

Olivier Thas

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/690087/publications.pdf>

Version: 2024-02-01

138
papers

4,181
citations

136950

32
h-index

133252

59
g-index

146
all docs

146
docs citations

146
times ranked

7605
citing authors

#	ARTICLE	IF	CITATIONS
1	Statistical detection of synergy: New methods and a comparative study. <i>Pharmaceutical Statistics</i> , 2022, 21, 345-360.	1.3	1
2	Unbiasedness and efficiency of non-parametric and UMVUE estimators of the probabilistic index and related statistics. <i>Statistical Methods in Medical Research</i> , 2021, 30, 747-768.	1.5	12
3	Graduate Education in Statistics and Data Science: The Why, When, Where, Who, and What. <i>Annual Review of Statistics and Its Application</i> , 2021, 8, 25-39.	7.0	3
4	Development of a 3â€™:5â€™ digital PCR assay to determine horse mRNA integrity. <i>Analytical Biochemistry</i> , 2021, 626, 114217.	2.4	2
5	Exploring the Microbiome Analysis and Visualization Landscape. <i>Frontiers in Bioinformatics</i> , 2021, 1, .	2.1	4
6	Model-based joint visualization of multiple compositional omics datasets. <i>NAR Genomics and Bioinformatics</i> , 2020, 2, lqaa050.	3.2	4
7	Evaluation of a zinc chelate on clinical swine dysentery under field conditions. <i>Porcine Health Management</i> , 2020, 6, 1.	2.6	6
8	SPsimSeq: semi-parametric simulation of bulk and single-cell RNA-sequencing data. <i>Bioinformatics</i> , 2020, 36, 3276-3278.	4.1	30
9	Sequence count data are poorly fit by the negative binomial distribution. <i>PLoS ONE</i> , 2020, 15, e0224909.	2.5	31
10	On the utility of RNA sample pooling to optimize cost and statistical power in RNA sequencing experiments. <i>BMC Genomics</i> , 2020, 21, 312.	2.8	56
11	From Population to Subject-Specific Reference Intervals. <i>Lecture Notes in Computer Science</i> , 2020, , 468-482.	1.3	2
12	High-dimensional prediction of binary outcomes in the presence of between-study heterogeneity. <i>Statistical Methods in Medical Research</i> , 2019, 28, 2848-2867.	1.5	0
13	Semiparametric linear transformation models: Effect measures, estimators, and applications. <i>Statistics in Medicine</i> , 2019, 38, 1484-1501.	1.6	8
14	A Practical Protocol for the Experimental Design of Comparative Studies on Water Treatment. <i>Water (Switzerland)</i> , 2019, 11, 162.	2.7	5
15	A unified framework for unconstrained and constrained ordination of microbiome read count data. <i>PLoS ONE</i> , 2019, 14, e0205474.	2.5	14
16	A broken promise: microbiome differential abundance methods do not control the false discovery rate. <i>Briefings in Bioinformatics</i> , 2019, 20, 210-221.	6.5	132
17	Quantifying the uncertainty of a model-reconstructed soilscape for archaeological land evaluation. <i>Geoderma</i> , 2018, 320, 74-81.	5.1	5
18	Prognostic and Therapeutic Implications of Circulating Androgen Receptor Gene Copy Number in Prostate Cancer Patients Using Droplet Digital Polymerase Chain Reaction. <i>Clinical Genitourinary Cancer</i> , 2018, 16, 197-205.e5.	1.9	7

