

# 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	Quadrupolar effects transferred to spin-12 magic-angle spinning spectra of solids. Progress in Nuclear Magnetic Resonance Spectroscopy, 1992, 24, 435-456.	3.9	312
2	Uncertainty estimation and figures of merit for multivariate calibration (IUPAC Technical Report). Pure and Applied Chemistry, 2006, 78, 633-661.	0.9	309
3	Second- and third-order multivariate calibration: data, algorithms and applications. TrAC - Trends in Analytical Chemistry, 2007, 26, 752-765.	5.8	294
4	Analytical Figures of Merit: From Univariate to Multiway Calibration. Chemical Reviews, 2014, 114, 5358-5378.	23.0	276
5	IUPAC-Consistent Approach to the Limit of Detection in Partial Least-Squares Calibration. Analytical Chemistry, 2014, 86, 7858-7866.	3.2	252
6	Practical guidelines for reporting results in single- and multi-component analytical calibration: A tutorial. Analytica Chimica Acta, 2015, 868, 10-22.	2.6	232
7	Analytical Advantages of Multivariate Data Processing. One, Two, Three, Infinity?. Analytical Chemistry, 2008, 80, 5713-5720.	3.2	206
8	MVC2: A MATLAB graphical interface toolbox for second-order multivariate calibration. Chemometrics and Intelligent Laboratory Systems, 2009, 96, 246-251.	1.8	197
9	MVC1: an integrated MatLab toolbox for first-order multivariate calibration. Chemometrics and Intelligent Laboratory Systems, 2004, 73, 189-197.	1.8	191
10	On a versatile second-order multivariate calibration method based on partial least-squares and residual bilinearization: Second-order advantage and precision properties. Journal of Chemometrics, 2005, 19, 253-265.	0.7	172
11	Second- and higher-order data generation and calibration: A tutorial. Analytica Chimica Acta, 2014, 806, 8-26.	2.6	152
12	Carbon-13 NMR and x-ray structure determination of 1-(aryloxy)-2-naphthols. Intramolecular proton transfer between nitrogen and oxygen atoms in the solid state. Journal of the American Chemical Society, 1989, 111, 5525-5532.	6.6	129
13	Application of chemometric methods to environmental analysis of organic pollutants: A review. Talanta, 2010, 80, 1052-1067.	2.9	119
14	Enhanced Synchronous Spectrofluorometric Determination of Tetracycline in Blood Serum by Chemometric Analysis. Comparison of Partial Least-Squares and Hybrid Linear Analysis Calibrations. Analytical Chemistry, 1999, 71, 4361-4368.	3.2	105
15	Second-Order Advantage Achieved with Four-Way Fluorescence Excitation-Emission Kinetic Data Processed by Parallel Factor Analysis and Trilinear Least-Squares. Determination of Methotrexate and Leucovorin in Human Urine. Analytical Chemistry, 2004, 76, 5657-5666.	3.2	105
16	A comparison of orthogonal signal correction and net analyte preprocessing methods. Theoretical and experimental study. Chemometrics and Intelligent Laboratory Systems, 2001, 56, 73-81.	1.8	103
17	A new and efficient variable selection algorithm based on ant colony optimization. Applications to near infrared spectroscopy/partial least-squares analysis. Analytica Chimica Acta, 2011, 699, 18-25.	2.6	100
18	Interference-Free Analysis Using Three-Way Fluorescence Data and the Parallel Factor Model. Determination of Fluoroquinolone Antibiotics in Human Serum. Analytical Chemistry, 2003, 75, 2640-2646.	3.2	97

