Olivier Thas

List of Publications by Year in descending order

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Οιινιές Τηλς

#	Article	IF	CITATIONS
1	Butyrate-producing <i>Clostridium</i> cluster XIVa species specifically colonize mucins in an <i>in vitro</i> gut model. ISME Journal, 2013, 7, 949-961.	9.8	501
2	MicroRNA Expression in Induced Sputum of Smokers and Patients with Chronic Obstructive Pulmonary Disease. American Journal of Respiratory and Critical Care Medicine, 2011, 183, 898-906.	5.6	209
3	Multiple putative oncogenes at the chromosome 20q amplicon contribute to colorectal adenoma to carcinoma progression. Gut, 2009, 58, 79-89.	12.1	205
4	Spectral Entropy as an Electroencephalographic Measure of Anesthetic Drug Effect. Anesthesiology, 2004, 101, 34-42.	2.5	153
5	The more, the merrier: heterotroph richness stimulates methanotrophic activity. ISME Journal, 2014, 8, 1945-1948.	9.8	132
6	A broken promise: microbiome differential abundance methods do not control the false discovery rate. Briefings in Bioinformatics, 2019, 20, 210-221.	6.5	132
7	Environmental conditions and community evenness determine the outcome of biological invasion. Nature Communications, 2013, 4, 1383.	12.8	129
8	Accurate particle size distribution determination by nanoparticle tracking analysis based on 2-D Brownian dynamics simulation. Journal of Colloid and Interface Science, 2010, 352, 593-600.	9.4	124
9	Flow cytometry for fast microbial community fingerprinting. Water Research, 2012, 46, 907-919.	11.3	110
10	ddpcRquant: threshold determination for single channel droplet digital PCR experiments. Analytical and Bioanalytical Chemistry, 2015, 407, 5827-5834.	3.7	108
11	Probabilistic Index Models. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2012, 74, 623-671.	2.2	94
12	Using transcriptomics to guide lead optimization in drug discovery projects: Lessons learned from the QSTAR project. Drug Discovery Today, 2015, 20, 505-513.	6.4	80
13	Interactions between κ-carrageenan, milk proteins and modified starch in sterilized dairy desserts. International Dairy Journal, 2006, 16, 482-488.	3.0	76
14	Title is missing!. BioControl, 2003, 48, 39-55.	2.0	70
15	Comparing Distributions. Springer Series in Statistics, 2010, , .	0.9	67
16	Textural properties of gelled dairy desserts containing \hat{I}^{ϱ} -carrageenan and starch. Food Hydrocolloids, 2004, 18, 817-823.	10.7	65
17	A web application for sample size and power calculation in case-control microbiome studies. Bioinformatics, 2016, 32, 2038-2040.	4.1	57
18	On the utility of RNA sample pooling to optimize cost and statistical power in RNA sequencing experiments. BMC Genomics, 2020, 21, 312.	2.8	56

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19	Nextâ€generation technologies and data analytical approaches for epigenomics. Environmental and Molecular Mutagenesis, 2014, 55, 155-170.	2.2	55
20	Breath analysis by gas chromatography-mass spectrometry and electronic nose to screen for pleural mesothelioma: a cross-sectional case-control study. Oncotarget, 2017, 8, 91593-91602.	1.8	55
21	Efficacy of Quetiapine for Impulsivity and Affective Symptoms in Borderline Personality Disorder. Journal of Clinical Psychopharmacology, 2008, 28, 147-155.	1.4	53
22	Influence of polyelectrolyte characteristics on pressure-driven activated sludge dewatering. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 262, 40-51.	4.7	52
23	Comparison of computer-controlled administration of propofol with two manually controlled infusion techniques. Anaesthesia, 1997, 52, 41-50.	3.8	50
