Yulia B Monakhova

List of Publications by Year
in descending order

94	2,233	201674	265206
papers	citations	27	42
		h-index	g-index

94	94	94	2507
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Multinuclear NMR screening of pharmaceuticals using standardization by 2H integral of a deuterated solvent. Journal of Pharmaceutical and Biomedical Analysis, 2022, 209, 114530.	2.8	4
2	Benchtop versus high field NMR: Comparable performance found for the molecular weight determination of lignin. Journal of Pharmaceutical and Biomedical Analysis, 2022, 212, 114649.	2.8	9
3	Is the Calibration Transfer of Multivariate Calibration Models between High- and Low-Field NMR Instruments Possible? A Case Study of Lignin Molecular Weight. Analytical Chemistry, 2022, 94, 3997-4004.	6.5	8
4	Nuclear magnetic resonance spectroscopy as an elegant tool for a complete quality control of crude heparin material. Journal of Pharmaceutical and Biomedical Analysis, 2022, 219, 114915.	2.8	2
5	Novel approach of qNMR workflow by standardization using 2H integral: Application to any intrinsic calibration standard. Talanta, 2021, 222, 121504.	5.5	7
6	Is infrared spectroscopy combined with multivariate analysis a promising tool for heparin authentication?. Journal of Pharmaceutical and Biomedical Analysis, 2021, 194, 113811.	2.8	2
7	Types of lignin, properties, and structural characterization techniques. , 2021, , 105-158.		3
8	Lignins Isolated via Catalyst-Free Organosolv Pulping from Miscanthus x giganteus, M. sinensis, M. robustus and M. nagara: A Comparative Study. Molecules, 2021, 26, 842.	3.8	2
9	Tracing the origin of paracetamol tablets by near-infrared, mid-infrared, and nuclear magnetic resonance spectroscopy using principal component analysis and linear discriminant analysis. Analytical and Bioanalytical Chemistry, 2021, 413, 3107-3118.	3.7	7
10	A Step Towards Optimization of the qNMR Workflow: Proficiency Testing Exercise at an GxP-Accredited Laboratory. Applied Magnetic Resonance, 2021, 52, 581-593.	1.2	0
11	Simplification of NMR Workflows by Standardization Using 2H Integral of Deuterated Solvent as Applied to Aloe vera Preparations. Applied Magnetic Resonance, 2021, 52, 1591.	1.2	0
12	Is NMR Combined with Multivariate Regression Applicable for the Molecular Weight Determination of Randomly Cross-Linked Polymers Such as Lignin?. ACS Omega, 2021, 6, 29516-29524.	3.5	7
13	Independent components analysis (ICA) at the â€œcocktail-partyâ€•in analytical chemistry. Talanta, 2020, 208, 120451.	5.5	25
14	Quo Vadis qNMR?. Journal of Pharmaceutical and Biomedical Analysis, 2020, 177, 112847.	2.8	29
15	A procedure for calibration transfer of DOSY NMR measurements: An example of molecular weight of heparin preparations. Journal of Chemometrics, 2020, 34, e3210.	1.3	6
16	Extraction of High-Purity Lignins via Catalyst-free Organosolv Pulping from Low-Input Crops. Biomacromolecules, 2020, 21, 1929-1942.	5.4	30
17	Distinguishing paracetamol formulations: Comparison of potentiometric â€œElectronic Tongueâ€•with established analytical techniques. Journal of Pharmaceutical and Biomedical Analysis, 2020, 188, 113457.	2.8	4
18	Comparing chemical composition and lignin structure of <i>Miscanthus x giganteus</i> and <i>Miscanthus nagara</i> harvested in autumn and spring and separated into stems and leaves. RSC Advances, 2020, 10, 10740-10751.	3.6	23

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19	Quality Control of Heparin Injections: Comparison of Four Established Methods. Analytical Sciences, 2020, 36, 1467-1471.	1.6	7
