proton-proton collisions at a center-of-mass energy of 7 TeV with the ATLAS detector. European Physical Journal C, 2011, 71, 1.	3.9	56
40	Search for a heavy top-quark partner in final states with two leptons with the ATLAS detector at the LHC. Journal of High Energy Physics, 2012, 2012, 1.	4.7	54
41	Search for high-mass resonances decaying to dilepton final states in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1.	4.7	54
42	Hunt for new phenomena using large jet multiplicities and missing transverse momentum with ATLAS in 4.7 fb^{-1} of $\sqrt{s} = 7$ TeV proton-proton collisions. Journal of High Energy Physics, 2012, 2012, 1.	4.7	53
43	Measurement of the cross-section for W boson production in association with b-jets in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	4.7	53
44	Search for the neutral Higgs bosons of the minimal supersymmetric standard model in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	4.7	52
45	Performance of jet substructure techniques for large-R jets in proton-proton collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	4.7	52
46	An image-based model of brain volume biomarker changes in Huntington's disease. Annals of Clinical and Translational Neurology, 2018, 5, 570-582.	3.7	50
47	Sequence of clinical and neurodegeneration events in Parkinson's disease progression. Brain, 2021, 144, 975-988.	7.6	49
48	Search for pair production of massive particles decaying into three quarks with the ATLAS detector in $\sqrt{s} = 7$ TeV pp collisions at the LHC. Journal of High Energy Physics, 2012, 2012, 1.	4.7	48
49	Search for long-lived neutral particles decaying into lepton jets in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	47
50	Measurement of the cross section for top-quark pair production in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector using final states with two high-p T leptons. Journal of High Energy Physics, 2012, 2012, 1.	4.7	45
51	Search for pair-produced massive coloured scalars in four-jet final states with the ATLAS detector in proton-proton collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 1.	3.9	45
52	Single hadron response measurement and calorimeter jet energy scale uncertainty with the ATLAS detector at the LHC. European Physical Journal C, 2013, 73, 1.	3.9	45
53	Measurements of fiducial and differential cross sections for Higgs boson production in the diphoton decay channel at $\sqrt{s} = 8$ TeV with ATLAS. Journal of High Energy Physics, 2014, 2014, 1.	4.7	45
54	Measurement of differential production cross-sections for a Z boson in association with b-jets in 7 TeV proton-proton collisions with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	45

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55	Search for new particles in events with one lepton and missing transverse momentum in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	45
56	A Validated Multiscale In-Silico Model for Mechano-sensitive Tumour Angiogenesis and Growth. PLoS Computational Biology, 2017, 13, e1005259.	3.2	45
57	Search for the Standard Model Higgs boson in the $\tau^+ \tau^- \nu_\tau$ decay mode in $\sqrt{s} = 7, \sqrt{s} = 8$ TeV pp collisions with ATLAS. Journal of High Energy Physics, 2012, 2012, 1.	4.7	43
58	Measurement of the top quark pair production charge asymmetry in proton-proton collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	42
59	Search for squarks and gluinos in events with isolated leptons, jets and missing transverse momentum at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	4.7	42
60	Search for supersymmetric particles in events with lepton pairs and large missing transverse momentum in $\sqrt{s} = 7$ TeV proton-proton collisions with the ATLAS experiment. European Physical Journal C, 2011, 71, 1.	3.9	41
61	Search for direct pair production of the top squark in all-hadronic final states in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	41
62	Limits on the production of the standard model Higgs boson in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2011, 71, 1.	3.9	40
63	A search for t resonances in lepton+jets events with highly boosted top quarks collected in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1.	4.7	40
64	Search for the direct production of charginos, neutralinos and staus in final states with at least two hadronically decaying taus and missing transverse momentum in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	40
65	Differential top-antitop cross-section measurements as a function of observables constructed from final-state particles using pp collisions at $\sqrt{s} = 7$ TeV in the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	4.7	40
66	Search for massive colored scalars in four-jet final states in $\sqrt{s} = 7$ TeV proton-proton collisions with the ATLAS detector. European Physical Journal C, 2011, 71, 1.	3.9	39
67	Search for strong production of supersymmetric particles in final states with missing transverse momentum and at least three b-jets at $\sqrt{s} = 8$ TeV proton-proton collisions with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	38
68	Search for second generation scalar leptoquarks in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. European Physical Journal C, 2012, 72, 1.	3.9	37
69	ATLAS search for a heavy gauge boson decaying to a charged lepton and a neutrino in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 1.	3.9	36
70	Search for same-sign top-quark production and fourth-generation down-type quarks in pp collisions at $\sqrt{s} = 7, \sqrt{s} = 8$ TeV with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1.	4.7	36
71	Measurement of the polarisation of W bosons produced with large transverse momentum in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS experiment. European Physical Journal C, 2012, 72, 1.	3.9	36
72	Measurement of dijet cross-sections in pp collisions at 7 TeV centre-of-mass energy using the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	36

