#### Peter Bhlmann

#### List of Publications by Citations

Source: https://exaly.com/author-pdf/3248963/peter-buhlmann-publications-by-citations.pdf

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

126 48 155 15,993 h-index g-index citations papers 168 7.26 19,471 3.3 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
155	High-dimensional graphs and variable selection with the Lasso. <i>Annals of Statistics</i> , <b>2006</b> , 34, 1436	3.2	1622
154	MissForestnon-parametric missing value imputation for mixed-type data. <i>Bioinformatics</i> , <b>2012</b> , 28, 112	<u>?</u> - <del>9</del> .2	1585
153	Stability selection. Journal of the Royal Statistical Society Series B: Statistical Methodology, <b>2010</b> , 72, 417	'- <u>4</u> .7 <sub>5</sub> 3	1221
152	Statistics for High-Dimensional Data. Springer Series in Statistics, 2011,	0.3	853
151	The group lasso for logistic regression. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , <b>2008</b> , 70, 53-71	3.9	813
150	A systematic comparison and evaluation of biclustering methods for gene expression data. <i>Bioinformatics</i> , <b>2006</b> , 22, 1122-9	7.2	626
149	Analyzing gene expression data in terms of gene sets: methodological issues. <i>Bioinformatics</i> , <b>2007</b> , 23, 980-7	7.2	573
148	Boosting With the L2 Loss. Journal of the American Statistical Association, 2003, 98, 324-339	2.8	485
147	Boosting Algorithms: Regularization, Prediction and Model Fitting. <i>Statistical Science</i> , <b>2007</b> , 22, 477	2.4	484
146	Survival ensembles. <i>Biostatistics</i> , <b>2006</b> , 7, 355-73	3.7	403
145	On asymptotically optimal confidence regions and tests for high-dimensional models. <i>Annals of Statistics</i> , <b>2014</b> , 42,	3.2	385
144	Analyzing bagging. Annals of Statistics, 2002, 30, 927	3.2	383
143	On the conditions used to prove oracle results for the Lasso. <i>Electronic Journal of Statistics</i> , <b>2009</b> , 3,	1.2	290
142	Boosting for tumor classification with gene expression data. <i>Bioinformatics</i> , <b>2003</b> , 19, 1061-9	7.2	282
141	Sieve Bootstrap for Time Series. <i>Bernoulli</i> , <b>1997</b> , 3, 123	1.6	255
140	Sparse graphical Gaussian modeling of the isoprenoid gene network in Arabidopsis thaliana. <i>Genome Biology</i> , <b>2004</b> , 5, R92	18.3	229
139	High-dimensional additive modeling. <i>Annals of Statistics</i> , <b>2009</b> , 37,	3.2	219

