Andrey Yu Bogomolov

List of Publications by Year
in descending order

41	690	516215 16	580395 25
papers	citations	h-index	g-index

42	42	42	576
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fiber Probe for Simultaneous Mid-Infrared and Fluorescence Spectroscopic Analysis. Analytical Chemistry, 2021, 93, 6013-6018.	3.2	4
2	Developing Multisensory Approach to the Optical Spectral Analysis. Sensors, 2021, 21, 3541.	2.1	8
3	Calibration Transfer for LED-Based Optical Multisensor Systems. ACS Sensors, 2020, 5, 2587-2595.	4.0	13
4	Designing a Multi-Component Calibration Experiment: Basic Principles and Diagonal Approach. , 2020, , 411-430.		0
5	Two-Way Data Analysis: Detection of Purest Variables. , 2020, , 107-136.		2
6	Synergy Effect of Combined Near and Mid-Infrared Fibre Spectroscopy for Diagnostics of Abdominal Cancer. Sensors, 2020, 20, 6706.	2.1	5
7	Towards an optical multisensor system for dairy: Global calibration for fat analysis in homogenized milk. Microchemical Journal, 2019, 149, 104012.	2.3	8
8	Synergy of Fluorescence and Near-Infrared Spectroscopy in Detection of Colorectal Cancer. Journal of Surgical Research, 2019, 242, 349-356.	0.8	19
9	Accuracy Improvement of In-line Near-Infrared Spectroscopic Moisture Monitoring in a Fluidized Bed Drying Process. Frontiers in Chemistry, 2018, 6, 388.	1.8	14
10	Reference-free spectroscopic determination of fat and protein in milk in the visible and near infrared region below 1000 nm using spatially resolved diffuse reflectance fiber probe. Talanta, 2017, 167, 563-572.	2.9	32
11	Quantitative analysis of total hydrocarbons and water in oilâ€contaminated soils with attenuated total reflection infrared spectroscopy. Journal of Chemometrics, 2017, 31, e2826.	0.7	8
12	Emission band width approximation of light-emitting diodes in the region 350â€“2100 nm. Sensors and Actuators B: Chemical, 2017, 252, 773-776.	4.0	3
13	Tenth Winter Symposium on Chemometrics (WSC10). Journal of Chemometrics, 2017, 31, e2906.	0.7	1
14	Diagonal designs for a multi-component calibration experiment. Analytica Chimica Acta, 2017, 951, 46-57.	2.6	9
15	Development and Testing of an LED-Based Near-Infrared Sensor for Human Kidney Tumor Diagnostics. Sensors, 2017, 17, 1914.	2.1	21
16	Synergy Effect of Combining Fluorescence and Mid Infrared Fiber Spectroscopy for Kidney Tumor Diagnostics. Sensors, 2017, 17, 2548.	2.1	16
17	Spectral Unmixing Using the Concept of Pure Variables. Data Handling in Science and Technology, 2016, , 53-99.	3.1	4
18	Building global models for fat and total protein content in raw milk based on historical spectroscopic data in the visible and short-wave near infrared range. Food Chemistry, 2016, 203, 190-198.	4.2	33

#	Article	IF	Citations
19	LED-based near infrared sensor for cancer diagnostics. , 2016, , .		4
20	Fiber spectroscopy for tumor margin detection â€“ selection of the best methods. , 2016, , .		1
21	Summary of the 2014 IDRC Software Shoot-Out. NIR News, 2015, 26, 8-14.	1.6	4
22	Development and testing of mid-infrared sensors for in-line process monitoring in biotechnology. Sensors and Actuators B: Chemical, 2015, 221, 1601-1610.	4.0	20
23	Morphology assessment of poly(2-hydroxyethyl methacrylate) hydrogels using multivariate analysis of viscoelastic and swelling properties. Polymer, 2015, 58, 222-229.	1.8	5
24	Spectral fiber sensors for cancer diagnosticsin vitro. Proceedings of SPIE, 2015, , .	0.8	5
25	Selecting optimal wavelength intervals for an optical sensor: A case study of milk fat and total protein analysis in the region 400â€“1100nm. Sensors and Actuators B: Chemical, 2015, 218, 97-104.	4.0	31
26	Determination of fat and total protein content in milk using conventional digital imaging. Talanta, 2014, 121, 144-152.	2.9	47
27	Scatter-based quantitative spectroscopic analysis of milk fat and total protein in the region 400â€“1100nm in the presence of fat globule size variability. Chemometrics and Intelligent Laboratory Systems, 2013, 126, 129-139.	1.8	56
28	Fat Globule Size Effect on Visible and Shortwave near Infrared Spectra of Milk. Journal of Near Infrared Spectroscopy, 2013, 21, 435-440.	0.8	28
29	Quantitative determination of fat and total protein in milk based on visible light scatter. Food Chemistry, 2012, 134, 412-418.	4.2	73
30	Oil sludge depository assessment using multivariate data analysis. Journal of Environmental Management, 2012, 105, 144-151.	3.8	8
31	In-line prediction of drug release profiles for pH-sensitive coated pellets. Analyst, The, 2011, 136, 4830.	1.7	20
32	Inâ€line monitoring of Saccharomyces cerevisiae fermentation with a fluorescence probe: new approaches to data collection and analysis. Journal of Chemometrics, 2011, 25, 389-399.	0.7	15
33	Multivariate process trajectories: capture, resolution and analysis. Chemometrics and Intelligent Laboratory Systems, 2011, 108, 49-63.	1.8	43
34	Monitoring of pellet coating process with image analysisâ€”a feasibility study. Journal of Chemometrics, 2010, 24, 472-480.	0.7	21
35	Inâ€line analysis of a fluid bed pellet coating process using a combination of near infrared and Raman spectroscopy. Journal of Chemometrics, 2010, 24, 544-557.	0.7	54
36	Application of SIMPLISMA purity function for variable selection in multivariate regression analysis: A case study of protein secondary structure determination from infrared spectra. Chemometrics and Intelligent Laboratory Systems, 2007, 88, 132-142.	1.8	20

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37	New system for computer-aided infrared and Raman spectrum interpretation. Chemometrics and Intelligent Laboratory Systems, 2007, 88, 107-117.	1.8	7
38	Mutual peak matching in a series of HPLCâ€“DAD mixture analyses. Analytica Chimica Acta, 2003, 490, 41-58.	2.6	21
39	Spectroscopic Study of Some Mesogenic Cyanophenyls in Condensate Films and Inert Matrices. Molecular Crystals and Liquid Crystals, 1999, 332, 355-362.	0.3	1
40	IR spectroscopic study of molecular associates of mesogenic cyanophenyls. Journal of Structural Chemistry, 1998, 39, 318-322.	0.3	4
41	Low Temperature Reactions of Mesogenic Cyanophenyls in Solid Phase and Inert Matrices. Molecular Crystals and Liquid Crystals, 1998, 313, 347-354.	0.3	1