Michal Daszykowski

List of Publications by Year
in descending order

79 papers	3,399 citations	172457 29 h-index	149698 56 g-index
80 all docs	80 docs citations	80 times ranked	3870 citing authors

#	Article	IF	Citations
1	Robust statistics in data analysis â€" A review. Chemometrics and Intelligent Laboratory Systems, 2007, 85, 203-219.	3.5	263
2	Representative subset selection. Analytica Chimica Acta, 2002, 468, 91-103.	5.4	254
3	Revised DBSCAN algorithm to cluster data with dense adjacent clusters. Chemometrics and Intelligent Laboratory Systems, 2013, 120, 92-96.	3.5	226
4	Looking for natural patterns in data. Chemometrics and Intelligent Laboratory Systems, 2001, 56, 83-92.	3.5	222
5	TOMCAT: A MATLAB toolbox for multivariate calibration techniques. Chemometrics and Intelligent Laboratory Systems, 2007, 85, 269-277.	3.5	170
6	A comparison of three algorithms for chromatograms alignment. Journal of Chromatography A, 2006, 1118, 199-210.	3.7	154
7	Projection methods in chemistry. Chemometrics and Intelligent Laboratory Systems, 2003, 65, 97-112.	3.5	113
8	Dealing with missing values and outliers in principal component analysis. Talanta, 2007, 72, 172-178.	5.5	105
9	Use and abuse of chemometrics in chromatography. TrAC - Trends in Analytical Chemistry, 2006, 25, 1081-1096.	11.4	101
10	Prediction of total green tea antioxidant capacity from chromatograms by multivariate modeling. Journal of Chromatography A, 2005, 1096, 177-186.	3.7	95
11	Looking for Natural Patterns in Analytical Data. 2. Tracing Local Density with OPTICS. Journal of Chemical Information and Computer Sciences, 2002, 42, 500-507.	2.8	88
12	Metabolomics provide new insights on lung cancer staging and discrimination from chronic obstructive pulmonary disease. Journal of Pharmaceutical and Biomedical Analysis, 2014, 100, 369-380.	2.8	85
13	Density-Based Clustering Methods. , 2009, , 635-654.		76
14	Determining orthogonal chromatographic systems prior to the development of methods to characterise impurities in drug substances. Journal of Chromatography A, 2003, 988, 77-93.	3.7	68
15	Peak Alignment of Urine NMR Spectra Using Fuzzy Warping. Journal of Chemical Information and Modeling, 2006, 46, 863-875.	5.4	62
16	Start-to-end processing of two-dimensional gel electrophoretic images. Journal of Chromatography A, 2007, 1158, 306-317.	3.7	60
17	Robust partial least squares model for prediction of green tea antioxidant capacity from chromatograms. Journal of Chromatography A, 2007, 1176, 12-18.	3.7	53
18	Retention Prediction of Peptides Based on Uninformative Variable Elimination by Partial Least Squares. Journal of Proteome Research, 2006, 5, 1618-1625.	3.7	52

