

# Julia Kuligowski

## List of Publications by Year in descending order

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Version: 2024-02-01

109  
papers

2,685  
citations

218677  
26  
h-index

243625  
44  
g-index

109  
all docs

109  
docs citations

109  
times ranked

3732  
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines and considerations for the use of system suitability and quality control samples in mass spectrometry assays applied in untargeted clinical metabolomic studies. <i>Metabolomics</i> , 2018, 14, 72.	3.0	517
2	Oxygen and oxidative stress in the perinatal period. <i>Redox Biology</i> , 2017, 12, 674-681.	9.0	170
3	Intra-batch effect correction in liquid chromatography-mass spectrometry using quality control samples and support vector regression (QC-SVRC). <i>Analyst</i> , The, 2015, 140, 7810-7817.	3.5	96
4	Biomonitoring of bisphenols A, F, S in human milk and probabilistic risk assessment for breastfed infants. <i>Science of the Total Environment</i> , 2019, 668, 797-805.	8.0	68
5	Urinary Lipid Peroxidation Byproducts: Are They Relevant for Predicting Neonatal Morbidity in Preterm Infants?. <i>Antioxidants and Redox Signaling</i> , 2015, 23, 178-184.	5.4	53
6	Evaluation of batch effect elimination using quality control replicates in LC-MS metabolite profiling. <i>Analytica Chimica Acta</i> , 2018, 1019, 38-48.	5.4	42
7	Analysis of lipid peroxidation biomarkers in extremely low gestational age neonate urines by UPLC-MS/MS. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 4345-4356.	3.7	40
8	On-Capillary Surface-Enhanced Raman Spectroscopy: Determination of Glutathione in Whole Blood Microsamples. <i>Analytical Chemistry</i> , 2018, 90, 9093-9100.	6.5	40
9	Analytical potential of mid-infrared detection in capillary electrophoresis and liquid chromatography: A review. <i>Analytica Chimica Acta</i> , 2010, 679, 31-42.	5.4	39
10	Background Correction and Multivariate Curve Resolution of Online Liquid Chromatography with Infrared Spectrometric Detection. <i>Analytical Chemistry</i> , 2011, 83, 4855-4862.	6.5	39
11	Development of a reliable method based on ultra-performance liquid chromatography coupled to tandem mass spectrometry to measure thiol-associated oxidative stress in whole blood samples. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016, 123, 104-112.	2.8	37
12	On-line gel permeation chromatographyâ€“attenuated total reflectanceâ€“Fourier transform infrared determination of lecithin and soybean oil in dietary supplements. <i>Journal of Chromatography A</i> , 2008, 1185, 71-77.	3.7	35
13	A rapid method for the differentiation of yeast cells grown under carbon and nitrogen-limited conditions by means of partial least squares discriminant analysis employing infrared micro-spectroscopic data of entire yeast cells. <i>Talanta</i> , 2012, 99, 566-573.	5.5	35
14	Direct determination of polymerised triacylglycerides in deep-frying vegetable oil by near infrared spectroscopy using Partial Least Squares regression. <i>Food Chemistry</i> , 2012, 131, 353-359.	8.2	33
15	Metabolomic Analysis of Gastric Cancer Progression within the Correaâ€™s Cascade Using Ultrapformance Liquid Chromatographyâ€™Mass Spectrometry. <i>Journal of Proteome Research</i> , 2016, 15, 2729-2738.	3.7	32
16	Model selection for within-batch effect correction in UPLC-MS metabolomics using quality control - Support vector regression. <i>Analytica Chimica Acta</i> , 2018, 1026, 62-68.	5.4	32
17	Biomonitoring of parabens in human milk and estimated daily intake for breastfed infants. <i>Chemosphere</i> , 2020, 240, 124829.	8.2	32
18	New cut-off criterion for uninformative variable elimination in multivariate calibration of near-infrared spectra for the determination of heroin in illicit street drugs. <i>Analytica Chimica Acta</i> , 2008, 630, 150-160.	5.4	31

