

Alejandro C Olivieri

List of Publications by Year in descending order

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249
papers

9,420
citations

34076

52
h-index

56687

83
g-index

254
all docs

254
docs citations

254
times ranked

5151
citing authors

#	ARTICLE	IF	CITATIONS
1	Sensitivity and generalized analytical sensitivity expressions for quantitative analysis using convolutional neural networks. <i>Analytica Chimica Acta</i> , 2022, 1192, 338697.	2.6	5
2	How noise affects the band boundaries in multivariate curve resolution. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2022, 220, 104472.	1.8	5
3	Evaluation of the ambiguity in second-order analytical calibration based on multivariate curve resolution. A tutorial. <i>Microchemical Journal</i> , 2022, 179, 107455.	2.3	7
4	N&BANDS: A new algorithm for estimating the extension of feasible bands in multivariate curve resolution of multicomponent systems in the presence of noise and rotational ambiguity. <i>Journal of Chemometrics</i> , 2021, 35, e3317.	0.7	17
5	Statistics and Food Quality. , 2021, , 362-386.		0
6	Processing multi-way chromatographic data for analytical calibration, classification and discrimination: A successful marriage between separation science and chemometrics. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 134, 116128.	5.8	27
7	A down-to-earth analyst view of rotational ambiguity in second-order calibration with multivariate curve resolution&^ a tutorial. <i>Analytica Chimica Acta</i> , 2021, 1156, 338206.	2.6	19
8	On the signal contribution function with respect to different norms. <i>Journal of Chemometrics</i> , 2021, 35, e3363.	0.7	1
9	Interference-free calibration with first-order instrumental data and multivariate curve resolution. When and why?. <i>Analytica Chimica Acta</i> , 2021, 1161, 338465.	2.6	7
10	Estimating the boundaries of the feasible profiles in the bilinear decomposition of multi-component data matrices. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2021, 216, 104387.	1.8	6
11	Achieving the analytical second-order advantage with non-bilinear second-order data. <i>Analytica Chimica Acta</i> , 2021, 1181, 338911.	2.6	7
12	Chromatographic Applications in the Multi-Way Calibration Field. <i>Molecules</i> , 2021, 26, 6357.	1.7	7
13	Second&order multivariate calibration with the extended bilinear model: Effect of initialization, constraints, and composition of the calibration set on the extent of rotational ambiguity. <i>Journal of Chemometrics</i> , 2020, 34, e3130.	0.7	13
14	Figures&of Merit. , 2020, , 441-463.		2
15	On second-order calibration based on multivariate curve resolution in the presence of highly overlapped profiles. <i>Analytica Chimica Acta</i> , 2020, 1096, 53-60.	2.6	10
16	Why should the pharmaceutical industry claim for the implementation of second-order chemometric models&A critical review. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 179, 112965.	1.4	16
17	MVC1_GUI: A MATLAB graphical user interface for first-order multivariate calibration. An upgrade including artificial neural networks modelling. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2020, 206, 104162.	1.8	15
18	Sensitivity for Multivariate Calibration Based on Multilayer Perceptron Artificial Neural Networks. <i>Analytical Chemistry</i> , 2020, 92, 12265-12272.	3.2	15