24	VirVarSeq: a low-frequency virus variant detection pipeline for Illumina sequencing using adaptive base-calling accuracy filtering. Bioinformatics, 2015, 31, 94-101.	4.1	47
25	A comprehensive overview of genomic imprinting in breast and its deregulation in cancer. Nature Communications, 2018, 9, 4120.	12.8	47
26	Optimization of sewage sludge conditioning and pressure dewatering by statistical modelling. Water Research, 2008, 42, 1061-1074.	11.3	45
27	The Effect of Clinical Covariates on the Diagnostic and Prognostic Value of Soluble Mesothelin and Megakaryocyte Potentiating Factor. Chest, 2012, 141, 477-484.	0.8	44
28	Differential gene expression analysis tools exhibit substandard performance for long non-coding RNA-sequencing data. Genome Biology, 2018, 19, 96.	8.8	43
29	New Composite Index Based on Midlatency Auditory Evoked Potential and Electroencephalographic Parameters to Optimize Correlation with Propofol Effect Site Concentration. Anesthesiology, 2005, 103, 500-507.	2.5	39
30	Determination of water droplet size distribution in butter: Pulsed field gradient NMR in comparison with confocal scanning laser microscopy. International Dairy Journal, 2008, 18, 12-22.	3.0	38
31	Multi-method approach indicates no presence of sub-lethally injured Listeria monocytogenes cells after mild heat treatment. International Journal of Food Microbiology, 2008, 123, 262-268.	4.7	36
32	Increasing the power of the Mannâ€Whitney test in randomized experiments through flexible covariate adjustment. Statistics in Medicine, 2015, 34, 1012-1030.	1.6	33
33	The Future of Digital Polymerase Chain Reaction in Virology. Molecular Diagnosis and Therapy, 2016, 20, 437-447.	3.8	33
34	Determination of the Refractive Index of Water-dispersible Granules for Use in Laser Diffraction Experiments. Particle and Particle Systems Characterization, 2002, 19, 426-432.	2.3	32
35	How to estimate moments and quantiles of environmental data sets with non-detected observations? A case study on volatile organic compounds in marine water samples. Journal of Chromatography A, 2002, 975, 123-133.	3.7	32
36	Correcting Standard Errors in Two-stage Estimation Procedures with Generated Regressands*. Oxford Bulletin of Economics and Statistics, 2005, 67, 421-433.	1.7	32

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37	Implementing isolation perimeters around genetically modified maize fields. Agronomy for Sustainable Development, 2007, 27, 155-165.	5.3	32
38	A predictive model for dysphagia following IMRT for head and neck cancer: Introduction of the EMLasso technique. Radiotherapy and Oncology, 2013, 107, 295-299.	0.6	31
39	Sequence count data are poorly fit by the negative binomial distribution. PLoS ONE, 2020, 15, e0224909.	2.5	31
40	Smooth Tests for the Zero-Inflated Poisson Distribution. Biometrics, 2005, 61, 808-815.	1.4	30
41	SPsimSeq: semi-parametric simulation of bulk and single-cell RNA-sequencing data. Bioinformatics, 2020, 36, 3276-3278.	4.1	30
42	Mixture design approach on the dynamic rheological and uniaxial compression behaviour of milk desserts. Food Hydrocolloids, 2003, 17, 311-320.	10.7	28
43	Model-based analysis of the relationship between macroinvertebrate traits and environmental river conditions. Environmental Modelling and Software, 2018, 106, 57-67.	4.5	28
44	Development of a Multicomponent Prediction Model for Acute Esophagitis in Lung Cancer Patients Receiving Chemoradiotherapy. International Journal of Radiation Oncology Biology Physics, 2011, 81, 537-544.	0.8	27