20	Anticoagulant activity of porcine heparin: Structural-property relationship and semi-quantitative estimation by nuclear magnetic resonance (NMR) spectrometry. Journal of Pharmaceutical and Biomedical Analysis, 2019, 174, 639-643.	2.8	11
21	Simultaneous determination of proteins in microstructured optical fibers supported by chemometric tools. Analytical and Bioanalytical Chemistry, 2019, 411, 7055-7059.	3.7	2
22	Low-Input Crops as Lignocellulosic Feedstock for Second-Generation Biorefineries and the Potential of Chemometrics in Biomass Quality Control. Applied Sciences (Switzerland), 2019, 9, 2252.	2.5	20
23	Retrospective multivariate analysis of pharmaceutical preparations using 1H nuclear magnetic resonance (NMR) spectroscopy: Example of 990 heparin samples. Journal of Pharmaceutical and Biomedical Analysis, 2019, 173, 18-23.	2.8	7
24	Miscanthus x giganteus Stem Versus Leaf-Derived Lignins Differing in Monolignol Ratio and Linkage. International Journal of Molecular Sciences, 2019, 20, 1200.	4.1	25
25	Monitoring daily routine performance in quantitative NMR (qNMR) spectroscopy: Is the system suitability test necessary?. Magnetic Resonance in Chemistry, 2019, 57, 110-117.	1.9	3
26	Chemometric Algorithms for the Monitoring of Milk Quality by Potentiometric Titration. Izvestiya of Saratov University New Series Series: Chemistry Biology Ecology, 2019, 19, 387-395.	0.1	0
27	Spectroscopic analysis supported by chemometric tools for quality control of plant- and animal-based matrices. , 2019, , .		0
28	Improving reliability of chemometric models for authentication of species origin of heparin by switching from 1D to 2D NMR experiments. Journal of Pharmaceutical and Biomedical Analysis, 2018, 153, 168-174.	2.8	10
29	Nuclear magnetic resonance spectroscopy as a tool for the quantitative analysis of water and ions in pharmaceuticals: Example of heparin. Journal of Pharmaceutical and Biomedical Analysis, 2018, 154, 332-338.	2.8	10
30	Current role and future perspectives of multivariate (chemometric) methods in NMR spectroscopic analysis of pharmaceutical products. Journal of Pharmaceutical and Biomedical Analysis, 2018, 147, 580-589.	2.8	42
31	Authentication of animal origin of heparin and low molecular weight heparin including ovine, porcine and bovine species using 1D NMR spectroscopy and chemometric tools. Journal of Pharmaceutical and Biomedical Analysis, 2018, 149, 114-119.	2.8	31
32	Novel method for the determination of average molecular weight of natural polymers based on 2D DOSY NMR and chemometrics: Example of heparin. Journal of Pharmaceutical and Biomedical Analysis, 2018, 149, 128-132.	2.8	28
33	Automated multicomponent phospholipid analysis using 31P NMR spectroscopy: example of vegetable lecithin and krill oil. Analytical and Bioanalytical Chemistry, 2018, 410, 7891-7900.	3.7	12
34	31P NMR Method for Phospholipid Analysis in Krill Oil: Proficiency Testing—A Step toward Becoming an Official Method. JAOCS, Journal of the American Oil Chemists' Society, 2018, 95, 1467-1474.	1.9	9
35	Quality Control of Krill Oil by Nuclear Magnetic Resonance (NMR) Spectroscopy: Composition and Detection of Foreign Species. Analytical Letters, 2018, 51, 2551-2562.	1.8	6
36	Facilitating the performance of qNMR analysis using automated quantification and results verification. Magnetic Resonance in Chemistry, 2017, 55, 813-820.	1.9	9

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37	Practical guide for selection of ^{1}H qNMR acquisition and processing parameters confirmed by automated spectra evaluation. Magnetic Resonance in Chemistry, 2017, 55, 996-1005.	1.9	23