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19	Target selection for alignment of chromatographic signals obtained using monochannel detectors. Journal of Chromatography A, 2007, 1176, 1-11.	3.7	51
20	Near-infrared reflectance spectroscopy and multivariate calibration techniques applied to modelling the crude protein, fibre and fat content in rapeseed meal. Analyst, The, 2008, 133, 1523.	3.5	50
21	Multivariate adaptive regression splinesâ€"studies of HIV reverse transcriptase inhibitors. Chemometrics and Intelligent Laboratory Systems, 2004, 72, 27-34.	3.5	45
22	Identification of ground meat species using near-infrared spectroscopy and class modeling techniques â€“ Aspects of optimization and validation using a one-class classification model. Meat Science, 2018, 139, 15-24.	5.5	44
23	Prediction of enantioselectivity using chirality codes and Classification and Regression Trees. Analytica Chimica Acta, 2005, 544, 315-326.	5.4	41
24	Automated alignment of one-dimensional chromatographic fingerprints. Journal of Chromatography A, 2010, 1217, 6127-6133.	3.7	40
25	Classification and Regression TreesStudies of HIV Reverse Transcriptase Inhibitors. Journal of Chemical Information and Computer Sciences, 2004, 44, 716-726.	2.8	37
26	Chemometrics and the identification of counterfeit medicinesâ€"A review. Journal of Pharmaceutical and Biomedical Analysis, 2016, 127, 112-122.	2.8	37
27	Robust SIMCA-bounding influence of outliers. Chemometrics and Intelligent Laboratory Systems, 2007, 87, 95-103.	3.5	35
28	Impurity fingerprints for the identification of counterfeit medicinesâ€"A feasibility study. Analytica Chimica Acta, 2011, 701, 224-231.	5.4	35
29	Clustering in Analytical Chemistry. Journal of AOAC INTERNATIONAL, 2014, 97, 29-38.	1.5	33
30	On the Optimal Partitioning of Data with K-Means, Growing K-Means, Neural Gas, and Growing Neural Gas. Journal of Chemical Information and Computer Sciences, 2002, 42, 1378-1389.	2.8	32
31	Evaluation of chemometric techniques to select orthogonal chromatographic systems. Journal of Pharmaceutical and Biomedical Analysis, 2006, 41, 141-151.	2.8	31
32	Isotopic ratios to detect infringements of patents or proprietary processes of pharmaceuticals: Two case studies. Journal of Pharmaceutical and Biomedical Analysis, 2008, 48, 27-41.	2.8	31
33	The Proteomic Analysis of Primary Cortical Astrocyte Cell Culture after Morphine Administration. Journal of Proteome Research, 2009, 8, 4633-4640.	3.7	28
34	The Monte Carlo validation framework for the discriminant partial least squares model extended with variable selection methods applied to authenticity studies of ViagraÂ® based on chromatographic impurity profiles. Analyst, The, 2016, 141, 1060-1070.	3.5	28
35	A journey into low-dimensional spaces with autoassociative neural networks. Talanta, 2003, 59, 1095-1105.	5.5	27
36	Multivariate discrimination of wines with respect to their grape varieties and vintages. European Food Research and Technology, 2010, 231, 733-743.	3.3	27

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37	From projection pursuit to other unsupervised chemometric techniques. Journal of Chemometrics, 2007, 21, 270-279.	1.3	26
38	Matching 2D gel electrophoresis images with Matlab â€˜Image Processing Toolboxâ€™. Chemometrics and Intelligent Laboratory Systems, 2009, 96, 188-195.	3.5	24
39	Modeling of the total antioxidant capacity of rooibos (Aspalathus linearis) tea infusions from chromatographic fingerprints and identification of potential antioxidant markers. Journal of Chromatography A, 2014, 1366, 101-109.	3.7	21
40	Chromatographic impurity fingerprinting of genuine and counterfeit CialisÂ® as a means to compare the discriminating ability of PDA and MS detection. Talanta, 2016, 146, 540-548.	5.5	21
41	Improving QSAR models for the biological activity of HIV Reverse Transcriptase inhibitors: Aspects of outlier detection and uninformative variable elimination. Talanta, 2005, 68, 54-60.	5.5	19
42	Identifying potential biomarkers in LCâ€MS data. Journal of Chemometrics, 2007, 21, 292-302.	1.3	19
43	Simultaneous determination of Solvent Yellow 124 and Solvent Red 19 in diesel oil using fluorescence spectroscopy and chemometrics. Talanta, 2012, 101, 78-84.	5.5	19
44	Dissimilarity partial least squares applied to non-linear modeling problems. Chemometrics and Intelligent Laboratory Systems, 2012, 110, 156-162.	3.5	19
45	Detection of discoloration in diesel fuel based on gas chromatographic fingerprints. Analytical and Bioanalytical Chemistry, 2015, 407, 1159-1170.	3.7	19
46	No-alignment-strategies for exploring a set of two-way data tables obtained from capillary electrophoresisâ€“mass spectrometry. Journal of Chromatography A, 2008, 1192, 157-165.	3.7	18
47	A methodology to detect outliers/inliers in prediction with PLS. Chemometrics and Intelligent Laboratory Systems, 2003, 68, 17-28.	3.5	17
48	Improvement of recyclable plastic waste detection â€“ A novel strategy for the construction of rigorous classifiers based on the hyperspectral images. Chemometrics and Intelligent Laboratory Systems, 2019, 187, 28-40.	3.5	17
49	Density-based clustering for exploration of analytical data. Analytical and Bioanalytical Chemistry, 2004, 380, 370-372.	3.7	16
50	Recognizing paracetamol formulations with the same synthesis pathway based on their trace-enriched chromatographic impurity profiles. Analytica Chimica Acta, 2009, 655, 43-51.	5.4	16
51	Methods for the exploratory analysis of two-dimensional chromatographic signals. Talanta, 2011, 83, 1088-1097.	5.5	16
52	Improvement of classification using robust soft classification rules for near-infrared reflectance spectral data. Chemometrics and Intelligent Laboratory Systems, 2011, 109, 86-93.	3.5	16
53	Exploring and modelling the responses of electrospray and atmospheric pressure chemical ionization techniques based on molecular descriptors. Analytica Chimica Acta, 2005, 550, 92-106.	5.4	15
54	Chemometrical exploration of an isotopic ratio data set of acetylsalicylic acid. Analytica Chimica Acta, 2005, 552, 1-12.	5.4	14

