

Oxana Rodionova

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2464788/publications.pdf>

Version: 2024-02-01

73
papers

2,520
citations

218677

26
h-index

197818

49
g-index

75
all docs

75
docs citations

75
times ranked

2215
citing authors

#	ARTICLE	IF	CITATIONS
1	Aerosol Dry Printing for SERS and Photoluminescence-Active Gold Nanostructures Preparation for Detection of Traces in Dye Mixtures. <i>Nanomaterials</i> , 2022, 12, 448.	4.1	9
2	Chemometric non-targeted analysis for detection of soybean meal adulteration by near infrared spectroscopy. <i>Food Control</i> , 2021, 119, 107459.	5.5	19
3	Procrustes Cross-Validation of short datasets in PCA context. <i>Talanta</i> , 2021, 226, 122104.	5.5	11
4	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.	5.5	15
5	Efficient tools for principal component analysis of complex data” a tutorial. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2021, 213, 104304.	3.5	26
6	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.	2.8	0
7	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.	11.4	33
8	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.	2.8	14
9	Detection of Outliers in Projection-Based Modeling. <i>Analytical Chemistry</i> , 2020, 92, 2656-2664.	6.5	27
10	Procrustes Cross-Validation”A Bridge between Cross-Validation and Independent Validation Sets. <i>Analytical Chemistry</i> , 2020, 92, 11842-11850.	6.5	22
11	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.	3.5	37
12	Popular decision rules in SIMCA: Critical review. <i>Journal of Chemometrics</i> , 2020, 34, e3250.	1.3	32
13	Chemometric tools for food fraud detection: The role of target class in non-targeted analysis. <i>Food Chemistry</i> , 2020, 317, 126448.	8.2	41
14	Soft Independent Modeling by Class Analogy. , 2020, , 605-623.		0
15	A New Approach to Analyze the Initiated Thermal Destruction of Polycarbonate. <i>Russian Journal of Physical Chemistry B</i> , 2020, 14, 1042-1048.	1.3	3
16	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.	5.5	18
17	Trends in chemometrics and meat products. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 333, 012016.	0.3	1
18	Chemometric Authentication of Brazilian Coffees Based on Chemical Profiling. <i>Journal of Food Science</i> , 2019, 84, 3099-3108.	3.1	21

#	ARTICLE	IF	CITATIONS
19	Conference report: The first "food and drug testing workshop"(FDT-2018), 12-14 December, Genoa, Italy. Food Chemistry, 2019, 292, 106-107.	8.2	2
20	Qualitative and quantitative analysis of counterfeit fluconazole capsules: A non-invasive approach using NIR spectroscopy and chemometrics. Talanta, 2019, 195, 662-667.	5.5	38
21	Application of NIR spectroscopy and chemometrics for revealing of the "high quality fakes"™ among the medicines. Forensic Chemistry, 2018, 8, 82-89.	2.8	26
22	Multiclass partial least squares discriminant analysis: Taking the right way"A critical tutorial. Journal of Chemometrics, 2018, 32, e3030.	1.3	53
23	Trends in Chemometrics: Food Authentication, Microbiology, and Effects of Processing. Comprehensive Reviews in Food Science and Food Safety, 2018, 17, 663-677.	11.7	317
24	Confocal Raman spectroscopy and multivariate data analysis for evaluation of spermatozoa with normal and abnormal morphology. A feasibility study. Chemometrics and Intelligent Laboratory Systems, 2018, 182, 172-179.	3.5	9
25	Multiclass partial least squares discriminant analysis: Taking the right way-A critical tutorial. Journal of Chemometrics, 2018, 32, e3076.	1.3	1
26	Chemometrics in analytical chemistry"part II: modeling, validation, and applications. Analytical and Bioanalytical Chemistry, 2018, 410, 6691-6704.	3.7	102
27	DD-SIMCA " A MATLAB GUI tool for data driven SIMCA approach. Chemometrics and Intelligent Laboratory Systems, 2017, 167, 23-28.	3.5	136
28	Diffuse Reflectance Spectroscopy of Hidden Objects, Part I: Interpretation of the Reflection"Absorption-Scattering Fractions in Near-Infrared (NIR) Spectra of Polyethylene Films. Applied Spectroscopy, 2017, 71, 1760-1772.	2.2	5
29	Diffuse Reflectance Spectroscopy of Hidden Objects. Part II: Recovery of a Target Spectrum. Applied Spectroscopy, 2017, 71, 1773-1784.	2.2	3
30	Kinetic analysis of non-isothermal solid-state reactions: multi-stage modeling without assumptions in the reaction mechanism. Physical Chemistry Chemical Physics, 2017, 19, 3606-3615.	2.8	23
31	Chemometrics in analytical chemistry"part I: history, experimental design and data analysis tools. Analytical and Bioanalytical Chemistry, 2017, 409, 5891-5899.	3.7	95
32	Authentication of juices from antioxidant and chemical perspectives: A feasibility quality control study using chemometrics. Food Control, 2017, 73, 796-805.	5.5	46
33	Application of the curve resolution method to the preprocessing spectral data in two-layer systems. Journal of Analytical Chemistry, 2016, 71, 56-61.	0.9	3
34	Chemometric aided NIR portable instrument for rapid assessment of medicine quality. Journal of Pharmaceutical and Biomedical Analysis, 2016, 131, 87-93.	2.8	45
35	Rigorous and compliant approaches to one-class classification. Chemometrics and Intelligent Laboratory Systems, 2016, 159, 89-96.	3.5	127
36	Discriminant analysis is an inappropriate method of authentication. TrAC - Trends in Analytical Chemistry, 2016, 78, 17-22.	11.4	167