38	Multicomponent quantitative spectroscopic analysis without reference substances based on ICA modelling. Analytical and Bioanalytical Chemistry, 2017, 409, 3319-3327.	3.7	8
39	Rapid NMR determination of inorganic cations in food matrices: Application to mineral water. Food Chemistry, 2017, 221, 1828-1833.	8.2	11
40	Automated Multicomponent Analysis of Soft Drinks Using 1D 1H and 2D 1H-1H J-resolved NMR Spectroscopy. Food Analytical Methods, 2017, 10, 827-836.	2.6	30
41	Blood species discrimination using proton nuclear magnetic resonance spectroscopy. International Journal of Legal Medicine, 2017, 131, 723-729.	2.2	7
42	Improved classification of fused data: Synergetic effect of partial least squares discriminant analysis (PLS-DA) and common components and specific weights analysis (CCSWA) combination as applied to tomato profiles (NMR, IR and IRMS). Chemometrics and Intelligent Laboratory Systems, 2016, 156, 1-6.	3.5	27
43	Rapid ^{1}H NMR determination of hydrogen peroxide in cosmetic products and chemical reagents. Analytical Methods, 2016, 8, 4632-4639.	2.7	16
44	Automated Control of the Organic and Inorganic Composition of Aloe vera Extracts Using 1H NMR Spectroscopy. Journal of AOAC INTERNATIONAL, 2016, 99, 1213-1218.	1.5	14
45	1H NMR as a release methodology for the analysis of phospholipids and other constituents in infant nutrition. Analytical Methods, 2016, 8, 7493-7499.	2.7	4
46	Authentication of the origin of sucrose-based sugar products using quantitative natural abundance ^{13}C NMR. Journal of the Science of Food and Agriculture, 2016, 96, 2861-2866.	3.5	10
47	Application of MATLAB package for the automation of the chemometric processing of spectrometric signals in the analysis of complex mixtures. Journal of Analytical Chemistry, 2016, 71, 759-767.	0.9	4
48	Transfer of multivariate regression models between high-resolution NMR instruments: application to authenticity control of sunflower lecithin. Magnetic Resonance in Chemistry, 2016, 54, 712-717.	1.9	15
49	Fingerprinting Krill Oil by ^{31}P, ^{1}H and ^{13}C NMR Spectroscopies. JAOCS, Journal of the American Oil Chemists' Society, 2016, 93, 1037-1049.	1.9	35
50	Chemometric analysis of luminescent quantum dots systems: Long way to go but first steps taken. TrAC - Trends in Analytical Chemistry, 2016, 82, 164-174.	11.4	16
51	FTIR spectroscopy supported by statistical techniques for the structural characterization of plastic debris in the marine environment: Application to monitoring studies. Marine Pollution Bulletin, 2016, 106, 155-161.	5.0	114
52	Quantitative Analysis of Sunflower Lecithin Adulteration with Soy Species by NMR Spectroscopy and PLS Regression. JAOCS, Journal of the American Oil Chemists' Society, 2016, 93, 27-36.	1.9	14
53	Standardless multicomponent qNMR analysis of compounds with overlapped resonances based on the combination of ICA and PULCON. Magnetic Resonance in Chemistry, 2015, 53, 821-828.	1.9	14
54	Combined chemometric analysis of 1H NMR, 13C NMR and stable isotope data to differentiate organic and conventional milk. Food Chemistry, 2015, 188, 1-7.	8.2	68

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55	Rapid approach to identify the presence of Arabica and Robusta species in coffee using 1H NMR spectroscopy. Food Chemistry, 2015, 182, 178-184.	8.2	101
56	Multicomponent Analysis of Fat- and Water-Soluble Vitamins and Auxiliary Substances in Multivitamin Preparations by qNMR. Journal of Agricultural and Food Chemistry, 2015, 63, 3135-3143.	5.2	19
