

Oxana Rodionova

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

71
papers

1,713
citations

22
h-index

39
g-index

75
ext. papers

2,064
ext. citations

4.3
avg, IF

5.33
L-index

#	Paper	IF	Citations
71	Trends in Chemometrics: Food Authentication, Microbiology, and Effects of Processing. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2018 , 17, 663-677	16.4	236
70	NIR spectrometry for counterfeit drug detection. <i>Analytica Chimica Acta</i> , 2005 , 549, 151-158	6.6	120
69	Discriminant analysis is an inappropriate method of authentication. <i>TrAC - Trends in Analytical Chemistry</i> , 2016 , 78, 17-22	14.6	108
68	Rigorous and compliant approaches to one-class classification. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2016 , 159, 89-96	3.8	83
67	DD-SIMCA ̄A MATLAB GUI tool for data driven SIMCA approach. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2017 , 167, 23-28	3.8	78
66	Concept and role of extreme objects in PCA/SIMCA. <i>Journal of Chemometrics</i> , 2014 , 28, 429-438	1.6	76
65	Process analytical technology: a critical view of the chemometricians. <i>Journal of Chemometrics</i> , 2012 , 26, 299-310	1.6	75
64	Chemometrics in analytical chemistry-part II: modeling, validation, and applications. <i>Analytical and Bioanalytical Chemistry</i> , 2018 , 410, 6691-6704	4.4	62
63	Chemometrics in analytical chemistry-part I: history, experimental design and data analysis tools. <i>Analytical and Bioanalytical Chemistry</i> , 2017 , 409, 5891-5899	4.4	59
62	Chemometrics: achievements and prospects. <i>Russian Chemical Reviews</i> , 2006 , 75, 271-287	6.8	54
61	NIR-based approach to counterfeit-drug detection. <i>TrAC - Trends in Analytical Chemistry</i> , 2010 , 29, 795-803	4.6	53
60	Authentication of juices from antioxidant and chemical perspectives: A feasibility quality control study using chemometrics. <i>Food Control</i> , 2017 , 73, 796-805	6.2	39
59	Chemometric aided NIR portable instrument for rapid assessment of medicine quality. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016 , 131, 87-93	3.5	36
58	Quality control of packed raw materials in pharmaceutical industry. <i>Analytica Chimica Acta</i> , 2009 , 642, 222-7	6.6	34
57	On the type II error in SIMCA method. <i>Journal of Chemometrics</i> , 2014 , 28, 518-522	1.6	30
56	Using the correct intervals for prediction: A tutorial on tolerance intervals for ordinary least-squares regression. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2007 , 87, 147-154	3.8	30
55	Non-linear regression analysis: new approach to traditional implementations. <i>Journal of Chemometrics</i> , 2000 , 14, 667-692	1.6	29