#	ARTICLE	IF	CITATIONS
19	Small sample inference for probabilistic index models. <i>Computational Statistics and Data Analysis</i> , 2018, 121, 137-148.	1.2	5
20	A new approach for modeling patient overall radiosensitivity and predicting multiple toxicity endpoints for breast cancer patients. <i>Acta Oncol</i> , 2018, 57, 604-612.	1.8	4
21	Model-based analysis of the relationship between macroinvertebrate traits and environmental river conditions. <i>Environmental Modelling and Software</i> , 2018, 106, 57-67.	4.5	28
22	Model-Based Analysis of Increased Loads on the Performance of Activated Sludge and Waste Stabilization Ponds. <i>Water (Switzerland)</i> , 2018, 10, 1410.	2.7	6
23	A comprehensive overview of genomic imprinting in breast and its deregulation in cancer. <i>Nature Communications</i> , 2018, 9, 4120.	12.8	47
24	Statistically-Based Comparison of the Removal Efficiencies and Resilience Capacities between Conventional and Natural Wastewater Treatment Systems: A Peak Load Scenario. <i>Water (Switzerland)</i> , 2018, 10, 328.	2.7	9
25	On determining the power of digital PCR experiments. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 5731-5739.	3.7	3
26	Differential gene expression analysis tools exhibit substandard performance for long non-coding RNA-sequencing data. <i>Genome Biology</i> , 2018, 19, 96.	8.8	43
27	A Closer Look on Spatiotemporal Variations of Dissolved Oxygen in Waste Stabilization Ponds Using Mixed Models. <i>Water (Switzerland)</i> , 2018, 10, 201.	2.7	18
28	Confirmation of <i>Mycoplasma hyopneumoniae</i> in a breeding herd through tracheobronchial swab sampling and PCR. <i>Veterinary Record</i> , 2018, 183, 325-325.	0.3	6
29	Reducing Bias in Digital PCR Quantification Experiments: The Importance of Appropriately Modeling Volume Variability. <i>Analytical Chemistry</i> , 2018, 90, 6540-6547.	6.5	17
30	Use of trachea-bronchial swab qPCR testing to confirm <i>Mycoplasma hyopneumoniae</i> seropositivity in an SPF breeding herd. <i>Porcine Health Management</i> , 2018, 4, 12.	2.6	8
31	A Mann-Whitney type effect measure of interaction for factorial designs. <i>Communications in Statistics - Theory and Methods</i> , 2017, 46, 11243-11260.	1.0	9
32	Quality control of digital PCR assays and platforms. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 5919-5931.	3.7	12
33	Assessing the fit of finite mixture distributions. <i>Australian and New Zealand Journal of Statistics</i> , 2017, 59, 463-483.	0.9	3
34	Exhaled breath to screen for malignant pleural mesothelioma: a validation study. <i>European Respiratory Journal</i> , 2017, 50, 1700919.	6.7	27
35	Breath analysis by gas chromatography-mass spectrometry and electronic nose to screen for pleural mesothelioma: a cross-sectional case-control study. <i>Oncotarget</i> , 2017, 8, 91593-91602.	1.8	55
36	A unified censored normal regression model for qPCR differential gene expression analysis. <i>PLoS ONE</i> , 2017, 12, e0182832.	2.5	6