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19	Initialization effects in two-component second-order multivariate calibration with the extended bilinear model. <i>Analytica Chimica Acta</i> , 2020, 1125, 169-176.	2.6	13
20	A New Parameter for Measuring the Prediction Uncertainty Produced by Rotational Ambiguity in Second-Order Calibration with Multivariate Curve Resolution. <i>Analytical Chemistry</i> , 2020, 92, 9118-9123.	3.2	11
21	Using chemometric tools to investigate the quality of three- and four-way liquid chromatographic data obtained with two different fluorescence detectors and applied to the determination of quinolone antibiotics in animal tissues. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2020, 199, 103972.	1.8	6
22	Developing and Implementing an R Shiny Application to Introduce Multivariate Calibration to Advanced Undergraduate Students. <i>Journal of Chemical Education</i> , 2020, 97, 1176-1180.	1.1	8
23	Comparative chemometric analysis of fluorescence and near infrared spectroscopies for authenticity confirmation and geographical origin of Argentinean extra virgin olive oils. <i>Food Control</i> , 2019, 96, 22-28.	2.8	47
24	Complex numbers-partial least-squares applied to the treatment of electrochemical impedance spectroscopy data. <i>Analytica Chimica Acta</i> , 2019, 1080, 1-11.	2.6	6
25	Interpretation of matrix chromatographic-spectral data modeling with parallel factor analysis 2 and multivariate curve resolution. <i>Journal of Chromatography A</i> , 2019, 1604, 460502.	1.8	17
26	Multi-way chromatographic calibration—A review. <i>Journal of Chromatography A</i> , 2019, 1587, 2-13.	1.8	59
27	Analytical chemistry assisted by multi-way calibration: A contribution to green chemistry. <i>Talanta</i> , 2019, 204, 700-712.	2.9	31
28	Contribution to second-order calibration based on multivariate curve resolution with and without previous chromatographic synchronization. <i>Analytica Chimica Acta</i> , 2019, 1078, 8-15.	2.6	4
29	Classification of olive oils according to their cultivars based on second-order data using LC-DAD. <i>Talanta</i> , 2019, 195, 69-76.	2.9	22
30	Error Covariance Penalized Regression: A novel multivariate model combining penalized regression with multivariate error structure. <i>Analytica Chimica Acta</i> , 2018, 1011, 20-27.	2.6	10
31	MVC3_GUI: A MATLAB graphical user interface for third-order multivariate calibration. An upgrade including new multi-way models. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2018, 173, 21-29.	1.8	24
32	The effect of constraints on the analytical figures of merit achieved by extended multivariate curve resolution-alternating least-squares. <i>Analytica Chimica Acta</i> , 2018, 1003, 10-15.	2.6	9
33	Phenolic profiling of grapes, fermenting samples and wines using UV-Visible spectroscopy with chemometrics. <i>Food Control</i> , 2018, 85, 11-22.	2.8	59
34	Online Third-Order Liquid Chromatographic Data with Native and Photoinduced Fluorescence Detection for the Quantitation of Organic Pollutants in Environmental Water. <i>ACS Omega</i> , 2018, 3, 15771-15779.	1.6	13
35	Introduction to Multivariate Calibration. , 2018, , .		41
36	Chemometrics coupled to vibrational spectroscopy and spectroscopic imaging for the analysis of solid-phase pharmaceutical products: A brief review on non-destructive analytical methods. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 108, 74-87.	5.8	47

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37	Strategy To Obtain Accurate Analytical Solutions in Second-Order Multivariate Calibration with Curve Resolution Methods. <i>Analytical Chemistry</i> , 2018, 90, 9725-9733.	3.2	15
38	Quantifying the Prediction Error in Analytical Multivariate Curve Resolution Studies of Multicomponent Systems. <i>Analytical Chemistry</i> , 2018, 90, 7040-7047.	3.2	26
39	Structural analysis of natural deep eutectic solvents. Theoretical and experimental study. <i>Microchemical Journal</i> , 2018, 143, 252-258.	2.3	47
40	Chemometrics and Multivariate Calibration. , 2018, , 1-17.		2
41	Analytical Figures of Merit. , 2018, , 159-177.		2
42	MVC1: Software for Multivariate Calibration. , 2018, , 179-205.		0
43	The Classical Least-Squares Model. , 2018, , 19-38.		0
44	The Optimum Number of Latent Variables. , 2018, , 87-101.		3
45	The Partial Least-Squares Model. , 2018, , 103-121.		0
46	Mathematical Pre-processing. , 2018, , 139-158.		1
47	The effect of data matrix augmentation and constraints in extended multivariate curve resolution—alternating least squares. <i>Journal of Chemometrics</i> , 2017, 31, e2875.	0.7	32
48	Multivariate curve resolution applied to kinetic-spectroscopic data matrices: Dye determination in foods by means of enzymatic oxidation. <i>Talanta</i> , 2017, 169, 189-194.	2.9	6
49	A systematic study on the effect of noise and shift on multivariate figures of merit of second-order calibration algorithms. <i>Analytica Chimica Acta</i> , 2017, 952, 18-31.	2.6	16
50	Recent advances in analytical figures of merit: heteroscedasticity strikes back. <i>Analytical Methods</i> , 2017, 9, 739-743.	1.3	12
51	Maximum likelihood unfolded principal component regression with residual bilinearization (MLU-PCR/RBL) for second-order multivariate calibration. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2017, 170, 51-57.	1.8	6
52	SRO_ANN: An integrated MatLab toolbox for multiple surface response optimization using radial basis functions. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2017, 171, 198-206.	1.8	20
53	A road map for multi-way calibration models. <i>Analyst, The</i> , 2017, 142, 2862-2873.	1.7	38
54	Chemometric modeling of kinetic-fluorescent third-order data for thiamine determination in multivitamin complexes. <i>Microchemical Journal</i> , 2016, 128, 42-46.	2.3	13

