Mirta R AlcarÃ¡z

List of Publications by Year
in descending order

30	642	14	25
papers	citations	h-index	g-index

623734

580821

30	30	30	578
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	External-Cavity Quantum Cascade Laser Spectroscopy for Mid-IR Transmission Measurements of Proteins in Aqueous Solution. Analytical Chemistry, 2015, 87, 6980-6987.	6.5	80
2	Modeling excitation–emission fluorescence matrices with pattern recognition algorithms for classification of Argentine white wines according grape variety. Food Chemistry, 2015, 184, 214-219.	8.2	73
3	External cavity-quantum cascade laser infrared spectroscopy for secondary structure analysis of proteins at low concentrations. Scientific Reports, 2016, 6, 33556.	3.3	57
4	Modeling four and three-way fast high-performance liquid chromatography with fluorescence detection data for quantitation of fluoroquinolones in water samples. Analytica Chimica Acta, 2014, 809, 37-46.	5.4	45
5	Ultrafast quantitation of six quinolones in water samples by second-order capillary electrophoresis data modeling with multivariate curve resolution–alternating least squares. Analytical and Bioanalytical Chemistry, 2014, 406, 2571-2580.	3.7	36
6	A new modeling strategy for third-order fast high-performance liquid chromatographic data with fluorescence detection. Quantitation of fluoroquinolones in water samples. Analytical and Bioanalytical Chemistry, 2015, 407, 1999-2011.	3.7	32
7	EC-QCL mid-IR transmission spectroscopy for monitoring dynamic changes of protein secondary structure in aqueous solution on the example of Î²-aggregation in alcohol-denaturated Î±-chymotrypsin. Analytical and Bioanalytical Chemistry, 2016, 408, 3933-3941.	3.7	29
8	Application of MCR-ALS to reveal intermediate conformations in the thermally induced Î±-Î² transition of poly-l-lysine monitored by FT-IR spectroscopy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 185, 304-309.	3.9	25
9	Modeling of second-order spectrophotometric data generated by a pH-gradient flow injection technique for the determination of doxorubicin in human plasma. Microchemical Journal, 2014, 112, 25-33.	4.5	23
10	Third order chromatographic-excitation–emission fluorescence data: Advances, challenges and prospects in analytical applications. TrAC - Trends in Analytical Chemistry, 2017, 93, 119-133.	11.4	23
11	External cavity-quantum cascade laser (EC-QCL) spectroscopy for protein analysis in bovine milk. Analytica Chimica Acta, 2017, 963, 99-105.	5.4	22
12	Enhanced fluorescence sensitivity by coupling yttrium-analyte complexes and three-way fast high-performance liquid chromatography data modeling. Analytica Chimica Acta, 2016, 902, 50-58.	5.4	20
13	pH titration of Î²-lactoglobulin monitored by laser-based Mid-IR transmission spectroscopy coupled to chemometric analysis. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 226, 117636.	3.9	19
14	Four- and five-way excitation-emission luminescence-based data acquisition and modeling for analytical applications. A review. Analytica Chimica Acta, 2019, 1083, 41-57.	5.4	16
15	The Successive Projections Algorithm for interval selection in trilinear partial least-squares with residual bilinearization. Analytica Chimica Acta, 2014, 811, 13-22.	5.4	14
16	A graphical user interface as a new tool for scattering correction in fluorescence data. Chemometrics and Intelligent Laboratory Systems, 2019, 193, 103810.	3.5	14
17	Resolution of intermediate surface species by combining modulated infrared spectroscopy and chemometrics. Analytica Chimica Acta, 2019, 1049, 38-46.	5.4	14
18	Open-Source Assisted Laboratory Automation through Graphical User Interfaces and 3D Printers: Application to Equipment Hyphenation for Higher-Order Data Generation. Analytical Chemistry, 2017, 89, 10667-10672.	6.5	13

#	Article	IF	Citations
19	Multiway analysis through direct excitation-emission matrix imaging. Analytica Chimica Acta, 2018, 1032, 32-39.	5.4	13
20	Exploiting the synergistic effect of concurrent data signals: Low-level fusion of liquid chromatographic with dual detection data. Talanta, 2018, 186, 481-488.	5.5	12
21	Recent advancements of EC-QCL based mid-IR transmission spectroscopy of proteins and application to analysis of bovine milk1. Biomedical Spectroscopy and Imaging, 2018, 7, 35-45.	1.2	11
22	An improved signal-conservative approach to cope with Rayleigh and Raman signals in fluorescence landscapes. Chemometrics and Intelligent Laboratory Systems, 2019, 187, 6-10.	3.5	10
23	On second-order calibration based on multivariate curve resolution in the presence of highly overlapped profiles. Analytica Chimica Acta, 2020, 1096, 53-60.	5.4	10
24	Chromatographic Applications in the Multi-Way Calibration Field. Molecules, 2021, 26, 6357.	3.8	7
25	Chemometric modeling for spatiotemporal characterization and self-depuration monitoring of surface water assessing the pollution sources impact of northern Argentina rivers. Microchemical Journal, 2021, 162, 105841.	4.5	6
26	Second-order electrochemical data generation to quantify carvacrol in oregano essential oils. Food Chemistry, 2022, 368, 130840.	8.2	5
27	High-throughput chemometrically assisted flow-injection method for the simultaneous determination of multi-antiretrovirals in water. Microchemical Journal, 2018, 141, 80-86.	4.5	4
28	Exploring the potential of combining chemometric approaches to model non-linear multi-way data with quantitative purposes â€" A case study. Analytica Chimica Acta, 2021, 1141, 63-70.	5.4	4
29	Quantum chemical computation-based strategy for alternating least squares initialization in multivariate curve resolution analysis of spectral-pH data. Microchemical Journal, 2018, 140, 183-188.	4.5	3
30	Prospective inference of bioprocess cell viability through chemometric modeling of fluorescence multiway data. Biotechnology Progress, 2021, 37, e3173.	2.6	2