

# Kristian H Liland

## List of Publications by Year in descending order

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Version: 2024-02-01

80  
papers

3,350  
citations

257450  
24  
h-index

155660  
55  
g-index

84  
all docs

84  
docs citations

84  
times ranked

5085  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the possible benefits of deep learning for spectral preprocessing. <i>Journal of Chemometrics</i> , 2022, 36, e3374.	1.3	12
2	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.	5.4	6
3	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.	3.1	5
4	The canonical partial least squares approach to analysing multiway datasetsâ€”Nâ€™CPLS. <i>Journal of Chemometrics</i> , 2022, 36, .	1.3	6
5	META-PLS modelling: An integrated approach to automatic model optimization for near-infrared spectra. <i>Analytica Chimica Acta</i> , 2022, 1221, 340142.	5.4	3
6	Sequential and orthogonalized PLS (SOâ€™PLS) regression for path analysis: Order of blocks and relations between effects. <i>Journal of Chemometrics</i> , 2021, 35, e3243.	1.3	9
7	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.	8.2	9
8	Cerebrospinal fluid proteome shows disrupted neuronal development in multiple sclerosis. <i>Scientific Reports</i> , 2021, 11, 4087.	3.3	10
9	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.	3.1	0
10	SelectWave: A graphical user interface for wavelength selection and spectral data analysis. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2021, 212, 104275.	3.5	4
11	Effect of Liquid Absorbent Pads and Packaging Parameters on Drip Loss and Quality of Chicken Breast Fillets. <i>Foods</i> , 2021, 10, 1340.	4.3	5
12	oreo: An R package for large amplitude oscillatory analysis. <i>SoftwareX</i> , 2021, 15, 100769.	2.6	6
13	RENTâ€™Repeated Elastic Net Technique for Feature Selection. <i>IEEE Access</i> , 2021, 9, 152333-152346.	4.2	11
14	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.	5.2	17
15	Analysis of Megavariable Data in Functional Omics. , 2020, , 515-567.		2
16	Obstructive sleep apnea versus central sleep apnea: prognosis in systolic heart failure. <i>Cardiovascular Diagnosis and Therapy</i> , 2020, 10, 396-404.	1.7	6
17	Deep convolutional neural network recovers pure absorbance spectra from highly scatterâ€™distorted spectra of cells. <i>Journal of Biophotonics</i> , 2020, 13, e202000204.	2.3	14
18	Syndecan-4â€™/â€™ 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.	3.7	17

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19	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.	3.5	36
20	Fast method for GA-PLS with simultaneous feature selection and identification of optimal preprocessing technique for datasets with many observations. <i>Journal of Chemometrics</i> , 2020, 34, e3195.	1.3	10
21	Comparison of variable selection methods in partial least squares regression. <i>Journal of Chemometrics</i> , 2020, 34, e3226.	1.3	103
22	Much faster cross-validation in PLSR-modelling by avoiding redundant calculations. <i>Journal of Chemometrics</i> , 2020, 34, e3201.	1.3	6
23	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.	6.2	5
24	takos: An R package for thermal analysis calculations. <i>SoftwareX</i> , 2020, 12, 100637.	2.6	4
25	Pre-fermentation with lactic acid bacteria in sour beer production. <i>Journal of the Institute of Brewing</i> , 2019, 125, 342-356.	2.3	25
26	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.	1.3	4
27	FTIR-based hierarchical modeling for prediction of average molecular weights of protein hydrolysates. <i>Talanta</i> , 2019, 205, 120084.	5.5	30
28	The use of Fourier-transform infrared spectroscopy to characterize connective tissue components in skeletal muscle of Atlantic cod ( <i>Gadus morhua</i> L.). <i>Journal of Biophotonics</i> , 2019, 12, e201800436.	2.3	29
29	Preprocessing of spectral data in the extended multiplicative signal correction framework using multiple reference spectra. <i>Journal of Raman Spectroscopy</i> , 2019, 50, 407-417.	2.5	24
30	Reduction and inhibition of <i>Listeria monocytogenes</i> in cold-smoked salmon by Verdad N6, a buffered vinegar fermentate, and UV-C treatments. <i>International Journal of Food Microbiology</i> , 2019, 291, 48-58.	4.7	20
31	A comparison of two PLS-based approaches to structural equation modeling. <i>Journal of Chemometrics</i> , 2019, 33, e3105.	1.3	11
32	hoggorm: a python library for explorative multivariate statistics. <i>Journal of Open Source Software</i> , 2019, 4, 980.	4.6	4
33	Confidence ellipsoids for ASCA models based on multivariate regression theory. <i>Journal of Chemometrics</i> , 2018, 32, e2990.	1.3	20
34	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.	2.3	60
35	Baseline and interferent correction by the Tikhonov regularization framework for linear least squares modeling. <i>Journal of Chemometrics</i> , 2018, 32, e2962.	1.3	8
36	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.	2.6	7