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55	Multi-way figures of merit in the presence of heteroscedastic and correlated instrumental noise: Unfolded partial least-squares with residual multi-linearization. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2016, 158, 200-209.	1.8	11
56	Sensitivity, Prediction Uncertainty, and Detection Limit for Artificial Neural Network Calibrations. <i>Analytical Chemistry</i> , 2016, 88, 7807-7812.	3.2	27
57	A new and consistent parameter for measuring the quality of multivariate analytical methods: Generalized analytical sensitivity. <i>Analytica Chimica Acta</i> , 2016, 933, 43-49.	2.6	19
58	Generalized error-dependent prediction uncertainty in multivariate calibration. <i>Analytica Chimica Acta</i> , 2016, 903, 51-60.	2.6	27
59	Unfolded and Multiway Partial Least-Squares with Residual Multilinearization. <i>Data Handling in Science and Technology</i> , 2015, 29, 347-363.	3.1	6
60	Unfolded and Multiway Partial Least-Squares with Residual Multilinearization. <i>Data Handling in Science and Technology</i> , 2015, 29, 365-397.	3.1	7
61	Figures of Merit in Multiway Calibration. <i>Data Handling in Science and Technology</i> , 2015, 29, 541-575.	3.1	7
62	Novel augmented parallel factor model for four-way calibration of high-performance liquid chromatographyâ€“fluorescence excitationâ€“emission data. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2015, 141, 1-11.	1.8	28
63	A new modeling strategy for third-order fast high-performance liquid chromatographic data with fluorescence detection. Quantitation of fluoroquinolones in water samples. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 1999-2011.	1.9	32
64	Practical guidelines for reporting results in single- and multi-component analytical calibration: A tutorial. <i>Analytica Chimica Acta</i> , 2015, 868, 10-22.	2.6	232
65	A novel application of nylon membranes for tributyltin determination in complex environmental samples by fluorescence spectroscopy and multivariate calibration. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2015, 148, 77-84.	1.8	7
66	Anthocyanins as markers for the classification of Argentinean wines according to botanical and geographical origin. Chemometric modeling of liquid chromatographyâ€“mass spectrometry data. <i>Food Chemistry</i> , 2015, 175, 174-180.	4.2	46
67	Spray drying formulation of albendazole microspheres by experimental design. <i>In vitro</i> â€“ <i>in vivo</i> studies. <i>Drug Development and Industrial Pharmacy</i> , 2015, 41, 244-252.	0.9	24
68	Experimental Three-way/Second-order Data. , 2014, , 27-45.		3
69	Recent Applications of First- and Second-Order Multivariate Calibration to Analytical Chemistry. <i>Journal of AOAC INTERNATIONAL</i> , 2014, 97, 39-49.	0.7	7
70	Partial Least-Squares with Residual Bilinearization. , 2014, , 157-195.		4
71	Analytical Figures of Merit. , 2014, , 93-107.		5
72	Parallel Factor Analysis. , 2014, , 109-125.		2

