

Kristian H Liland

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

3,350
citations

257357

24
h-index

155592

55
g-index

84
all docs

84
docs citations

84
times ranked

5085
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of variable selection methods in Partial Least Squares Regression. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2012, 118, 62-69.	1.8	1,177
2	Optimal Choice of Baseline Correction for Multivariate Calibration of Spectra. <i>Applied Spectroscopy</i> , 2010, 64, 1007-1016.	1.2	228
3	Multivariate methods in metabolomics – from pre-processing to dimension reduction and statistical analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2011, 30, 827-841.	5.8	176
4	micropan: an R-package for microbial pan-genomics. <i>BMC Bioinformatics</i> , 2015, 16, 79.	1.2	165
5	Comparison of the digestion of caseins and whey proteins in equine, bovine, caprine and human milks by human gastrointestinal enzymes. <i>Dairy Science and Technology</i> , 2010, 90, 549-563.	2.2	124
6	Comparison of variable selection methods in partial least squares regression. <i>Journal of Chemometrics</i> , 2020, 34, e3226.	0.7	103
7	Canonical partial least squares – a unified PLS approach to classification and regression problems. <i>Journal of Chemometrics</i> , 2009, 23, 495-504.	0.7	102
8	Model-based pre-processing in Raman spectroscopy of biological samples. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 643-650.	1.2	98
9	Chicken fillets subjected to UV-C and pulsed UV light: Reduction of pathogenic and spoilage bacteria, and changes in sensory quality. <i>Journal of Food Safety</i> , 2018, 38, e12421.	1.1	60
10	Feasibility of NIR interactance hyperspectral imaging for on-line measurement of crude composition in vacuum packed dry-cured ham slices. <i>Meat Science</i> , 2013, 95, 250-255.	2.7	52
11	Variable selection in multi-block regression. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2016, 156, 89-101.	1.8	52
12	Determination of O ₂ and CO ₂ transmission rate of whole packages and single perforations in micro-perforated packages for fruit and vegetables. <i>Journal of Food Engineering</i> , 2013, 119, 271-276.	2.7	39
13	Powered partial least squares discriminant analysis. <i>Journal of Chemometrics</i> , 2009, 23, 7-18.	0.7	38
14	Co-fermentation Involving <i>Saccharomyces cerevisiae</i> and <i>Lactobacillus</i> Species Tolerant to Brewing-Related Stress Factors for Controlled and Rapid Production of Sour Beer. <i>Frontiers in Microbiology</i> , 2020, 11, 279.	1.5	36
15	Comparison of UV-C and Pulsed UV Light Treatments for Reduction of <i>Salmonella</i> , <i>Listeria monocytogenes</i> , and Enterohemorrhagic <i>Escherichia coli</i> on Eggs. <i>Journal of Food Protection</i> , 2018, 81, 6-16.	0.8	33
16	A similarity index for comparing coupled matrices. <i>Journal of Chemometrics</i> , 2018, 32, e3049.	0.7	31
17	FTIR-based hierarchical modeling for prediction of average molecular weights of protein hydrolysates. <i>Talanta</i> , 2019, 205, 120084.	2.9	30
18	Comparing K-mer based methods for improved classification of 16S sequences. <i>BMC Bioinformatics</i> , 2015, 16, 205.	1.2	29

