Slobodan Å aÅ¡iÄ‡

List of Publications by Year
in descending order

50 papers	1,569 citations	304743 22 h-index	302126 39 g-index
55 all docs	55 docs citations	55 times ranked	1263 citing authors

#	Article	IF	Citations
1	Short-Wave Near-Infrared Spectroscopy of Biological Fluids. 1. Quantitative Analysis of Fat, Protein, and Lactose in Raw Milk by Partial Least-Squares Regression and Band Assignment. Analytical Chemistry, 2001, 73, 64-71.	6.5	195
2	Raman spectra of high-density, low-density, and linear low-density polyethylene pellets and prediction of their physical properties by multivariate data analysis. Journal of Applied Polymer Science, 2002, 86, 443-448.	2.6	119
3	A New Possibility of the Generalized Two-Dimensional Correlation Spectroscopy. 1. Sampleâˆ¼Sample Correlation Spectroscopy. Journal of Physical Chemistry A, 2000, 104, 6380-6387.	2.5	105
4	An In-Depth Analysis of Raman and Near-Infrared Chemical Images of Common Pharmaceutical Tablets. Applied Spectroscopy, 2007, 61, 239-250.	2.2	86
5	Raman Mapping of Low-Content API Pharmaceutical Formulations. I. Mapping of Alprazolam in Alprazolam/Xanax Tablets. Pharmaceutical Research, 2006, 24, 58-65.	3.5	66
6	A New Possibility of the Generalized Two-Dimensional Correlation Spectroscopy. 2. Sampleâˆ¼Sample and Wavenumberâˆ¼Wavenumber Correlations of Temperature-Dependent Near-Infrared Spectra of Oleic Acid in the Pure Liquid State. Journal of Physical Chemistry A, 2000, 104, 6388-6394.	2.5	63
7	A comparison of Raman chemical images produced by univariate and multivariate data processingâ€"a simulation with an example from pharmaceutical practice. Analyst, The, 2004, 129, 1001-1007.	3.5	60
8	Applications of Moving Window Two-Dimensional Correlation Spectroscopy to Analysis of Phase Transitions and Spectra Classification. Analytical Chemistry, 2003, 75, 4010-4018.	6.5	59
9	Defining a Strategy for Chemical Imaging of Industrial Pharmaceutical Samples on Raman Line-Mapping and Global Illumination Instruments. Applied Spectroscopy, 2006, 60, 494-502.	2.2	51
10	New Insight into the Mathematical Background of Generalized Two-Dimensional Correlation Spectroscopy and the Influence of Mean Normalization Pretreatment on Two-Dimensional Correlation Spectra. Applied Spectroscopy, 2001, 55, 343-349.	2.2	50
11	Statistical Two-Dimensional Correlation Spectroscopy:Â Its Theory and Applications to Sets of Vibrational Spectra. Analytical Chemistry, 2001, 73, 2294-2301.	6.5	44
12	Detailed analysis of the online near-infrared spectra of pharmaceutical blend in a rotary tablet press feed frame. Journal of Pharmaceutical and Biomedical Analysis, 2015, 103, 73-79.	2.8	44
13	Detailed analysis of single-molecule surface-enhanced resonance Raman scattering spectra of Rhodamine 6G obtained from isolated nano-aggregates of colloidal silver. Journal of Raman Spectroscopy, 2005, 36, 593-599.	2.5	43
14	Sampleâˆ¼Sample and Wavenumberâˆ¼Wavenumber Two-Dimensional Correlation Analyses of Attenuated Total Reflection Infrared Spectra of Polycondensation Reaction of Bis(Hydroxyethyl terephthalate). Analytical Chemistry, 2001, 73, 5184-5190.	6.5	40
15	Resolution of two-way data from spectroscopic monitoring of reaction or process systems by parallel vector analysis (PVA) and window factor analysis (WFA): inspection of the effect of mass balance, methods and simulations. Journal of Chemometrics, 2003, 17, 186-197.	1.3	38
16	Raman Chemical Mapping of Low-Content Active Pharmaceutical Ingredient Formulations. III. Statistically Optimized Sampling and Detection of Polymorphic Forms in Tablets on Stability. Analytical Chemistry, 2012, 84, 1019-1025.	6.5	34
17	Raman line mapping as a fast method for analyzing pharmaceutical bead formulations. Analyst, The, 2005, 130, 1530.	3.5	33
18	Chemical imaging of pharmaceutical granules by Raman global illumination and near-infrared mapping platforms. Analytica Chimica Acta, 2008, 611, 73-79.	5.4	33