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37	Reductions of <i>Listeria monocytogenes</i> on cold-smoked and raw salmon fillets by UV-C and pulsed UV light. <i>Innovative Food Science and Emerging Technologies</i> , 2018, 50, 1-10.	5.6	28
38	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.	1.7	33
39	Optimizing body fluid recognition from microbial taxonomic profiles. <i>Forensic Science International: Genetics</i> , 2018, 37, 13-20.	3.1	23
40	A similarity index for comparing coupled matrices. <i>Journal of Chemometrics</i> , 2018, 32, e3049.	1.3	31
41	Estimation of composition of quinoa ( <i>Chenopodium quinoa</i> Willd.) grains by Near-Infrared Transmission spectroscopy. <i>LWT - Food Science and Technology</i> , 2017, 79, 126-134.	5.2	18
42	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.	4.6	17
43	Mining online community data: The nature of ideas in online communities. <i>Food Quality and Preference</i> , 2017, 62, 246-256.	4.6	24
44	microclass: an R-package for 16S taxonomy classification. <i>BMC Bioinformatics</i> , 2017, 18, 172.	2.6	20
45	A retrospective analysis of cardiovascular outcomes in patients treated with ASV. <i>Scandinavian Cardiovascular Journal</i> , 2017, 51, 106-113.	1.2	4
46	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.	2.5	11
47	fixedTimeEvents: An R package for the distribution of distances between discrete events in fixed time. <i>SoftwareX</i> , 2016, 5, 227-233.	2.6	0
48	Variable selection in multi-block regression. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2016, 156, 89-101.	3.5	52
49	Model-based pre-processing in Raman spectroscopy of biological samples. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 643-650.	2.5	98
50	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.	1.5	14
51	ROSA—a fast extension of partial least squares regression for multiblock data analysis. <i>Journal of Chemometrics</i> , 2016, 30, 651-662.	1.3	25
52	Towards on-line prediction of dry matter content in whole unpeeled potatoes using near-infrared spectroscopy. <i>Talanta</i> , 2015, 143, 138-144.	5.5	28
53	micropan: an R-package for microbial pan-genomics. <i>BMC Bioinformatics</i> , 2015, 16, 79.	2.6	165
54	4S Peak Filling “baseline estimation by iterative mean suppression. <i>MethodsX</i> , 2015, 2, 135-140.	1.6	22