54	Qualitative and quantitative analysis of counterfeit fluconazole capsules: A non-invasive approach using NIR spectroscopy and chemometrics. <i>Talanta</i> , 2019 , 195, 662-667	6.2	29
53	Quantitative risk assessment in classification of drugs with identical API content. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014 , 98, 186-92	3.5	26
52	Subset selection strategy. <i>Journal of Chemometrics</i> , 2008 , 22, 674-685	1.6	25
51	Hard and soft methods for prediction of antioxidants' activity based on the DSC measurements. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2005 , 79, 73-83	3.8	25
50	Noninvasive detection of counterfeited ampoules of dexamethasone using NIR with confirmation by HPLC-DAD-MS and CE-UV methods. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 397, 1927-35	4.4	24
49	Chemometric tools for food fraud detection: The role of target class in non-targeted analysis. <i>Food Chemistry</i> , 2020 , 317, 126448	8.5	22
48	Kinetic analysis of non-isothermal solid-state reactions: multi-stage modeling without assumptions in the reaction mechanism. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 3606-3615	3.6	18
47	Application of NIR spectroscopy and chemometrics for revealing of the high quality fakes among the medicines. <i>Forensic Chemistry</i> , 2018 , 8, 82-89	2.8	18
46	In-line prediction of drug release profiles for pH-sensitive coated pellets. <i>Analyst, The</i> , 2011 , 136, 4830-85		18
45	Prediction of the aging of polymer materials. <i>Chemometrics and Intelligent Laboratory Systems</i> , 1999 , 47, 175-178	3.8	17
44	Process control and optimization with simple interval calculation method. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2006 , 81, 165-179	3.8	16
43	Estimating the Parameters of the Arrhenius Equation. <i>Kinetics and Catalysis</i> , 2005 , 46, 305-308	1.5	16
42	Multiclass partial least squares discriminant analysis: Taking the right way a critical tutorial. <i>Journal of Chemometrics</i> , 2018 , 32, e3030	1.6	15
41	Application of SIC (simple interval calculation) for object status classification and outlier detection comparison with regression approach. <i>Journal of Chemometrics</i> , 2004 , 18, 402-413	1.6	15
40	Chemometric Authentication of Brazilian Coffees Based on Chemical Profiling. <i>Journal of Food Science</i> , 2019 , 84, 3099-3108	3.4	13
39	PLS-DA a MATLAB GUI tool for hard and soft approaches to partial least squares discriminant analysis. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2020 , 203, 104064	3.8	13
38	Evolutionary design of experiment for accelerated aging tests. <i>Polymer Testing</i> , 2000 , 19, 221-229	4.5	12
37	Path modeling and process control. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2007 , 88, 84-99	3.8	11

36	Procrustes Cross-Validation-A Bridge between Cross-Validation and Independent Validation Sets. <i>Analytical Chemistry</i> , 2020 , 92, 11842-11850	7.8	11
35	The influence of fiber-probe accessories application on the results of near-infrared (NIR) measurements. <i>Applied Spectroscopy</i> , 2013 , 67, 1401-7	3.1	10
34	The method of local linearization in the numerical solution of stiff systems of ordinary differential equations. <i>USSR Computational Mathematics and Mathematical Physics</i> , 1987 , 27, 30-38		10
33	Detection of counterfeit and substandard tablets using non-invasive NIR and chemometrics - A conceptual framework for a big screening system. <i>Talanta</i> , 2019 , 205, 120150	6.2	9
32	Nonlinear multivariate curve resolution alternating least squares (NL-MCR-ALS). <i>Journal of Chemometrics</i> , 2014 , 28, 740-748	1.6	9
31	Popular decision rules in SIMCA: Critical review. <i>Journal of Chemometrics</i> , 2020 , 34, e3250	1.6	8
30	Chemometric view on Comprehensive chemometrics. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2010 , 103, 19-24	3.8	8
29	Prediction of rubber stability by accelerated aging test modeling. <i>Journal of Applied Polymer Science</i> , 2005 , 95, 1275-1284	2.9	8
28	Detection of Outliers in Projection-Based Modeling. <i>Analytical Chemistry</i> , 2020 , 92, 2656-2664	7.8	8
27	Confocal Raman spectroscopy and multivariate data analysis for evaluation of spermatozoa with normal and abnormal morphology. A feasibility study. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2018 , 182, 172-179	3.8	8
26	Spectrophotometric determination of Rare Earth Elements in aqueous nitric acid solutions for process control. <i>Analytica Chimica Acta</i> , 2015 , 869, 59-67	6.6	7
25	Non-linear multivariate curve resolution applied to the spectrophotometric determination of cerium(III) in aqueous nitric acid solutions for process control. <i>Analytical Methods</i> , 2016 , 8, 435-444	3.2	7
24	On One Method of Parameter Estimation in Chemical Kinetics Using Spectra with Unknown Spectral Components. <i>Kinetics and Catalysis</i> , 2004 , 45, 455-466	1.5	7
23	Chemometric non-targeted analysis for detection of soybean meal adulteration by near infrared spectroscopy. <i>Food Control</i> , 2021 , 119, 107459	6.2	7
22	Application of nonlinear PCR for optimization of hybrid binder used in construction materials. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2009 , 97, 46-51	3.8	6
21	Simple view on Simple Interval Calculation (SIC) method. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2009 , 97, 64-74	3.8	6
20	Screening Malaysian edible bird's nests for structural adulterants and geographical origin using Mid-Infrared (MIR) Attenuated Total Reflectance (MIR-ATR) spectroscopy combined with chemometric analysis by Data-Driven (DD) Soft Independent Modelling of Class Analogy (DD-SIMCA). <i>Forensic Chemistry</i> , 2020 , 17, 100197	2.8	6
19	New trends in qualitative analysis: Performance, optimization, and validation of multi-class and soft models. <i>TrAC - Trends in Analytical Chemistry</i> , 2021 , 143, 116372	14.6	6