#	ARTICLE	IF	CITATIONS
37	BIGL: Biochemically Intuitive Generalized Loewe null model for prediction of the expected combined effect compatible with partial agonism and antagonism. <i>Scientific Reports</i> , 2017, 7, 17935.	3.3	12
38	Constrained Ordination Analysis with Enrichment of Bell-Shaped Response Functions. <i>PLoS ONE</i> , 2016, 11, e0154079.	2.5	4
39	The Future of Digital Polymerase Chain Reaction in Virology. <i>Molecular Diagnosis and Therapy</i> , 2016, 20, 437-447.	3.8	33
40	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. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016, 95, 1466-1476.	0.8	13
41	Detection of malignant pleural mesothelioma in exhaled breath by multicapillary column/ion mobility spectrometry (MCC/IMS). <i>Journal of Breath Research</i> , 2016, 10, 046001.	3.0	18
42	Flexible analysis of digital PCR experiments using generalized linear mixed models. <i>Biomolecular Detection and Quantification</i> , 2016, 9, 1-13.	7.0	14
43	A web application for sample size and power calculation in case-control microbiome studies. <i>Bioinformatics</i> , 2016, 32, 2038-2040.	4.1	57
44	Principal bicorrelation analysis: Unraveling associations between three data sources. <i>Journal of Biopharmaceutical Statistics</i> , 2016, 26, 534-551.	0.8	0
45	Generalised Smooth Tests of Goodness of Fit Utilising L [∞] moments. <i>Australian and New Zealand Journal of Statistics</i> , 2015, 57, 481-499.	0.9	0
46	Extended Analysis of At Least Partially Ordered Multi-factor ANOVA. <i>Australian and New Zealand Journal of Statistics</i> , 2015, 57, 211-224.	0.9	6
47	ddpcRquant: threshold determination for single channel droplet digital PCR experiments. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 5827-5834.	3.7	108
48	Using transcriptomics to guide lead optimization in drug discovery projects: Lessons learned from the QSTAR project. <i>Drug Discovery Today</i> , 2015, 20, 505-513.	6.4	80
49	Mining for viral fragments in methylation enriched sequencing data. <i>Frontiers in Genetics</i> , 2015, 6, 16.	2.3	5
50	A proportional score test over the nuisance parameter space: Properties and applications. <i>Statistics and Probability Letters</i> , 2015, 106, 295-300.	0.7	0
51	A Regression Framework for Rank Tests Based on the Probabilistic Index Model. <i>Journal of the American Statistical Association</i> , 2015, 110, 1276-1283.	3.1	20
52	ViVaMBC: estimating viral sequence variation in complex populations from illumina deep-sequencing data using model-based clustering. <i>BMC Bioinformatics</i> , 2015, 16, 59.	2.6	12
53	Seasonality Modifies the Effect of a Lipid-Based Nutrient Supplement for Pregnant Rural Women on Birth Length. <i>Journal of Nutrition</i> , 2015, 145, 634-639.	2.9	20
54	Robust regression methods for real-time polymerase chain reaction. <i>Analytical Biochemistry</i> , 2015, 480, 34-36.	2.4	7

#	ARTICLE	IF	CITATIONS
55	Increasing the power of the Mann-Whitney test in randomized experiments through flexible covariate adjustment. <i>Statistics in Medicine</i> , 2015, 34, 1012-1030.	1.6	33
56	VirVarSeq: a low-frequency virus variant detection pipeline for Illumina sequencing using adaptive base-calling accuracy filtering. <i>Bioinformatics</i> , 2015, 31, 94-101.	4.1	47
57	Smooth Tests of Fit for Gaussian Mixtures. <i>Studies in Classification, Data Analysis, and Knowledge Organization</i> , 2015, , 133-142.	0.2	0
58	Dissemination and Implementation of the ARIA Guidelines for Allergic Rhinitis in General Practice. <i>International Archives of Allergy and Immunology</i> , 2014, 163, 106-113.	2.1	15
59	unifiedWMWqPCR: the unified Wilcoxon-Mann-Whitney test for analyzing RT-qPCR data in R. <i>Bioinformatics</i> , 2014, 30, 2494-2495.	4.1	4
60	Next-generation technologies and data analytical approaches for epigenomics. <i>Environmental and Molecular Mutagenesis</i> , 2014, 55, 155-170.	2.2	55
61	The more, the merrier: heterotroph richness stimulates methanotrophic activity. <i>ISME Journal</i> , 2014, 8, 1945-1948.	9.8	132
62	Comparison of the Abiotic Preferences of Macroinvertebrates in Tropical River Basins. <i>PLoS ONE</i> , 2014, 9, e108898.	2.5	25
63	Relating taxonomy-based traits of macroinvertebrates with river sediment quality based on basic and zero-inflated Poisson models. <i>Ecological Informatics</i> , 2013, 18, 49-60.	5.2	4
64	Calculating Bivariate Orthonormal Polynomials By Recurrence. <i>Australian and New Zealand Journal of Statistics</i> , 2013, 55, 15-24.	0.9	3
65	A predictive model for dysphagia following IMRT for head and neck cancer: Introduction of the EMLasso technique. <i>Radiotherapy and Oncology</i> , 2013, 107, 295-299.	0.6	31
66	Environmental conditions and community evenness determine the outcome of biological invasion. <i>Nature Communications</i> , 2013, 4, 1383.	12.8	129
67	Butyrate-producing <i>Clostridium</i> cluster XIVa species specifically colonize mucins in an <i>in vitro</i> gut model. <i>ISME Journal</i> , 2013, 7, 949-961.	9.8	501
68	An extension of the Wilcoxon-Mann-Whitney test for analyzing RT-qPCR data. <i>Statistical Applications in Genetics and Molecular Biology</i> , 2013, 12, 333-46.	0.6	15
69	Goodness-of-Fit Methods for Probabilistic Index Models. <i>Communications in Statistics - Theory and Methods</i> , 2013, 42, 1193-1207.	1.0	6
70	EMLasso: logistic lasso with missing data. <i>Statistics in Medicine</i> , 2013, 32, 3143-3157.	1.6	18
71	Constrained ordination analysis in the presence of zero inflation. <i>Statistical Modelling</i> , 2012, 12, 463-485.	1.1	8
72	The Effect of Clinical Covariates on the Diagnostic and Prognostic Value of Soluble Mesothelin and Megakaryocyte Potentiating Factor. <i>Chest</i> , 2012, 141, 477-484.	0.8	44