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19	Simultaneous spectrophotometric-multivariate calibration determination of several components of ophthalmic solutions: phenylephrine, chloramphenicol, antipyrine, methylparaben and thimerosal. <i>Talanta</i> , 2000, 52, 909-920.	2.9	96
20	Computing Sensitivity and Selectivity in Parallel Factor Analysis and Related Multiway Techniques: The Need for Further Developments in Net Analyte Signal Theory. <i>Analytical Chemistry</i> , 2005, 77, 4936-4946.	3.2	96
21	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
22	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
23	Substituent and solvent effects on the proton transfer equilibrium in anils and azo derivatives of naphthol. Multinuclear NMR study and theoretical calculations. <i>Journal of Molecular Structure</i> , 2004, 705, 1-9.	1.8	82
24	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
25	A review of multivariate calibration methods applied to biomedical analysis. <i>Microchemical Journal</i> , 2006, 82, 29-42.	2.3	81
26	Standard error of prediction in parallel factor analysis of three-way data. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2004, 70, 75-82.	1.8	71
27	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
28	Wavelength selection by net analyte signals calculated with multivariate factor-based hybrid linear analysis (HLA). A theoretical and experimental comparison with partial least-squares (PLS). <i>Analyst</i> , 1999, 124, 725-731.	1.7	70
29	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
30	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
31	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
32	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
33	Simultaneous determination of rifampicin, isoniazid and pyrazinamide in tablet preparations by multivariate spectrophotometric calibration. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1999, 20, 681-686.	1.4	67
34	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
35	Development of novel formulations for Chagas disease: Optimization of benznidazole chitosan microparticles based on artificial neural networks. <i>International Journal of Pharmaceutics</i> , 2009, 367, 140-147.	2.6	65
36	Study of quadrupole-perturbed quartets in the solid-state magic-angle spinning phosphorus-31 NMR spectra of phosphine-copper(I) complexes. $^{63}\text{Cu}$ electric field gradients and anisotropy in the $^{31}\text{P}$ , $^{63}\text{Cu}$ scalar coupling. <i>Journal of the American Chemical Society</i> , 1992, 114, 5758-5763.	6.6	64

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37	A Test Field for the Second-Order Advantage in Bilinear Least-Squares and Parallel Factor Analyses: A Fluorescence Determination of Ciprofloxacin in Human Urine. <i>Analytical Chemistry</i> , 2004, 76, 2798-2806.	3.2	63
38	Spectrofluorometric determination of diclofenac in tablets and ointments. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1999, 20, 587-590.	1.4	62
39	Simultaneous determination of levodopa and benserazide by stopped-flow injection analysis and three-way multivariate calibration of kinetic-spectrophotometric data. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2004, 36, 541-547.	1.4	60
40	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
41	<sup>13</sup> C NMR spectroscopic and AM1 study of the intramolecular proton transfer in anils of salicylaldehyde and 2-hydroxynaphthalene-1-carbaldehyde. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1994, , 1067-1070.	0.9	59
42	Wavelength Selection for Multivariate Calibration Using a Genetic Algorithm: A Novel Initialization Strategy. <i>Journal of Chemical Information and Computer Sciences</i> , 2002, 42, 1146-1153.	2.8	59
43	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
44	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
45	Multi-way chromatographic calibration A review. <i>Journal of Chromatography A</i> , 2019, 1587, 2-13.	1.8	59
46	First- and second-order multivariate calibration applied to biological samples: determination of anti-inflammatories in serum and urine. <i>Analytical and Bioanalytical Chemistry</i> , 2002, 374, 451-459.	1.9	58
47	A new family of genetic algorithms for wavelength interval selection in multivariate analytical spectroscopy. <i>Journal of Chemometrics</i> , 2003, 17, 338-345.	0.7	57
48	Recent advances in analytical calibration with multi-way data. <i>Analytical Methods</i> , 2012, 4, 1876.	1.3	57
49	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
50	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
51	High-resolution solid-state carbon-13 NMR spectra of porphine and 5,10,15-20-tetraalkylporphyrins: implications for the nitrogen-hydrogen tautomerization process. <i>Journal of the American Chemical Society</i> , 1988, 110, 336-342.	6.6	54
52	Tautomerism of representative aromatic $\alpha$ -hydroxy carbaldehyde anils as studied by spectroscopic methods and AM1 calculations. Synthesis of 10-hydroxyphenanthrene-9-carbaldehyde. <i>Tetrahedron</i> , 1995, 51, 4619-4626.	1.0	54
53	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
54	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

