# Julia Kuligowski

List of Publications by Year
in descending order



| 109 | 2,685 | 218381 | 243296 |
|---|---|---|---|
| papers | citations | 26 h-index | 44 g-index |

| 109 | 109 | 109 | 3732 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Transcriptome profiles discriminate between Gram-positive and Gram-negative sepsis in preterm neonates. Pediatric Research, 2022, 91, 637-645. | 1.1 | 10 |
| 2 | Noninvasive monitoring of evolving urinary metabolic patterns in neonatal encephalopathy. Pediatric Research, 2022, 91, 598-605. | 1.1 | 9 |
| 3 | 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 |
| 4 | 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 |
| 5 | The effect of Holder pasteurization on the lipid and metabolite composition of human milk. Food Chemistry, 2022, 384, 132581. | 4.2 | 8 |
| 6 | 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 |
| 7 | Direct Derivatization in Dried Blood Spots for Oxidized and Reduced Glutathione Quantification in Newborns. Antioxidants, 2022, 11, 1165. | 2.2 | 4 |
| 8 | Metabolomics, Oxidative, and Nitrosative Stress in the Perinatal Period. Antioxidants, 2022, 11, 1357. | 2.2 | 1 |
| 9 | Feeding the preterm infant: an overview of the evidence. International Journal of Food Sciences and Nutrition, 2021, 72, 4-13. | 1.3 | 10 |
| 10 | 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 |
| 11 | Oxidative stress biomarkers in the preterm infant. Advances in Clinical Chemistry, 2021, 102, 127-189. | 1.8 | 8 |
| 12 | Effect of donor human milk on host-gut microbiota and metabolic interactions in preterm infants. Clinical Nutrition, 2021, 40, 1296-1309. | 2.3 | 23 |
| 13 | 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 |
| 14 | 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 |
| 15 | A Reductive Metabolic Switch Protects Infants with Transposition of Great Arteries Undergoing Atrial Septostomy against Oxidative Stress. Antioxidants, 2021, 10, 1502. | 2.2 | 2 |
| 16 | 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 |
| 17 | ATR-FTIR spectroscopy for the routine quality control of exosome isolations. Chemometrics and Intelligent Laboratory Systems, 2021, 217, 104401. | 1.8 | 11 |
| 18 | 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 |

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|---|---|---|---|
| 19 | 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 |
| 20 | Biomonitoring of parabens in human milk and estimated daily intake for breastfed infants. Chemosphere, 2020, 240, 124829. | 4.2 | 32 |
| 21 | Toward Rapid Screening of Liver Grafts at the Operating Room Using Mid-infrared Spectroscopy. Analytical Chemistry, 2020, 92, 14542-14549. | 3.2 | 8 |
| 22 | The Relationship between Oxidative Stress, Intermittent Hypoxemia, and Hospital Duration in Moderate Preterm Infants. Neonatology, 2020, 117, 577-583. | 0.9 | 9 |
| 23 | Metabolic Phenotypes of Hypoxic-Ischemic Encephalopathy with Normal vs. Pathologic Magnetic Resonance Imaging Outcomes. Metabolites, 2020, 10, 109. | 1.3 | 14 |
| 24 | Small molecule biomarkers for neonatal hypoxic ischemic encephalopathy. Seminars in Fetal and Neonatal Medicine, 2020, 25, 101084. | 1.1 | 11 |
| 25 | Comparing Targeted vs. Untargeted MS2 Data-Dependent Acquisition for Peak Annotation in LCâ€“MS Metabolomics. Metabolites, 2020, 10, 126. | 1.3 | 29 |
| 26 | Current Practice in Untargeted Human Milk Metabolomics. Metabolites, 2020, 10, 43. | 1.3 | 21 |
| 27 | Monitoring of system conditioning after blank injections in untargeted UPLC-MS metabolomic analysis. Scientific Reports, 2019, 9, 9822. | 1.6 | 26 |
| 28 | Does Pasteurized Donor Human Milk Efficiently Protect Preterm Infants Against Oxidative Stress?. Antioxidants and Redox Signaling, 2019, 31, 791-799. | 2.5 | 11 |
| 29 | 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 |
| 30 | Protein Oxidation Biomarkers and Myeloperoxidase Activation in Cerebrospinal Fluid in Childhood Bacterial Meningitis. Antioxidants, 2019, 8, 441. | 2.2 | 8 |
| 31 | Topiramate plus Cooling for Hypoxic-Ischemic Encephalopathy: A Randomized, Controlled, Multicenter, Double-Blinded Trial. Neonatology, 2019, 116, 76-84. | 0.9 | 31 |
| 32 | Adrenic acid non-enzymatic peroxidation products in biofluids of moderate preterm infants. Free Radical Biology and Medicine, 2019, 142, 107-112. | 1.3 | 10 |
| 33 | 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 |
| 34 | 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 |
| 35 | Fast quantification of bovine milk proteins employing external cavity-quantum cascade laser spectroscopy. Food Chemistry, 2018, 252, 22-27. | 4.2 | 19 |
| 36 | Biomarkers of oxidative stress derived damage to proteins and DNA in human breast milk. Analytica Chimica Acta, 2018, 1016, 78-85. | 2.6 | 9 |