57	Independent components analysis to increase efficiency of discriminant analysis methods (FDA and) Tj ETQq1 1 0.784314 rgBT /Over	5.5	33
58	Differentiation of Organically and Conventionally Grown Tomatoes by Chemometric Analysis of Combined Data from Proton Nuclear Magnetic Resonance and Mid-infrared Spectroscopy and Stable Isotope Analysis. Journal of Agricultural and Food Chemistry, 2015, 63, 9666-9675.	5.2	42
59	Combining 1H NMR spectroscopy and multivariate regression techniques to quantitatively determine falsification of porcine heparin with bovine species. Journal of Pharmaceutical and Biomedical Analysis, 2015, 115, 543-551.	2.8	25
60	Independent component analysis and multivariate curve resolution to improve spectral interpretation of complex spectroscopic data sets: Application to infrared spectra of marine organic matter aggregates. Microchemical Journal, 2015, 118, 211-222.	4.5	11
61	The Intramolecular Diels-Alder Reaction of Diarylheptanoids â€" Quantum Chemical Calculation of Structural Features Favoring the Formation of Phenylphenalenones. Molecules, 2014, 19, 5231-5242.	3.8	5
62	Investigation into the structural composition of hydroalcoholic solutions as basis for the development of multiple suppression pulse sequences for NMR measurement of alcoholic beverages. Magnetic Resonance in Chemistry, 2014, 52, 755-759.	1.9	4
63	Determination of the purity of pharmaceutical reference materials by 1 H NMR using the standardless PULCON methodology. Journal of Pharmaceutical and Biomedical Analysis, 2014, 100, 381-386.	2.8	47
64	Electronic cigarettes: overview of chemical composition and exposure estimation. Tobacco Induced Diseases, 2014, 12, 23.	0.6	112
65	Composition of distilled Perique tobacco liqueur: A connoisseurâ€™s spirit or a health risk due to nicotine?. Food Chemistry, 2014, 159, 230-235.	8.2	6
66	Validation studies for multicomponent quantitative NMR analysis: the example of apple fruit juice. Accreditation and Quality Assurance, 2014, 19, 17-29.	0.8	41
67	Independent component analysis (ICA) algorithms for improved spectral deconvolution of overlapped signals in ^{1}H NMR analysis: application to foods and related products. Magnetic Resonance in Chemistry, 2014, 52, 231-240.	1.9	41
68	Determination of rice type by ^{1}H NMR spectroscopy in combination with different chemometric tools. Journal of Chemometrics, 2014, 28, 83-92.	1.3	46
69	NMR investigation of acrolein stability in hydroalcoholic solution as a foundation for the valid HS-SPME/GCâ€"MS quantification of the unsaturated aldehyde in beverages. Analytica Chimica Acta, 2014, 820, 112-118.	5.4	37
70	Synergistic effect of the simultaneous chemometric analysis of 1H NMR spectroscopic and stable isotope (SNIF-NMR, 18O, 13C) data: Application to wine analysis. Analytica Chimica Acta, 2014, 833, 29-39.	5.4	81
71	Association/Hydrogen Bonding of Acetone in Polar and Non-polar Solvents: NMR and NIR Spectroscopic Investigations with Chemometrics. Journal of Solution Chemistry, 2014, 43, 1963-1980.	1.2	17
72	Rapid assessment of the illegal presence of 1,3â€‘dimethylamylamine (DMAA) in sports nutrition and dietary supplements using ^{1}H NMR spectroscopy. Drug Testing and Analysis, 2014, 6, 944-948.	2.6	12

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73	Influence of unrecorded alcohol consumption on liver cirrhosis mortality. World Journal of Gastroenterology, 2014, 20, 7217.	3.3	34
