Julia Kuligowski

List of Publications by Year
in descending order

109 papers	2,685 citations	218381 26 h-index	243296 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. Metabolomics, 2018, 14, 72.	1.4	517
2	Oxygen and oxidative stress in the perinatal period. Redox Biology, 2017, 12, 674-681.	3.9	170
3	Intra-batch effect correction in liquid chromatography-mass spectrometry using quality control samples and support vector regression (QC-SVRC). Analyst, The, 2015, 140, 7810-7817.	1.7	96
4	Biomonitoring of bisphenols A, F, S in human milk and probabilistic risk assessment for breastfed infants. Science of the Total Environment, 2019, 668, 797-805.	3.9	68
5	Urinary Lipid Peroxidation Byproducts: Are They Relevant for Predicting Neonatal Morbidity in Preterm Infants?. Antioxidants and Redox Signaling, 2015, 23, 178-184.	2.5	53
6	Evaluation of batch effect elimination using quality control replicates in LC-MS metabolite profiling. Analytica Chimica Acta, 2018, 1019, 38-48.	2.6	42
7	Analysis of lipid peroxidation biomarkers in extremely low gestational age neonate urines by UPLC-MS/MS. Analytical and Bioanalytical Chemistry, 2014, 406, 4345-4356.	1.9	40
8	On-Capillary Surface-Enhanced Raman Spectroscopy: Determination of Glutathione in Whole Blood Microsamples. Analytical Chemistry, 2018, 90, 9093-9100.	3.2	40
9	Analytical potential of mid-infrared detection in capillary electrophoresis and liquid chromatography: A review. Analytica Chimica Acta, 2010, 679, 31-42.	2.6	39
10	Background Correction and Multivariate Curve Resolution of Online Liquid Chromatography with Infrared Spectrometric Detection. Analytical Chemistry, 2011, 83, 4855-4862.	3.2	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. Journal of Pharmaceutical and Biomedical Analysis, 2016, 123, 104-112.	1.4	37
12	On-line gel permeation chromatography–attenuated total reflectance–Fourier transform infrared determination of lecithin and soybean oil in dietary supplements. Journal of Chromatography A, 2008, 1185, 71-77.	1.8	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. Talanta, 2012, 99, 566-573.	2.9	35
14	Direct determination of polymerised triacylglycerides in deep-frying vegetable oil by near infrared spectroscopy using Partial Least Squares regression. Food Chemistry, 2012, 131, 353-359.	4.2	33
15	Metabolomic Analysis of Gastric Cancer Progression within the Correa's Cascade Using Ultraperformance Liquid Chromatography–Mass Spectrometry. Journal of Proteome Research, 2016, 15, 2729-2738.	1.8	32
16	Model selection for within-batch effect correction in UPLC-MS metabolomics using quality control - Support vector regression. Analytica Chimica Acta, 2018, 1026, 62-68.	2.6	32
17	Biomonitoring of parabens in human milk and estimated daily intake for breastfed infants. Chemosphere, 2020, 240, 124829.	4.2	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. Analytica Chimica Acta, 2008, 630, 150-160.	2.6	31