18	Differentiating Pakistani long-grain rice grown inside and outside the accepted Basmati Himalayan geographical region using a one-class multi-element chemometric model. <i>Food Control</i> , 2021 , 123, 107827	6.2	5
17	Efficient tools for principal component analysis of complex data: a tutorial. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2021 , 213, 104304	3.8	5
16	Aerosol Dry Printing for SERS and Photoluminescence-Active Gold Nanostructures Preparation for Detection of Traces in Dye Mixtures.. <i>Nanomaterials</i> , 2022 , 12,	5.4	4
15	Diffuse Reflectance Spectroscopy of Hidden Objects, Part I: Interpretation of the Reflection-Absorption-Scattering Fractions in Near-Infrared (NIR) Spectra of Polyethylene Films. <i>Applied Spectroscopy</i> , 2017 , 71, 1760-1772	3.1	3
14	Construction of a multivariate calibration by the simple interval calculation method. <i>Journal of Analytical Chemistry</i> , 2006 , 61, 952-966	1.1	3
13	Application of the curve resolution method to the preprocessing spectral data in two-layer systems. <i>Journal of Analytical Chemistry</i> , 2016 , 71, 56-61	1.1	3
12	Conference report: The first "food and drug testing workshop" (FDT-2018), 12-14 December, Genoa, Italy. <i>Food Chemistry</i> , 2019 , 292, 106-107	8.5	2
11	Ecological assessment of landfills with multivariate analysis: A feasibility study. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2007 , 88, 3-10	3.8	2
10	Foreword: Chemometrics in Russia: The first five-year plan fulfilled. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2007 , 88, 1-2	3.8	2
9	A New Approach to Analyze the Initiated Thermal Destruction of Polycarbonate. <i>Russian Journal of Physical Chemistry B</i> , 2020 , 14, 1042-1048	1.2	2
8	Diffuse Reflectance Spectroscopy of Hidden Objects. Part II: Recovery of a Target Spectrum. <i>Applied Spectroscopy</i> , 2017 , 71, 1773-1784	3.1	1
7	Trends in chemometrics and meat products. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019 , 333, 012016	0.3	1
6	Two approaches to kinetic analysis applied to the prediction of antioxidant activity. <i>Kinetics and Catalysis</i> , 2006 , 47, 537-548	1.5	1
5	Symposium report: 5th Russian winter symposium on chemometrics: WSC-5. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2006 , 83, 180-181	3.8	1
4	Procrustes Cross-Validation of short datasets in PCA context. <i>Talanta</i> , 2021 , 226, 122104	6.2	1
3	The 7th winter symposium on chemometrics, Saint Petersburg, Russia, 15-19 February 2010. <i>Journal of Chemometrics</i> , 2011 , 25, 349-351	1.6	
2	Soft Independent Modeling by Class Analogy 2020 , 605-623		
1	Influence of the quality of capsule shell on the non-invasive monitoring of medicines using Terizidone as an example. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021 , 204, 114245	3.5	