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55	Automatic preprocessing of electrophoretic images. Chemometrics and Intelligent Laboratory Systems, 2009, 97, 132-140.	3.5	14
56	Identifying the illegal removal from diesel oil of certain chemical markers that designate excise duty. Fuel, 2014, 117, 224-229.	6.4	13
57	Chemometrical exploration of the wet precipitation chemistry from the Austrian Monitoring Network (1988â€“1999). Journal of Environmental Management, 2005, 74, 349-363.	7.8	11
58	Explaining a presence of groups in analytical data in terms of original variables. Chemometrics and Intelligent Laboratory Systems, 2005, 78, 19-29.	3.5	11
59	Testing of complementarity of PDA and MS detectors using chromatographic fingerprinting of genuine and counterfeit samples containing sildenafil citrate. Analytical and Bioanalytical Chemistry, 2016, 408, 1643-1656.	3.7	11
60	Identification of similar and orthogonal chromatographic thin-layer systems for two-dimensional separations of flavonoids and their analogues. Acta Chromatographica, 2008, 20, 283-307.	1.3	10
61	Controlling sugar quality on the basis of fluorescence fingerprints using robust calibration. Chemometrics and Intelligent Laboratory Systems, 2012, 110, 89-96.	3.5	10
62	A rapid validation of the antioxidant capacity of food commodities based on their fluorescence excitation emission spectra as applicable to coffee and peppermint extracts. Chemometrics and Intelligent Laboratory Systems, 2014, 137, 74-81.	3.5	10
63	Prediction of the hydrophilic antioxidant capacity of tomato pastes from the IR and fluorescence excitationâ€“emission spectra of extracts and intact samples. Talanta, 2015, 138, 64-70.	5.5	10
64	Comparative analysis of the chromatographic fingerprints of twenty different sage (SalviaL.) species. Acta Chromatographica, 2009, 21, 513-530.	1.3	8
65	Avoiding spots detection in analysis of electrophoretic gel images. Chemometrics and Intelligent Laboratory Systems, 2010, 104, 2-7.	3.5	7
66	Robust Methods in Analysis of Multivariate Food Chemistry Data. Data Handling in Science and Technology, 2013, , 315-340.	3.1	7
67	Recent trends in the use of liquid fuel taggants and their analysis. TrAC - Trends in Analytical Chemistry, 2017, 87, 98-111.	11.4	7
68	Detecting chemical markers to uncover counterfeit rebated excise duty diesel oil. Talanta, 2019, 204, 229-237.	5.5	6
69	Multi-wavelength imaging of HPTLC plates using a constructed illumination chamber with a smartphone camera as the detector. Talanta, 2021, 221, 121599.	5.5	6
70	Expert system for monitoring the tributyltin content in inland water samples. Chemometrics and Intelligent Laboratory Systems, 2015, 149, 123-131.	3.5	5
71	Studying the stability of Solvent Red 19 and 23 as excise duty components under the influence of controlled factors. Fuel Processing Technology, 2020, 206, 106465.	7.2	5
72	Density-Based Clustering Methods. , 2009, , 565-580.		4

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73	Exploratory Analysis of Metabolomic Data. Comprehensive Analytical Chemistry, 2018, 82, 227-264.	1.3	4
74	Near-infrared hyperspectral imaging for polymer particle size estimation. Measurement: Journal of the International Measurement Confederation, 2021, 186, 110201.	5.0	4
75	Probing an Artificial Polypeptide Receptor Library Using a Series of Novel Histamine H3 Receptor Ligands. Combinatorial Chemistry and High Throughput Screening, 2014, 17, 141-156.	1.1	3
76	Robust Methods in Qsar. Challenges and Advances in Computational Chemistry and Physics, 2010, , 177-208.	0.6	1
77	Assessment of the Kernel Gram Matrix Representation of Data in Order to Avoid the Alignment of Chromatographic Signals. Molecules, 2021, 26, 621.	3.8	0
78	Recenzja. Narracje O ZagÅ‚adzie, 2021, , 53-91.	0.1	0
79	Chemometria w metabolomice i proteomice. , 2010, , .		0