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19	Determination of lecithin and soybean oil in dietary supplements using partial least squares–Fourier transform infrared spectroscopy. Talanta, 2008, 77, 229-234.	2.9	31
20	Differentiation of walnut wood species and steam treatment using ATR-FTIR and partial least squares discriminant analysis (PLS-DA). Analytical and Bioanalytical Chemistry, 2010, 398, 2713-2722.	1.9	31
21	Ultra high performance liquid chromatography coupled to tandem mass spectrometry determination of lipid peroxidation biomarkers in newborn serum samples. Analytica Chimica Acta, 2015, 886, 214-220.	2.6	31
22	Topiramate plus Cooling for Hypoxic-Ischemic Encephalopathy: A Randomized, Controlled, Multicenter, Double-Blinded Trial. Neonatology, 2019, 116, 76-84.	0.9	31
23	Modified locally weighted–Partial least squares regression improving clinical predictions from infrared spectra of human serum samples. Talanta, 2013, 107, 368-375.	2.9	30
24	Novel free-radical mediated lipid peroxidation biomarkers in newborn plasma. Analytica Chimica Acta, 2017, 996, 88-97.	2.6	30
25	Comparing Targeted vs. Untargeted MS2 Data-Dependent Acquisition for Peak Annotation in LC–MS Metabolomics. Metabolites, 2020, 10, 126.	1.3	29
26	Assessment of Oxidative Damage to Proteins and DNA in Urine of Newborn Infants by a Validated UPLC-MS/MS Approach. PLoS ONE, 2014, 9, e93703.	1.1	28
27	Recent advances in on-line liquid chromatography - infrared spectrometry (LC-IR). TrAC - Trends in Analytical Chemistry, 2010, 29, 544-552.	5.8	27
28	Detection of batch effects in liquid chromatography-mass spectrometry metabolomic data using guided principal component analysis. Talanta, 2014, 130, 442-448.	2.9	27
29	New background correction approach based on polynomial regressions for on-line liquid chromatography–Fourier transform infrared spectrometry. Journal of Chromatography A, 2009, 1216, 3122-3130.	1.8	26
30	Monitoring of system conditioning after blank injections in untargeted UPLC-MS metabolomic analysis. Scientific Reports, 2019, 9, 9822.	1.6	26
31	Plasma metabolite score correlates with Hypoxia time in a newly born piglet model for asphyxia. Redox Biology, 2017, 12, 1-7.	3.9	25
32	On-Line Fourier Transform Infrared Spectrometric Detection in Gradient Capillary Liquid Chromatography Using Nanoliter-Flow Cells. Analytical Chemistry, 2009, 81, 3746-3753.	3.2	24
33	High performance liquid chromatography with mid-infrared detection based on a broadly tunable quantum cascade laser. Analyst, The, 2014, 139, 2057.	1.7	24
34	Oxygen Supplementation to Stabilize Preterm Infants in the Fetal to Neonatal Transition: No Satisfactory Answer. Frontiers in Pediatrics, 2016, 4, 29.	0.9	24
35	Changes of the plasma metabolome of newly born piglets subjected to postnatal hypoxia and resuscitation with air. Pediatric Research, 2016, 80, 284-292.	1.1	24
36	Surface enhanced Raman spectroscopic direct determination of low molecular weight biothiols in umbilical cord whole blood. Analyst, The, 2016, 141, 2165-2174.	1.7	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.	1.6	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.	1.1	23
39	Effect of donor human milk on host-gut microbiota and metabolic interactions in preterm infants. Clinical Nutrition, 2021, 40, 1296-1309.	2.3	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.	2.6	22
41	External cavity-quantum cascade laser (EC-QCL) spectroscopy for protein analysis in bovine milk. Analytica Chimica Acta, 2017, 963, 99-105.	2.6	22
42	Evaluation of the effect of chance correlations on variable selection using Partial Least Squares-Discriminant Analysis. Talanta, 2013, 116, 835-840.	2.9	21
43	Analysis of multi-source metabolomic data using joint and individual variation explained (JIVE). Analyst, The, 2015, 140, 4521-4529.	1.7	21
44	Current Practice in Untargeted Human Milk Metabolomics. Metabolites, 2020, 10, 43.	1.3	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.	2.9	20
46	Novel biomarkers in amniotic fluid for early assessment of intraamniotic infection. Free Radical Biology and Medicine, 2015, 89, 734-740.	1.3	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.	1.9	19
48	Assessment of the statistical significance of classifications in infrared spectroscopy based diagnostic models. Analyst, The, 2015, 140, 2422-2427.	1.7	19
49	Fast quantification of bovine milk proteins employing external cavity-quantum cascade laser spectroscopy. Food Chemistry, 2018, 252, 22-27.	4.2	19
50	Metabolomic Analysis of the Effect of Postnatal Hypoxia on the Retina in a Newly Born Piglet Model. PLoS ONE, 2013, 8, e66540.	1.1	19
51	Development of a reliable analytical method to determine lipid peroxidation biomarkers in newborn plasma samples. Talanta, 2016, 153, 152-157.	2.9	18
52	Determination of critical eluent composition for polyethylenglycols using on-line liquid chromatography–Fourier transform infrared spectrometry. Analytica Chimica Acta, 2008, 624, 278-285.	2.6	17
53	Assessment of discriminant models in infrared imaging using constrained repeated random sampling – Cross validation. Analytica Chimica Acta, 2018, 1033, 156-164.	2.6	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.	1.9	16

