

Oxana Rodionova

List of Publications by Year in descending order

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73
papers

2,520
citations

218381

26
h-index

197535

49
g-index

75
all docs

75
docs citations

75
times ranked

2215
citing authors

#	ARTICLE	IF	CITATIONS
1	Trends in Chemometrics: Food Authentication, Microbiology, and Effects of Processing. Comprehensive Reviews in Food Science and Food Safety, 2018, 17, 663-677.	5.9	317
2	Discriminant analysis is an inappropriate method of authentication. TrAC - Trends in Analytical Chemistry, 2016, 78, 17-22.	5.8	167
3	NIR spectrometry for counterfeit drug detection. Analytica Chimica Acta, 2005, 549, 151-158.	2.6	149
4	DD-SIMCA – A MATLAB GUI tool for data driven SIMCA approach. Chemometrics and Intelligent Laboratory Systems, 2017, 167, 23-28.	1.8	136
5	Rigorous and compliant approaches to one-class classification. Chemometrics and Intelligent Laboratory Systems, 2016, 159, 89-96.	1.8	127
6	Concept and role of extreme objects in PCA/SIMCA. Journal of Chemometrics, 2014, 28, 429-438.	0.7	125
7	Chemometrics in analytical chemistry – part II: modeling, validation, and applications. Analytical and Bioanalytical Chemistry, 2018, 410, 6691-6704.	1.9	102
8	Chemometrics in analytical chemistry – part I: history, experimental design and data analysis tools. Analytical and Bioanalytical Chemistry, 2017, 409, 5891-5899.	1.9	95
9	Process analytical technology: a critical view of the chemometricians. Journal of Chemometrics, 2012, 26, 299-310.	0.7	93
10	Chemometrics: achievements and prospects. Russian Chemical Reviews, 2006, 75, 271-287.	2.5	70
11	NIR-based approach to counterfeit-drug detection. TrAC - Trends in Analytical Chemistry, 2010, 29, 795-803.	5.8	64
12	Multiclass partial least squares discriminant analysis: Taking the right way – A critical tutorial. Journal of Chemometrics, 2018, 32, e3030.	0.7	53
13	Authentication of juices from antioxidant and chemical perspectives: A feasibility quality control study using chemometrics. Food Control, 2017, 73, 796-805.	2.8	46
14	Chemometric aided NIR portable instrument for rapid assessment of medicine quality. Journal of Pharmaceutical and Biomedical Analysis, 2016, 131, 87-93.	1.4	45
15	On the type II error in SIMCA method. Journal of Chemometrics, 2014, 28, 518-522.	0.7	44
16	Using the correct intervals for prediction: A tutorial on tolerance intervals for ordinary least-squares regression. Chemometrics and Intelligent Laboratory Systems, 2007, 87, 147-154.	1.8	42
17	Chemometric tools for food fraud detection: The role of target class in non-targeted analysis. Food Chemistry, 2020, 317, 126448.	4.2	41
18	Qualitative and quantitative analysis of counterfeit fluconazole capsules: A non-invasive approach using NIR spectroscopy and chemometrics. Talanta, 2019, 195, 662-667.	2.9	38

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19	Quality control of packed raw materials in pharmaceutical industry. <i>Analytica Chimica Acta</i> , 2009, 642, 222-227.	2.6	37
20	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.	1.8	37
21	Non-linear regression analysis: new approach to traditional implementations. <i>Journal of Chemometrics</i> , 2000, 14, 667-692.	0.7	35
22	Quantitative risk assessment in classification of drugs with identical API content. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014, 98, 186-192.	1.4	34
23	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.	5.8	33
24	Subset selection strategy. <i>Journal of Chemometrics</i> , 2008, 22, 674-685.	0.7	32
25	Popular decision rules in SIMCA: Critical review. <i>Journal of Chemometrics</i> , 2020, 34, e3250.	0.7	32
26	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.	1.8	28
27	Detection of Outliers in Projection-Based Modeling. <i>Analytical Chemistry</i> , 2020, 92, 2656-2664.	3.2	27
28	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, 1927-1935.	1.9	26
29	Application of NIR spectroscopy and chemometrics for revealing of the “high quality fakes” among the medicines. <i>Forensic Chemistry</i> , 2018, 8, 82-89.	1.7	26
30	Efficient tools for principal component analysis of complex data – a tutorial. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2021, 213, 104304.	1.8	26
31	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.	1.3	23
32	Procrustes Cross-Validation – A Bridge between Cross-Validation and Independent Validation Sets. <i>Analytical Chemistry</i> , 2020, 92, 11842-11850.	3.2	22
33	Chemometric Authentication of Brazilian Coffees Based on Chemical Profiling. <i>Journal of Food Science</i> , 2019, 84, 3099-3108.	1.5	21
34	Prediction of the aging of polymer materials. <i>Chemometrics and Intelligent Laboratory Systems</i> , 1999, 47, 175-178.	1.8	20
35	Estimating the Parameters of the Arrhenius Equation. <i>Kinetics and Catalysis</i> , 2005, 46, 305-308.	0.3	20
36	In-line prediction of drug release profiles for pH-sensitive coated pellets. <i>Analyst, The</i> , 2011, 136, 4830.	1.7	20

