

Olivier Devos

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4001712/publications.pdf>

Version: 2024-02-01

32
papers

1,034
citations

471509

17
h-index

414414

32
g-index

34
all docs

34
docs citations

34
times ranked

1376
citing authors

#	ARTICLE	IF	CITATIONS
1	Support vector machines (SVM) in near infrared (NIR) spectroscopy: Focus on parameters optimization and model interpretation. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2009, 96, 27-33.	3.5	211
2	Simultaneous data pre-processing and SVM classification model selection based on a parallel genetic algorithm applied to spectroscopic data of olive oils. <i>Food Chemistry</i> , 2014, 148, 124-130.	8.2	104
3	Genetic algorithm optimisation combined with partial least squares regression and mutual information variable selection procedures in near-infrared quantitative analysis of cotton viscose textiles. <i>Analytica Chimica Acta</i> , 2007, 595, 72-79.	5.4	100
4	In-line and real-time prediction of recombinant antibody titer by in situ Raman spectroscopy. <i>Analytica Chimica Acta</i> , 2015, 892, 148-152.	5.4	58
5	Characterisation of heavy oils using near-infrared spectroscopy: Optimisation of pre-processing methods and variable selection. <i>Analytica Chimica Acta</i> , 2011, 705, 227-234.	5.4	54
6	Sparse deconvolution of high-density super-resolution images. <i>Scientific Reports</i> , 2016, 6, 21413.	3.3	48
7	Parallel genetic algorithm co-optimization of spectral pre-processing and wavelength selection for PLS regression. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2011, 107, 50-58.	3.5	47
8	Multivariate statistical process control (MSPC) using Raman spectroscopy for in-line culture cell monitoring considering time-varying batches synchronized with correlation optimized warping (COW). <i>Analytica Chimica Acta</i> , 2017, 952, 9-17.	5.4	42
9	On the implementation of spatial constraints in multivariate curve resolution alternating least squares for hyperspectral image analysis. <i>Journal of Chemometrics</i> , 2015, 29, 557-561.	1.3	38
10	EXHAUST EMISSIONS OF PAHs OF PASSENGER CARS. <i>Polycyclic Aromatic Compounds</i> , 2006, 26, 69-78.	2.6	37
11	Correction of Inner Filter Effect in Mirror Coating Cells for Trace Level Fluorescence Measurements. <i>Analytical Chemistry</i> , 2003, 75, 2790-2795.	6.5	35
12	New Insights on the Composition and the Structure of the Acellular Extrinsic Fiber Cementum by Raman Analysis. <i>PLoS ONE</i> , 2016, 11, e0167316.	2.5	29
13	Analysis of Argan Oil Adulteration Using Infrared Spectroscopy. <i>Spectroscopy Letters</i> , 2012, 45, 458-463.	1.0	28
14	Use of a Plackett-Burman Design with Multivariate Calibration for the Analysis of Polycyclic Aromatic Hydrocarbons in Micellar Media by Synchronous Fluorescence. <i>Analytical Chemistry</i> , 2002, 74, 678-683.	6.5	22
15	New insights into the photoswitching mechanisms of normal dithienylethenes. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 28091-28100.	2.8	22
16	Gaussian mixture models for the classification of high-dimensional vibrational spectroscopy data. <i>Journal of Chemometrics</i> , 2010, 24, 719-727.	1.3	21
17	Constraining shape smoothness in multivariate curve resolution alternating least squares. <i>Journal of Chemometrics</i> , 2015, 29, 448-456.	1.3	21
18	Mixture models for two-dimensional baseline correction, applied to artifact elimination in time-resolved spectroscopy. <i>Analytica Chimica Acta</i> , 2013, 771, 7-13.	5.4	18

#	ARTICLE	IF	CITATIONS
19	Baseline correction methods to deal with artifacts in femtosecond transient absorption spectroscopy. <i>Analytica Chimica Acta</i> , 2011, 705, 64-71.	5.4	17
20	Comparison of Two-Dimensional Fast Raman Imaging versus Point-by-Point Acquisition Mode for Human Bone Characterization. <i>Analytical Chemistry</i> , 2012, 84, 9116-9123.	6.5	17
21	Multivariate curve resolution "Alternating least squares applied to the investigation of ultrafast competitive photoreactions. <i>Analytica Chimica Acta</i> , 2013, 788, 8-16.	5.4	17
22	Improved superresolution microscopy imaging by sparse deconvolution with an interframe penalty. <i>Journal of Chemometrics</i> , 2017, 31, e2847.	1.3	15
23	Multivariate Curve Resolution Slicing of Multiexponential Time-Resolved Spectroscopy Fluorescence Data. <i>Analytical Chemistry</i> , 2021, 93, 12504-12513.	6.5	9
24	Hierarchical classification and matching of mid-infrared spectra of paint samples for forensic applications. <i>Talanta</i> , 2022, 243, 123360.	5.5	5
25	Photochemical multivariate curve resolution models for the investigation of photochromic systems under continuous irradiation. <i>Analytica Chimica Acta</i> , 2019, 1053, 32-42.	5.4	4
26	Weighted fuzzy clustering for (fuzzy) constraints in multivariate image analysis"alternating least square of hyperspectral images. <i>Journal of Spectral Imaging</i> , 0, , .	0.0	4
27	Visible Light Backscattering Monitored in Situ for Transitional Phase Inversion of BrijL4"Isopropyl Myristate"Water Emulsions. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 20195-20202.	3.7	3
28	Analysis of the ambiguity in the determination of quantum yields from spectral data on a photoinduced isomerization. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2019, 189, 88-95.	3.5	3
29	A Smoothness Constraint in Multivariate Curve Resolution-Alternating Least Squares of Spectroscopy Data. <i>Data Handling in Science and Technology</i> , 2016, 30, 453-476.	3.1	1
30	Multivariate Curve Resolution of (Ultra)Fast Photoinduced Process Spectroscopy Data. <i>Data Handling in Science and Technology</i> , 2016, , 353-379.	3.1	1
31	Multilinear Slicing for curve resolution of fluorescence imaging with sequential illumination. <i>Talanta</i> , 2022, 241, 123231.	5.5	1
32	On-line prediction of antibody titer by Raman spectroscopy and chemometrics. <i>Journal of Biotechnology</i> , 2015, 208, S28.	3.8	0