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73	Search for pair and single production of new heavy quarks that decay to a Z boson and a third-generation quark in pp collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	35
74	Measurement of the production cross section of prompt J/ψ mesons in association with a W^{\pm} boson in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	35
75	Measurement of the inclusive jet cross-section in proton-proton collisions at $s = 7 \sqrt{s} = 7 \text{ TeV}$ using 4.5 fb^{-1} of data with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	4.7	35
76	A search for flavour changing neutral currents in top-quark decays in pp collision data collected with the ATLAS detector at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2012, 2012, 1.	4.7	34
77	Inclusive search for same-sign dilepton signatures in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2011, 2011, 1.	4.7	33
78	Searches for heavy long-lived charged particles with the ATLAS detector in proton-proton collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2015, 2015, 1.	4.7	33
79	Search for third generation scalar leptoquarks in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	4.7	32
80	Measurement of J/ψ $c1$ and J/ψ $c2$ production with $s \sqrt{s} = 7 \text{ TeV}$ pp collisions at ATLAS. Journal of High Energy Physics, 2014, 2014, 1.	4.7	32
81	Measurements of underlying-event properties using neutral and charged particles in pp collisions at $\sqrt{s} = 900 \text{ GeV}$ and $\sqrt{s} = 7 \text{ TeV}$ with the ATLAS detector at the LHC. European Physical Journal C, 2011, 71, 1.	3.9	31
82	Measurement of the differential cross-section of B + meson production in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ at ATLAS. Journal of High Energy Physics, 2013, 2013, 1.	4.7	31
83	Measurement of the $t \bar{t} \hat{A}^{-}$ production cross-section as a function of jet multiplicity and jet transverse momentum in 7 TeV proton-proton collisions with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	4.7	30
84	Forward-backward correlations and charged-particle azimuthal distributions in pp interactions using the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1.	4.7	29
85	Measurement of the forward-backward asymmetry of electron and muon pair-production in pp collisions at $s = 7 \sqrt{s} = 7 \text{ TeV}$ with the ATLAS detector. Journal of High Energy Physics, 2015, 2015, 1.	4.7	28
86	Measurement of the $W W + W Z$ cross section and limits on anomalous triple gauge couplings using final states with one lepton, missing transverse momentum, and two jets with the ATLAS detector at $s = 7 \sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2015, 2015, 1.	4.7	27
87	Search for top and bottom squarks from gluino pair production in final states with missing transverse energy and at least three b-jets with the ATLAS detector. European Physical Journal C, 2012, 72, 1.	3.9	25
88	Measurement of the low-mass Drell-Yan differential cross section at $s \sqrt{s} = 7 \text{ TeV}$ using the ATLAS detector. Journal of High Energy Physics, 2014, 2014, 1.	4.7	25
89	Measurement of the underlying event in jet events from $7 \hat{A} \text{ TeV}$ proton-proton collisions with the ATLAS detector. European Physical Journal C, 2014, 74, 1.	3.9	23
90	Measurement of event shapes at large momentum transfer with the ATLAS detector in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. European Physical Journal C, 2012, 72, 1.	3.9	22

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91	Measurement of the electroweak production of dijets in association with a Z-boson and distributions sensitive to vector boson fusion in proton-proton collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	4.7	22
92	Robust Markers and Sample Sizes for Multicenter Trials of Huntington Disease. <i>Annals of Neurology</i> , 2020, 87, 751-762.	5.3	22
93	From tumour perfusion to drug delivery and clinical translation of in silico cancer models. <i>Methods</i> , 2021, 185, 82-93.	3.8	22
94	Measurement of the production cross-section of $\tilde{\chi}^0(2S) \rightarrow \tilde{\chi}^0(\hat{1}/4 + \hat{1}/4 \hat{\nu}) \tilde{\chi}^\pm + \tilde{\chi}^\pm$ in pp collisions at $\sqrt{s} = 7$ TeV at ATLAS. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	4.7	21
95	A quantitative in silico platform for simulating cytotoxic and nanoparticle drug delivery to solid tumours. <i>Interface Focus</i> , 2019, 9, 20180063.	3.0	21
96	Search for new phenomena in events with three or more charged leptons in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	4.7	20
97	Revealing the Timeline of Structural MRI Changes in Premanifest to Manifest Huntington Disease. <i>Neurology: Genetics</i> , 2021, 7, e617.	1.9	20
98	Search for charged Higgs bosons through the violation of lepton universality in $t\bar{t}$ events using pp collision data at $\sqrt{s} = 7$ TeV with the ATLAS experiment. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	4.7	19
99	Addendum to "Measurement of the $t\bar{t} \rightarrow \tau^+\tau^- \hat{1}/4$ production cross-section using $e^+e^- \rightarrow \tau^+\tau^- \hat{1}/4$ events with b-tagged jets in pp collisions at $\sqrt{s} = 7$ and $8 \hat{1}/4 \text{ TeV}$ with the ATLAS detector". <i>European Physical Journal C</i> , 2016, 76, 1.	3.9	19
100	pySuStaln: A Python implementation of the Subtype and Stage Inference algorithm. <i>SoftwareX</i> , 2021, 16, 100811.	2.6	19
101	Search for an excess of events with an identical flavour lepton pair and significant missing transverse momentum in $\sqrt{s} = 7$ TeV proton-proton collisions with the ATLAS detector. <i>European Physical Journal C</i> , 2011, 71, 1.	3.9	18
102	In-silico dynamic analysis of cytotoxic drug administration to solid tumours: Effect of binding affinity and vessel permeability. <i>PLoS Computational Biology</i> , 2018, 14, e1006460.	3.2	18
103	Search for anomalous production of prompt like-sign lepton pairs at $\sqrt{s} = 7 \text{ TeV}$ with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	17
104	Measurement of the top quark charge in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	4.7	17
105	Measurement of the charge asymmetry in dileptonic decays of top quark pairs in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	4.7	17
106	Ordinal SuStaln: Subtype and Stage Inference for Clinical Scores, Visual Ratings, and Other Ordinal Data. <i>Frontiers in Artificial Intelligence</i> , 2021, 4, 613261.	3.4	17
107	Multiscale modelling of solid tumour growth: the effect of collagen micromechanics. <i>Biomechanics and Modeling in Mechanobiology</i> , 2016, 15, 1079-1090.	2.8	16
108	Search for diphoton events with large missing transverse energy with 36 pb^{-1} of 7 TeV proton-proton collision data with the ATLAS detector. <i>European Physical Journal C</i> , 2011, 71, 1.	3.9	15