45	Exhaled breath to screen for malignant pleural mesothelioma: a validation study. European Respiratory Journal, 2017, 50, 1700919.	6.7	27
46	Comparison of the Abiotic Preferences of Macroinvertebrates in Tropical River Basins. PLoS ONE, 2014, 9, e108898.	2.5	25
47	Four-dimensional imaging and computer-assisted track analysis of nuclear migration in root hairs of Arabidopsis thaliana. Journal of Microscopy, 2003, 211, 167-178.	1.8	24
48	A GENERALIZED EMERSON RECURRENCE RELATION. Australian and New Zealand Journal of Statistics, 2008, 50, 235-240.	0.9	24
49	Trends in atmospheric nitrogen and sulphur deposition in northern Belgium. Atmospheric Environment, 2012, 49, 186-196.	4.1	24
50	Determining environmental standards using bootstrapping, bayesian and maximum likelihood techniques: a comparative study. Analytica Chimica Acta, 2001, 446, 427-436.	5.4	22
51	A Regression Framework for Rank Tests Based on the Probabilistic Index Model. Journal of the American Statistical Association, 2015, 110, 1276-1283.	3.1	20
52	Seasonality Modifies the Effect of a Lipid-Based Nutrient Supplement for Pregnant Rural Women on Birth Length. Journal of Nutrition, 2015, 145, 634-639.	2.9	20
53	Feasibility of isolation perimeters for genetically modified maize. Agronomy for Sustainable Development, 2008, 28, 195-206.	5.3	19
54	EMLasso: logistic lasso with missing data. Statistics in Medicine, 2013, 32, 3143-3157.	1.6	18

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55	Detection of malignant pleural mesothelioma in exhaled breath by multicapillary column/ion mobility spectrometry (MCC/IMS). Journal of Breath Research, 2016, 10, 046001.	3.0	18
56	A Closer Look on Spatiotemporal Variations of Dissolved Oxygen in Waste Stabilization Ponds Using Mixed Models. Water (Switzerland), 2018, 10, 201.	2.7	18
57	Reducing Bias in Digital PCR Quantification Experiments: The Importance of Appropriately Modeling Volume Variability. Analytical Chemistry, 2018, 90, 6540-6547.	6.5	17
58	Easily applied tests of fit for the Rayleigh distribution. Sankhya B, 2010, 72, 254-263.	0.9	16
59	Tests for Symmetry Based on the One-Sample Wilcoxon Signed Rank Statistic. Communications in Statistics Part B: Simulation and Computation, 2005, 34, 957-973.	1.2	15
60	The potential for adaptation in a natural Daphnia magna population: broad and narrow-sense heritability of net reproductive rate under Cd stress at two temperatures. Ecotoxicology, 2012, 21, 1899-1910.	2.4	15
61	Improved base-calling and quality scores for 454 sequencing based on a Hurdle Poisson model. BMC Bioinformatics, 2012, 13, 303.	2.6	15
62	An extension of the Wilcoxon-Mann-Whitney test for analyzing RT-qPCR data. Statistical Applications in Genetics and Molecular Biology, 2013, 12, 333-46.	0.6	15
63	Dissemination and Implementation of the ARIA Guidelines for Allergic Rhinitis in General Practice. International Archives of Allergy and Immunology, 2014, 163, 106-113.	2.1	15
64	Excretion of endogenous boldione in human urine: Influence of phytosterol consumption. Journal of Steroid Biochemistry and Molecular Biology, 2009, 117, 8-14.	2.5	14
65	Flexible analysis of digital PCR experiments using generalized linear mixed models. Biomolecular Detection and Quantification, 2016, 9, 1-13.	7.0	14
66	A unified framework for unconstrained and constrained ordination of microbiome read count data. PLoS ONE, 2019, 14, e0205474.	2.5	14