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37	Chemometric non-targeted analysis for detection of soybean meal adulteration by near infrared spectroscopy. <i>Food Control</i> , 2021, 119, 107459.	2.8	19
38	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.	2.9	18
39	Process control and optimization with simple interval calculation method. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2006, 81, 165-179.	1.8	17
40	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.	0.7	15
41	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.	2.8	15
42	Evolutionary design of experiment for accelerated aging tests. <i>Polymer Testing</i> , 2000, 19, 221-229.	2.3	14
43	Path modeling and process control. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2007, 88, 84-99.	1.8	14
44	Screening Malaysian edible bird's nests for structural adulterants and geographical origin using Mid-Infrared " Attenuated Total Reflectance (MIR-ATR) spectroscopy combined with chemometric analysis by Data-Driven " Soft Independent Modelling of Class Analogy (DD-SIMCA). <i>Forensic Chemistry</i> , 2020, 17, 100197.	1.7	14
45	Procrustes Cross-Validation of short datasets in PCA context. <i>Talanta</i> , 2021, 226, 122104.	2.9	11
46	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.	0.0	10
47	Prediction of rubber stability by accelerated aging test modeling. <i>Journal of Applied Polymer Science</i> , 2005, 95, 1275-1284.	1.3	10
48	The Influence of Fiber-Probe Accessories Application on the Results of Near-Infrared (NIR) Measurements. <i>Applied Spectroscopy</i> , 2013, 67, 1401-1407.	1.2	10
49	Nonlinear multivariate curve resolution alternating least squares (NL-MCR-ALS). <i>Journal of Chemometrics</i> , 2014, 28, 740-748.	0.7	9
50	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.	1.8	9
51	Aerosol Dry Printing for SERS and Photoluminescence-Active Gold Nanostructures Preparation for Detection of Traces in Dye Mixtures. <i>Nanomaterials</i> , 2022, 12, 448.	1.9	9
52	Chemometric view on "comprehensive chemometrics". <i>Chemometrics and Intelligent Laboratory Systems</i> , 2010, 103, 19-24.	1.8	8
53	Spectrophotometric determination of Rare Earth Elements in aqueous nitric acid solutions for process control. <i>Analytica Chimica Acta</i> , 2015, 869, 59-67.	2.6	8
54	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.	1.3	8

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55	On One Method of Parameter Estimation in Chemical Kinetics Using Spectra with Unknown Spectral Components. <i>Kinetics and Catalysis</i> , 2004, 45, 455-466.	0.3	7
56	Application of nonlinear PCR for optimization of hybrid binder used in construction materials. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2009, 97, 46-51.	1.8	7
57	Simple view on Simple Interval Calculation (SIC) method. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2009, 97, 64-74.	1.8	7
58	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.	1.2	5
59	Construction of a multivariate calibration by the simple interval calculation method. <i>Journal of Analytical Chemistry</i> , 2006, 61, 952-966.	0.4	3
60	Ecological assessment of landfills with multivariate analysis – A feasibility study. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2007, 88, 3-10.	1.8	3
61	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.	0.4	3
62	Diffuse Reflectance Spectroscopy of Hidden Objects. Part II: Recovery of a Target Spectrum. <i>Applied Spectroscopy</i> , 2017, 71, 1773-1784.	1.2	3
63	A New Approach to Analyze the Initiated Thermal Destruction of Polycarbonate. <i>Russian Journal of Physical Chemistry B</i> , 2020, 14, 1042-1048.	0.2	3
64	Foreword – Chemometrics in Russia: The first five-year plan fulfilled. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2007, 88, 1-2.	1.8	2
65	Conference report: The first “food and drug testing workshop” (FDT-2018), 12-14 December, Genoa, Italy. <i>Food Chemistry</i> , 2019, 292, 106-107.	4.2	2
66	Two approaches to kinetic analysis applied to the prediction of antioxidant activity. <i>Kinetics and Catalysis</i> , 2006, 47, 537-548.	0.3	1
67	Symposium report: 5th Russian winter symposium on chemometrics: WSC-5. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2006, 83, 180-181.	1.8	1
68	Multiclass partial least squares discriminant analysis: Taking the right way-A critical tutorial. <i>Journal of Chemometrics</i> , 2018, 32, e3076.	0.7	1
69	Trends in chemometrics and meat products. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 333, 012016.	0.2	1
70	Symposium report: 6th Russian Winter Symposium on Chemometrics (WSC-6). <i>Chemometrics and Intelligent Laboratory Systems</i> , 2009, 96, 98-100.	1.8	0
71	The 7th winter symposium on chemometrics, Saint Petersburg, Russia, 15-19 February 2010. <i>Journal of Chemometrics</i> , 2011, 25, 349-351.	0.7	0
72	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.	1.4	0

#	ARTICLE	IF	CITATIONS
73	Soft Independent Modeling by Class Analogy. , 2020, , 605-623.		0