#	ARTICLE	IF	CITATIONS
73	Fast Wavelet Based Functional Models for Transcriptome Analysis with Tiling Arrays. <i>Statistical Applications in Genetics and Molecular Biology</i> , 2012, 11, 1-36.	0.6	5
74	The potential for adaptation in a natural <i>Daphnia magna</i> population: broad and narrow-sense heritability of net reproductive rate under Cd stress at two temperatures. <i>Ecotoxicology</i> , 2012, 21, 1899-1910.	2.4	15
75	Flow cytometry for fast microbial community fingerprinting. <i>Water Research</i> , 2012, 46, 907-919.	11.3	110
76	Improved base-calling and quality scores for 454 sequencing based on a Hurdle Poisson model. <i>BMC Bioinformatics</i> , 2012, 13, 303.	2.6	15
77	Biodiversity of Freshwater Diatom Communities during 1000 Years of Metal Mining, Land Use, and Climate Change in Central Sweden. <i>Environmental Science & Technology</i> , 2012, 46, 9097-9105.	10.0	10
78	Analysis of tiling array expression studies with flexible designs in Bioconductor (waveTiling). <i>BMC Bioinformatics</i> , 2012, 13, 234.	2.6	0
79	Trends in atmospheric nitrogen and sulphur deposition in northern Belgium. <i>Atmospheric Environment</i> , 2012, 49, 186-196.	4.1	24
80	An Omnibus Consistent Adaptive Percentile Modified Wilcoxon Rank Sum Test with Applications in Gene Expression Studies. <i>Biometrics</i> , 2012, 68, 446-454.	1.4	7
81	Using orthogonal trend contrasts for testing ranked data with ordered alternatives. <i>Statistica Neerlandica</i> , 2012, 66, 452-471.	1.6	9
82	Probabilistic Index Models. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 2012, 74, 623-671.	2.2	94
83	Development of a Multicomponent Prediction Model for Acute Esophagitis in Lung Cancer Patients Receiving Chemoradiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011, 81, 537-544.	0.8	27
84	Generalised Smooth Tests for the Generalised Pareto Distribution. <i>Journal of Statistical Theory and Practice</i> , 2011, 5, 737-750.	0.5	2
85	Smooth tests of goodness of fit. <i>Wiley Interdisciplinary Reviews: Computational Statistics</i> , 2011, 3, 397-406.	3.9	6
86	MicroRNA Expression in Induced Sputum of Smokers and Patients with Chronic Obstructive Pulmonary Disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2011, 183, 898-906.	5.6	209
87	Smooth tests for the gamma distribution. <i>Journal of Statistical Computation and Simulation</i> , 2011, 81, 843-855.	1.2	7
88	Regulatory Networks Governed by MicroRNAs in T-ALL Oncogenesis and Normal T-Cell Development. <i>Blood</i> , 2011, 118, 1366-1366.	1.4	0
89	Easily applied tests of fit for the Rayleigh distribution. <i>Sankhya B</i> , 2010, 72, 254-263.	0.9	16
90	Accurate particle size distribution determination by nanoparticle tracking analysis based on 2-D Brownian dynamics simulation. <i>Journal of Colloid and Interface Science</i> , 2010, 352, 593-600.	9.4	124

