

Gerjen H Tinnevelt

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

1,866
citations

623734

14
h-index

345221

36
g-index

39
all docs

39
docs citations

39
times ranked

2392
citing authors

#	ARTICLE	IF	CITATIONS
1	ANOVA-simultaneous component analysis (ASCA): a new tool for analyzing designed metabolomics data. <i>Bioinformatics</i> , 2005, 21, 3043-3048.	4.1	552
2	Breaking with trends in pre-processing?. <i>TrAC - Trends in Analytical Chemistry</i> , 2013, 50, 96-106.	11.4	367
3	ASCA: analysis of multivariate data obtained from an experimental design. <i>Journal of Chemometrics</i> , 2005, 19, 469-481.	1.3	201
4	ANOVAâ€“principal component analysis and ANOVAâ€“simultaneous component analysis: a comparison. <i>Journal of Chemometrics</i> , 2011, 25, 561-567.	1.3	119
5	Fast microplastics identification with stimulated Raman scattering microscopy. <i>Journal of Raman Spectroscopy</i> , 2018, 49, 1136-1144.	2.5	100
6	Novel chemistry of invasive plants: exotic species have more unique metabolomic profiles than native congeners. <i>Ecology and Evolution</i> , 2014, 4, 2777-2786.	1.9	82
7	Analysis of longitudinal metabolomics data. <i>Bioinformatics</i> , 2004, 20, 2438-2446.	4.1	74
8	Boosting model performance and interpretation by entangling preprocessing selection and variable selection. <i>Analytica Chimica Acta</i> , 2016, 938, 44-52.	5.4	39
9	Investigating the need for preprocessing of near-infrared spectroscopic data as a function of sample size. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2020, 204, 104105.	3.5	38
10	The photographer and the greenhouse: how to analyse plant metabolomics data. <i>Phytochemical Analysis</i> , 2010, 21, 48-60.	2.4	28
11	Chemometrics-assisted microfluidic paper-based analytical device for the determination of uric acid by silver nanoparticle plasmon resonance. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 2305-2313.	3.7	27
12	A tritrophic approach to the preferenceâ€“performance hypothesis involving an exotic and a native plant. <i>Biological Invasions</i> , 2013, 15, 2387-2401.	2.4	25
13	Novel data analysis method for multicolour flow cytometry links variability of multiple markers on single cells to a clinical phenotype. <i>Scientific Reports</i> , 2017, 7, 5471.	3.3	20
14	Increasing conclusiveness of clinical breath analysis by improved baseline correction of multi capillary column â€“ ion mobility spectrometry (MCC-IMS) data. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016, 127, 170-175.	2.8	19
15	Crossfit analysis: a novel method to characterize the dynamics of induced plant responses. <i>BMC Bioinformatics</i> , 2009, 10, 425.	2.6	14
16	Multi-dimensional flow cytometry analysis reveals increasing changes in the systemic neutrophil compartment during seven consecutive days of endurance exercise. <i>PLoS ONE</i> , 2018, 13, e0206175.	2.5	14
17	Low-cost handheld NIR spectroscopy for identification of organic solvents and low-level quantification of water contamination. <i>Talanta</i> , 2021, 223, 121865.	5.5	14
18	A novel approach for analyzing gas chromatography-mass spectrometry/olfactometry data. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2015, 146, 290-296.	3.5	11

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19	Automated flow cytometric identification of disease-specific cells by the ECLIPSE algorithm. <i>Scientific Reports</i> , 2018, 8, 10907.	3.3	10
20	A novel data fusion method for the effective analysis of multiple panels of flow cytometry data. <i>Scientific Reports</i> , 2019, 9, 6777.	3.3	10
21	Fluorescence spectroscopy and chemometrics for simultaneous monitoring of cell concentration, chlorophyll and fatty acids in <i>Nannochloropsis oceanica</i> . <i>Scientific Reports</i> , 2020, 10, 7688.	3.3	10
22	FLOOD: FLOW cytometric Orthogonal Orientation for Diagnosis. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2016, 151, 126-135.	3.5	9
23	Analysis of human neutrophil phenotypes as biomarker to monitor exercise-induced immune changes. <i>Journal of Leukocyte Biology</i> , 2021, 109, 833-842.	3.3	9
24	Combining ANOVA-PCA with POICHEMON to analyse micro-organism development in a polymicrobial environment. <i>Analytica Chimica Acta</i> , 2017, 963, 1-16.	5.4	8
25	Exhaled Breath Reflects Prolonged Exercise and Statin Use during a Field Campaign. <i>Metabolites</i> , 2021, 11, 192.	2.9	8
26	Improved modelling for low-correlated multiple responses by common-subset-of-independent-variables partial-least-squares. <i>Talanta</i> , 2022, 239, 123140.	5.5	8
27	Non-Invasive Monitoring of Inflammation in Inflammatory Bowel Disease Patients during Prolonged Exercise via Exhaled Breath Volatile Organic Compounds. <i>Metabolites</i> , 2022, 12, 224.	2.9	8
28	Transformation of multicolour flow cytometry data with <scp>OTflow</scp> prevents misleading multivariate analysis results and incorrect immunological conclusions. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2022, 101, 72-85.	1.5	7
29	Refractory neutrophils and monocytes in patients with inflammatory bowel disease after repeated bouts of prolonged exercise. <i>Cytometry Part B - Clinical Cytometry</i> , 2021, 100, 676-682.	1.5	6
30	Variable Selection in Untargeted Metabolomics and the Danger of Sparsity. <i>Metabolites</i> , 2020, 10, 470.	2.9	5
31	Cost-benefit analysis of calibration model maintenance strategies for process monitoring. <i>Analytica Chimica Acta</i> , 2021, 1180, 338890.	5.4	5
32	Quantitative vibrational spectroscopy on liquid mixtures: concentration units matter. <i>Analyst</i> , The, 2021, 146, 3150-3156.	3.5	5
33	Resolving complex hierarchies in chemical mixtures: how chemometrics may serve in understanding the immune system. <i>Faraday Discussions</i> , 2019, 218, 317-338.	3.2	4
34	ENDBOSS: Industrial endpoint detection using batch-specific control spaces of spectroscopic data. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2021, 209, 104229.	3.5	4
35	Pre- versus post-operative untargeted plasma nuclear magnetic resonance spectroscopy metabolomics of pheochromocytoma and paraganglioma. <i>Endocrine</i> , 2022, 75, 254-265.	2.3	3
36	Multi-set Pre-processing of Multicolor Flow Cytometry Data. <i>Scientific Reports</i> , 2020, 10, 9716.	3.3	2

#	ARTICLE	IF	CITATIONS
37	High-throughput single cell data analysis – A tutorial. <i>Analytica Chimica Acta</i> , 2021, 1185, 338872.	5.4	1
38	Chemometrics in Flow Cytometry. , 2020, , 585-597.		0
39	Comprehensive multivariate evaluation of the effects on cell phenotypes in multicolor flow cytometry data using ANOVA simultaneous component analysis. <i>Journal of Chemometrics</i> , 2023, 37, .	1.3	0