

Yulia B Monakhova

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Benchtop versus high field NMR: Comparable performance found for the molecular weight determination of lignin.. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2022 , 212, 114649	3.5	1
89	Multinuclear NMR screening of pharmaceuticals using standardization by H integral of a deuterated solvent.. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021 , 209, 114530	3.5	0
88	Is NMR Combined with Multivariate Regression Applicable for the Molecular Weight Determination of Randomly Cross-Linked Polymers Such as Lignin?. <i>ACS Omega</i> , 2021 , 6, 29516-29524	3.9	1
87	Tracing the origin of paracetamol tablets by near-infrared, mid-infrared, and nuclear magnetic resonance spectroscopy using principal component analysis and linear discriminant analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 413, 3107-3118	4.4	3
86	A Step Towards Optimization of the qNMR Workflow: Proficiency Testing Exercise at an GxP-Accredited Laboratory. <i>Applied Magnetic Resonance</i> , 2021 , 52, 581-593	0.8	
85	Simplification of NMR Workflows by Standardization Using 2H Integral of Deuterated Solvent as Applied to Aloe vera Preparations. <i>Applied Magnetic Resonance</i> , 2021 , 52, 1591	0.8	
84	Novel approach of qNMR workflow by standardization using 2H integral: Application to any intrinsic calibration standard. <i>Talanta</i> , 2021 , 222, 121504	6.2	5
83	Is infrared spectroscopy combined with multivariate analysis a promising tool for heparin authentication?. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021 , 194, 113811	3.5	0
82	Types of lignin, properties, and structural characterization techniques 2021 , 105-158		0
81	Lignins Isolated via Catalyst-Free Organosolv Pulping from , , and : A Comparative Study. <i>Molecules</i> , 2021 , 26,	4.8	2
80	Extraction of High-Purity Lignins via Catalyst-free Organosolv Pulping from Low-Input Crops. <i>Biomacromolecules</i> , 2020 , 21, 1929-1942	6.9	17
79	Distinguishing paracetamol formulations: Comparison of potentiometric "Electronic Tongue" with established analytical techniques. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020 , 188, 113457	3.5	1
78	Comparing chemical composition and lignin structure of and harvested in autumn and spring and separated into stems and leaves.. <i>RSC Advances</i> , 2020 , 10, 10740-10751	3.7	13
77	Quality Control of Heparin Injections: Comparison of Four Established Methods. <i>Analytical Sciences</i> , 2020 , 36, 1467-1472	1.7	3
76	A procedure for calibration transfer of DOSY NMR measurements: An example of molecular weight of heparin preparations. <i>Journal of Chemometrics</i> , 2020 , 34, e3210	1.6	3
75	Independent components analysis (ICA) at the "cocktail-party" in analytical chemistry. <i>Talanta</i> , 2020 , 208, 120451	6.2	10
74	Quo Vadis qNMR?. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020 , 177, 112847	3.5	20