#	ARTICLE	IF	CITATIONS
91	Comparing Distributions. Springer Series in Statistics, 2010, , .	0.9	67
92	Four tests of fit for the beta-binomial distribution. Journal of Applied Statistics, 2010, 37, 1547-1554.	1.3	0
93	Introduction to Modern Goodness of Fit Methods. Journal of Statistical Theory and Practice, 2009, 3, 537-541.	0.5	0
94	Testing for trends in the violation frequency of an environmental threshold in rivers. Environmetrics, 2009, 20, 53-67.	1.4	4
95	Nonparametric trend detection in river monitoring network data: a spatio-temporal approach. Environmetrics, 2009, 20, 283-297.	1.4	5
96	Comments on: Goodness-of-fit tests in mixed modes. Test, 2009, 18, 260-264.	1.1	5
97	DATA-DRIVEN SMOOTH TESTS AND A DIAGNOSTIC TOOL FOR LACK-OF-FIT FOR CIRCULAR DATA. Australian and New Zealand Journal of Statistics, 2009, 51, 461-480.	0.9	2
98	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
99	Multiple putative oncogenes at the chromosome 20q amplicon contribute to colorectal adenoma to carcinoma progression. Gut, 2009, 58, 79-89.	12.1	205
100	Anscombe's Tests of Fit for the Negative Binomial Distribution. Journal of Statistical Theory and Practice, 2009, 3, 555-565.	0.5	4
101	Generalised Smooth Tests of Goodness of Fit. Journal of Statistical Theory and Practice, 2009, 3, 665-679.	0.5	7
102	Informative Statistical Analyses Using Smooth Goodness of Fit Tests. Journal of Statistical Theory and Practice, 2009, 3, 705-733.	0.5	11
103	Comparison of some tests of fit for the Laplace distribution. Computational Statistics and Data Analysis, 2008, 52, 5338-5343.	1.2	5
104	Feasibility of isolation perimeters for genetically modified maize. Agronomy for Sustainable Development, 2008, 28, 195-206.	5.3	19
105	Tests and Diagnostic Plots for Detecting Lack-of-Fit for Circular-Linear Regression Models. Biometrics, 2008, 64, 912-920.	1.4	4
106	A GENERALIZED EMERSON RECURRENCE RELATION. Australian and New Zealand Journal of Statistics, 2008, 50, 235-240.	0.9	24
107	Multi-method approach indicates no presence of sub-lethally injured <i>Listeria monocytogenes</i> cells after mild heat treatment. International Journal of Food Microbiology, 2008, 123, 262-268.	4.7	36
108	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

