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List of Publications by Citations

229 papers	22,162 citations	62 h-index	146 g-index
243 ext. papers	25,349 ext. citations	4.9 avg, IF	7.44 L-index

#	Paper	IF	Citations
229	PARAFAC. Tutorial and applications. *Chemometrics and Intelligent Laboratory Systems*, **1997**, 38, 149-171	3.8	1890
228	Characterizing dissolved organic matter fluorescence with parallel factor analysis: a tutorial. *Limnology and Oceanography: Methods*, **2008**, 6, 572-579	2.6	1436
227	Tracing dissolved organic matter in aquatic environments using a new approach to fluorescence spectroscopy. *Marine Chemistry*, **2003**, 82, 239-254	3.7	1296
226	Fluorescence spectroscopy and multi-way techniques. PARAFAC. *Analytical Methods*, **2013**, 5, 6557	3.2	862
225	A new efficient method for determining the number of components in PARAFAC models. *Journal of Chemometrics*, **2003**, 17, 274-286	1.6	847
224	The N-way Toolbox for MATLAB. *Chemometrics and Intelligent Laboratory Systems*, **2000**, 52, 1-4	3.8	828
223	Multiway calibration. Multilinear PLS. *Journal of Chemometrics*, **1996**, 10, 47-61	1.6	565
222	A fast non-negativity-constrained least squares algorithm. *Journal of Chemometrics*, **1997**, 11, 393-401	1.6	560
221	Practical aspects of PARAFAC modeling of fluorescence excitation-emission data. *Journal of Chemometrics*, **2003**, 17, 200-215	1.6	452
220	Variable selection in regression tutorial. *Journal of Chemometrics*, **2010**, 24, 728-737	1.6	439
219	**2004**,		428
218	OpenFluor an online spectral library of auto-fluorescence by organic compounds in the environment. *Analytical Methods*, **2014**, 6, 658-661	3.2	422
217	Parallel factor analysis in sensor array processing. *IEEE Transactions on Signal Processing*, **2000**, 48, 2377-2388	4.8	384
216	On the uniqueness of multilinear decomposition of N-way arrays. *Journal of Chemometrics*, **2000**, 14, 229-239	1.6	373
215	Blind PARAFAC receivers for DS-CDMA systems. *IEEE Transactions on Signal Processing*, **2000**, 48, 810-823	4.8	360
214	Handling of Rayleigh and Raman scatter for PARAFAC modeling of fluorescence data using interpolation. *Journal of Chemometrics*, **2006**, 20, 99-105	1.6	344
213	PARAFAC2 Part I. A direct fitting algorithm for the PARAFAC2 model. *Journal of Chemometrics*, **1999**, 13, 275-294	1.6	299

212	Centering and scaling in component analysis. *Journal of Chemometrics*, **2003**, 17, 16-33	1.6	264
211	A comparison of algorithms for fitting the PARAFAC model. *Computational Statistics and Data Analysis*, **2006**, 50, 1700-1734	1.6	262
210	PARAFAC2 Part II. Modeling chromatographic data with retention time shifts. *Journal of Chemometrics*, **1999**, 13, 295-309	1.6	242
209	Automated alignment of chromatographic data. *Journal of Chemometrics*, **2006**, 20, 484-497	1.6	224
208	Multivariate autofluorescence of intact food systems. *Chemical Reviews*, **2006**, 106, 1979-94	68.1	212
207	Cross-validation of component models: a critical look at current methods. *Analytical and Bioanalytical Chemistry*, **2008**, 390, 1241-51	4.4	209
206	Dissolved Organic Matter Characterization Using Multiway Spectral Decomposition of Fluorescence Landscapes. *Soil Science Society of America Journal*, **2006**, 70, 2028-2037	2.5	188
205	Recent developments in CANDECOMP/PARAFAC algorithms: a critical review. *Chemometrics and Intelligent Laboratory Systems*, **2003**, 65, 119-137	3.8	183
204	Review on Multiway Analysis in Chemistry 2000 2005. *Critical Reviews in Analytical Chemistry*, **2006**, 36, 279-293	5.2	178
203	Parallel factor analysis of excitation-emission matrix fluorescence spectra of water soluble soil organic matter as basis for the determination of conditional metal binding parameters. *Environmental Science & Technology*, **2008**, 42, 186-92	10.3	175
202	Exploratory study of sugar production using fluorescence spectroscopy and multi-way analysis. *Chemometrics and Intelligent Laboratory Systems*, **1999**, 46, 133-147	3.8	174
201	Fluorescence spectroscopy coupled with PARAFAC and PLS DA for characterization and classification of honey. *Food Chemistry*, **2015**, 175, 284-91	8.5	163
200	ChroMATHography: solving chromatographic issues with mathematical models and intuitive graphics. *Chemical Reviews*, **2010**, 110, 4582-605	68.1	158
199	Multiway analysis of epilepsy tensors. *Bioinformatics*, **2007**, 23, i10-8	7.2	158
198	Multivariate calibration. *Analytica Chimica Acta*, **2003**, 500, 185-194	6.6	158
197	Some common misunderstandings in chemometrics. *Journal of Chemometrics*, **2010**, 24, 558-564	1.6	151
196	PARAFAC and missing values. *Chemometrics and Intelligent Laboratory Systems*, **2005**, 75, 163-180	3.8	146
195	Chemometrics in food science demonstration of the feasibility of a highly exploratory, inductive evaluation strategy of fundamental scientific significance. *Chemometrics and Intelligent Laboratory Systems*, **1998**, 44, 31-60	3.8	129