#	ARTICLE	IF	CITATIONS
37	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.	2.7	8
38	Spectrophotometric determination of Rare Earth Elements in aqueous nitric acid solutions for process control. <i>Analytica Chimica Acta</i> , 2015, 869, 59-67.	5.4	8
39	Nonlinear multivariate curve resolution alternating least squares (NLMCRALS). <i>Journal of Chemometrics</i> , 2014, 28, 740-748.	1.3	9
40	On the type II error in SIMCA method. <i>Journal of Chemometrics</i> , 2014, 28, 518-522.	1.3	44
41	Quantitative risk assessment in classification of drugs with identical API content. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014, 98, 186-192.	2.8	34
42	Concept and role of extreme objects in PCA/SIMCA. <i>Journal of Chemometrics</i> , 2014, 28, 429-438.	1.3	125
43	The Influence of Fiber-Probe Accessories Application on the Results of Near-Infrared (NIR) Measurements. <i>Applied Spectroscopy</i> , 2013, 67, 1401-1407.	2.2	10
44	Process analytical technology: a critical view of the chemometricians. <i>Journal of Chemometrics</i> , 2012, 26, 299-310.	1.3	93
45	In-line prediction of drug release profiles for pH-sensitive coated pellets. <i>Analyst</i> , 2011, 136, 4830.	3.5	20
46	The 7th winter symposium on chemometrics, Saint Petersburg, Russia, 15-19 February 2010. <i>Journal of Chemometrics</i> , 2011, 25, 349-351.	1.3	0
47	Noninvasive detection of counterfeited ampoules of dexamethasone using NIR with confirmation by HPLC-DAD-MS and CE-LIV methods. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 397, 1927-1935.	3.7	26
48	NIR-based approach to counterfeit-drug detection. <i>TrAC - Trends in Analytical Chemistry</i> , 2010, 29, 795-803.	11.4	64
49	Chemometric view on "comprehensive chemometrics"; <i>Chemometrics and Intelligent Laboratory Systems</i> , 2010, 103, 19-24.	3.5	8
50	Application of nonlinear PCR for optimization of hybrid binder used in construction materials. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2009, 97, 46-51.	3.5	7
51	Symposium report: 6th Russian Winter Symposium on Chemometrics (WSC-6). <i>Chemometrics and Intelligent Laboratory Systems</i> , 2009, 96, 98-100.	3.5	0
52	Simple view on Simple Interval Calculation (SIC) method. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2009, 97, 64-74.	3.5	7
53	Quality control of packed raw materials in pharmaceutical industry. <i>Analytica Chimica Acta</i> , 2009, 642, 222-227.	5.4	37
54	Subset selection strategy. <i>Journal of Chemometrics</i> , 2008, 22, 674-685.	1.3	32

#	ARTICLE	IF	CITATIONS
55	Path modeling and process control. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2007, 88, 84-99.	3.5	14
56	Ecological assessment of landfills with multivariate analysis – A feasibility study. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2007, 88, 3-10.	3.5	3
57	Foreword – Chemometrics in Russia: The first five-year plan fulfilled. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2007, 88, 1-2.	3.5	2
58	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.	3.5	42
59	Chemometrics: achievements and prospects. <i>Russian Chemical Reviews</i> , 2006, 75, 271-287.	6.5	70
60	Two approaches to kinetic analysis applied to the prediction of antioxidant activity. <i>Kinetics and Catalysis</i> , 2006, 47, 537-548.	1.0	1
61	Process control and optimization with simple interval calculation method. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2006, 81, 165-179.	3.5	17
62	Symposium report: 5th Russian winter symposium on chemometrics: WSC-5. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2006, 83, 180-181.	3.5	1
63	Construction of a multivariate calibration by the simple interval calculation method. <i>Journal of Analytical Chemistry</i> , 2006, 61, 952-966.	0.9	3
64	NIR spectrometry for counterfeit drug detection. <i>Analytica Chimica Acta</i> , 2005, 549, 151-158.	5.4	149
65	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.	3.5	28
66	Prediction of rubber stability by accelerated aging test modeling. <i>Journal of Applied Polymer Science</i> , 2005, 95, 1275-1284.	2.6	10
67	Estimating the Parameters of the Arrhenius Equation. <i>Kinetics and Catalysis</i> , 2005, 46, 305-308.	1.0	20
68	On One Method of Parameter Estimation in Chemical Kinetics Using Spectra with Unknown Spectral Components. <i>Kinetics and Catalysis</i> , 2004, 45, 455-466.	1.0	7
69	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.	1.3	15
70	Non-linear regression analysis: new approach to traditional implementations. <i>Journal of Chemometrics</i> , 2000, 14, 667-692.	1.3	35
71	Evolutionary design of experiment for accelerated aging tests. <i>Polymer Testing</i> , 2000, 19, 221-229.	4.8	14
72	Prediction of the aging of polymer materials. <i>Chemometrics and Intelligent Laboratory Systems</i> , 1999, 47, 175-178.	3.5	20

#	ARTICLE	IF	CITATIONS
73	The method of local linearization in the numerical solution of stiff systems of ordinary differential equations. USSR Computational Mathematics and Mathematical Physics, 1987, 27, 30-38.	0.0	10