## (2013-2006)

138	Boosting for high-dimensional linear models. <i>Annals of Statistics</i> , <b>2006</b> , 34, 559	3.2	216
137	p-Values for High-Dimensional Regression. <i>Journal of the American Statistical Association</i> , <b>2009</b> , 104, 1671-1681	2.8	205
136	Gene expression signatures identify rhabdomyosarcoma subtypes and detect a novel t(2;2)(q35;p23) translocation fusing PAX3 to NCOA1. <i>Cancer Research</i> , <b>2004</b> , 64, 5539-45	10.1	196
135	Variable length Markov chains. <i>Annals of Statistics</i> , <b>1999</b> , 27, 480	3.2	196
134	Causal Inference Using Graphical Models with theRPackagepcalg. <i>Journal of Statistical Software</i> , <b>2012</b> , 47,	7-3	185
133	Targeted quantitative analysis of Streptococcus pyogenes virulence factors by multiple reaction monitoring. <i>Molecular and Cellular Proteomics</i> , <b>2008</b> , 7, 1489-500	7.6	179
132	Systems-based analysis of Arabidopsis leaf growth reveals adaptation to water deficit. <i>Molecular Systems Biology</i> , <b>2012</b> , 8, 606	12.2	163
131	Bootstraps for Time Series. <i>Statistical Science</i> , <b>2002</b> , 17, 52	2.4	161
130	🗓-penalization for mixture regression models. <i>Test</i> , <b>2010</b> , 19, 209-256	1.1	143
129	Estimating high-dimensional intervention effects from observational data. <i>Annals of Statistics</i> , <b>2009</b> , 37,	3.2	142
128	Predicting causal effects in large-scale systems from observational data. <i>Nature Methods</i> , <b>2010</b> , 7, 247-	821.6	136
127	Causal inference by using invariant prediction: identification and confidence intervals. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , <b>2016</b> , 78, 947-1012	3.9	125
126	Selection of Carbonic Anhydrase IX Inhibitors from One Million DNA-Encoded Compounds. <i>ACS Chemical Biology</i> , <b>2011</b> , 6, 336-44	4.9	117
125	High-Dimensional Statistics with a View Toward Applications in Biology. <i>Annual Review of Statistics and Its Application</i> , <b>2014</b> , 1, 255-278	7.6	115
124	Statistical significance in high-dimensional linear models. <i>Bernoulli</i> , <b>2013</b> , 19,	1.6	106
123	Estimation for High-Dimensional Linear Mixed-Effects Models Using <b>1</b> -Penalization. <i>Scandinavian Journal of Statistics</i> , <b>2011</b> , 38, 197-214	0.8	97
122	Discovery of TNF inhibitors from a DNA-encoded chemical library based on diels-alder cycloaddition. <i>Chemistry and Biology</i> , <b>2009</b> , 16, 1075-86		89
121	Correlated variables in regression: Clustering and sparse estimation. <i>Journal of Statistical Planning and Inference</i> , <b>2013</b> , 143, 1835-1858	0.8	86

120	High-Dimensional Inference: Confidence Intervals, \$p\$-Values and R-Software hdi. <i>Statistical Science</i> , <b>2015</b> , 30,	2.4	84
119	Bagging, Boosting and Ensemble Methods <b>2012</b> , 985-1022		83
118	Finding predictive gene groups from microarray data. <i>Journal of Multivariate Analysis</i> , <b>2004</b> , 90, 106-13	1 1.4	80
117	Block length selection in the bootstrap for time series. <i>Computational Statistics and Data Analysis</i> , <b>1999</b> , 31, 295-310	1.6	77
116	Arabidopsis GERANYLGERANYL DIPHOSPHATE SYNTHASE 11 is a hub isozyme required for the production of most photosynthesis-related isoprenoids. <i>New Phytologist</i> , <b>2016</b> , 209, 252-64	9.8	73
115	Mining tissue microarray data to uncover combinations of biomarker expression patterns that improve intermediate staging and grading of clear cell renal cell cancer. <i>Clinical Cancer Research</i> , <b>2010</b> , 16, 88-98	12.9	70
114	Low-order conditional independence graphs for inferring genetic networks. <i>Statistical Applications in Genetics and Molecular Biology</i> , <b>2006</b> , 5, Article1	1.2	63
113	CAM: Causal additive models, high-dimensional order search and penalized regression. <i>Annals of Statistics</i> , <b>2014</b> , 42,	3.2	62
112	Identifiability of Gaussian structural equation models with equal error variances. <i>Biometrika</i> , <b>2014</b> , 101, 219-228	2	62
111	Blockwise Bootstrapped Empirical Process for Stationary Sequences. <i>Annals of Statistics</i> , <b>1994</b> , 22, 995	3.2	59
110	The adaptive and the thresholded Lasso for potentially misspecified models (and a lower bound for the Lasso). <i>Electronic Journal of Statistics</i> , <b>2011</b> , 5,	1.2	52
109	Kernel-based tests for joint independence. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , <b>2018</b> , 80, 5-31	3.9	50
108	Variable selection in high-dimensional linear models: partially faithful distributions and the PC-simple algorithm. <i>Biometrika</i> , <b>2010</b> , 97, 261-278	2	49
107	GLMMLasso: An Algorithm for High-Dimensional Generalized Linear Mixed Models Using <b>1</b> -Penalization. <i>Journal of Computational and Graphical Statistics</i> , <b>2014</b> , 23, 460-477	1.4	48
106	Geometry of the faithfulness assumption in causal inference. <i>Annals of Statistics</i> , <b>2013</b> , 41,	3.2	48
105	Methods for causal inference from gene perturbation experiments and validation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 7361-8	11.5	48
104	A New Mixing Notion and Functional Central Limit Theorems for a Sieve Bootstrap in Time Series. <i>Bernoulli</i> , <b>1999</b> , 5, 413	1.6	47
103	Sieve bootstrap for smoothing in nonstationary time series. <i>Annals of Statistics</i> , <b>1998</b> , 26, 48	3.2	46