194	Gas chromatography - mass spectrometry data processing made easy. *Journal of Chromatography A*, **2017**, 1503, 57-64	4.5	128
193	Characterizing dissolved organic matter fluorescence with parallel factor analysis: a tutorial. *Limnology and Oceanography: Methods*, **2008**, 6, 572-579	2.6	128
192	Near-infrared chemical imaging (NIR-CI) on pharmaceutical solid dosage forms-comparing common calibration approaches. *Journal of Pharmaceutical and Biomedical Analysis*, **2008**, 48, 554-61	3.5	124
191	. *IEEE Transactions on Signal Processing*, **2013**, 61, 493-506	4.8	123
190	Least squares algorithms under unimodality and non-negativity constraints. *Journal of Chemometrics*, **1998**, 12, 223-247	1.6	122
189	Solving GC-MS problems with PARAFAC2. *TrAC - Trends in Analytical Chemistry*, **2008**, 27, 714-725	14.6	110
188	Robust methods for multivariate data analysis. *Journal of Chemometrics*, **2005**, 19, 549-563	1.6	110
187	Standard error of prediction for multiway PLS. *Chemometrics and Intelligent Laboratory Systems*, **2002**, 61, 133-149	3.8	96
186	Improving the speed of multi-way algorithms:: Part I. Tucker3. *Chemometrics and Intelligent Laboratory Systems*, **1998**, 42, 93-103	3.8	92
185	Resolving the sign ambiguity in the singular value decomposition. *Journal of Chemometrics*, **2008**, 22, 135-140	1.6	92
184	Jack-knife technique for outlier detection and estimation of standard errors in PARAFAC models. *Chemometrics and Intelligent Laboratory Systems*, **2003**, 65, 35-49	3.8	91
183	Review of Chemometrics Applied to Spectroscopy: 1985-95, Part I. *Applied Spectroscopy Reviews*, **1996**, 31, 73-124	4.5	82
182	Modeling multi-way data with linearly dependent loadings. *Journal of Chemometrics*, **2009**, 23, 324-340	1.6	79
181	Exploring the phenotypic expression of a regulatory proteome-altering gene by spectroscopy and chemometrics. *Analytica Chimica Acta*, **2001**, 446, 169-184	6.6	79
180	A modification of canonical variates analysis to handle highly collinear multivariate data. *Journal of Chemometrics*, **2006**, 20, 425-435	1.6	77
179	Quantitative analysis of NMR spectra with chemometrics. *Journal of Magnetic Resonance*, **2008**, 190, 26-32	3	76
178	Maximum likelihood fitting using ordinary least squares algorithms. *Journal of Chemometrics*, **2002**, 16, 387-400	1.6	75
177	Orthogonal signal correction, wavelet analysis, and multivariate calibration of complicated process fluorescence data. *Analytica Chimica Acta*, **2000**, 420, 181-195	6.6	75

