

Alexey L Pomerantsev

List of Publications by Year in Descending Order

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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.

93
papers

2,116
citations

24
h-index

43
g-index

97
ext. papers

2,592
ext. citations

4.4
avg, IF

5.69
L-index

#	Paper	IF	Citations
93	Analysing the water spectral pattern by near-infrared spectroscopy and chemometrics as a dynamic multidimensional biomarker in preservation: rice germ storage monitoring. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022 , 265, 120396	4.4	2
92	An effective strategy for the monitoring of microplastics in complex aquatic matrices: Exploiting the potential of near infrared hyperspectral imaging (NIR-HSI). <i>Chemosphere</i> , 2022 , 286, 131861	8.4	0
91	Procrustes Cross-Validation of short datasets in PCA context. <i>Talanta</i> , 2021 , 226, 122104	6.2	1
90	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
89	Efficient tools for principal component analysis of complex data: a tutorial. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2021 , 213, 104304	3.8	5
88	Chemometric non-targeted analysis for detection of soybean meal adulteration by near infrared spectroscopy. <i>Food Control</i> , 2021 , 119, 107459	6.2	7
87	An in-depth study of cheese ripening by means of NIR hyperspectral imaging: Spatial mapping of dehydration, proteolysis and lipolysis. <i>Food Chemistry</i> , 2021 , 343, 128547	8.5	6
86	Qualitative pattern recognition in chemistry: Theoretical background and practical guidelines. <i>Microchemical Journal</i> , 2021 , 162, 105725	4.8	14
85	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	
84	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
83	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
82	Popular decision rules in SIMCA: Critical review. <i>Journal of Chemometrics</i> , 2020 , 34, e3250	1.6	8
81	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
80	Univariate and multivariate strategies for the rheological tests evaluation: Influence of additives in composite materials. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 49019	2.9	1
79	Soft Independent Modeling by Class Analogy 2020 , 605-623		
78	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
77	Application of Chemometrics in the Food Sciences 2020 , 99-111		2

76	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	6
75	Detection of Outliers in Projection-Based Modeling. <i>Analytical Chemistry</i> , 2020 , 92, 2656-2664	7.8	8
74	Macroscopic mid-FTIR mapping and clustering-based automated data-reduction: An advanced diagnostic tool for in situ investigations of artworks. <i>Talanta</i> , 2020 , 209, 120575	6.2	2
73	Rapid and direct detection of small microplastics in aquatic samples by a new near infrared hyperspectral imaging (NIR-HSI) method. <i>Chemosphere</i> , 2020 , 260, 127655	8.4	13
72	Analytical Chemistry and Chemometrics Group, Department of Pharmacy, University of Genova: An update. <i>NIR News</i> , 2020 , 31, 30-33	0.8	4
71	Procrustes Cross-Validation-A Bridge between Cross-Validation and Independent Validation Sets. <i>Analytical Chemistry</i> , 2020 , 92, 11842-11850	7.8	11
70	Prediction of quality parameters in straw wine by means of FT-IR spectroscopy combined with multivariate data processing. <i>Food Chemistry</i> , 2020 , 305, 125512	8.5	14
69	A modified mid-level data fusion approach on electronic nose and FT-NIR data for evaluating the effect of different storage conditions on rice germ shelf life. <i>Talanta</i> , 2020 , 206, 120208	6.2	21
68	Chemometric Authentication of Brazilian Coffees Based on Chemical Profiling. <i>Journal of Food Science</i> , 2019 , 84, 3099-3108	3.4	13
67	A laser ablation resonance ionisation mass spectrometer (LA-RIMS) for the detection of isotope ratios of uranium at ultra-trace concentrations from solid particles and solutions. <i>Journal of Analytical Atomic Spectrometry</i> , 2019 , 34, 1630-1638	3.7	4
66	Assessing the Feasibility of a Miniaturized Near-Infrared Spectrometer in Determining Quality Attributes of San Marzano Tomato. <i>Food Analytical Methods</i> , 2019 , 12, 1497-1510	3.4	11
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	8.5	2
64	An innovative multivariate strategy for HSI-NIR images to automatically detect defects in green coffee. <i>Talanta</i> , 2019 , 199, 270-276	6.2	20
63	Fast determination of extra-virgin olive oil acidity by voltammetry and Partial Least Squares regression. <i>Analytica Chimica Acta</i> , 2019 , 1056, 7-15	6.6	10
62	Assessment of the Efficiency of a Nanospherical Gallic Acid Dendrimer for Long-Term Preservation of Essential Oils: An Integrated Chemometric-Assisted FTIR Study. <i>ChemistrySelect</i> , 2019 , 4, 8891-8901	1.8	21
61	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
60	Trends in chemometrics and meat products. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019 , 333, 012016	0.3	1
59	The impact of signal pre-processing on the final interpretation of analytical outcomes - A tutorial. <i>Analytica Chimica Acta</i> , 2019 , 1058, 9-17	6.6	62