# (2001-2002)

102	An algorithm for nonparametric GARCH modelling. <i>Computational Statistics and Data Analysis</i> , <b>2002</b> , 40, 665-683	1.6	44	
101	\$ell_{0}\$-penalized maximum likelihood for sparse directed acyclic graphs. <i>Annals of Statistics</i> , <b>2013</b> , 41,	3.2	43	
100	Conditional transformation models. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , <b>2014</b> , 76, 3-27	3.9	42	
99	Twin Boosting: improved feature selection and prediction. <i>Statistics and Computing</i> , <b>2010</b> , 20, 119-138	1.8	40	
98	Causal stability ranking. <i>Bioinformatics</i> , <b>2012</b> , 28, 2819-23	7.2	38	
97	Model-based boosting in high dimensions. <i>Bioinformatics</i> , <b>2006</b> , 22, 2828-9	7.2	38	
96	Weak dependence beyond mixing and asymptotics for nonparametric regression. <i>Annals of Statistics</i> , <b>2002</b> , 30, 397	3.2	38	
95	High-dimensional simultaneous inference with the bootstrap. <i>Test</i> , <b>2017</b> , 26, 685-719	1.1	37	
94	Most Likely Transformations. Scandinavian Journal of Statistics, 2018, 45, 110-134	0.8	37	
93	Stable graphical model estimation with Random Forests for discrete, continuous, and mixed variables. <i>Computational Statistics and Data Analysis</i> , <b>2013</b> , 64, 132-152	1.6	37	
92	LOCALLY ADAPTIVE LAG-WINDOW SPECTRAL ESTIMATION. <i>Journal of Time Series Analysis</i> , <b>1996</b> , 17, 247-270	0.8	37	
91	High-dimensional variable screening and bias in subsequent inference, with an empirical comparison. <i>Computational Statistics</i> , <b>2014</b> , 29, 407-430	1	35	
90	Variable Length Markov Chains: Methodology, Computing, and Software. <i>Journal of Computational and Graphical Statistics</i> , <b>2004</b> , 13, 435-455	1.4	34	
89	Protein and gene model inference based on statistical modeling in k-partite graphs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 12101-6	11.5	33	
88	Asymptotic optimality of the WestfallBoung permutation procedure for multiple testing under dependence. <i>Annals of Statistics</i> , <b>2011</b> , 39,	3.2	32	
87	Understanding human functioning using graphical models. <i>BMC Medical Research Methodology</i> , <b>2010</b> , 10, 14	4.7	31	
86	Discussion: One-step sparse estimates in nonconcave penalized likelihood models. <i>Annals of Statistics</i> , <b>2008</b> , 36,	3.2	30	
85	Tree-structured generalized autoregressive conditional heteroscedastic models. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , <b>2001</b> , 63, 727-744	3.9	29	