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19	The use of Fourierâ€transform infrared spectroscopy to characterize connective tissue components in skeletal muscle of Atlantic cod (<i>Gadus morhua</i> L.). Journal of Biophotonics, 2019, 12, e201800436.	1.1	29
20	Customized baseline correction. Chemometrics and Intelligent Laboratory Systems, 2011, 109, 51-56.	1.8	28
21	Towards on-line prediction of dry matter content in whole unpeeled potatoes using near-infrared spectroscopy. Talanta, 2015, 143, 138-144.	2.9	28
22	Reductions of <i>Listeria monocytogenes</i> on cold-smoked and raw salmon fillets by UV-C and pulsed UV light. Innovative Food Science and Emerging Technologies, 2018, 50, 1-10.	2.7	28
23	ROSAâ€a fast extension of partial least squares regression for multiblock data analysis. Journal of Chemometrics, 2016, 30, 651-662.	0.7	25
24	Pre-fermentation with lactic acid bacteria in sour beer production. Journal of the Institute of Brewing, 2019, 125, 342-356.	0.8	25
25	Mining online community data: The nature of ideas in online communities. Food Quality and Preference, 2017, 62, 246-256.	2.3	24
26	Preprocessing of spectral data in the extended multiplicative signal correction framework using multiple reference spectra. Journal of Raman Spectroscopy, 2019, 50, 407-417.	1.2	24
27	Optimizing body fluid recognition from microbial taxonomic profiles. Forensic Science International: Genetics, 2018, 37, 13-20.	1.6	23
28	4S Peak Filling â€baseline estimation by iterative mean suppression. MethodsX, 2015, 2, 135-140.	0.7	22
29	Distribution based truncation for variable selection in subspace methods for multivariate regression. Chemometrics and Intelligent Laboratory Systems, 2013, 122, 103-111.	1.8	21
30	microclass: an R-package for 16S taxonomy classification. BMC Bioinformatics, 2017, 18, 172.	1.2	20
31	Confidence ellipsoids for ASCA models based on multivariate regression theory. Journal of Chemometrics, 2018, 32, e2990.	0.7	20
32	Reduction and inhibition of <i>Listeria monocytogenes</i> in cold-smoked salmon by Verdad N6, a buffered vinegar fermentate, and UV-C treatments. International Journal of Food Microbiology, 2019, 291, 48-58.	2.1	20
33	Quantitative whole spectrum analysis with MALDI-TOF MS, Part II: Determining the concentration of milk in mixtures. Chemometrics and Intelligent Laboratory Systems, 2009, 99, 39-48.	1.8	19
34	Oxidative Stability of Polyunsaturated Edible Oils Mixed With Microcrystalline Cellulose. JAOCS, Journal of the American Oil Chemists' Society, 2011, 88, 1883-1895.	0.8	19
35	Mitochondrial oxygen consumption in permeabilized fibers and its link to colour changes in bovine M. semimembranosus muscle. Meat Science, 2013, 93, 128-137.	2.7	18
36	Estimation of composition of quinoa (<i>Chenopodium quinoa</i> Willd.) grains by Near-Infrared Transmission spectroscopy. LWT - Food Science and Technology, 2017, 79, 126-134.	2.5	18

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37	A systematic search for discriminating sites in the 16S ribosomal RNA gene. <i>Microbial Informatics and Experimentation</i> , 2014, 4, 2.	7.6	17
38	Estimating and interpreting more than two consensus components in projective mapping: INDSCAL vs. multiple factor analysis (MFA). <i>Food Quality and Preference</i> , 2017, 58, 45-60.	2.3	17
39	Secondary Lactic Acid Bacteria Fermentation with Wood-Derived Xylooligosaccharides as a Tool To Expedite Sour Beer Production. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 301-314.	2.4	17
40	Syndecan-4 ^{−/−} Mice Have Smaller Muscle Fibers, Increased Akt/mTOR/S6K1 and Notch/HES-1 Pathways, and Alterations in Extracellular Matrix Components. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 730.	1.8	17
41	Quantitative whole spectrum analysis with MALDI-TOF MS, Part I: Measurement optimisation. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2009, 96, 210-218.	1.8	15
42	Hot PLS ^a a framework for hierarchically ordered taxonomic classification by partial least squares. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2014, 138, 41-47.	1.8	15
43	Near Infrared Hyperspectral Imaging in Transmission Mode: Assessing the Weathering of Thin Wood Samples. <i>Journal of Near Infrared Spectroscopy</i> , 2016, 24, 595-604.	0.8	14
44	Deep convolutional neural network recovers pure absorbance spectra from highly scatter ^d distorted spectra of cells. <i>Journal of Biophotonics</i> , 2020, 13, e202000204.	1.1	14
45	Strain-level characterization of nonstarter lactic acid bacteria in Norvegia cheese by high-resolution melt analysis. <i>Journal of Dairy Science</i> , 2012, 95, 4804-4812.	1.4	13
46	Analysis of Megavariate Data in Functional Genomics. , 2009, , 221-278.		12
47	On the possible benefits of deep learning for spectral preprocessing. <i>Journal of Chemometrics</i> , 2022, 36, e3374.	0.7	12
48	Characterization of Oxidative Stability of Fish Oil ^o and Plant Oil ^o Enriched Skimmed Milk. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2013, 90, 113-122.	0.8	11
49	Effects of glucose availability in <i>Lactobacillus sakei</i> ; metabolic change and regulation of the proteome and transcriptome. <i>PLoS ONE</i> , 2017, 12, e0187542.	1.1	11
50	A comparison of two <sc>PLS</sc> ^o based approaches to structural equation modeling. <i>Journal of Chemometrics</i> , 2019, 33, e3105.	0.7	11
51	RENT ^o Repeated Elastic Net Technique for Feature Selection. <i>IEEE Access</i> , 2021, 9, 152333-152346.	2.6	11
52	Relating fatty acid composition in human fingertip blood to age, gender, nationality and <i>n</i>-3 supplementation in the Scandinavian population. <i>International Journal of Food Sciences and Nutrition</i> , 2012, 63, 790-795.	1.3	10
53	Fast method for GA ^o PLS with simultaneous feature selection and identification of optimal preprocessing technique for datasets with many observations. <i>Journal of Chemometrics</i> , 2020, 34, e3195.	0.7	10
54	Cerebrospinal fluid proteome shows disrupted neuronal development in multiple sclerosis. <i>Scientific Reports</i> , 2021, 11, 4087.	1.6	10