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55	UV resonance Raman spectroscopy: a process analytical tool for host cell DNA and RNA dynamics in mammalian cell lines. Journal of Chemical Technology and Biotechnology, 2015, 90, 237-243.	1.6	16
56	Assessment of phospholipid synthesis related biomarkers for perinatal asphyxia: a piglet study. Scientific Reports, 2017, 7, 40315.	1.6	16
57	Application of point-to-point matching algorithms for background correction in on-line liquid chromatography–Fourier transform infrared spectrometry (LC–FTIR). Talanta, 2010, 80, 1771-1776.	2.9	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.	2.9	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.	0.7	14
60	Metabolic Phenotypes of Hypoxic-Ischemic Encephalopathy with Normal vs. Pathologic Magnetic Resonance Imaging Outcomes. Metabolites, 2020, 10, 109.	1.3	14
61	Application of Discriminant Analysis and Cross-Validation on Proteomics Data. Methods in Molecular Biology, 2016, 1362, 175-184.	0.4	14
62	Chemometric extraction of analyte-specific chromatograms in on-line gradient LC-infrared spectrometry. Journal of Separation Science, 2009, 32, 4089-4095.	1.3	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.	2.6	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.	1.8	13
65	Do Levels of Lipid Peroxidation Biomarkers Reflect the Degree of Brain Injury in Newborns?. Antioxidants and Redox Signaling, 2021, 35, 1467-1475.	2.5	13
66	Determination of glycolic acid in cosmetics by online liquid chromatography–Fourier transform infrared spectrometry. Analytical and Bioanalytical Chemistry, 2008, 392, 1383-1389.	1.9	12
67	Cubic smoothing splines background correction in on-line liquid chromatography–Fourier transform infrared spectrometry. Journal of Chromatography A, 2010, 1217, 6733-6741.	1.8	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.	1.2	11
69	Atmospheric Compensation in Fourier Transform Infrared (FT-IR) Spectra of Clinical Samples. Applied Spectroscopy, 2013, 67, 1339-1342.	1.2	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.	2.5	11
72	Small molecule biomarkers for neonatal hypoxic ischemic encephalopathy. Seminars in Fetal and Neonatal Medicine, 2020, 25, 101084.	1.1	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.	1.8	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.	3.9	10
75	Improving the performance of hollow waveguide-based infrared gas sensors via tailored chemometrics. Analytical and Bioanalytical Chemistry, 2013, 405, 8223-8232.	1.9	10
76	Adrenic acid non-enzymatic peroxidation products in biofluids of moderate preterm infants. Free Radical Biology and Medicine, 2019, 142, 107-112.	1.3	10
77	Feeding the preterm infant: an overview of the evidence. International Journal of Food Sciences and Nutrition, 2021, 72, 4-13.	1.3	10
78	Transcriptome profiles discriminate between Gram-positive and Gram-negative sepsis in preterm neonates. Pediatric Research, 2022, 91, 637-645.	1.1	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.	0.5	10
80	Infrared biospectroscopy for a fast qualitative evaluation of sample preparation in metabolomics. Talanta, 2014, 127, 181-190.	2.9	9
81	Biomarkers of oxidative stress derived damage to proteins and DNA in human breast milk. Analytica Chimica Acta, 2018, 1016, 78-85.	2.6	9
82	The Relationship between Oxidative Stress, Intermittent Hypoxemia, and Hospital Duration in Moderate Preterm Infants. Neonatology, 2020, 117, 577-583.	0.9	9
83	Noninvasive monitoring of evolving urinary metabolic patterns in neonatal encephalopathy. Pediatric Research, 2022, 91, 598-605.	1.1	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.	2.2	8
86	Toward Rapid Screening of Liver Grafts at the Operating Room Using Mid-infrared Spectroscopy. Analytical Chemistry, 2020, 92, 14542-14549.	3.2	8
87	Oxidative stress biomarkers in the preterm infant. Advances in Clinical Chemistry, 2021, 102, 127-189.	1.8	8
88	The effect of Holder pasteurization on the lipid and metabolite composition of human milk. Food Chemistry, 2022, 384, 132581.	4.2	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.	1.2	7
90	An infrared spectroscopic tool for process monitoring: Sugar contents during the production of a depilatory formulation. Talanta, 2012, 99, 660-667.	2.9	7

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91	Oxygen in the delivery room. Early Human Development, 2013, 89, S11-S13.	0.8	7
92	Mass spectrometric detection of biomarkers for early assessment of intraamniotic fluid infection. Data in Brief, 2015, 5, 1026-1030.	0.5	7
93	Data Quality Assessment in Untargeted LC-MS Metabolomics. Comprehensive Analytical Chemistry, 2018, 82, 137-164.	0.7	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.	2.2	6
95	Extracting consistent biological information from functional results of metabolomic pathway analysis using the Mantel's test. Analytica Chimica Acta, 2021, 1187, 339173.	2.6	6
96	Science based calibration for the extraction of â€˜analyte-specificâ€™ HPLC-DAD chromatograms in environmental analysis. Talanta, 2011, 83, 1158-1165.	2.9	5
97	Direct Derivatization in Dried Blood Spots for Oxidized and Reduced Glutathione Quantification in Newborns. Antioxidants, 2022, 11, 1165.	2.2	4
98	Determination of biomarkers of protein oxidation in tissue and plasma. Free Radical Biology and Medicine, 2014, 75, S51.	1.3	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.	1.7	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.	1.0	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.	1.3	3
103	Liquid Chromatographyâ€"Liquid Chromatographyâ€"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.	2.2	2
105	Brain Oxygen Perfusion and Oxidative Stress Biomarkers in Fetuses with Congenital Heart Diseaseâ€"A Retrospective, Case-Control Pilot Study. Antioxidants, 2022, 11, 299.	2.2	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.	2.2	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