73	Low-Input Crops as Lignocellulosic Feedstock for Second-Generation Biorefineries and the Potential of Chemometrics in Biomass Quality Control. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 2252	2.6	16
72	Retrospective multivariate analysis of pharmaceutical preparations using H nuclear magnetic resonance (NMR) spectroscopy: Example of 990 heparin samples. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019 , 173, 18-23	3.5	3
71	x Stem Versus Leaf-Derived Lignins Differing in Monolignol Ratio and Linkage. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	19
70	Anticoagulant activity of porcine heparin: Structural-property relationship and semi-quantitative estimation by nuclear magnetic resonance (NMR) spectrometry. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019 , 174, 639-643	3.5	6
69	Simultaneous determination of proteins in microstructured optical fibers supported by chemometric tools. <i>Analytical and Bioanalytical Chemistry</i> , 2019 , 411, 7055-7059	4.4	2
68	Improving reliability of chemometric models for authentication of species origin of heparin by switching from 1D to 2D NMR experiments. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018 , 153, 168-174	3.5	7
67	Nuclear magnetic resonance spectroscopy as a tool for the quantitative analysis of water and ions in pharmaceuticals: Example of heparin. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018 , 154, 332-338	3.5	7
66	Current role and future perspectives of multivariate (chemometric) methods in NMR spectroscopic analysis of pharmaceutical products. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018 , 147, 580-589	3.5	30
65	Authentication of animal origin of heparin and low molecular weight heparin including ovine, porcine and bovine species using 1D NMR spectroscopy and chemometric tools. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018 , 149, 114-119	3.5	23
64	Quality Control of Krill Oil by Nuclear Magnetic Resonance (NMR) Spectroscopy: Composition and Detection of Foreign Species. <i>Analytical Letters</i> , 2018 , 51, 2551-2562	2.2	3
63	Monitoring daily routine performance in quantitative NMR (qNMR) spectroscopy: Is the system suitability test necessary?. <i>Magnetic Resonance in Chemistry</i> , 2018 , 57, 110	2.1	3
62	Novel method for the determination of average molecular weight of natural polymers based on 2D DOSY NMR and chemometrics: Example of heparin. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018 , 149, 128-132	3.5	22
61	Automated multicomponent phospholipid analysis using P NMR spectroscopy: example of vegetable lecithin and krill oil. <i>Analytical and Bioanalytical Chemistry</i> , 2018 , 410, 7891-7900	4.4	7
60	31P NMR Method for Phospholipid Analysis in Krill Oil: Proficiency Testing A Step toward Becoming an Official Method. <i>JAOCS, Journal of the American Oil Chemists Society</i> , 2018 , 95, 1467-1474	1.8	8
59	Facilitating the performance of qNMR analysis using automated quantification and results verification. <i>Magnetic Resonance in Chemistry</i> , 2017 , 55, 813-820	2.1	8
58	Practical guide for selection of H qNMR acquisition and processing parameters confirmed by automated spectra evaluation. <i>Magnetic Resonance in Chemistry</i> , 2017 , 55, 996-1005	2.1	17
57	Multicomponent quantitative spectroscopic analysis without reference substances based on ICA modelling. <i>Analytical and Bioanalytical Chemistry</i> , 2017 , 409, 3319-3327	4.4	7
56	Rapid NMR determination of inorganic cations in food matrices: Application to mineral water. <i>Food Chemistry</i> , 2017 , 221, 1828-1833	8.5	9

55	Automated Multicomponent Analysis of Soft Drinks Using 1D ¹ H and 2D ¹ H- ¹ H J-resolved NMR Spectroscopy. <i>Food Analytical Methods</i> , 2017 , 10, 827-836	3.4	24
54	Blood species discrimination using proton nuclear magnetic resonance spectroscopy. <i>International Journal of Legal Medicine</i> , 2017 , 131, 723-729	3.1	3
53	Application of MATLAB package for the automation of the chemometric processing of spectrometric signals in the analysis of complex mixtures. <i>Journal of Analytical Chemistry</i> , 2016 , 71, 759-767	1.1	4
52	Transfer of multivariate regression models between high-resolution NMR instruments: application to authenticity control of sunflower lecithin. <i>Magnetic Resonance in Chemistry</i> , 2016 , 54, 712-717	2.1	13
51	Fingerprinting Krill Oil by ³¹ P, ¹ H and ¹³ C NMR Spectroscopies. <i>JAOCs, Journal of the American Oil Chemists Society</i> , 2016 , 93, 1037-1049	1.8	31
50	Chemometric analysis of luminescent quantum dots systems: Long way to go but first steps taken. <i>TrAC - Trends in Analytical Chemistry</i> , 2016 , 82, 164-174	14.6	13
49	FTIR spectroscopy supported by statistical techniques for the structural characterization of plastic debris in the marine environment: Application to monitoring studies. <i>Marine Pollution Bulletin</i> , 2016 , 106, 155-61	6.7	75
48	Quantitative Analysis of Sunflower Lecithin Adulteration with Soy Species by NMR Spectroscopy and PLS Regression. <i>JAOCs, Journal of the American Oil Chemists Society</i> , 2016 , 93, 27-36	1.8	13
47	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). <i>Chemometrics and Intelligent Laboratory Systems</i> , 2016 , 156, 1-6	3.8	22
46	Rapid ¹ H NMR determination of hydrogen peroxide in cosmetic products and chemical reagents. <i>Analytical Methods</i> , 2016 , 8, 4632-4639	3.2	9
45	Automated Control of the Organic and Inorganic Composition of Aloe vera Extracts Using (¹ H) NMR Spectroscopy. <i>Journal of AOAC INTERNATIONAL</i> , 2016 , 99, 1213-8	1.7	9
44	¹ H NMR as a release methodology for the analysis of phospholipids and other constituents in infant nutrition. <i>Analytical Methods</i> , 2016 , 8, 7493-7499	3.2	4
43	Authentication of the origin of sucrose-based sugar products using quantitative natural abundance (¹³ C) NMR. <i>Journal of the Science of Food and Agriculture</i> , 2016 , 96, 2861-6	4.3	7
42	Rapid approach to identify the presence of Arabica and Robusta species in coffee using ¹ H NMR spectroscopy. <i>Food Chemistry</i> , 2015 , 182, 178-84	8.5	78
41	Multicomponent analysis of fat- and water-soluble vitamins and auxiliary substances in multivitamin preparations by qNMR. <i>Journal of Agricultural and Food Chemistry</i> , 2015 , 63, 3135-43	5.7	13
40	Independent components analysis to increase efficiency of discriminant analysis methods (FDA and LDA): Application to NMR fingerprinting of wine. <i>Talanta</i> , 2015 , 141, 60-5	6.2	27
39	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. <i>Journal of Agricultural and Food Chemistry</i> , 2015 , 63, 9666-75	5.7	36
38	Combining ¹ H NMR spectroscopy and multivariate regression techniques to quantitatively determine falsification of porcine heparin with bovine species. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015 , 115, 543-51	3.5	24

