Andrey Yu Bogomolov

List of Publications by Year
in descending order

41 papers	690 citations	516561 16 h-index	580701 25 g-index
42 all docs	42 docs citations	42 times ranked	576 citing authors

#	Article	IF	Citations
1	Quantitative determination of fat and total protein in milk based on visible light scatter. Food Chemistry, 2012, 134, 412-418.	4.2	73
2	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
3	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
4	Determination of fat and total protein content in milk using conventional digital imaging. Talanta, 2014, 121, 144-152.	2.9	47
5	Multivariate process trajectories: capture, resolution and analysis. Chemometrics and Intelligent Laboratory Systems, 2011, 108, 49-63.	1.8	43
6	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
7	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
8	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
9	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
10	Mutual peak matching in a series of HPLCâ€“DAD mixture analyses. Analytica Chimica Acta, 2003, 490, 41-58.	2.6	21
11	Monitoring of pellet coating process with image analysisâ€”a feasibility study. Journal of Chemometrics, 2010, 24, 472-480.	0.7	21
12	Development and Testing of an LED-Based Near-Infrared Sensor for Human Kidney Tumor Diagnostics. Sensors, 2017, 17, 1914.	2.1	21
13	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
14	In-line prediction of drug release profiles for pH-sensitive coated pellets. Analyst, The, 2011, 136, 4830.	1.7	20
15	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
16	Synergy of Fluorescence and Near-Infrared Spectroscopy in Detection of Colorectal Cancer. Journal of Surgical Research, 2019, 242, 349-356.	0.8	19
17	Synergy Effect of Combining Fluorescence and Mid Infrared Fiber Spectroscopy for Kidney Tumor Diagnostics. Sensors, 2017, 17, 2548.	2.1	16
18	Inâ€‘line monitoring of <i>Saccharomyces cerevisiae</i> fermentation with a fluorescence probe: new approaches to data collection and analysis. Journal of Chemometrics, 2011, 25, 389-399.	0.7	15

#	Article	IF	Citations
19	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
20	Calibration Transfer for LED-Based Optical Multisensor Systems. ACS Sensors, 2020, 5, 2587-2595.	4.0	13
21	Diagonal designs for a multi-component calibration experiment. Analytica Chimica Acta, 2017, 951, 46-57.	2.6	9
22	Oil sludge depository assessment using multivariate data analysis. Journal of Environmental Management, 2012, 105, 144-151.	3.8	8
23	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
24	Towards an optical multisensor system for dairy: Global calibration for fat analysis in homogenized milk. Microchemical Journal, 2019, 149, 104012.	2.3	8
25	Developing Multisensory Approach to the Optical Spectral Analysis. Sensors, 2021, 21, 3541.	2.1	8
26	New system for computer-aided infrared and Raman spectrum interpretation. Chemometrics and Intelligent Laboratory Systems, 2007, 88, 107-117.	1.8	7
27	Morphology assessment of poly(2-hydroxyethyl methacrylate) hydrogels using multivariate analysis of viscoelastic and swelling properties. Polymer, 2015, 58, 222-229.	1.8	5
28	Spectral fiber sensors for cancer diagnostics<i>in vitro</i>. Proceedings of SPIE, 2015, , .	0.8	5
29	Synergy Effect of Combined Near and Mid-Infrared Fibre Spectroscopy for Diagnostics of Abdominal Cancer. Sensors, 2020, 20, 6706.	2.1	5
30	IR spectroscopic study of molecular associates of mesogenic cyanophenyls. Journal of Structural Chemistry, 1998, 39, 318-322.	0.3	4
31	Summary of the 2014 IDRC Software Shoot-Out. NIR News, 2015, 26, 8-14.	1.6	4
32	Spectral Unmixing Using the Concept of Pure Variables. Data Handling in Science and Technology, 2016, , 53-99.	3.1	4
33	LED-based near infrared sensor for cancer diagnostics. , 2016, , .		4
34	Fiber Probe for Simultaneous Mid-Infrared and Fluorescence Spectroscopic Analysis. Analytical Chemistry, 2021, 93, 6013-6018.	3.2	4
35	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
36	Two-Way Data Analysis: Detection of Purest Variables. , 2020, , 107-136.		2

#	Article	IF	Citations
37	Low Temperature Reactions of Mesogenic Cyanophenyls in Solid Phase and Inert Matrices. Molecular Crystals and Liquid Crystals, 1998, 313, 347-354.	0.3	1
38	Spectroscopic Study of Some Mesogenic Cyanophenyls in Condensate Films and Inert Matrices. Molecular Crystals and Liquid Crystals, 1999, 332, 355-362.	0.3	1
39	Tenth Winter Symposium on Chemometrics (WSC10). Journal of Chemometrics, 2017, 31, e2906.	0.7	1
40	Fiber spectroscopy for tumor margin detection â€“ selection of the best methods. , 2016, , .		1
41	Designing a Multi-Component Calibration Experiment: Basic Principles and Diagonal Approach. , 2020, , 411-430.		0