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19	Determination of lecithin and soybean oil in dietary supplements using partial least squaresâ€”Fourier transform infrared spectroscopy. <i>Talanta</i> , 2008, 77, 229-234.	5.5	31
20	Differentiation of walnut wood species and steam treatment using ATR-FTIR and partial least squares discriminant analysis (PLS-DA). <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 2713-2722.	3.7	31
21	Ultra high performance liquid chromatography coupled to tandem mass spectrometry determination of lipid peroxidation biomarkers in newborn serum samples. <i>Analytica Chimica Acta</i> , 2015, 886, 214-220.	5.4	31
22	Topiramate plus Cooling for Hypoxic-Ischemic Encephalopathy: A Randomized, Controlled, Multicenter, Double-Blinded Trial. <i>Neonatology</i> , 2019, 116, 76-84.	2.0	31
23	Modified locally weightedâ€”Partial least squares regression improving clinical predictions from infrared spectra of human serum samples. <i>Talanta</i> , 2013, 107, 368-375.	5.5	30
24	Novel free-radical mediated lipid peroxidation biomarkers in newborn plasma. <i>Analytica Chimica Acta</i> , 2017, 996, 88-97.	5.4	30
25	Comparing Targeted vs. Untargeted MS2 Data-Dependent Acquisition for Peak Annotation in LCâ€”MS Metabolomics. <i>Metabolites</i> , 2020, 10, 126.	2.9	29
26	Assessment of Oxidative Damage to Proteins and DNA in Urine of Newborn Infants by a Validated UPLC-MS/MS Approach. <i>PLoS ONE</i> , 2014, 9, e93703.	2.5	28
27	Recent advances in on-line liquid chromatography - infrared spectrometry (LC-IR). <i>TrAC - Trends in Analytical Chemistry</i> , 2010, 29, 544-552.	11.4	27
28	Detection of batch effects in liquid chromatography-mass spectrometry metabolomic data using guided principal component analysis. <i>Talanta</i> , 2014, 130, 442-448.	5.5	27
29	New background correction approach based on polynomial regressions for on-line liquid chromatographyâ€”Fourier transform infrared spectrometry. <i>Journal of Chromatography A</i> , 2009, 1216, 3122-3130.	3.7	26
30	Monitoring of system conditioning after blank injections in untargeted UPLC-MS metabolomic analysis. <i>Scientific Reports</i> , 2019, 9, 9822.	3.3	26
31	Plasma metabolite score correlates with Hypoxia time in a newly born piglet model for asphyxia. <i>Redox Biology</i> , 2017, 12, 1-7.	9.0	25
32	On-Line Fourier Transform Infrared Spectrometric Detection in Gradient Capillary Liquid Chromatography Using Nanoliter-Flow Cells. <i>Analytical Chemistry</i> , 2009, 81, 3746-3753.	6.5	24
33	High performance liquid chromatography with mid-infrared detection based on a broadly tunable quantum cascade laser. <i>Analyst, The</i> , 2014, 139, 2057.	3.5	24
34	Oxygen Supplementation to Stabilize Preterm Infants in the Fetal to Neonatal Transition: No Satisfactory Answer. <i>Frontiers in Pediatrics</i> , 2016, 4, 29.	1.9	24
35	Changes of the plasma metabolome of newly born piglets subjected to postnatal hypoxia and resuscitation with air. <i>Pediatric Research</i> , 2016, 80, 284-292.	2.3	24
36	Surface enhanced Raman spectroscopic direct determination of low molecular weight biothiols in umbilical cord whole blood. <i>Analyst, The</i> , 2016, 141, 2165-2174.	3.5	24