84	A multi-marker association method for genome-wide association studies without the need for population structure correction. <i>Nature Communications</i> , <b>2016</b> , 7, 13299	17.4	28
83	Simultaneous analysis of large-scale RNAi screens for pathogen entry. <i>BMC Genomics</i> , <b>2014</b> , 15, 1162	4.5	28
82	Missing values: sparse inverse covariance estimation and an extension to sparse regression. <i>Statistics and Computing</i> , <b>2012</b> , 22, 219-235	1.8	27
81	Robustification of the PC-Algorithm for Directed Acyclic Graphs. <i>Journal of Computational and Graphical Statistics</i> , <b>2008</b> , 17, 773-789	1.4	27
80	Jointly interventional and observational data: estimation of interventional Markov equivalence classes of directed acyclic graphs. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , <b>2015</b> , 77, 291-318	3.9	26
79	Lower bounds for the number of false null hypotheses for multiple testing of associations under general dependence structures. <i>Biometrika</i> , <b>2005</b> , 92, 893-907	2	26
78	Moving-average representation of autoregressive approximations. <i>Stochastic Processes and Their Applications</i> , <b>1995</b> , 60, 331-342	1.1	26
77	Bagging, Subagging and Bragging for Improving some Prediction Algorithms <b>2003</b> , 19-34		25
76	Dynamic adaptive partitioning for nonlinear time series. <i>Biometrika</i> , <b>1999</b> , 86, 555-571	2	25
75	Volatility estimation with functional gradient descent for very high-dimensional financial time series. <i>Journal of Computational Finance</i> , <b>2003</b> , 6, 65-89	1.7	25
74	Statistical approach to protein quantification. Molecular and Cellular Proteomics, 2014, 13, 666-77	7.6	23
73	Integrative genome-wide expression profiling identifies three distinct molecular subgroups of renal cell carcinoma with different patient outcome. <i>BMC Cancer</i> , <b>2012</b> , 12, 310	4.8	23
72	Robustified L2 boosting. Computational Statistics and Data Analysis, 2008, 52, 3331-3341	1.6	23
71	Assessing statistical significance in multivariable genome wide association analysis. <i>Bioinformatics</i> , <b>2016</b> , 32, 1990-2000	7.2	22
70	Model Selection for Variable Length Markov Chains and Tuning the Context Algorithm. <i>Annals of the Institute of Statistical Mathematics</i> , <b>2000</b> , 52, 287-315	1	22
69	Goodness-of-fit tests for high dimensional linear models. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , <b>2018</b> , 80, 113-135	3.9	21
68	What is a linear process?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1996</b> , 93, 12128-31	11.5	21
67	Invariant Causal Prediction for Sequential Data. <i>Journal of the American Statistical Association</i> , <b>2019</b> , 114, 1264-1276	2.8	20

66	Maximin effects in inhomogeneous large-scale data. Annals of Statistics, 2015, 43,	3.2	20
65	High-dimensional inference in misspecified linear models. <i>Electronic Journal of Statistics</i> , <b>2015</b> , 9,	1.2	20
64	The blockwise bootstrap for general empirical processes of stationary sequences. <i>Stochastic Processes and Their Applications</i> , <b>1995</b> , 58, 247-265	1.1	19
63	Closure of Linear Processes. <i>Journal of Theoretical Probability</i> , <b>1997</b> , 10, 445-479	0.5	18
62	Statistics for big data: A perspective. Statistics and Probability Letters, 2018, 136, 37-41	0.6	17
61	Magging: Maximin Aggregation for Inhomogeneous Large-Scale Data. <i>Proceedings of the IEEE</i> , <b>2016</b> , 104, 126-135	14.3	17
60	Penalized likelihood for sparse contingency tables with an application to full-length cDNA libraries. <i>BMC Bioinformatics</i> , <b>2007</b> , 8, 476	3.6	16
59	Discussion of "the evolution of boosting algorithms" and "extending statistical boosting". <i>Methods of Information in Medicine</i> , <b>2014</b> , 53, 436-45	1.5	15
58	Splines for financial volatility. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , <b>2009</b> , 71, 655-670	3.9	14
57	Smoothing <b>I</b> I-penalized estimators for high-dimensional time-course data. <i>Electronic Journal of Statistics</i> , <b>2007</b> , 1,	1.2	14
56	High dimensional sparse covariance estimation via directed acyclic graphs. <i>Electronic Journal of Statistics</i> , <b>2009</b> , 3,	1.2	14
55	Causal statistical inference in high dimensions. <i>Mathematical Methods of Operations Research</i> , <b>2013</b> , 77, 357-370	1	13
54	Structural intervention distance for evaluating causal graphs. <i>Neural Computation</i> , <b>2015</b> , 27, 771-99	2.9	12
53	Hierarchical Testing in the High-Dimensional Setting With Correlated Variables. <i>Journal of the American Statistical Association</i> , <b>2016</b> , 111, 331-343	2.8	12
52	Two optimal strategies for active learning of causal models from interventional data. <i>International Journal of Approximate Reasoning</i> , <b>2014</b> , 55, 926-939	3.6	12
51	Sieve Bootstrap With Variable-Length Markov Chains for Stationary Categorical Time Series. Journal of the American Statistical Association, <b>2002</b> , 97, 443-471	2.8	12
50	Causal Structure Learning and Inference: A Selective Review. <i>Quality Technology and Quantitative Management</i> , <b>2014</b> , 11, 3-21	1.9	11
49	Extreme events from the return-volume process: a discretization approach for complexity reduction. <i>Applied Financial Economics</i> , <b>1998</b> , 8, 267-278		11