37	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. <i>Microchemical Journal</i> , 2015 , 118, 211-222	4.8	11
36	Standardless multicomponent qNMR analysis of compounds with overlapped resonances based on the combination of ICA and PULCON. <i>Magnetic Resonance in Chemistry</i> , 2015 , 53, 821-8	2.1	12
35	Combined chemometric analysis of (1)H NMR, (13)C NMR and stable isotope data to differentiate organic and conventional milk. <i>Food Chemistry</i> , 2015 , 188, 1-7	8.5	55
34	Validation studies for multicomponent quantitative NMR analysis: the example of apple fruit juice. <i>Accreditation and Quality Assurance</i> , 2014 , 19, 17-29	0.7	34
33	Independent component analysis (ICA) algorithms for improved spectral deconvolution of overlapped signals in 1H NMR analysis: application to foods and related products. <i>Magnetic Resonance in Chemistry</i> , 2014 , 52, 231-40	2.1	38
32	Determination of rice type by 1H NMR spectroscopy in combination with different chemometric tools. <i>Journal of Chemometrics</i> , 2014 , 28, 83-92	1.6	40
31	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. <i>Analytica Chimica Acta</i> , 2014 , 820, 112-8	6.6	26
30	Synergistic effect of the simultaneous chemometric analysis of 1H NMR spectroscopic and stable isotope (SNIF-NMR, $\delta^{13}C$, $\delta^{15}N$) data: application to wine analysis. <i>Analytica Chimica Acta</i> , 2014 , 833, 29-39	6.6	69
29	Association/Hydrogen Bonding of Acetone in Polar and Non-polar Solvents: NMR and NIR Spectroscopic Investigations with Chemometrics. <i>Journal of Solution Chemistry</i> , 2014 , 43, 1963-1980	1.8	12
28	Rapid assessment of the illegal presence of 1,3-dimethylamylamine (DMAA) in sports nutrition and dietary supplements using 1H NMR spectroscopy. <i>Drug Testing and Analysis</i> , 2014 , 6, 944-8	3.5	9
27	The intramolecular Diels-Alder reaction of diarylheptanoids--quantum chemical calculation of structural features favoring the formation of phenylphenalenones. <i>Molecules</i> , 2014 , 19, 5231-42	4.8	2
26	Investigation into the structural composition of hydroalcoholic solutions as basis for the development of multiple suppression pulse sequences for NMR measurement of alcoholic beverages. <i>Magnetic Resonance in Chemistry</i> , 2014 , 52, 755-9	2.1	3
25	Determination of the purity of pharmaceutical reference materials by 1H NMR using the standardless PULCON methodology. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014 , 100, 381-388	3.5	41
24	Electronic cigarettes: overview of chemical composition and exposure estimation. <i>Tobacco Induced Diseases</i> , 2014 , 12, 23	3.2	87
23	Composition of distilled Perique tobacco liqueur: a connoisseur's spirit or a health risk due to nicotine?. <i>Food Chemistry</i> , 2014 , 159, 230-5	8.5	5
22	Influence of unrecorded alcohol consumption on liver cirrhosis mortality. <i>World Journal of Gastroenterology</i> , 2014 , 20, 7217-22	5.6	24
21	Standardless 1H NMR determination of pharmacologically active substances in dietary supplements and medicines that have been illegally traded over the internet. <i>Drug Testing and Analysis</i> , 2013 , 5, 400-11	3.5	24
20	Rapid determination of coenzyme Q10 in food supplements using 1H NMR spectroscopy. <i>International Journal for Vitamin and Nutrition Research</i> , 2013 , 83, 67-72	1.7	11