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73	Three-way/Second-order Standard Addition. , 2014, , 197-216.		1
74	Third-order/Four-way Calibration and Beyond. , 2014, , 217-232.		0
75	Determination of five pesticides in juice, fruit and vegetable samples by means of liquid chromatography combined with multivariate curve resolution. <i>Analytica Chimica Acta</i> , 2014, 814, 23-30.	2.6	69
76	Calibration Scenarios. , 2014, , 1-9.		5
77	Second- and higher-order data generation and calibration: A tutorial. <i>Analytica Chimica Acta</i> , 2014, 806, 8-26.	2.6	152
78	Second-order advantage obtained from standard addition first-order instrumental data and multivariate curve resolution-alternating least squares. Calculation of the feasible bands of results. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 122, 721-730.	2.0	10
79	Chemometric modeling of organic contaminant sources in surface waters of a mediterranean river basin. <i>Environmental Sciences: Processes and Impacts</i> , 2014, 16, 124-134.	1.7	6
80	IUPAC-Consistent Approach to the Limit of Detection in Partial Least-Squares Calibration. <i>Analytical Chemistry</i> , 2014, 86, 7858-7866.	3.2	252
81	Chemometric processing of second-order liquid chromatographic data with UV-vis and fluorescence detection. A comparison of multivariate curve resolution and parallel factor analysis 2. <i>Analytica Chimica Acta</i> , 2014, 842, 11-19.	2.6	46
82	Analytical Figures of Merit: From Univariate to Multiway Calibration. <i>Chemical Reviews</i> , 2014, 114, 5358-5378.	23.0	276
83	Design, Characterization, and In Vitro Evaluation of Antifungal Polymeric Films. <i>AAPS PharmSciTech</i> , 2013, 14, 64-73.	1.5	15
84	Optimization of the hydrolysis of lignocellulosic residues by using radial basis functions modeling and particle swarm optimization. <i>Biochemical Engineering Journal</i> , 2013, 80, 1-9.	1.8	10
85	An integrated approach to the simultaneous selection of variables, mathematical pre-processing and calibration samples in partial least-squares multivariate calibration. <i>Talanta</i> , 2013, 115, 755-760.	2.9	28
86	Determination of tributyltin at parts-per-trillion levels in natural waters by second-order multivariate calibration and fluorescence spectroscopy. <i>Microchemical Journal</i> , 2013, 106, 95-101.	2.3	20
87	Feasibility of the determination of polycyclic aromatic hydrocarbons in edible oils via unfolded partial least-squares/residual bilinearization and parallel factor analysis of fluorescence excitation emission matrices. <i>Talanta</i> , 2013, 103, 361-370.	2.9	53
88	A review on second- and third-order multivariate calibration applied to chromatographic data. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2012, 910, 22-30.	1.2	82
89	Uncovering interactions in Plackett-Burman screening designs applied to analytical systems. A Monte Carlo ant colony optimization approach. <i>Talanta</i> , 2012, 97, 242-248.	2.9	9
90	MVC3: A MATLAB graphical interface toolbox for third-order multivariate calibration. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2012, 116, 9-16.	1.8	60