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109	Measurements of the pseudorapidity dependence of the total transverse energy in proton-proton collisions at $\sqrt{s}=7$ TeV with ATLAS. Journal of High Energy Physics, 2012, 2012, 1.	4.7	15
110	Search for decays of stopped, long-lived particles from 7 TeV pp collisions with the ATLAS detector. European Physical Journal C, 2012, 72, 1.	3.9	15
111	Search for direct chargino production in anomaly-mediated supersymmetry breaking models based on a disappearing-track signature in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2013, 2013, 1.	4.7	15
112	Measurement of the flavour composition of dijet events in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. European Physical Journal C, 2013, 73, 1.	3.9	15
113	Search for W production with a light Higgs boson decaying to prompt electron-jets in proton-proton collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. New Journal of Physics, 2013, 15, 043009.	2.9	15
114	Search for a heavy neutral particle decaying into an electron and a muon using 1 fb^{-1} of ATLAS data. European Physical Journal C, 2011, 71, 1.	3.9	14
115	Search for R-parity-violating supersymmetry in events with four or more leptons in $\sqrt{s}=7$ TeV pp collisions with the ATLAS detector. Journal of High Energy Physics, 2012, 2012, 1.	4.7	13
116	Search for anomaly-mediated supersymmetry breaking with the ATLAS detector based on a disappearing-track signature in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2012, 72, 1.	3.9	13
117	Search for supersymmetry in events with large missing transverse momentum, jets, and at least one tau lepton in 7 TeV proton-proton collision data with the ATLAS detector. European Physical Journal C, 2012, 72, 1.	3.9	13
118	Measurement of inclusive two-particle angular correlations in pp collisions with the ATLAS detector at the LHC. Journal of High Energy Physics, 2012, 2012, 1.	4.7	12
119	A data-driven model of brain volume changes in progressive supranuclear palsy. Brain Communications, 2022, 4, .	3.3	12
120	Measurement of $W^{\pm}Z$ and $Z^{\pm}Z$ production in proton-proton collisions at $\sqrt{s}=7$ TeV with the ATLAS detector. Journal of High Energy Physics, 2011, 2011, 1.	4.7	11
121	Search for microscopic black holes and string balls in final states with leptons and jets with the ATLAS detector at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	10
122	Multiscale biphasic modelling of peritumoural collagen microstructure: The effect of tumour growth on permeability and fluid flow. PLoS ONE, 2017, 12, e0184511.	2.5	10
123	Learning Transition Times in Event Sequences: The Temporal Event-Based Model of Disease Progression. Lecture Notes in Computer Science, 2021, , 583-595.	1.3	7
124	Ranking the Predictive Power of Clinical and Biological Features Associated With Disease Progression in Huntington's Disease. Frontiers in Neurology, 2021, 12, 678484.	2.4	7
125	Temporal Progression Patterns of Brain Atrophy in Corticobasal Syndrome and Progressive Supranuclear Palsy Revealed by Subtype and Stage Inference (SuStaln). Frontiers in Neurology, 2022, 13, 814768.	2.4	7
126	A Multi-Study Model-Based Evaluation of the Sequence of Imaging and Clinical Biomarker Changes in Huntington's Disease. Frontiers in Big Data, 2021, 4, 662200.	2.9	2

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127	Tauâ€™first subtype of Alzheimerâ€™s disease progression consistently identified through PET and CSF. Alzheimer's and Dementia, 2020, 16, e045412.	0.8	1
128	F22â€™Robust biomarkers of huntingtonâ€™s disease progression: observations from the track-hd, predict-hd and image-hd studies. , 2018, , .		0
129	D09â€™Parallel evaluation of mutant huntingtin and neurofilament light as biomarkers for huntingtonâ€™s disease: the hd-csf study. , 2018, , .		0