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55	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
56	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
57	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
58	New Method for the Determination of Benzoic and Sorbic Acids in Commercial Orange Juices Based on Second-Order Spectrophotometric Data Generated by a pH Gradient Flow Injection Technique. <i>Journal of Agricultural and Food Chemistry</i> , 2004, 52, 2479-2484.	2.4	47
59	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
60	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
61	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
62	Structural analysis of natural deep eutectic solvents. Theoretical and experimental study. <i>Microchemical Journal</i> , 2018, 143, 252-258.	2.3	47
63	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
64	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
65	Anthocyanins as markers for the classification of Argentinean wines according to botanical and geographical origin. Chemometric modeling of liquid chromatography-mass spectrometry data. <i>Food Chemistry</i> , 2015, 175, 174-180.	4.2	46
66	Determination of theophylline in blood serum by UV spectrophotometry and partial least-squares (PLS-1) calibration. <i>Analytica Chimica Acta</i> , 1999, 384, 95-103.	2.6	45
67	Four-Way Data Coupled to Parallel Factor Model Applied to Environmental Analysis: Determination of 2,3,7,8-Tetrachloro-dibenzo-para-dioxin in Highly Contaminated Waters by Solid-Liquid Extraction Laser-Excited Time-Resolved Shpol'skii Spectroscopy. <i>Analytical Chemistry</i> , 2005, 77, 2608-2616.	3.2	45
68	Simultaneous determination of phenobarbital and phenytoin in tablet preparations by multivariate spectrophotometric calibration. <i>Talanta</i> , 1998, 47, 103-108.	2.9	44
69	A variable-temperature solid-state carbon-13 CPMAS NMR analysis of meso-tetrapropylporphyrin and of octaethylporphyrin. <i>Journal of the American Chemical Society</i> , 1988, 110, 5651-5661.	6.6	42
70	Direct and simultaneous spectrofluorometric determination of naproxen and salicylate in human serum assisted by chemometric analysis. <i>Analytica Chimica Acta</i> , 2002, 471, 87-96.	2.6	42
71	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
72	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

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73	Two Multivariate Strategies Applied to Three-Way Kinetic Spectrophotometric Data for the Determination of Mixtures of the Pesticides Carbaryl and Chlorpyrifos. <i>Applied Spectroscopy</i> , 2004, 58, 83-90.	1.2	41
74	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
75	Introduction to Multivariate Calibration. , 2018, , .		41
76	Solid-state electronic absorption, fluorescence and <sup>13</sup> C CP/MAS NMR spectroscopic study of thermo- and photo-chromic aromatic Schiff bases. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1996, , 2293-2296.	0.9	39
77	Complementary use of partial least-squares and artificial neural networks for the non-linear spectrophotometric analysis of pharmaceutical samples. <i>Analytical and Bioanalytical Chemistry</i> , 2002, 374, 460-465.	1.9	39
78	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
79	Microcomputer simulation of solid-state <sup>13</sup> C NMR line shapes affected by quadrupolar nuclei. <i>Magnetic Resonance in Chemistry</i> , 1988, 26, 615-618.	1.1	38
80	Sustained prediction ability of net analyte preprocessing methods using reduced calibration sets. Theoretical and experimental study involving the spectrophotometric analysis of multicomponent mixtures. <i>Analyst, The</i> , 2001, 126, 1105-1112.	1.7	38
81	Chemometric assisted simultaneous spectrophotometric determination of four-component nasal solutions with a reduced number of calibration samples. <i>Analytica Chimica Acta</i> , 2002, 453, 289-300.	2.6	38
82	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
83	A road map for multi-way calibration models. <i>Analyst, The</i> , 2017, 142, 2862-2873.	1.7	38
84	Quadrupole effects of nuclei on the solid-state magic-angle spinning nuclear magnetic resonance spectra of nuclei Deviations from first-order theory and implications concerning the sign of the indirect coupling constant. <i>Solid State Nuclear Magnetic Resonance</i> , 1993, 2, 325-334.	1.5	37
85	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
86	Analytical Figures of Merit for Partial Least-Squares Coupled to Residual Multilinearization. <i>Analytical Chemistry</i> , 2012, 84, 10823-10830.	3.2	37
87	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
88	Concerning the crystal structure of porphine: a proton pulsed and carbon-13 cross-polarization/magic-angle-spinning NMR study. <i>Journal of the American Chemical Society</i> , 1989, 111, 7001-7005.	6.6	33
89	Chemometrics assisted spectroscopic determination of vitamin B6, vitamin B12 and dexamethasone in injectables. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2003, 31, 621-627.	1.4	33
90	Multiple response optimization of styrene-butadiene rubber emulsion polymerization. <i>Computers and Chemical Engineering</i> , 2009, 33, 850-856.	2.0	33