176	A fast non-negativity-constrained least squares algorithm **1997**, 11, 393		74
175	Pre-whitening of data by covariance-weighted pre-processing. *Journal of Chemometrics*, **2003**, 17, 153-165	1.56	73
174	Towards rapid and unique curve resolution of low-field NMR relaxation data: trilinear SLICING versus two-dimensional curve fitting. *Journal of Magnetic Resonance*, **2002**, 157, 141-55	3	72
173	A tutorial on the Lasso approach to sparse modeling. *Chemometrics and Intelligent Laboratory Systems*, **2012**, 119, 21-31	3.8	70
172	A comparison of multiway regression and scaling methods. *Chemometrics and Intelligent Laboratory Systems*, **2001**, 59, 121-136	3.8	68
171	Calibration methods for complex second-order data. *Analytica Chimica Acta*, **1999**, 398, 237-251	6.6	67
170	Understanding data fusion within the framework of coupled matrix and tensor factorizations. *Chemometrics and Intelligent Laboratory Systems*, **2013**, 129, 53-63	3.8	65
169	Improving the speed of multiway algorithms: Part II: Compression. *Chemometrics and Intelligent Laboratory Systems*, **1998**, 42, 105-113	3.8	63
168	Data Fusion in Metabolomics Using Coupled Matrix and Tensor Factorizations. *Proceedings of the IEEE*, **2015**, 103, 1602-1620	14.3	61
167	Structure-revealing data fusion. *BMC Bioinformatics*, **2014**, 15, 239	3.6	61
166	Recent chemometrics advances for foodomics. *TrAC - Trends in Analytical Chemistry*, **2017**, 96, 42-51	14.6	61
165	Handling within run retention time shifts in two-dimensional chromatography data using shift correction and modeling. *Journal of Chromatography A*, **2009**, 1216, 4020-9	4.5	61
164	First order Rayleigh scatter as a separate component in the decomposition of fluorescence landscapes. *Analytica Chimica Acta*, **2005**, 537, 349-358	6.6	61
163	Application of N-PLS to gas chromatographic and sensory data of traditional balsamic vinegars of modena. *Chemometrics and Intelligent Laboratory Systems*, **2006**, 83, 54-65	3.8	60
162	Multivariate data analysis as a tool in advanced quality monitoring in the food production chain. *Trends in Food Science and Technology*, **2002**, 13, 235-244	15.3	59
161	Analysis of lipoproteins using 2D diffusion-edited NMR spectroscopy and multi-way chemometrics. *Analytica Chimica Acta*, **2005**, 531, 209-216	6.6	56
160	Olive oil quantification of edible vegetable oil blends using triacylglycerols chromatographic fingerprints and chemometric tools. *Talanta*, **2011**, 85, 177-82	6.2	54
159	Quantifying catecholamines using multi-way kinetic modelling. *Analytica Chimica Acta*, **2003**, 475, 137-150	5.06	54