74	Standardless ^{1}H NMR determination of pharmacologically active substances in dietary supplements and medicines that have been illegally traded over the Internet. Drug Testing and Analysis, 2013, 5, 400-411.	2.6	32
75	Rapid Determination of Coenzyme Q10 in Food Supplements Using ^{1}H NMR Spectroscopy. International Journal for Vitamin and Nutrition Research, 2013, 83, 67-72.	1.5	12
76	Formaldehyde in hair straightening products: Rapid ^{1}H NMR determination and risk assessment. International Journal of Cosmetic Science, 2013, 35, 201-206.	2.6	29
77	Independent component analysis algorithms for spectral decomposition in UV/VIS analysis of metal-containing mixtures including multimineral food supplements and platinum concentrates. Analytical Methods, 2013, 5, 2761.	2.7	11
78	What happens if people start drinking mouthwash as surrogate alcohol? A quantitative risk assessment. Food and Chemical Toxicology, 2013, 51, 173-178.	3.6	19
79	Qualitative and Quantitative Control of Honeys Using NMR Spectroscopy and Chemometrics. , 2013, 2013, 1-9.		61
80	Application of multivariate methods in the monitoring of marine environment: simultaneous determination of bromide, bicarbonate, nitrate and sulphide in seawater by ultraviolet spectroscopy. International Journal of Environment and Health, 2013, 6, 235.	0.3	5
81	Identification of Imitation Cheese and Imitation Ice Cream Based on Vegetable Fat Using NMR Spectroscopy and Chemometrics. International Journal of Food Science, 2013, 2013, 1-9.	2.0	14
82	Occurrence of carcinogenic aldehydes in alcoholic beverages from Asia. The International Journal of Alcohol and Drug Research, 2013, 2, 31-36.	0.9	9
83	The Margin of Exposure to Formaldehyde in Alcoholic Beverages. Arhiv Za Higijenu Rada I Toksikologiju, 2012, 63, 227-237.	0.7	23
84	Rapid Quantification of Ethyl Carbamate in Spirits Using NMR Spectroscopy and Chemometrics. , 2012, 2012, 1-5.		12
85	Qualitative and Quantitative Control of Carbonated Cola Beverages Using ^{1}H NMR Spectroscopy. Journal of Agricultural and Food Chemistry, 2012, 60, 2778-2784.	5.2	61
86	Nontargeted NMR Analysis To Rapidly Detect Hazardous Substances in Alcoholic Beverages. Applied Magnetic Resonance, 2012, 42, 343-352.	1.2	45
87	NMR spectroscopy as a screening tool to validate nutrition labeling of milk, lactose-free milk, and milk substitutes based on soy and grains. Dairy Science and Technology, 2012, 92, 109-120.	2.2	40
88	The Margin of Exposure of 5-Hydroxymethylfurfural (HMF) in Alcoholic Beverages. Environmental Health and Toxicology, 2012, 27, e2012016.	1.8	22
89	Nuclear Magnetic Resonance Spectroscopy and Chemometrics to Identify Pine Nuts That Cause Taste Disturbance. Journal of Agricultural and Food Chemistry, 2011, 59, 6877-6881.	5.2	41
90	Unrecorded alcohol consumption in Russia: toxic denaturants and disinfectants pose additional risks. Interdisciplinary Toxicology, 2011, 4, 198-205.	1.0	56

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91	Application of automated eightfold suppression of water and ethanol signals in ^{1}H NMR to provide sensitivity for analyzing alcoholic beverages. Magnetic Resonance in Chemistry, 2011, 49, 734-739.	1.9	80
92	Rapid Determination of Total Thujone in Absinthe Using ^{1}H NMR Spectroscopy. International Journal of Spectroscopy, 2011, 2011, 1-5.	1.6	16
93	Determination of Diethyl Phthalate and Polyhexamethylene Guanidine in Surrogate Alcohol from Russia. International Journal of Analytical Chemistry, 2011, 2011, 1-7.	1.0	31
94	Independent components in spectroscopic analysis of complex mixtures. Chemometrics and Intelligent Laboratory Systems, 2010, 103, 108-115.	3.5	70