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19	Wavelengthâ€"Wavelength and Sampleâ€"Sample Two-Dimensional Correlation Analyses of Short-Wave Near-Infrared Spectra of Raw Milk. Applied Spectroscopy, 2001, 55, 163-172.	2.2	32
20	Chemical images: Technical approaches and issues. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2006, 69A, 815-824.	1.5	31
21	Comparison of Principal Component Analysis and Generalized Two-Dimensional Correlation Spectroscopy: Spectral Analysis of Synthetic Model System and Near-Infrared Spectra of Milk. Applied Spectroscopy, 2001, 55, 29-38.	2.2	28
22	Near Infrared Spectra of Pellets and Thin Films of High-Density, Low-Density and Linear Low-Density Polyethylenes and Prediction of Their Physical Properties by Multivariate Data Analysis. Journal of Near Infrared Spectroscopy, 2003, 11, 309-321.	1.5	26
23	Analyzing Raman Maps of Pharmaceutical Products by Sampleâ€"Sample Two-Dimensional Correlation. Applied Spectroscopy, 2005, 59, 630-638.	2.2	22
24	Determining API domain sizes in pharmaceutical tablets and blends upon varying milling conditions by near-infrared chemical imaging. Analytical Methods, 2013, 5, 2360.	2.7	22
25	Two-dimensional correlation spectroscopy as a tool for analyzing vibrational images. Vibrational Spectroscopy, 2005, 37, 217-224.	2.2	20
26	Raman Mapping of Low-Content Active-Ingredient Pharmaceutical Formulations. Part II: Statistically Optimized Sampling for Detection of Less Than 1% of an Active Pharmaceutical Ingredient. Applied Spectroscopy, 2008, 62, 916-921.	2.2	20
27	Two-Dimensional Correlation Analysis of Nuclear Magnetic Resonance Metabonomics Data. Applied Spectroscopy, 2008, 62, 840-846.	2.2	19
28	Fourier-Transform Raman Spectroscopic On-Line Monitoring of the Anionic Dispersion Block Copolymerization of Styrene and 1,3-Butadiene. Macromolecular Rapid Communications, 2001, 22, 690-693.	3.9	16
29	Moving Window Two-Dimensional Correlation Spectroscopy and Determination of Signal-To-Noise Threshold in Correlation Spectra. Applied Spectroscopy, 2003, 57, 996-1006.	2.2	16
30	Multivariate Statistical Analysis of Raman Images of a Pharmaceutical Tablet. Applied Spectroscopy, 2012, 66, 272-281.	2.2	15
31	Potentials of variableâ€"variable and sampleâ€"sample, generalized and statistical, two-dimensional correlation spectroscopies in investigations of chemical reactions. Chemometrics and Intelligent Laboratory Systems, 2003, 65, 1-15.	3.5	14
32	Monitoring of API particle size during solid dosage form manufacturing process by chemical imaging and particle sizing. Analytical Methods, 2011, 3, 568.	2.7	12
33	Global illumination Raman chemical imaging of a combination of two drug molecules in a dry powder inhaler formulation. Analytical Methods, 2010, 2, 1528.	2.7	11
34	Classification of single-molecule surface-enhanced resonance Raman spectra of Rhodamine 6G from isolated Ag colloidal particles by principal component analysis. Vibrational Spectroscopy, 2006, 40, 184-191.	2.2	10
35	Raman Chemical Mapping of Magnesium Stearate Delivered by a Punch-Face Lubrication System on the Surface of Placebo and Active Tablets. Applied Spectroscopy, 2013, 67, 1073-1079.	2.2	9
36	Fast Raman chemical imaging of tablets with non-flat surfaces. International Journal of Pharmaceutics, 2019, 565, 143-150.	5.2	9

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37	Internal Multiple-Scattering Hole-Enhanced Raman Spectroscopy: Improved Backscattering Fourier Transform Raman Sampling in Pharmaceutical Tablets Utilizing Cylindricalâ€"Conical Holes. Applied Spectroscopy, 2012, 66, 892-902.	2.2	8
38	Multivariate Calibration of Total Acid Number in Crude Oils via Near-Infrared Spectra. Energy & Fuels, 2020, 34, 6974-6980.	5.1	8
39	Detailed interpretation of the results of two-dimensional correlation analysis of infrared spectra obtained during isothermal crystallization of isotactic polystyrene and poly(3-hydroxybutyrate). Vibrational Spectroscopy, 2007, 44, 50-55.	2.2	7
40	Determining the coating thickness of tablets by chiseling and image analysis. International Journal of Pharmaceutics, 2010, 397, 109-115.	5.2	6
41	Parallel imaging of active pharmaceutical ingredients in some tablets and blends on Raman and near-infrared mapping and imaging platforms. Analytical Methods, 2011, 3, 806.	2.7	5
42	Characterizing the Structure of Pharmaceutical Granules Obtained by Wet Granulation with Varying Amounts of Water via Raman Chemical Imaging. Applied Spectroscopy, 2011, 65, 1291-1299.	2.2	5
43	Multivariate Calibration of Sulfur in Sour Crude Oils via Near-Infrared Spectra. Energy & Fuels, 2021, 35, 6673-6680.	5.1	5
44	Self-modeling curve resolution analysis of on-line vibrational spectra of polymerisation and transesterification. Macromolecular Symposia, 2002, 184, 229-248.	0.7	4
45	Multivariate modeling of diffuse reflectance infrared fourier transform (DRIFT) spectra of mixtures with low-content polymorphic impurities with analysis of outliers. International Journal of Pharmaceutics, 2018, 536, 251-260.	5.2	4
46	Two-dimensional (2D) correlation coefficient analyses of heavily overlapped near-infrared spectra. Analyst, The, 2005, 130, 652-658.	3.5	3
47	Monitoring the dissolution of active pharmaceutical ingredient and TPGS in real time via IR spectroscopy during the manufacturing of liquid dosage formulation. Journal of Pharmaceutical and Biomedical Analysis, 2012, 70, 273-279.	2.8	1
48	Raman chemical imaging of intact non-flat tablets in regular and high-confocal mode. Analytical Methods, 2020, 12, 471-482.	2.7	1
49	Raman Chemical Imaging of Solid Dosage Formulations. , 0, , 163-192.		0
50	DRIFTS-based multivariate calibration and prediction of low-concentration polymorphic impurities in multiple lots of an active pharmaceutical ingredient, and outlier criteria. Journal of Pharmaceutical and Biomedical Analysis, 2018, 148, 265-272.	2.8	0