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37	Evolution of Energy Related Metabolites in Plasma from Newborns with Hypoxic-Ischemic Encephalopathy during Hypothermia Treatment. Scientific Reports, 2017, 7, 17039.	3.3	24
38	High performance liquid chromatography with on-line dual quantum cascade laser detection for the determination of carbohydrates, alcohols and organic acids in wine and grape juice. Applied Physics B: Lasers and Optics, 2010, 99, 833-840.	2.2	23
39	Effect of donor human milk on host-gut microbiota and metabolic interactions in preterm infants. Clinical Nutrition, 2021, 40, 1296-1309.	5.0	23
40	Protein-bound tyrosine oxidation, nitration and chlorination by-products assessed by ultraperformance liquid chromatography coupled to tandem mass spectrometry. Analytica Chimica Acta, 2016, 913, 104-110.	5.4	22
41	External cavity-quantum cascade laser (EC-QCL) spectroscopy for protein analysis in bovine milk. Analytica Chimica Acta, 2017, 963, 99-105.	5.4	22
42	Evaluation of the effect of chance correlations on variable selection using Partial Least Squares-Discriminant Analysis. Talanta, 2013, 116, 835-840.	5.5	21
43	Analysis of multi-source metabolomic data using joint and individual variation explained (JIVE). Analyst, The, 2015, 140, 4521-4529.	3.5	21
44	Current Practice in Untargeted Human Milk Metabolomics. Metabolites, 2020, 10, 43.	2.9	21
45	On-line gradient liquid chromatography–Fourier transform infrared spectrometry determination of sugars in beverages using chemometric background correction. Talanta, 2008, 77, 779-785.	5.5	20
46	Novel biomarkers in amniotic fluid for early assessment of intraamniotic infection. Free Radical Biology and Medicine, 2015, 89, 734-740.	2.9	20
47	Sample classification for improved performance of PLS models applied to the quality control of deep-frying oils of different botanic origins analyzed using ATR-FTIR spectroscopy. Analytical and Bioanalytical Chemistry, 2011, 399, 1305-1314.	3.7	19
48	Assessment of the statistical significance of classifications in infrared spectroscopy based diagnostic models. Analyst, The, 2015, 140, 2422-2427.	3.5	19
49	Fast quantification of bovine milk proteins employing external cavity-quantum cascade laser spectroscopy. Food Chemistry, 2018, 252, 22-27.	8.2	19
50	Metabolomic Analysis of the Effect of Postnatal Hypoxia on the Retina in a Newly Born Piglet Model. PLoS ONE, 2013, 8, e66540.	2.5	19
51	Development of a reliable analytical method to determine lipid peroxidation biomarkers in newborn plasma samples. Talanta, 2016, 153, 152-157.	5.5	18
52	Determination of critical eluent composition for polyethyleneglycols using on-line liquid chromatography–Fourier transform infrared spectrometry. Analytica Chimica Acta, 2008, 624, 278-285.	5.4	17
53	Assessment of discriminant models in infrared imaging using constrained repeated random sampling – Cross validation. Analytica Chimica Acta, 2018, 1033, 156-164.	5.4	17
54	Direct determination of polymerized triglycerides in deep-frying olive oil by attenuated total reflectance–Fourier transform infrared spectroscopy using partial least squares regression. Analytical and Bioanalytical Chemistry, 2010, 397, 861-869.	3.7	16