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55	Sequential and orthogonalized PLS (SO-PLS) regression for path analysis: Order of blocks and relations between effects. <i>Journal of Chemometrics</i> , 2021, 35, e3243.	0.7	9
56	Prediction of wine sensory properties using mid-infrared spectra of Cabernet Sauvignon and Chardonnay grape berries and wines. <i>Food Chemistry</i> , 2021, 344, 128634.	4.2	9
57	Designing a risk-based surveillance program for <i>Mycobacterium avium</i> ssp. <i>paratuberculosis</i> in Norwegian dairy herds using multivariate statistical process control analysis. <i>Journal of Dairy Science</i> , 2014, 97, 6835-6849.	1.4	8
58	Baseline and interferent correction by the Tikhonov regularization framework for linear least squares modeling. <i>Journal of Chemometrics</i> , 2018, 32, e2962.	0.7	8
59	Global Gene Expression Response in Peripheral Blood Cells of Petroleum Workers Exposed to Sub-Ppm Benzene Levels. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 2385.	1.2	7
60	Testing effects of experimental design factors using multi-way analysis. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2009, 96, 172-181.	1.8	6
61	An Extension of PPLS-DA for Classification and Comparison to Ordinary PLS-DA. <i>PLoS ONE</i> , 2013, 8, e55267.	1.1	6
62	Obstructive sleep apnea versus central sleep apnea: prognosis in systolic heart failure. <i>Cardiovascular Diagnosis and Therapy</i> , 2020, 10, 396-404.	0.7	6
63	Much faster cross-validation in PLSR-modelling by avoiding redundant calculations. <i>Journal of Chemometrics</i> , 2020, 34, e3201.	0.7	6
64	oreo: An R package for large amplitude oscillatory analysis. <i>SoftwareX</i> , 2021, 15, 100769.	1.2	6
65	Swiss knife partial least squares (SKPLS): One tool for modelling single block, multiblock, multiway, multiway multiblock including multi-responses and meta information under the ROSA framework. <i>Analytica Chimica Acta</i> , 2022, 1206, 339786.	2.6	6
66	The canonical partial least squares approach to analysing multiway datasets - N-CPLS. <i>Journal of Chemometrics</i> , 2022, 36, .	0.7	6
67	Effect of Liquid Absorbent Pads and Packaging Parameters on Drip Loss and Quality of Chicken Breast Fillets. <i>Foods</i> , 2021, 10, 1340.	1.9	5
68	SO-PLS as an alternative approach for handling multi-dimensionality in modelling different aspects of consumer expectations. <i>Food Research International</i> , 2020, 133, 109189.	2.9	5
69	Neural networks applied in kinetic analysis of complex nucleation-growth processes: Outstanding solution for fully overlapping reaction mechanisms. <i>Journal of Non-Crystalline Solids</i> , 2022, 588, 121640.	1.5	5
70	Using GEMANOVA to explore the pattern generating properties of the Delta-Notch model. <i>Journal of Chemometrics</i> , 2010, 24, 626-634.	0.7	4
71	A retrospective analysis of cardiovascular outcomes in patients treated with ASV. <i>Scandinavian Cardiovascular Journal</i> , 2017, 51, 106-113.	0.4	4
72	Orders of magnitude speed increase in partial least squares feature selection with new simple indexing technique for very tall data sets. <i>Journal of Chemometrics</i> , 2019, 33, e3141.	0.7	4

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73	SelectWave: A graphical user interface for wavelength selection and spectral data analysis. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2021, 212, 104275.	1.8	4
74	hoggorm: a python library for explorative multivariate statistics. <i>Journal of Open Source Software</i> , 2019, 4, 980.	2.0	4
75	takos: An R package for thermal analysis calculations. <i>SoftwareX</i> , 2020, 12, 100637.	1.2	4
76	META-PLS modelling: An integrated approach to automatic model optimization for near-infrared spectra. <i>Analytica Chimica Acta</i> , 2022, 1221, 340142.	2.6	3
77	Analysis of Megavariate Data in Functional Omics. , 2020, , 515-567.		2
78	Encoderâ€decoder neural networks for predicting future FTIR spectra â€ application to enzymatic protein hydrolysis. <i>Journal of Biophotonics</i> , 0, , .	1.1	1
79	fixedTimeEvents: An R package for the distribution of distances between discrete events in fixed time. <i>SoftwareX</i> , 2016, 5, 227-233.	1.2	0
80	Suitability of FTIR to distinguish pure cultures of problematic mould species from closely related species in the meat industry. <i>Journal of Applied Microbiology</i> , 2021, 131, 2308-2316.	1.4	0