48	Invariance, Causality and Robustness. Statistical Science, 2020, 35,	2.4	10
47	Anchor regression: Heterogeneous data meet causality. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , <b>2021</b> , 83, 215-246	3.9	10
46	Decomposition and model selection for large contingency tables. <i>Biometrical Journal</i> , <b>2010</b> , 52, 233-52	1.5	9
45	Score-based causal learning in additive noise models. <i>Statistics</i> , <b>2016</b> , 50, 471-485	0.5	9
44	Goodness-of-fit testing in high dimensional generalized linear models. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , <b>2020</b> , 82, 773-795	3.9	8
43	Controlling false positive selections in high-dimensional regression and causal inference. <i>Statistical Methods in Medical Research</i> , <b>2013</b> , 22, 466-92	2.3	8
42	Boosting. Wiley Interdisciplinary Reviews: Computational Statistics, <b>2010</b> , 2, 69-74	1.4	8
41	Efficient and adaptive post-model-selection estimators. <i>Journal of Statistical Planning and Inference</i> , <b>1999</b> , 79, 1-9	0.8	8
40	Causal Dantzig: Fast inference in linear structural equation models with hidden variables under additive interventions. <i>Annals of Statistics</i> , <b>2019</b> , 47,	3.2	7
39	Discussion: A significance test for the lasso□ <i>Annals of Statistics</i> , <b>2014</b> , 42,	3.2	6
38	Annotating novel genes by integrating synthetic lethals and genomic information. <i>BMC Systems Biology</i> , <b>2008</b> , 2, 3	3.5	6
37	Hierarchical inference for genome-wide association studies: a view on methodology with software. <i>Computational Statistics</i> , <b>2020</b> , 35, 1-40	1	5
36	Rejoinder: 🛘 -penalization for mixture regression models. <i>Test</i> , <b>2010</b> , 19, 280-285	1.1	5
35	EVE (external variance estimation) increases statistical power for detecting differentially expressed genes. <i>Plant Journal</i> , <b>2007</b> , 52, 561-9	6.9	5
34	Conjugate Direction Boosting. Journal of Computational and Graphical Statistics, 2006, 15, 287-311	1.4	5
33	Nonparametric causal inference from observational time series through marginal integration. <i>Econometrics and Statistics</i> , <b>2017</b> , 2, 81-105	0.8	4
32	A Sequential Rejection Testing Method for High-Dimensional Regression with Correlated Variables. <i>International Journal of Biostatistics</i> , <b>2016</b> , 12, 79-95	1.3	4
31	Marginal integration for nonparametric causal inference. Electronic Journal of Statistics, 2015, 9,	1.2	4