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91	Sensitivity Equation for Quantitative Analysis with Multivariate Curve Resolution-Alternating Least-Squares: Theoretical and Experimental Approach. <i>Analytical Chemistry</i> , 2012, 84, 8697-8706.	3.2	92
92	Analytical Figures of Merit for Partial Least-Squares Coupled to Residual Multilinearization. <i>Analytical Chemistry</i> , 2012, 84, 10823-10830.	3.2	37
93	Determination of enantiomeric composition of ibuprofen in pharmaceutical formulations by partial least-squares regression of strongly overlapped chromatographic profiles. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2012, 910, 78-83.	1.2	11
94	New Developments for the Sensitivity Estimation in Four-Way Calibration with the Quadrilinear Parallel Factor Model. <i>Analytical Chemistry</i> , 2012, 84, 186-193.	3.2	56
95	Recent advances in analytical calibration with multi-way data. <i>Analytical Methods</i> , 2012, 4, 1876.	1.3	57
96	Multivariate curve-resolution analysis of pesticides in water samples from liquid chromatographic diode array data. <i>Talanta</i> , 2011, 83, 1173-1180.	2.9	22
97	Unfolded partial least-squares with residual quadrilinearization: A new multivariate algorithm for processing five-way data achieving the second-order advantage. Application to fourth-order excitation-emission-kinetic-pH fluorescence analytical data. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2011, 109, 178-185.	1.8	47
98	A new and efficient variable selection algorithm based on ant colony optimization. Applications to near infrared spectroscopy/partial least-squares analysis. <i>Analytica Chimica Acta</i> , 2011, 699, 18-25.	2.6	100
99	Four-way kinetic-excitation-emission fluorescence data processed by multi-way algorithms. Determination of carbaryl and 1-naphthol in water samples in the presence of fluorescent interferents. <i>Analytica Chimica Acta</i> , 2010, 677, 97-107.	2.6	47
100	Flow injection system for the on-line preconcentration of Pb by cloud point extraction coupled to USN-ICP OES. <i>Microchemical Journal</i> , 2010, 95, 306-310.	2.3	31
101	Residual bilinearization combined with kernel-unfolded partial least-squares: A new technique for processing non-linear second-order data achieving the second-order advantage. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2010, 100, 127-135.	1.8	17
102	Visible/near infrared-partial least-squares analysis of Brix in sugar cane juice. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2010, 102, 100-109.	1.8	66
103	Time dependence of the aroma pattern emitted by an encapsulated essence studied by means of electronic noses and chemometric analysis. <i>Food Research International</i> , 2010, 43, 797-804.	2.9	20
104	In vivo evaluation of albendazole microspheres for the treatment of <i>Toxocara canis</i> larva migrans. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2010, 75, 451-454.	2.0	39
105	Application of chemometric methods to environmental analysis of organic pollutants: A review. <i>Talanta</i> , 2010, 80, 1052-1067.	2.9	119
106	Development of a novel strategy for preconcentration of antibiotic residues in milk and their quantitation by capillary electrophoresis. <i>Talanta</i> , 2010, 82, 213-221.	2.9	70
107	Second-Order Analyte Quantitation under Identical Profiles in One Data Dimension. A Dependency-Adapted Partial Least-Squares/Residual Bilinearization Method. <i>Analytical Chemistry</i> , 2010, 82, 4510-4519.	3.2	27
108	Application of the correlation constrained multivariate curve resolution alternating least-squares method for analyte quantitation in the presence of unexpected interferences using first-order instrumental data. <i>Analyst</i> , 2010, 135, 636.	1.7	56