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55	<scp>UV</scp> resonance Raman spectroscopy: a process analytical tool for host cell <scp>DNA</scp> and <scp>RNA</scp> dynamics in mammalian cell lines. Journal of Chemical Technology and Biotechnology, 2015, 90, 237-243.	3.2	16
56	Assessment of phospholipid synthesis related biomarkers for perinatal asphyxia: a piglet study. Scientific Reports, 2017, 7, 40315.	3.3	16
57	Application of point-to-point matching algorithms for background correction in on-line liquid chromatographyâ€Fourier transform infrared spectrometry (LCâ€FTIR). Talanta, 2010, 80, 1771-1776.	5.5	15
58	Determination of sugars in depilatory formulations: A green analytical method employing infrared detection and partial least squares regression. Talanta, 2011, 85, 1721-1729.	5.5	15
59	Monitoring of Polymerized Triglycerides in Deep-Frying Oil by On-Line GPC-FTIR Spectrometry Using the Science Based Calibration Multivariate Approach. Chromatographia, 2010, 71, 201-209.	1.3	14
60	Metabolic Phenotypes of Hypoxic-Ischemic Encephalopathy with Normal vs. Pathologic Magnetic Resonance Imaging Outcomes. Metabolites, 2020, 10, 109.	2.9	14
61	Application of Discriminant Analysis and Cross-Validation on Proteomics Data. Methods in Molecular Biology, 2016, 1362, 175-184.	0.9	14
62	Chemometric extraction of analyteâ€specific chromatograms in onâ€line gradient LCâ€infrared spectrometry. Journal of Separation Science, 2009, 32, 4089-4095.	2.5	13
63	Discriminant analysis and feature selection in mass spectrometry imaging using constrained repeated random sampling - Cross validation (CORRS-CV). Analytica Chimica Acta, 2020, 1097, 30-36.	5.4	13
64	Analysis of the Association between Fatigue and the Plasma Lipidomic Profile of Inflammatory Bowel Disease Patients. Journal of Proteome Research, 2021, 20, 381-392.	3.7	13
65	Do Levels of Lipid Peroxidation Biomarkers Reflect the Degree of Brain Injury in Newborns?. Antioxidants and Redox Signaling, 2021, 35, 1467-1475.	5.4	13
66	Determination of glycolic acid in cosmetics by online liquid chromatographyâ€Fourier transform infrared spectrometry. Analytical and Bioanalytical Chemistry, 2008, 392, 1383-1389.	3.7	12
67	Cubic smoothing splines background correction in on-line liquid chromatographyâ€Fourier transform infrared spectrometry. Journal of Chromatography A, 2010, 1217, 6733-6741.	3.7	12
68	Biological mineral content in Iberian skeletal cremains for control of diagenetic factors employing multivariate statistics. Journal of Archaeological Science, 2013, 40, 2477-2484.	2.4	11
69	Atmospheric Compensation in Fourier Transform Infrared (FT-IR) Spectra of Clinical Samples. Applied Spectroscopy, 2013, 67, 1339-1342.	2.2	11
70	Recent advancements of EC-QCL based mid-IR transmission spectroscopy of proteins and application to analysis of bovine milk1. Biomedical Spectroscopy and Imaging, 2018, 7, 35-45.	1.2	11
71	Does Pasteurized Donor Human Milk Efficiently Protect Preterm Infants Against Oxidative Stress?. Antioxidants and Redox Signaling, 2019, 31, 791-799.	5.4	11
72	Small molecule biomarkers for neonatal hypoxic ischemic encephalopathy. Seminars in Fetal and Neonatal Medicine, 2020, 25, 101084.	2.3	11

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73	ATR-FTIR spectroscopy for the routine quality control of exosome isolations. Chemometrics and Intelligent Laboratory Systems, 2021, 217, 104401.	3.5	11
74	Prolonging in utero-like oxygenation after birth diminishes oxidative stress in the lung and brain of mice pups. Redox Biology, 2013, 1, 297-303.	9.0	10
75	Improving the performance of hollow waveguide-based infrared gas sensors via tailored chemometrics. Analytical and Bioanalytical Chemistry, 2013, 405, 8223-8232.	3.7	10
76	Adrenic acid non-enzymatic peroxidation products in biofluids of moderate preterm infants. Free Radical Biology and Medicine, 2019, 142, 107-112.	2.9	10
77	Feeding the preterm infant: an overview of the evidence. International Journal of Food Sciences and Nutrition, 2021, 72, 4-13.	2.8	10
78	Transcriptome profiles discriminate between Gram-positive and Gram-negative sepsis in preterm neonates. Pediatric Research, 2022, 91, 637-645.	2.3	10
79	GC-MS analysis of short chain fatty acids and branched chain amino acids in urine and faeces samples from newborns and lactating mothers. Clinica Chimica Acta, 2022, 532, 172-180.	1.1	10
80	Infrared biospectroscopy for a fast qualitative evaluation of sample preparation in metabolomics. Talanta, 2014, 127, 181-190.	5.5	9
81	Biomarkers of oxidative stress derived damage to proteins and DNA in human breast milk. Analytica Chimica Acta, 2018, 1016, 78-85.	5.4	9
82	The Relationship between Oxidative Stress, Intermittent Hypoxemia, and Hospital Duration in Moderate Preterm Infants. Neonatology, 2020, 117, 577-583.	2.0	9
83	Noninvasive monitoring of evolving urinary metabolic patterns in neonatal encephalopathy. Pediatric Research, 2022, 91, 598-605.	2.3	9
84	Use of Oxygen in the Resuscitation of Neonates. Oxidative Stress in Applied Basic Research and Clinical Practice, 2014, , 213-243.	0.4	9
85	Protein Oxidation Biomarkers and Myeloperoxidase Activation in Cerebrospinal Fluid in Childhood Bacterial Meningitis. Antioxidants, 2019, 8, 441.	5.1	8
86	Toward Rapid Screening of Liver Grafts at the Operating Room Using Mid-infrared Spectroscopy. Analytical Chemistry, 2020, 92, 14542-14549.	6.5	8
87	Oxidative stress biomarkers in the preterm infant. Advances in Clinical Chemistry, 2021, 102, 127-189.	3.7	8
88	The effect of Holder pasteurization on the lipid and metabolite composition of human milk. Food Chemistry, 2022, 384, 132581.	8.2	8
89	Procedure for Automated Background Correction in Flow Systems with Infrared Spectroscopic Detection and Changing Liquid-Phase Composition. Applied Spectroscopy, 2009, 63, 1363-1369.	2.2	7
90	An infrared spectroscopic tool for process monitoring: Sugar contents during the production of a depilatory formulation. Talanta, 2012, 99, 660-667.	5.5	7

