Yulia B Monakhova

List of Publications by Citations

90 papers	1,729 citations	24 h-index	37 g-index
94 ext. papers	1,983 ext. citations	3.6 avg, IF	5.2 L-index

#	Paper	IF	Citations
90	Electronic cigarettes: overview of chemical composition and exposure estimation. *Tobacco Induced Diseases*, **2014**, 12, 23	3.2	87
89	Rapid approach to identify the presence of Arabica and Robusta species in coffee using 1H NMR spectroscopy. *Food Chemistry*, **2015**, 182, 178-84	8.5	78
88	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, 155-61	6.7	75
87	Application of automated eightfold suppression of water and ethanol signals in 1H NMR to provide sensitivity for analyzing alcoholic beverages. *Magnetic Resonance in Chemistry*, **2011**, 49, 734-9	2.1	73
86	Synergistic effect of the simultaneous chemometric analysis of ^{1}H NMR spectroscopic and stable isotope (SNIF-NMR, ^{2}D, ^{13}C) data: application to wine analysis. *Analytica Chimica Acta*, **2014**, 833, 29-39	6.6	69
85	Independent components in spectroscopic analysis of complex mixtures. *Chemometrics and Intelligent Laboratory Systems*, **2010**, 103, 108-115	3.8	64
84	Combined chemometric analysis of (1)H NMR, (13)C NMR and stable isotope data to differentiate organic and conventional milk. *Food Chemistry*, **2015**, 188, 1-7	8.5	55
83	Qualitative and quantitative control of carbonated cola beverages using ^{1}H NMR spectroscopy. *Journal of Agricultural and Food Chemistry*, **2012**, 60, 2778-84	5.7	52
82	Unrecorded alcohol consumption in Russia: toxic denaturants and disinfectants pose additional risks. *Interdisciplinary Toxicology*, **2011**, 4, 198-205	2.3	48
81	Determination of the purity of pharmaceutical reference materials by 1H NMR using the standardless PULCON methodology. *Journal of Pharmaceutical and Biomedical Analysis*, **2014**, 100, 381-386	3.5	41
80	Determination of rice type by 1H NMR spectroscopy in combination with different chemometric tools. *Journal of Chemometrics*, **2014**, 28, 83-92	1.6	40
79	Qualitative and Quantitative Control of Honeys Using NMR Spectroscopy and Chemometrics **2013**, 2013, 1-9		40
78	Independent component analysis (ICA) algorithms for improved spectral deconvolution of overlapped signals in 1H NMR analysis: application to foods and related products. *Magnetic Resonance in Chemistry*, **2014**, 52, 231-40	2.1	38
77	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		37
76	Nontargeted NMR Analysis To Rapidly Detect Hazardous Substances in Alcoholic Beverages. *Applied Magnetic Resonance*, **2012**, 42, 343-352	0.8	37
75	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, 9666-75	5.7	36
74	Nuclear magnetic resonance spectroscopy and chemometrics to identify pine nuts that cause taste disturbance. *Journal of Agricultural and Food Chemistry*, **2011**, 59, 6877-81	5.7	36

73	Validation studies for multicomponent quantitative NMR analysis: the example of apple fruit juice. *Accreditation and Quality Assurance*, **2014**, 19, 17-29	0.7	34
72	Fingerprinting Krill Oil by 31P, 1H and 13C NMR Spectroscopies. *JAOCS, Journal of the American Oil ChemistskSociety*, **2016**, 93, 1037-1049	1.8	31
71	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	3.5	30
70	Independent components analysis to increase efficiency of discriminant analysis methods (FDA and LDA): Application to NMR fingerprinting of wine. *Talanta*, **2015**, 141, 60-5	6.2	27
69	NMR investigation of acrolein stability in hydroalcoholic solution as a foundation for the valid HS-SPME/GC-MS quantification of the unsaturated aldehyde in beverages. *Analytica Chimica Acta*, **2014**, 820, 112-8	6.6	26
68	Determination of diethyl phthalate and polyhexamethylene guanidine in surrogate alcohol from Russia. *International Journal of Analytical Chemistry*, **2011**, 2011, 704795	1.4	25
67	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, 543-51	3.5	24
66	Standardless 1H 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, 400-11	3.5	24
65	Formaldehyde in hair straightening products: rapid 1H NMR determination and risk assessment. *International Journal of Cosmetic Science*, **2013**, 35, 201-6	2.7	24
64	Automated Multicomponent Analysis of Soft Drinks Using 1D 1H and 2D 1H-1H J-resolved NMR Spectroscopy. *Food Analytical Methods*, **2017**, 10, 827-836	3.4	24
63	Influence of unrecorded alcohol consumption on liver cirrhosis mortality. *World Journal of Gastroenterology*, **2014**, 20, 7217-22	5.6	24
62	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	3.5	23
61	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	3.8	22
60	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	3.5	22
59	The margin of exposure to formaldehyde in alcoholic beverages. *Arhiv Za Higijenu Rada I Toksikologiju*, **2012**, 63, 227-37	1.7	20
58	Quo Vadis qNMR?. *Journal of Pharmaceutical and Biomedical Analysis*, **2020**, 177, 112847	3.5	20
57	x Stem Versus Leaf-Derived Lignins Differing in Monolignol Ratio and Linkage. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	19
56	The Margin of Exposure of 5-Hydroxymethylfurfural (HMF) in Alcoholic Beverages. *Environmental Health and Toxicology*, **2012**, 27, e2012016	0.7	19