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109	A novel second-order standard addition analytical method based on data processing with multidimensional partial least-squares and residual bilinearization. <i>Analytica Chimica Acta</i> , 2009, 651, 165-172.	2.6	31
110	Development of novel formulations for Chagas's disease: Optimization of benzimidazole chitosan microparticles based on artificial neural networks. <i>International Journal of Pharmaceutics</i> , 2009, 367, 140-147.	2.6	65
111	Principal component analysis-adaptive neuro-fuzzy inference systems (ANFISs) for the simultaneous spectrophotometric determination of three metals in water samples. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009, 73, 608-614.	2.0	11
112	MVC2: A MATLAB graphical interface toolbox for second-order multivariate calibration. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2009, 96, 246-251.	1.8	197
113	Multiple response optimization of styrene-butadiene rubber emulsion polymerization. <i>Computers and Chemical Engineering</i> , 2009, 33, 850-856.	2.0	33
114	Standard addition analysis of fluoroquinolones in human serum in the presence of the interferent salicylate using lanthanide-sensitized excitation-time decay luminescence data and multivariate curve resolution. <i>Talanta</i> , 2009, 77, 1715-1723.	2.9	48
115	When unfolding is better: unique success of unfolded partial least-squares regression with residual bilinearization for the processing of spectral pH data with strong spectral overlapping. Analysis of fluoroquinolones in human urine based on flow-injection pH-modulated synchronous fluorescence data matrices. <i>Analyst, The</i> , 2009, 134, 1682.	1.7	27
116	A multiway approach for classification and characterization of rabbit liver apothioneins by CE-ESI-MS. <i>Electrophoresis</i> , 2008, 29, 4355-4367.	1.3	22
117	Chemometric resolution of fully overlapped CE peaks: Quantitation of carbamazepine in human serum in the presence of several interferences. <i>Electrophoresis</i> , 2008, 29, 4527-4537.	1.3	30
118	Multiresponse optimization of the properties of albendazole-chitosan microparticles. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2008, 48, 802-807.	1.4	24
119	Three-way partial least-squares/residual bilinearization study of second-order lanthanide-sensitized luminescence excitation-time decay data. <i>Analytica Chimica Acta</i> , 2008, 610, 186-195.	2.6	37
120	Second-order advantage from kinetic-spectroscopic data matrices in the presence of extreme spectral overlapping. <i>Analytica Chimica Acta</i> , 2008, 614, 46-57.	2.6	52
121	A versatile strategy for achieving the second-order advantage when applying different artificial neural networks to non-linear second-order data: Unfolded principal component analysis/residual bilinearization. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2008, 92, 61-70.	1.8	32
122	Analytical Advantages of Multivariate Data Processing. One, Two, Three, Infinity?. <i>Analytical Chemistry</i> , 2008, 80, 5713-5720.	3.2	206
123	Screening of Oil Samples on the Basis of Excitation-Emission Room-Temperature Phosphorescence Data and Multiway Chemometric Techniques. Introducing the Second-Order Advantage in a Classification Study. <i>Analytical Chemistry</i> , 2008, 80, 2789-2798.	3.2	42
124	Nonlinear Four-Way Kinetic-Excitation-Emission Fluorescence Data Processed by a Variant of Parallel Factor Analysis and by a Neural Network Model Achieving the Second-Order Advantage: Malonaldehyde Determination in Olive Oil Samples. <i>Analytical Chemistry</i> , 2008, 80, 7248-7256.	3.2	41
125	Different strategies for the direct determination of amoxicillin in human urine by second-order multivariate analysis of kinetic-spectrophotometric data. <i>Talanta</i> , 2007, 71, 806-815.	2.9	70
126	Experimental study of non-linear second-order analytical data with focus on the second-order advantage. <i>Analyst, The</i> , 2007, 132, 654-663.	1.7	21