## (2020-2007)

30	Statistical Analysis of Quantum Chemical Data Using Generalized XML/CML Archives for the Derivation of Molecular Design Rules. <i>Chimia</i> , <b>2007</b> , 61, 165-168	1.3	4
29	Network analysis of systems elements. <i>Exs</i> , <b>2007</b> , 97, 331-51		4
28	A Look at Robustness and Stability of \$ell_{1}\$-versus \$ell_{0}\$-Regularization: Discussion of Papers by Bertsimas et al. and Hastie et al <i>Statistical Science</i> , <b>2020</b> , 35,	2.4	4
27	Hypersurfaces and Their Singularities in Partial Correlation Testing. <i>Foundations of Computational Mathematics</i> , <b>2014</b> , 14, 1079-1116	2.7	3
26	Multi-Omic Profiling of the Liver Across Diets and Age in a Diverse Mouse Population		3
25	Causal inference in partially linear structural equation models. <i>Annals of Statistics</i> , <b>2018</b> , 46,	3.2	3
24	High-dimensional statistics, with applications to genome-wide association studies. <i>EMS Surveys in Mathematical Sciences</i> , <b>2017</b> , 4, 45-75	1.4	2
23	Remembrance of Leo Breiman. Annals of Applied Statistics, 2010, 4,	2.1	2
22	Prediction of Spatial Cumulative Distribution Functions Using Subsampling: Comment. <i>Journal of the American Statistical Association</i> , <b>1999</b> , 94, 97	2.8	2
21	Discussion of: TreeletsAn adaptive multi-scale basis for sparse unordered data. <i>Annals of Applied Statistics</i> , <b>2008</b> , 2,	2.1	2
20	Multiomic profiling of the liver across diets and age in a diverse mouse population. <i>Cell Systems</i> , <b>2021</b> ,	10.6	2
19	Deconfounding and Causal Regularisation for Stability and External Validity. <i>International Statistical Review</i> , <b>2020</b> , 88, S114	1.4	2
18	Change-Point Detection for Graphical Models in the Presence of Missing Values. <i>Journal of Computational and Graphical Statistics</i> , <b>2021</b> , 1-12	1.4	2
17	Rejoinder on: High-dimensional simultaneous inference with the bootstrap. <i>Test</i> , <b>2017</b> , 26, 751-758	1.1	1
16	Comments on: Data science, big data and statistics. <i>Test</i> , <b>2019</b> , 28, 330-333	1.1	1
15	Some Themes in High-Dimensional Statistics. <i>Abel Symposia</i> , <b>2016</b> , 1-13	0.9	1
14	Discussion of Big Bayes Stories and BayesBag. Statistical Science, <b>2014</b> , 29,	2.4	1
13	Rejoinder: Invariance, Causality and Robustness. <i>Statistical Science</i> , <b>2020</b> , 35,	2.4	1

12	Boosting Algorithms: with an Application to Bootstrapping Multivariate Time Series 2006, 209-230		1
11	Robust Statistics <b>2014</b> , 51-98		1
10	Stabilizing variable selection and regression. <i>Annals of Applied Statistics</i> , <b>2021</b> , 15,	2.1	1
9	Seeded intervals and noise level estimation in change point detection: a discussion of Fryzlewicz (2020). <i>Journal of the Korean Statistical Society</i> , <b>2020</b> , 49, 1081-1089	0.5	O
8	Partial Least Squares for Heterogeneous Data. <i>Springer Proceedings in Mathematics and Statistics</i> , <b>2016</b> , 3-15	0.2	О
7	Toward causality and improving external validity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 25963-25965	11.5	O
6	SPHN/PHRT: Forming a Swiss-Wide Infrastructure for Data-Driven Sepsis Research. <i>Studies in Health Technology and Informatics</i> , <b>2020</b> , 270, 1163-1167	0.5	О
5	Distributional anchor regression Statistics and Computing, 2022, 32, 39	1.8	O
4	Rejoinder on: Hierarchical inference for genome-wide association studies: a view on methodology with software. <i>Computational Statistics</i> , <b>2020</b> , 35, 59-67	1	
3	Comments on: A random forest guided tour. <i>Test</i> , <b>2016</b> , 25, 239-246	1.1	
2	Boosting and 🛘 -Penalty Methods for High-dimensional Data with Some Applications in Genomics <b>2006</b> , 1-12		
1	Confidence Intervals and Tests for High-Dimensional Models: A Compact Review. <i>Lecture Notes in Statistics</i> , <b>2015</b> , 21-34	2.9	