58	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
57	Chemical modifications of Tonda Gentile Trilobata hazelnut and derived processing products under different infrared and hot-air roasting conditions: a combined analytical study. <i>Journal of the Science of Food and Agriculture</i> , 2018 , 98, 4561-4569	4.3	3
56	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
55	Multiclass partial least squares discriminant analysis: Taking the right way – a critical tutorial. <i>Journal of Chemometrics</i> , 2018 , 32, e3030	1.6	15
54	E-nose, e-tongue and e-eye for edible olive oil characterization and shelf life assessment: A powerful data fusion approach. <i>Talanta</i> , 2018 , 182, 131-141	6.2	73
53	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
52	Chemometrics in analytical chemistry-part II: modeling, validation, and applications. <i>Analytical and Bioanalytical Chemistry</i> , 2018 , 410, 6691-6704	4.4	62
51	Combining excitation-emission matrix fluorescence spectroscopy, parallel factor analysis, cyclodextrin-modified micellar electrokinetic chromatography and partial least squares class-modelling for green tea characterization. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018 , 159, 311-317	3.5	12
50	Multivariate Classification Techniques 2018 ,		3
49	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
48	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
47	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
46	Diffuse Reflectance Spectroscopy of Hidden Objects. Part II: Recovery of a Target Spectrum. <i>Applied Spectroscopy</i> , 2017 , 71, 1773-1784	3.1	1
45	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
44	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
43	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
42	Rigorous and compliant approaches to one-class classification. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2016 , 159, 89-96	3.8	83
41	Discriminant analysis is an inappropriate method of authentication. <i>TrAC - Trends in Analytical Chemistry</i> , 2016 , 78, 17-22	14.6	108

40	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
39	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
38	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
37	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
36	Nonlinear multivariate curve resolution alternating least squares (NL-MCR-ALS). <i>Journal of Chemometrics</i> , 2014 , 28, 740-748	1.6	9
35	On the type II error in SIMCA method. <i>Journal of Chemometrics</i> , 2014 , 28, 518-522	1.6	30
34	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
33	Concept and role of extreme objects in PCA/SIMCA. <i>Journal of Chemometrics</i> , 2014 , 28, 429-438	1.6	76
32	2014 ,		37
31	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
30	Process analytical technology: a critical view of the chemometricians. <i>Journal of Chemometrics</i> , 2012 , 26, 299-310	1.6	75
29	In-line prediction of drug release profiles for pH-sensitive coated pellets. <i>Analyst, The</i> , 2011 , 136, 4830-85		18
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, 1927-35	4.4	24
27	NIR-based approach to counterfeit-drug detection. <i>TrAC - Trends in Analytical Chemistry</i> , 2010 , 29, 795-803	1.6	53
26	Chemometric view on Comprehensive chemometrics. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2010 , 103, 19-24	3.8	8
25	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
24	Simple view on Simple Interval Calculation (SIC) method. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2009 , 97, 64-74	3.8	6
23	Quality control of packed raw materials in pharmaceutical industry. <i>Analytica Chimica Acta</i> , 2009 , 642, 222-7	6.6	34

22	Subset selection strategy. <i>Journal of Chemometrics</i> , 2008 , 22, 674-685	1.6	25
21	Acceptance areas for multivariate classification derived by projection methods. <i>Journal of Chemometrics</i> , 2008 , 22, 601-609	1.6	72
20	Path modeling and process control. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2007 , 88, 84-99	3.8	11
19	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
18	Chemometrics: achievements and prospects. <i>Russian Chemical Reviews</i> , 2006 , 75, 271-287	6.8	54
17	Two approaches to kinetic analysis applied to the prediction of antioxidant activity. <i>Kinetics and Catalysis</i> , 2006 , 47, 537-548	1.5	1
16	Process control and optimization with simple interval calculation method. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2006 , 81, 165-179	3.8	16
15	Symposium report: 5th Russian winter symposium on chemometrics: WSC-5. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2006 , 83, 180-181	3.8	1
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	NIR spectrometry for counterfeit drug detection. <i>Analytica Chimica Acta</i> , 2005 , 549, 151-158	6.6	120
12	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
11	Prediction of rubber stability by accelerated aging test modeling. <i>Journal of Applied Polymer Science</i> , 2005 , 95, 1275-1284	2.9	8
10	Phenomenological modeling of anomalous diffusion in polymers. <i>Journal of Applied Polymer Science</i> , 2005 , 96, 1102-1114	2.9	13
9	Estimating the Parameters of the Arrhenius Equation. <i>Kinetics and Catalysis</i> , 2005 , 46, 305-308	1.5	16
8	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
7	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
6	Successive Bayesian estimation of reaction rate constants from spectral data. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2003 , 66, 127-139	3.8	10
5	Evolutionary design of experiment for accelerated aging tests. <i>Polymer Testing</i> , 2000 , 19, 221-229	4.5	12

4	Prediction of the aging of polymer materials. <i>Chemometrics and Intelligent Laboratory Systems</i> , 1999 , 47, 175-178	3.8	17
3	Confidence intervals for nonlinear regression extrapolation. <i>Chemometrics and Intelligent Laboratory Systems</i> , 1999 , 49, 41-48	3.8	16
2	Change in the physicomechanical properties of polyethylene on radiation ageing. <i>Polymer Science USSR</i> , 1989 , 31, 1007-1011		
1	Determining the sensitivity of materials to polychromatic light. <i>Journal of Applied Spectroscopy</i> , 1987 , 46, 97-101	0.7	2