158	Solving fundamental problems in chromatographic analysis. *Analytical and Bioanalytical Chemistry*, **2008**, 390, 281-5	4.4	53
157	Combining PARAFAC analysis of HPLC-PDA profiles and structural characterization using HPLC-PDA-SPE-NMR-MS experiments: commercial preparations of St. John's Wort. *Analytical Chemistry*, **2008**, 80, 1978-87	7.8	51
156	Classification of GC-MS measurements of wines by combining data dimension reduction and variable selection techniques. *Journal of Chemometrics*, **2008**, 22, 457-463	1.6	51
155	Theory of net analyte signal vectors in inverse regression. *Journal of Chemometrics*, **2003**, 17, 646-652	1.6	51
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153	Forecasting individual breast cancer risk using plasma metabolomics and biocontours. *Metabolomics*, **2015**, 11, 1376-1380	4.7	48
152	EEMizer: Automated modeling of fluorescence EEM data. *Chemometrics and Intelligent Laboratory Systems*, **2011**, 106, 86-92	3.8	48
151	Multi-way prediction in the presence of uncalibrated interferents. *Journal of Chemometrics*, **2007**, 21, 76-86	1.6	48
150	Review of Chemometrics Applied to Spectroscopy: 1985-95, Part 2. *Applied Spectroscopy Reviews*, **1996**, 31, 347-368	4.5	48
149	Review of Chemometrics Applied to Spectroscopy: 1985-95, Part 3 Multi-way Analysis. *Applied Spectroscopy Reviews*, **1997**, 32, 237-261	4.5	47
148	A novel strategy for solving matrix effect in three-way data using parallel profiles with linear dependencies. *Analytica Chimica Acta*, **2007**, 584, 397-402	6.6	47
147	On the difference between low-rank and subspace approximation: improved model for multi-linear PLS regression. *Chemometrics and Intelligent Laboratory Systems*, **2001**, 58, 3-13	3.8	47
146	Multiblock variance partitioning: a new approach for comparing variation in multiple data blocks. *Analytica Chimica Acta*, **2008**, 615, 18-29	6.6	44
145	Data fusion in metabolomic cancer diagnostics. *Metabolomics*, **2013**, 9, 3-8	4.7	43
144	Analysis of sensory data of Aceto Balsamico Tradizionale di Modena (ABTM) of different ageing by application of PARAFAC models. *Food Quality and Preference*, **2006**, 17, 419-428	5.8	43
143	Enzymatic browning of vegetables. Calibration and analysis of variance by multiway methods. *Chemometrics and Intelligent Laboratory Systems*, **1996**, 34, 85-102	3.8	42
142	Determination of the botanical origin of honey by front-face synchronous fluorescence spectroscopy. *Applied Spectroscopy*, **2014**, 68, 557-63	3.1	41
141	PARAFASCA: ASCA combined with PARAFAC for the analysis of metabolic fingerprinting data. *Journal of Chemometrics*, **2008**, 22, 114-121	1.6	41

140	A classification tool for N-way array based on SIMCA methodology. *Chemometrics and Intelligent Laboratory Systems*, **2011**, 106, 73-85	3.8	40
139	Diagnosing latent copper deficiency in intact barley leaves (Hordeum vulgare, L.) using near infrared spectroscopy. *Journal of Agricultural and Food Chemistry*, **2013**, 61, 10901-10	5.7	39
138	Active photosensitizers in butter detected by fluorescence spectroscopy and multivariate curve resolution. *Journal of Agricultural and Food Chemistry*, **2006**, 54, 10197-204	5.7	38
137	. *IEEE Transactions on Signal Processing*, **2015**, 63, 6315-6328	4.8	37
136	PARAFAC models of fluorescence data with scattering: A comparative study. *Chemometrics and Intelligent Laboratory Systems*, **2015**, 142, 124-130	3.8	37
135	Using deep learning to evaluate peaks in chromatographic data. *Talanta*, **2019**, 204, 255-260	6.2	36
134	Variable selection in multi-block regression. *Chemometrics and Intelligent Laboratory Systems*, **2016**, 156, 89-101	3.8	36
133	Spectral reflectance at sub-leaf scale including the spatial distribution discriminating NPK stress characteristics in barley using multiway partial least squares regression. *International Journal of Remote Sensing*, **2007**, 28, 943-962	3.1	35
132	The Use of Visible and Near-Infrared Reflectance Measurements to assess Sensory Changes in Carrot Texture and Sweetness during Heat Treatment. *Biosystems Engineering*, **2003**, 85, 213-225	4.8	35
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129	Univariate and multivariate modelling of flavour release in chewing gum using time-intensity: a comparison of data analytical methods. *Food Quality and Preference*, **2005**, 16, 327-343	5.8	33
128	Comparison of PARAFAC2 and MCR-ALS for resolution of an analytical liquid dilution system. *Chemometrics and Intelligent Laboratory Systems*, **2006**, 83, 13-25	3.8	33
127	Exploring Fluorescence Spectra of Apple Juice and Their Connection to Quality Parameters by Chemometrics. *Journal of Agricultural and Food Chemistry*, **1996**, 44, 3202-3205	5.7	33
126	Fluorescence spectroscopy as a potential metabonomic tool for early detection of colorectal cancer. *Metabolomics*, **2012**, 8, 111-121	4.7	32
125	A comparison of a common approach to partial least squares-discriminant analysis and classical least squares in hyperspectral imaging. *International Journal of Pharmaceutics*, **2009**, 373, 179-82	6.5	32
124	Fluorescence spectroscopy and chemometrics for classification of breast cancer samples feasibility study using extended canonical variates analysis. *Journal of Chemometrics*, **2007**, 21, 451-458	1.6	32
123	Real-time monitoring and chemical profiling of a cultivation process. *Chemometrics and Intelligent Laboratory Systems*, **2006**, 84, 106-113	3.8	32