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91	Oxygen in the delivery room. Early Human Development, 2013, 89, S11-S13.	1.8	7
92	Mass spectrometric detection of biomarkers for early assessment of intraamniotic fluid infection. Data in Brief, 2015, 5, 1026-1030.	1.0	7
93	Data Quality Assessment in Untargeted LC-MS Metabolomics. Comprehensive Analytical Chemistry, 2018, 82, 137-164.	1.3	6
94	NAC and Vitamin D Improve CNS and Plasma Oxidative Stress in Neonatal HIE and Are Associated with Favorable Long-Term Outcomes. Antioxidants, 2021, 10, 1344.	5.1	6
95	Extracting consistent biological information from functional results of metabolomic pathway analysis using the Mantel's test. Analytica Chimica Acta, 2021, 1187, 339173.	5.4	6
96	Science based calibration for the extraction of "analyte-specific" HPLC-DAD chromatograms in environmental analysis. Talanta, 2011, 83, 1158-1165.	5.5	5
97	Direct Derivatization in Dried Blood Spots for Oxidized and Reduced Glutathione Quantification in Newborns. Antioxidants, 2022, 11, 1165.	5.1	4
98	Determination of biomarkers of protein oxidation in tissue and plasma. Free Radical Biology and Medicine, 2014, 75, S51.	2.9	3
99	Advanced IR and Raman detectors for identification and quantification. , 2017, , 463-477.		3
100	Impact of Donor Human Milk in the Preterm Very Low Birth Weight Gut Transcriptome Profile by Use of Exfoliated Intestinal Cells. Nutrients, 2019, 11, 2677.	4.1	3
101	High Oxygen Does Not Increase Reperfusion Injury Assessed with Lipid Peroxidation Biomarkers after Cardiac Arrest: A Post Hoc Analysis of the COMACARE Trial. Journal of Clinical Medicine, 2021, 10, 4226.	2.4	3
102	A UPLC-MS/MS method for the determination of oxidative stress biomarkers in amniotic fluid. Free Radical Biology and Medicine, 2022, 179, 164-169.	2.9	3
103	Liquid Chromatography" Liquid Chromatography"Fourier Transform Infrared. , 2018, , 75-75.		2
104	A Reductive Metabolic Switch Protects Infants with Transposition of Great Arteries Undergoing Atrial Septostomy against Oxidative Stress. Antioxidants, 2021, 10, 1502.	5.1	2
105	Brain Oxygen Perfusion and Oxidative Stress Biomarkers in Fetuses with Congenital Heart Disease" A Retrospective, Case-Control Pilot Study. Antioxidants, 2022, 11, 299.	5.1	2
106	Role of human milk in oxidative stress associated with prematurity. Journal of Pediatric Biochemistry, 2015, 03, 169-177.	0.2	1
107	Metabolomics, Oxidative, and Nitrosative Stress in the Perinatal Period. Antioxidants, 2022, 11, 1357.	5.1	1
108	Advanced Spectroscopic Detectors for Identification and Quantification. , 2013, , 333-347.		0

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109	Oxygen for the resuscitation of newborn infants. Journal of Pediatric Biochemistry, 2015, 03, 155-159.	0.2	0