67	Pitfalls in Prediction Modeling for Normal Tissue Toxicity in Radiation Therapy: An Illustration With the Individual Radiation Sensitivity and Mammary Carcinoma Risk Factor Investigation Cohorts. International Journal of Radiation Oncology Biology Physics, 2016, 95, 1466-1476.	0.8	13
68	ViVaMBC: estimating viral sequence variation in complex populations from illumina deep-sequencing data using model-based clustering. BMC Bioinformatics, 2015, 16, 59.	2.6	12
69	Quality control of digital PCR assays and platforms. Analytical and Bioanalytical Chemistry, 2017, 409, 5919-5931.	3.7	12
70	BIGL: Biochemically Intuitive Generalized Loewe null model for prediction of the expected combined effect compatible with partial agonism and antagonism. Scientific Reports, 2017, 7, 17935.	3.3	12
71	Unbiasedness and efficiency of non-parametric and UMVUE estimators of the probabilistic index and related statistics. Statistical Methods in Medical Research, 2021, 30, 747-768.	1.5	12
72	Some generalizations of the Anderson–Darling statistic. Statistics and Probability Letters, 2003, 64, 255-261.	0.7	11

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73	Goodness of fit for the zero-truncated Poisson distribution. Journal of Statistical Computation and Simulation, 2007, 77, 585-591.	1.2	11
74	Informative Statistical Analyses Using Smooth Goodness of Fit Tests. Journal of Statistical Theory and Practice, 2009, 3, 705-733.	0.5	11
75	A method to search for optimal field allocations of transgenic maize in the context of co-existence. Environmental Biosafety Research, 2008, 7, 97-104.	1.1	11
76	Biodiversity of Freshwater Diatom Communities during 1000 Years of Metal Mining, Land Use, and Climate Change in Central Sweden. Environmental Science & Technology, 2012, 46, 9097-9105.	10.0	10
77	Comparison of Five Tests of Fit for the Extreme Value Distribution. Journal of Statistical Theory and Practice, 2007, 1, 89-99.	0.5	9
78	Using orthogonal trend contrasts for testing ranked data with ordered alternatives. Statistica Neerlandica, 2012, 66, 452-471.	1.6	9
79	A Mann–Whitney type effect measure of interaction for factorial designs. Communications in Statistics - Theory and Methods, 2017, 46, 11243-11260.	1.0	9
80	Statistically-Based Comparison of the Removal Efficiencies and Resilience Capacities between Conventional and Natural Wastewater Treatment Systems: A Peak Load Scenario. Water (Switzerland), 2018, 10, 328.	2.7	9
81	A Nonparametric Test for Independence Based on Sample Space Partitions. Communications in Statistics Part B: Simulation and Computation, 2004, 33, 711-728.	1.2	8
82	Constrained ordination analysis in the presence of zero inflation. Statistical Modelling, 2012, 12, 463-485.	1.1	8
83	Use of trachea-bronchial swab qPCR testing to confirm Mycoplasma hyopneumoniae seropositivity in an SPF breeding herd. Porcine Health Management, 2018, 4, 12.	2.6	8
84	Semiparametric linear transformation models: Effect measures, estimators, and applications. Statistics in Medicine, 2019, 38, 1484-1501.	1.6	8
85	Generalised Smooth Tests of Goodness of Fit. Journal of Statistical Theory and Practice, 2009, 3, 665-679.	0.5	7
86	Smooth tests for the gamma distribution. Journal of Statistical Computation and Simulation, 2011, 81, 843-855.	1.2	7
87	An Omnibus Consistent Adaptive Percentile Modified Wilcoxon Rank Sum Test with Applications in Gene Expression Studies. Biometrics, 2012, 68, 446-454.	1.4	7
88	Robust regression methods for real-time polymerase chain reaction. Analytical Biochemistry, 2015, 480, 34-36.	2.4	7
89	Prognostic and Therapeutic Implications of Circulating Androgen Receptor Gene Copy Number in Prostate Cancer Patients Using Droplet Digital Polymerase Chain Reaction. Clinical Genitourinary Cancer, 2018, 16, 197-205.e5.	1.9	7