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121	Core consistency diagnostic in PARAFAC2. *Journal of Chemometrics*, **2013**, 27, 99-105	1.6	30
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118	Multiway chemometric analysis of the metabolic response to toxins monitored by NMR. *Chemometrics and Intelligent Laboratory Systems*, **2005**, 76, 79-89	3.8	30
117	Multiscale entropy analysis of resting-state magnetoencephalogram with tensor factorisations in Alzheimer's disease. *Brain Research Bulletin*, **2015**, 119, 136-44	3.9	29
116	Emerging patterns in the global distribution of dissolved organic matter fluorescence. *Analytical Methods*, **2019**, 11, 888-893	3.2	28
115	Discriminating olive and non-olive oils using HPLC-CAD and chemometrics. *Analytical and Bioanalytical Chemistry*, **2011**, 399, 2083-92	4.4	28
114	Development of models for predicting toxicity from sediment chemistry by partial least squares-discriminant analysis and counter-propagation artificial neural networks. *Environmental Pollution*, **2010**, 158, 607-14	9.3	28
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110	Exploring complex interactions in designed data using GEMANOVA. Color changes in fresh beef during storage. *Journal of Chemometrics*, **2002**, 16, 294-304	1.6	27
109	Extension of SO-PLS to multi-way arrays: SO-N-PLS. *Chemometrics and Intelligent Laboratory Systems*, **2017**, 164, 113-126	3.8	26
108	Using PAT to accelerate the transition to continuous API manufacturing. *Analytical and Bioanalytical Chemistry*, **2017**, 409, 821-832	4.4	26
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105	Coclustering: useful tool for chemometrics. *Journal of Chemometrics*, **2012**, 26, 256-263	1.6	24

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87	A metabolomic investigation of splanchnic metabolism using 1H NMR spectroscopy of bovine blood plasma. *Analytica Chimica Acta*, **2005**, 536, 1-6	6.6	17

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85	Vibrational overtone combination spectroscopy (VOCSY)-a new way of using IR and NIR data. *Analytical and Bioanalytical Chemistry*, **2007**, 388, 179-88	4.4	16
84	Determination of the protein content in brine from salted herring using near-infrared spectroscopy. *LWT - Food Science and Technology*, **2004**, 37, 803-809	5.4	16
83	Coupled Matrix Factorization with Sparse Factors to Identify Potential Biomarkers in Metabolomics **2012**,		15
82	Prediction of skin quality properties by different Multivariate Image Analysis methodologies. *Chemometrics and Intelligent Laboratory Systems*, **2009**, 96, 6-13	3.8	15
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80	DOUBLESLICING: a non-iterative single profile multi-exponential curve resolution procedure. Application to time-domain NMR transverse relaxation data. *Journal of Magnetic Resonance*, **2007**, 189, 286-92	3	14
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73	Calibration, standardization, and quantitative analysis of multidimensional fluorescence (MDF) measurements on complex mixtures (IUPAC Technical Report). *Pure and Applied Chemistry*, **2017**, 89, 1849-1870	2.1	12
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59	Laser-induced breakdown spectroscopy (LIBS) spectra interpretation and characterization using parallel factor analysis (PARAFAC): a new procedure for data and spectral interference processing fostering the waste electrical and electronic equipment (WEEE) recycling process. *Journal of Analytical Atomic Spectrometry*, **2020**, 35, 1115-1124	3.7	9
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57	Dioxin screening in fish product by pattern recognition of biomarkers. *Chemosphere*, **2007**, 67, S28-35	8.4	9
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55	SCREAM: A novel method for multi-way regression problems with shifts and shape changes in one mode. *Chemometrics and Intelligent Laboratory Systems*, **2013**, 129, 64-75	3.8	8
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