19	Formaldehyde in hair straightening products: rapid ^1H NMR determination and risk assessment. <i>International Journal of Cosmetic Science</i> , 2013 , 35, 201-6	2.7	24
18	Independent component analysis algorithms for spectral decomposition in UV/VIS analysis of metal-containing mixtures including multiminer food supplements and platinum concentrates. <i>Analytical Methods</i> , 2013 , 5, 2761	3.2	11
17	What happens if people start drinking mouthwash as surrogate alcohol? A quantitative risk assessment. <i>Food and Chemical Toxicology</i> , 2013 , 51, 173-8	4.7	15
16	Qualitative and Quantitative Control of Honeys Using NMR Spectroscopy and Chemometrics 2013 , 2013, 1-9		40
15	Application of multivariate methods in the monitoring of marine environment: simultaneous determination of bromide, bicarbonate, nitrate and sulphide in seawater by ultraviolet spectroscopy. <i>International Journal of Environment and Health</i> , 2013 , 6, 235	1.3	5
14	Identification of Imitation Cheese and Imitation Ice Cream Based on Vegetable Fat Using NMR Spectroscopy and Chemometrics. <i>International Journal of Food Science</i> , 2013 , 2013, 367841	3.4	10
13	Occurrence of carcinogenic aldehydes in alcoholic beverages from Asia. <i>The International Journal of Alcohol and Drug Research</i> , 2013 , 2, 31-36	1.5	8
12	NMR spectroscopy as a screening tool to validate nutrition labeling of milk, lactose-free milk, and milk substitutes based on soy and grains. <i>Dairy Science and Technology</i> , 2012 , 92, 109-120		37
11	Qualitative and quantitative control of carbonated cola beverages using ^1H NMR spectroscopy. <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 2778-84	5.7	52
10	Nontargeted NMR Analysis To Rapidly Detect Hazardous Substances in Alcoholic Beverages. <i>Applied Magnetic Resonance</i> , 2012 , 42, 343-352	0.8	37
9	The margin of exposure to formaldehyde in alcoholic beverages. <i>Arhiv Za Higijenu Rada I Toksikologiju</i> , 2012 , 63, 227-37	1.7	20
8	Rapid Quantification of Ethyl Carbamate in Spirits Using NMR Spectroscopy and Chemometrics 2012 , 2012, 1-5		9
7	The Margin of Exposure of 5-Hydroxymethylfurfural (HMF) in Alcoholic Beverages. <i>Environmental Health and Toxicology</i> , 2012 , 27, e2012016	0.7	19
6	Application of automated eightfold suppression of water and ethanol signals in ^1H NMR to provide sensitivity for analyzing alcoholic beverages. <i>Magnetic Resonance in Chemistry</i> , 2011 , 49, 734-9	2.1	73
5	Nuclear magnetic resonance spectroscopy and chemometrics to identify pine nuts that cause taste disturbance. <i>Journal of Agricultural and Food Chemistry</i> , 2011 , 59, 6877-81	5.7	36
4	Unrecorded alcohol consumption in Russia: toxic denaturants and disinfectants pose additional risks. <i>Interdisciplinary Toxicology</i> , 2011 , 4, 198-205	2.3	48
3	Rapid Determination of Total Thujone in Absinthe Using ^1H NMR Spectroscopy. <i>International Journal of Spectroscopy</i> , 2011 , 2011, 1-5		12
2	Determination of diethyl phthalate and polyhexamethylene guanidine in surrogate alcohol from Russia. <i>International Journal of Analytical Chemistry</i> , 2011 , 2011, 704795	1.4	25

1	Independent components in spectroscopic analysis of complex mixtures. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2010 , 103, 108-115	3.8	64
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