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91	Development and validation of chemometrics-assisted spectrophotometry and micellar electrokinetic chromatography for the determination of four-component pharmaceuticals. <i>Analytica Chimica Acta</i> , 2003, 489, 77-84.	2.6	32
92	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
93	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
94	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
95	A simple approach to uncertainty propagation in preprocessed multivariate calibration. <i>Journal of Chemometrics</i> , 2002, 16, 207-217.	0.7	31
96	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
97	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
98	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
99	Analytical chemistry assisted by multi-way calibration: A contribution to green chemistry. <i>Talanta</i> , 2019, 204, 700-712.	2.9	31
100	The effects of interplay between quadrupolar, dipolar and shielding tensors on magic-angle spinning NMR spectra: shapes of spinning sidebands. <i>Molecular Physics</i> , 1996, 87, 669-677.	0.8	30
101	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
102	Spectroscopic and potentiometric study of aromatic $\pm$ -hydroxy azo compounds and their copper(II) complexes. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1997, 93, 545-551.	1.7	29
103	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
104	Rigorous Statistical Analysis of Errors in Chemical-Shift-Tensor Components Obtained from Spinning Sidebands in Solid-State NMR. <i>Journal of Magnetic Resonance Series A</i> , 1996, 123, 207-210.	1.6	28
105	Simultaneous multivariate spectrophotometric analysis of paracetamol and minor components (diphenhydramine or phenylpropanolamine) in tablet preparations. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1999, 20, 255-261.	1.4	28
106	Solid—Liquid Extraction Room Temperature Phosphorimetry and Pattern Recognition for Screening Polycyclic Aromatic Hydrocarbons and Polychlorinated Biphenyls in Water Samples. <i>Environmental Science &amp; Technology</i> , 2003, 37, 1385-1391.	4.6	28
107	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
108	Novel augmented parallel factor model for four-way calibration of high-performance liquid chromatography—fluorescence excitation—emission data. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2015, 141, 1-11.	1.8	28

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109	Fast spectrophotometric determination of fluoride in ground waters by flow injection using partial least-squares calibration. <i>Analytica Chimica Acta</i> , 2004, 512, 157-163.	2.6	27
110	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
111	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
112	Sensitivity, Prediction Uncertainty, and Detection Limit for Artificial Neural Network Calibrations. <i>Analytical Chemistry</i> , 2016, 88, 7807-7812.	3.2	27
113	Generalized error-dependent prediction uncertainty in multivariate calibration. <i>Analytica Chimica Acta</i> , 2016, 903, 51-60.	2.6	27
114	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
115	Simultaneous Multivariate Spectrophotometric Analysis of Binary and Ternary Mixtures of Sulfamethoxazole, Trimethoprim and Phenazopyridine in Tablets. <i>Analytical Letters</i> , 1999, 32, 1389-1401.	1.0	26
116	Spectrofluorimetric determination of phenylephrine in the presence of a large excess of paracetamol. <i>Analytica Chimica Acta</i> , 2000, 419, 159-168.	2.6	26
117	Quantifying the Prediction Error in Analytical Multivariate Curve Resolution Studies of Multicomponent Systems. <i>Analytical Chemistry</i> , 2018, 90, 7040-7047.	3.2	26
118	Ground- and excited-state prototropic tautomerism in anils of aromatic $\alpha$ -hydroxy aldehydes studied by electronic absorption, fluorescence and $^1\text{H}$ and $^{13}\text{C}$ NMR spectroscopies and semi-empirical calculations. <i>Journal of Physical Organic Chemistry</i> , 1995, 8, 713-720.	0.9	24
119	Multiresponse optimization of the properties of albendazole-chitosan microparticles. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2008, 48, 802-807.	1.4	24
120	Spray drying formulation of albendazole microspheres by experimental design. <i>In vitro</i> studies. <i>Drug Development and Industrial Pharmacy</i> , 2015, 41, 244-252.	0.9	24
121	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
122	A simple theoretical treatment of quadrupolar effects on magic-angle-spinning solid-state NMR spectra of nuclei in the limit of large quadrupole coupling constants. <i>Solid State Nuclear Magnetic Resonance</i> , 1993, 1, 345-353.	1.5	23
123	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
124	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
125	A multiway approach for classification and characterization of rabbit liver apothioneins by CE-MS. <i>Electrophoresis</i> , 2008, 29, 4355-4367.	1.3	22
126	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



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127	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
128	Simultaneous Determination of Timolol Maleate and Pilocarpine Hydrochloride in Ophthalmic Solutions by First Derivative UV Spectrophotometry and PLS-1 Multivariate Calibration. <i>Analytical Letters</i> , 1999, 32, 2019-2033.	1.0	21
129	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
130	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
131	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
132	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
133	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
134	Determination of three aspirin metabolites in human urine by derivative synchronous spectrofluorimetry. <i>Analyst, The</i> , 1995, 120, 443-445.	1.7	19
135	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
136	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
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