55	Practical guide for selection of H qNMR acquisition and processing parameters confirmed by automated spectra evaluation. *Magnetic Resonance in Chemistry*, **2017**, 55, 996-1005	2.1	17
54	Extraction of High-Purity Lignins via Catalyst-free Organosolv Pulping from Low-Input Crops. *Biomacromolecules*, **2020**, 21, 1929-1942	6.9	17
53	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	2.6	16
52	What happens if people start drinking mouthwash as surrogate alcohol? A quantitative risk assessment. *Food and Chemical Toxicology*, **2013**, 51, 173-8	4.7	15
51	Multicomponent analysis of fat- and water-soluble vitamins and auxiliary substances in multivitamin preparations by qNMR. *Journal of Agricultural and Food Chemistry*, **2015**, 63, 3135-43	5.7	13
50	Comparing chemical composition and lignin structure of and harvested in autumn and spring and separated into stems and leaves.. *RSC Advances*, **2020**, 10, 10740-10751	3.7	13
49	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	2.1	13
48	Chemometric analysis of luminescent quantum dots systems: Long way to go but first steps taken. *TrAC - Trends in Analytical Chemistry*, **2016**, 82, 164-174	14.6	13
47	Quantitative Analysis of Sunflower Lecithin Adulteration with Soy Species by NMR Spectroscopy and PLS Regression. *JAOCS, Journal of the American Oil ChemistskSociety*, **2016**, 93, 27-36	1.8	13
46	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	1.8	12
45	Standardless multicomponent qNMR analysis of compounds with overlapped resonances based on the combination of ICA and PULCON. *Magnetic Resonance in Chemistry*, **2015**, 53, 821-8	2.1	12
44	Rapid Determination of Total Thujone in Absinthe Using 1H NMR Spectroscopy. *International Journal of Spectroscopy*, **2011**, 2011, 1-5		12
43	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	4.8	11
42	Rapid determination of coenzyme Q10 in food supplements using 1H NMR spectroscopy. *International Journal for Vitamin and Nutrition Research*, **2013**, 83, 67-72	1.7	11
41	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	3.2	11
40	Identification of Imitation Cheese and Imitation Ice Cream Based on Vegetable Fat Using NMR Spectroscopy and Chemometrics. *International Journal of Food Science*, **2013**, 2013, 367841	3.4	10
39	Independent components analysis (ICA) at the "cocktail-party" in analytical chemistry. *Talanta*, **2020**, 208, 120451	6.2	10
38	Rapid assessment of the illegal presence of 1,3-dimethylamylamine (DMAA) in sports nutrition and dietary supplements using 1H NMR spectroscopy. *Drug Testing and Analysis*, **2014**, 6, 944-8	3.5	9