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127	Multiway Partial Least-Squares Coupled to Residual Trilinearization: A Genuine Multidimensional Tool for the Study of Third-Order Data. Simultaneous Analysis of Procaine and Its Metabolite <i>p</i> -Aminobenzoic Acid in Equine Serum. <i>Analytical Chemistry</i> , 2007, 79, 6949-6958.	3.2	59
128	Improvement of residual bilinearization by particle swarm optimization for achieving the second-order advantage with unfolded partial least-squares. <i>Journal of Chemometrics</i> , 2007, 21, 557-566.	0.7	12
129	Second- and third-order multivariate calibration: data, algorithms and applications. <i>TrAC - Trends in Analytical Chemistry</i> , 2007, 26, 752-765.	5.8	294
130	Determination of pesticides and metabolites in wine by high performance liquid chromatography and second-order calibration methods. <i>Journal of Chromatography A</i> , 2007, 1148, 200-210.	1.8	42
131	Analysis of amoxicillin in human urine by photo-activated generation of fluorescence excitation-emission matrices and artificial neural networks combined with residual bilinearization. <i>Analytica Chimica Acta</i> , 2007, 588, 192-199.	2.6	31
132	Simultaneous multiresponse optimization applied to epinastine determination in human serum by using capillary electrophoresis. <i>Analytica Chimica Acta</i> , 2007, 595, 310-318.	2.6	20
133	Second-Order Advantage Achieved by Unfolded-Partial Least-Squares/Residual Bilinearization Modeling of Excitation-Emission Fluorescence Data Presenting Inner Filter Effects. <i>Analytical Chemistry</i> , 2006, 78, 8051-8058.	3.2	69
134	Evaluation of partial least-squares with second-order advantage for the multi-way spectroscopic analysis of complex biological samples in the presence of analyte-background interactions. <i>Analyst</i> , 2006, 131, 718-723.	1.7	54
135	Uncertainty estimation and figures of merit for multivariate calibration (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2006, 78, 633-661.	0.9	309
136	Trilinear least-squares and unfolded-PLS coupled to residual trilinearization: New chemometric tools for the analysis of four-way instrumental data. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2006, 80, 77-86.	1.8	89
137	Spectroscopic bilinear least-squares methods exploiting the second-order advantage. Theoretical and experimental study concerning accuracy, sensitivity and prediction error. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2006, 80, 99-108.	1.8	22
138	A review of multivariate calibration methods applied to biomedical analysis. <i>Microchemical Journal</i> , 2006, 82, 29-42.	2.3	81
139	Estimation of the composition of recombinant human erythropoietin mixtures using capillary electrophoresis and multivariate calibration methods. <i>Electrophoresis</i> , 2006, 27, 4008-4015.	1.3	13
140	Artificial neural networks study of the catalytic reduction of resazurin: stopped-flow injection kinetic-spectrophotometric determination of Cu(II) and Ni(II). <i>Analytica Chimica Acta</i> , 2005, 528, 275-284.	2.6	17
141	Design and optimization of a chemometrics-assisted spectrophotometric method for the simultaneous determination of levodopa and carbidopa in pharmaceutical products. <i>Analytica Chimica Acta</i> , 2005, 543, 192-198.	2.6	38
142	Application of partial least-squares spectrophotometric-multivariate calibration to the determination of 2-sec-butyl-4,6-dinitrophenol (dinoseb) and 2,6-dinitro-p-cresol in industrial and water samples containing hydrocarbons. <i>Analytica Chimica Acta</i> , 2005, 553, 141-147.	2.6	22
143	On a versatile second-order multivariate calibration method based on partial least-squares and residual bilinearization: Second-order advantage and precision properties. <i>Journal of Chemometrics</i> , 2005, 19, 253-265.	0.7	172
144	A closed-form expression for computing the sensitivity in second-order bilinear calibration. <i>Journal of Chemometrics</i> , 2005, 19, 583-592.	0.7	71

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145	A combined artificial neural network/residual bilinearization approach for obtaining the second-order advantage from three-way non-linear data. <i>Journal of Chemometrics</i> , 2005, 19, 615-624.	0.7	29
146	New Robust Bilinear Least Squares Method for the Analysis of Spectral-pH Matrix Data. <i>Applied Spectroscopy</i> , 2005, 59, 926-933.	1.2	50
147	Computing Sensitivity and Selectivity in Parallel Factor Analysis and Related Multiway Techniques:Â The Need for Further Developments in Net Analyte Signal Theory. <i>Analytical Chemistry</i> , 2005, 77, 4936-4946.	3.2	96
148	Evaluation of complex spectral-pH three-way arrays by modified bilinear least-squares: determination of four different dyes in interfering systems. <i>Analyst, The</i> , 2005, 130, 1291.	1.7	35
149	Four-Way Data Coupled to Parallel Factor Model Applied to Environmental Analysis:Â Determination of 2,3,7,8-Tetrachloro-dibenzo-para-dioxin in Highly Contaminated Waters by Solidâ~Liquid Extraction Laser-Excited Time-Resolved Shpol'skii Spectroscopy. <i>Analytical Chemistry</i> , 2005, 77, 2608-2616.	3.2	45
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