#	ARTICLE	IF	CITATIONS
109	Optimization of sewage sludge conditioning and pressure dewatering by statistical modelling. <i>Water Research</i> , 2008, 42, 1061-1074.	11.3	45
110	Forecasting the Feasibility of Implementing Isolation Perimeters Between GM and non-GM Maize Fields Under Agricultural Conditions. , 2008, , .		0
111	χ^2 and its components as tests of normality for grouped data. <i>Journal of Applied Statistics</i> , 2008, 35, 481-492.	1.3	3
112	Efficacy of Quetiapine for Impulsivity and Affective Symptoms in Borderline Personality Disorder. <i>Journal of Clinical Psychopharmacology</i> , 2008, 28, 147-155.	1.4	53
113	A method to search for optimal field allocations of transgenic maize in the context of co-existence. <i>Environmental Biosafety Research</i> , 2008, 7, 97-104.	1.1	11
114	Comparison of Five Tests of Fit for the Extreme Value Distribution. <i>Journal of Statistical Theory and Practice</i> , 2007, 1, 89-99.	0.5	9
115	Goodness of fit for the zero-truncated Poisson distribution. <i>Journal of Statistical Computation and Simulation</i> , 2007, 77, 585-591.	1.2	11
116	Statistical Thinking in Computer-Based Learning Environments. <i>International Statistical Review</i> , 2007, 75, 365-371.	1.9	4
117	Implementing isolation perimeters around genetically modified maize fields. <i>Agronomy for Sustainable Development</i> , 2007, 27, 155-165.	5.3	32
118	Interactions between κ -carrageenan, milk proteins and modified starch in sterilized dairy desserts. <i>International Dairy Journal</i> , 2006, 16, 482-488.	3.0	76
119	Regional residual plots for assessing the fit of linear regression models. <i>Computational Statistics and Data Analysis</i> , 2006, 50, 1995-2013.	1.2	6
120	New Composite Index Based on Midlatency Auditory Evoked Potential and Electroencephalographic Parameters to Optimize Correlation with Propofol Effect Site Concentration. <i>Anesthesiology</i> , 2005, 103, 500-507.	2.5	39
121	Influence of polyelectrolyte characteristics on pressure-driven activated sludge dewatering. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005, 262, 40-51.	4.7	52
122	Correcting Standard Errors in Two-stage Estimation Procedures with Generated Regressands*. <i>Oxford Bulletin of Economics and Statistics</i> , 2005, 67, 421-433.	1.7	32
123	MORE INFORMATIVE TESTING FOR BIVARIATE SYMMETRY. <i>Australian and New Zealand Journal of Statistics</i> , 2005, 47, 211-217.	0.9	1
124	Smooth Tests for the Zero-Inflated Poisson Distribution. <i>Biometrics</i> , 2005, 61, 808-815.	1.4	30
125	Tests for Symmetry Based on the One-Sample Wilcoxon Signed Rank Statistic. <i>Communications in Statistics Part B: Simulation and Computation</i> , 2005, 34, 957-973.	1.2	15
126	Textural properties of gelled dairy desserts containing κ -carrageenan and starch. <i>Food Hydrocolloids</i> , 2004, 18, 817-823.	10.7	65

#	ARTICLE	IF	CITATIONS
127	An extension of the Anderson-Darling-sample test to arbitrary sample space partition sizes. <i>Journal of Statistical Computation and Simulation</i> , 2004, 74, 651-665.	1.2	6
128	A Nonparametric Test for Independence Based on Sample Space Partitions. <i>Communications in Statistics Part B: Simulation and Computation</i> , 2004, 33, 711-728.	1.2	8
129	Spectral Entropy as an Electroencephalographic Measure of Anesthetic Drug Effect. <i>Anesthesiology</i> , 2004, 101, 34-42.	2.5	153
130	Title is missing!. <i>BioControl</i> , 2003, 48, 39-55.	2.0	70
131	Mixture design approach on the dynamic rheological and uniaxial compression behaviour of milk desserts. <i>Food Hydrocolloids</i> , 2003, 17, 311-320.	10.7	28
132	Some generalizations of the Anderson-Darling statistic. <i>Statistics and Probability Letters</i> , 2003, 64, 255-261.	0.7	11
133	Four-dimensional imaging and computer-assisted track analysis of nuclear migration in root hairs of <i>Arabidopsis thaliana</i> . <i>Journal of Microscopy</i> , 2003, 211, 167-178.	1.8	24
134	Determination of the Refractive Index of Water-dispersible Granules for Use in Laser Diffraction Experiments. <i>Particle and Particle Systems Characterization</i> , 2002, 19, 426-432.	2.3	32
135	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. <i>Journal of Chromatography A</i> , 2002, 975, 123-133.	3.7	32
136	Determining environmental standards using bootstrapping, bayesian and maximum likelihood techniques: a comparative study. <i>Analytica Chimica Acta</i> , 2001, 446, 427-436.	5.4	22
137	Comparison of computer-controlled administration of propofol with two manually controlled infusion techniques. <i>Anaesthesia</i> , 1997, 52, 41-50.	3.8	50
138	Smooth tests of goodness of fit for the distributional assumption of regression models. <i>Australian and New Zealand Journal of Statistics</i> , 0, , .	0.9	0