37	Rapid NMR determination of inorganic cations in food matrices: Application to mineral water. *Food Chemistry*, **2017**, 221, 1828-1833	8.5	9
36	Rapid Quantification of Ethyl Carbamate in Spirits Using NMR Spectroscopy and Chemometrics **2012**, 2012, 1-5		9
35	Rapid 1H NMR determination of hydrogen peroxide in cosmetic products and chemical reagents. *Analytical Methods*, **2016**, 8, 4632-4639	3.2	9
34	Automated Control of the Organic and Inorganic Composition of Aloe vera Extracts Using (1)H NMR Spectroscopy. *Journal of AOAC INTERNATIONAL*, **2016**, 99, 1213-8	1.7	9
33	Facilitating the performance of qNMR analysis using automated quantification and results verification. *Magnetic Resonance in Chemistry*, **2017**, 55, 813-820	2.1	8
32	Occurrence of carcinogenic aldehydes in alcoholic beverages from Asia. *The International Journal of Alcohol and Drug Research*, **2013**, 2, 31-36	1.5	8
31	31P NMR Method for Phospholipid Analysis in Krill Oil: Proficiency Testing A Step toward Becoming an Official Method. *JAOCS, Journal of the American Oil Chemistsk Society*, **2018**, 95, 1467-1474	1.8	8
30	Multicomponent quantitative spectroscopic analysis without reference substances based on ICA modelling. *Analytical and Bioanalytical Chemistry*, **2017**, 409, 3319-3327	4.4	7
29	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	3.5	7
28	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	3.5	7
27	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, 2861-6	4.3	7
26	Automated multicomponent phospholipid analysis using P NMR spectroscopy: example of vegetable lecithin and krill oil. *Analytical and Bioanalytical Chemistry*, **2018**, 410, 7891-7900	4.4	7
25	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	3.5	6
24	Composition of distilled Perique tobacco liqueur: a connoisseur's spirit or a health risk due to nicotine?. *Food Chemistry*, **2014**, 159, 230-5	8.5	5
23	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	1.3	5
22	Novel approach of qNMR workflow by standardization using 2H integral: Application to any intrinsic calibration standard. *Talanta*, **2021**, 222, 121504	6.2	5
21	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	1.1	4
20	1H NMR as a release methodology for the analysis of phospholipids and other constituents in infant nutrition. *Analytical Methods*, **2016**, 8, 7493-7499	3.2	4

19	Retrospective multivariate analysis of pharmaceutical preparations using H nuclear magnetic resonance (NMR) spectroscopy: Example of 990 heparin samples. *Journal of Pharmaceutical and Biomedical Analysis*, **2019**, 173, 18-23	3.5	3
18	Quality Control of Krill Oil by Nuclear Magnetic Resonance (NMR) Spectroscopy: Composition and Detection of Foreign Species. *Analytical Letters*, **2018**, 51, 2551-2562	2.2	3
17	Blood species discrimination using proton nuclear magnetic resonance spectroscopy. *International Journal of Legal Medicine*, **2017**, 131, 723-729	3.1	3
16	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, 755-9	2.1	3
15	Quality Control of Heparin Injections: Comparison of Four Established Methods. *Analytical Sciences*, **2020**, 36, 1467-1472	1.7	3
14	A procedure for calibration transfer of DOSY NMR measurements: An example of molecular weight of heparin preparations. *Journal of Chemometrics*, **2020**, 34, e3210	1.6	3
13	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	4.4	3
12	Monitoring daily routine performance in quantitative NMR (qNMR) spectroscopy: Is the system suitability test necessary?. *Magnetic Resonance in Chemistry*, **2018**, 57, 110	2.1	3
11	Simultaneous determination of proteins in microstructured optical fibers supported by chemometric tools. *Analytical and Bioanalytical Chemistry*, **2019**, 411, 7055-7059	4.4	2
10	The intramolecular Diels-Alder reaction of diarylheptanoids--quantum chemical calculation of structural features favoring the formation of phenylphenalenones. *Molecules*, **2014**, 19, 5231-42	4.8	2
9	Lignins Isolated via Catalyst-Free Organosolv Pulping from , , and : A Comparative Study. *Molecules*, **2021**, 26,	4.8	2
8	Distinguishing paracetamol formulations: Comparison of potentiometric "Electronic Tongue" with established analytical techniques. *Journal of Pharmaceutical and Biomedical Analysis*, **2020**, 188, 113457	3.5	1
7	Benchtop versus high field NMR: Comparable performance found for the molecular weight determination of lignin.. *Journal of Pharmaceutical and Biomedical Analysis*, **2022**, 212, 114649	3.5	1
6	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	3.9	1
5	Multinuclear NMR screening of pharmaceuticals using standardization by H integral of a deuterated solvent.. *Journal of Pharmaceutical and Biomedical Analysis*, **2021**, 209, 114530	3.5	0
4	Is infrared spectroscopy combined with multivariate analysis a promising tool for heparin authentication?. *Journal of Pharmaceutical and Biomedical Analysis*, **2021**, 194, 113811	3.5	0
3	Types of lignin, properties, and structural characterization techniques **2021**, 105-158		0
2	A Step Towards Optimization of the qNMR Workflow: Proficiency Testing Exercise at an GxP-Accredited Laboratory. *Applied Magnetic Resonance*, **2021**, 52, 581-593	0.8	

1. Simplification of NMR Workflows by Standardization Using 2H Integral of Deuterated Solvent as Applied to Aloe vera Preparations. *Applied Magnetic Resonance*, **2021**, 52, 1591

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