90	An extension of the Anderson–Darlingk-sample test to arbitrary sample space partition sizes. Journal of Statistical Computation and Simulation, 2004, 74, 651-665.	1.2	6

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91	Regional residual plots for assessing the fit of linear regression models. Computational Statistics and Data Analysis, 2006, 50, 1995-2013.	1.2	6
92	Smooth tests of goodness of fit. Wiley Interdisciplinary Reviews: Computational Statistics, 2011, 3, 397-406.	3.9	6
93	Goodness-of-Fit Methods for Probabilistic Index Models. Communications in Statistics - Theory and Methods, 2013, 42, 1193-1207.	1.0	6
94	Extended Analysis of At Least Partially Ordered Multiâ€factor ANOVA. Australian and New Zealand Journal of Statistics, 2015, 57, 211-224.	0.9	6
95	A unified censored normal regression model for qPCR differential gene expression analysis. PLoS ONE, 2017, 12, e0182832.	2.5	6
96	Model-Based Analysis of Increased Loads on the Performance of Activated Sludge and Waste Stabilization Ponds. Water (Switzerland), 2018, 10, 1410.	2.7	6
97	Confirmation of <i>Mycoplasma hyopneumoniae</i> in a breeding herd through tracheobronchial swab sampling and PCR. Veterinary Record, 2018, 183, 325-325.	0.3	6
98	Evaluation of a zinc chelate on clinical swine dysentery under field conditions. Porcine Health Management, 2020, 6, 1.	2.6	6
99	Comparison of some tests of fit for the Laplace distribution. Computational Statistics and Data Analysis, 2008, 52, 5338-5343.	1.2	5
100	Nonparametric trend detection in river monitoring network data: a spatioâ€ŧemporal approach. Environmetrics, 2009, 20, 283-297.	1.4	5
101	Comments on: Goodness-of-fit tests in mixed modes. Test, 2009, 18, 260-264.	1.1	5
102	Fast Wavelet Based Functional Models for Transcriptome Analysis with Tiling Arrays. Statistical Applications in Genetics and Molecular Biology, 2012, 11, 1-36.	0.6	5
103	Mining for viral fragments in methylation enriched sequencing data. Frontiers in Genetics, 2015, 6, 16.	2.3	5
104	Quantifying the uncertainty of a model-reconstructed soilscape for archaeological land evaluation. Geoderma, 2018, 320, 74-81.	5.1	5
105	Small sample inference for probabilistic index models. Computational Statistics and Data Analysis, 2018, 121, 137-148.	1.2	5
106	A Practical Protocol for the Experimental Design of Comparative Studies on Water Treatment. Water (Switzerland), 2019, 11, 162.	2.7	5
107	Statistical Thinking in Computerâ€Based Learning Environments. International Statistical Review, 2007, 75, 365-371.	1.9	4
108	Tests and Diagnostic Plots for Detecting Lackâ€ofâ€Fit for Circularâ€Linear Regression Models. Biometrics, 2008, 64, 912-920.	1.4	4

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109	Testing for trends in the violation frequency of an environmental threshold in rivers. Environmetrics, 2009, 20, 53-67.	1.4	4
110	Anscombe's Tests of Fit for the Negative Binomial Distribution. Journal of Statistical Theory and Practice, 2009, 3, 555-565.	0.5	4
111	Relating taxonomy-based traits of macroinvertebrates with river sediment quality based on basic and zero-inflated Poisson models. Ecological Informatics, 2013, 18, 49-60.	5.2	4
112	unifiedWMWqPCR: the unified Wilcoxon-Mann-Whitney test for analyzing RT-qPCR data in R. Bioinformatics, 2014, 30, 2494-2495.	4.1	4
113	Constrained Ordination Analysis with Enrichment of Bell-Shaped Response Functions. PLoS ONE, 2016, 11, e0154079.	2.5	4