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55	Comparing K-mer based methods for improved classification of 16S sequences. BMC Bioinformatics, 2015, 16, 205.	2.6	29
56	A systematic search for discriminating sites in the 16S ribosomal RNA gene. Microbial Informatics and Experimentation, 2014, 4, 2.	7.6	17
57	Designing a risk-based surveillance program for Mycobacterium avium ssp. paratuberculosis in Norwegian dairy herds using multivariate statistical process control analysis. Journal of Dairy Science, 2014, 97, 6835-6849.	3.4	8
58	Hot PLS—a framework for hierarchically ordered taxonomic classification by partial least squares. Chemometrics and Intelligent Laboratory Systems, 2014, 138, 41-47.	3.5	15
59	Feasibility of NIR interactance hyperspectral imaging for on-line measurement of crude composition in vacuum packed dry-cured ham slices. Meat Science, 2013, 95, 250-255.	5.5	52
60	Mitochondrial oxygen consumption in permeabilized fibers and its link to colour changes in bovine M. semimembranosus muscle. Meat Science, 2013, 93, 128-137.	5.5	18
61	Distribution based truncation for variable selection in subspace methods for multivariate regression. Chemometrics and Intelligent Laboratory Systems, 2013, 122, 103-111.	3.5	21
62	Characterization of Oxidative Stability of Fish Oil—and Plant Oil—Enriched Skimmed Milk. JAOCS, Journal of the American Oil Chemists' Society, 2013, 90, 113-122.	1.9	11
63	Determination of O <sub>2</sub> and CO <sub>2</sub> transmission rate of whole packages and single perforations in micro-perforated packages for fruit and vegetables. Journal of Food Engineering, 2013, 119, 271-276.	5.2	39
64	An Extension of PPLS-DA for Classification and Comparison to Ordinary PLS-DA. PLoS ONE, 2013, 8, e55267.	2.5	6
65	A review of variable selection methods in Partial Least Squares Regression. Chemometrics and Intelligent Laboratory Systems, 2012, 118, 62-69.	3.5	1,177
66	Relating fatty acid composition in human fingertip blood to age, gender, nationality and $\alpha$ -3 supplementation in the Scandinavian population. International Journal of Food Sciences and Nutrition, 2012, 63, 790-795.	2.8	10
67	Strain-level characterization of nonstarter lactic acid bacteria in Norvegia cheese by high-resolution melt analysis. Journal of Dairy Science, 2012, 95, 4804-4812.	3.4	13
68	Customized baseline correction. Chemometrics and Intelligent Laboratory Systems, 2011, 109, 51-56.	3.5	28
69	Oxidative Stability of Polyunsaturated Edible Oils Mixed With Microcrystalline Cellulose. JAOCS, Journal of the American Oil Chemists' Society, 2011, 88, 1883-1895.	1.9	19
70	Multivariate methods in metabolomics — from pre-processing to dimension reduction and statistical analysis. TrAC - Trends in Analytical Chemistry, 2011, 30, 827-841.	11.4	176
71	Comparison of the digestion of caseins and whey proteins in equine, bovine, caprine and human milks by human gastrointestinal enzymes. Dairy Science and Technology, 2010, 90, 549-563.	2.2	124
72	Using GEMANOVA to explore the pattern generating properties of the Delta-Notch model. Journal of Chemometrics, 2010, 24, 626-634.	1.3	4

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73	Optimal Choice of Baseline Correction for Multivariate Calibration of Spectra. Applied Spectroscopy, 2010, 64, 1007-1016.	2.2	228
74	Powered partial least squares discriminant analysis. Journal of Chemometrics, 2009, 23, 7-18.	1.3	38
75	Canonical partial least squaresâ€”a unified PLS approach to classification and regression problems. Journal of Chemometrics, 2009, 23, 495-504.	1.3	102
76	Testing effects of experimental design factors using multi-way analysis. Chemometrics and Intelligent Laboratory Systems, 2009, 96, 172-181.	3.5	6
77	Quantitative whole spectrum analysis with MALDI-TOF MS, Part I: Measurement optimisation. Chemometrics and Intelligent Laboratory Systems, 2009, 96, 210-218.	3.5	15
78	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.	3.5	19
79	Analysis of Megavariate Data in Functional Genomics. , 2009, , 221-278.		12
80	Encoderâ€”decoder neural networks for predicting future FTIR spectra â€” application to enzymatic protein hydrolysis. Journal of Biophotonics, 0, , .	2.3	1