114	A new approach for modeling patient overall radiosensitivity and predicting multiple toxicity endpoints for breast cancer patients. Acta Oncológica, 2018, 57, 604-612.	1.8	4
115	Model-based joint visualization of multiple compositional omics datasets. NAR Genomics and Bioinformatics, 2020, 2, Iqaa050.	3.2	4
116	Exploring the Microbiome Analysis and Visualization Landscape. Frontiers in Bioinformatics, 2021, 1, .	2.1	4
117	<i>X</i> ² and its components as tests of normality for grouped data. Journal of Applied Statistics, 2008, 35, 481-492.	1.3	3
118	Calculating Bivariate Orthonormal Polynomials By Recurrence. Australian and New Zealand Journal of Statistics, 2013, 55, 15-24.	0.9	3
119	Assessing the fit of finite mixture distributions. Australian and New Zealand Journal of Statistics, 2017, 59, 463-483.	0.9	3
120	On determining the power of digital PCR experiments. Analytical and Bioanalytical Chemistry, 2018, 410, 5731-5739.	3.7	3
121	Graduate Education in Statistics and Data Science: The Why, When, Where, Who, and What. Annual Review of Statistics and Its Application, 2021, 8, 25-39.	7.0	3
122	DATAâ€DRIVEN SMOOTH TESTS AND A DIAGNOSTIC TOOL FOR LACKâ€OFâ€FIT FOR CIRCULAR DATA. Australian New Zealand Journal of Statistics, 2009, 51, 461-480.	and 9.9	2
123	Generalised Smooth Tests for the Generalised Pareto Distribution. Journal of Statistical Theory and Practice, 2011, 5, 737-750.	0.5	2
124	Development of a 3':5' digital PCR assay to determine horse mRNA integrity. Analytical Biochemistry, 2021, 626, 114217.	2.4	2
125	From Population to Subject-Specific Reference Intervals. Lecture Notes in Computer Science, 2020, , 468-482.	1.3	2
126	MORE INFORMATIVE TESTING FOR BIVARIATE SYMMETRY. Australian and New Zealand Journal of Statistics, 2005, 47, 211-217.	0.9	1

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127	Statistical detection of synergy: New methods and a comparative study. Pharmaceutical Statistics, 2022, 21, 345-360.	1.3	1
128	Forecasting the Feasibility of Implementing Isolation Perimeters Between GM and non-GM Maize Fields Under Agricultural Conditions. , 2008, , .		0
129	Introduction to Modern Goodness of Fit Methods. Journal of Statistical Theory and Practice, 2009, 3, 537-541.	0.5	0
130	Four tests of fit for the beta-binomial distribution. Journal of Applied Statistics, 2010, 37, 1547-1554.	1.3	0
131	Analysis of tiling array expression studies with flexible designs in Bioconductor (waveTiling). BMC Bioinformatics, 2012, 13, 234.	2.6	Ο
132	Generalised Smooth Tests of Goodness of Fit Utilising Lâ€moments. Australian and New Zealand Journal of Statistics, 2015, 57, 481-499.	0.9	0
133	A proportional score test over the nuisance parameter space: Properties and applications. Statistics and Probability Letters, 2015, 106, 295-300.	0.7	Ο
134	Principal bicorrelation analysis: Unraveling associations between three data sources. Journal of Biopharmaceutical Statistics, 2016, 26, 534-551.	0.8	0
135	High-dimensional prediction of binary outcomes in the presence of between-study heterogeneity. Statistical Methods in Medical Research, 2019, 28, 2848-2867.	1.5	Ο
136	Regulatory Networks Governed by MicroRNAs in T-ALL Oncogenesis and Normal T-Cell Development. Blood, 2011, 118, 1366-1366.	1.4	0
137	Smooth Tests of Fit for Gaussian Mixtures. Studies in Classification, Data Analysis, and Knowledge Organization, 2015, , 133-142.	0.2	0
138	Smooth tests of goodness of fit for the distributional assumption of regression models. Australian and New Zealand Journal of Statistics, 0, , .	0.9	0