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|---|---|---|---|
| 37 | 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 |
| 38 | Evaluation of batch effect elimination using quality control replicates in LC-MS metabolite profiling. Analytica Chimica Acta, 2018, 1019, 38-48. | 2.6 | 42 |
| 39 | Liquid Chromatographyâ€"Liquid Chromatographyâ€"Fourier Transform Infrared. , 2018, , 75-75. | | 2 |
| 40 | 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 |
| 41 | On-Capillary Surface-Enhanced Raman Spectroscopy: Determination of Glutathione in Whole Blood Microsamples. Analytical Chemistry, 2018, 90, 9093-9100. | 3.2 | 40 |
| 42 | Assessment of discriminant models in infrared imaging using constrained repeated random sampling â€" Cross validation. Analytica Chimica Acta, 2018, 1033, 156-164. | 2.6 | 17 |
| 43 | Data Quality Assessment in Untargeted LC-MS Metabolomics. Comprehensive Analytical Chemistry, 2018, 82, 137-164. | 0.7 | 6 |
| 44 | Assessment of phospholipid synthesis related biomarkers for perinatal asphyxia: a piglet study. Scientific Reports, 2017, 7, 40315. | 1.6 | 16 |
| 45 | External cavity-quantum cascade laser (EC-QCL) spectroscopy for protein analysis in bovine milk. Analytica Chimica Acta, 2017, 963, 99-105. | 2.6 | 22 |
| 46 | Plasma metabolite score correlates with Hypoxia time in a newly born piglet model for asphyxia. Redox Biology, 2017, 12, 1-7. | 3.9 | 25 |
| 47 | Oxygen and oxidative stress in the perinatal period. Redox Biology, 2017, 12, 674-681. | 3.9 | 170 |
| 48 | Novel free-radical mediated lipid peroxidation biomarkers in newborn plasma. Analytica Chimica Acta, 2017, 996, 88-97. | 2.6 | 30 |
| 49 | Advanced IR and Raman detectors for identification and quantification. , 2017, , 463-477. | | 3 |
| 50 | Evolution of Energy Related Metabolites in Plasma from Newborns with Hypoxic-Ischemic Encephalopathy during Hypothermia Treatment. Scientific Reports, 2017, 7, 17039. | 1.6 | 24 |
| 51 | Oxygen Supplementation to Stabilize Preterm Infants in the Fetal to Neonatal Transition: No Satisfactory Answer. Frontiers in Pediatrics, 2016, 4, 29. | 0.9 | 24 |
| 52 | Metabolomic Analysis of Gastric Cancer Progression within the Correaâ€™s Cascade Using Ultraperformance Liquid Chromatographyâ€"Mass Spectrometry. Journal of Proteome Research, 2016, 15, 2729-2738. | 1.8 | 32 |
| 53 | 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 |
| 54 | 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 |

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|---|---|---|---|
| 55 | 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 |
| 56 | Development of a reliable analytical method to determine lipid peroxidation biomarkers in newborn plasma samples. Talanta, 2016, 153, 152-157. | 2.9 | 18 |
| 57 | 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 |
| 58 | Application of Discriminant Analysis and Cross-Validation on Proteomics Data. Methods in Molecular Biology, 2016, 1362, 175-184. | 0.4 | 14 |
| 59 | Mass spectrometric detection of biomarkers for early assessment of intraamniotic fluid infection. Data in Brief, 2015, 5, 1026-1030. | 0.5 | 7 |
| 60 | Role of human milk in oxidative stress associated with prematurity. Journal of Pediatric Biochemistry, 2015, 03, 169-177. | 0.2 | 1 |
| 61 | 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 |
| 62 | Analysis of multi-source metabolomic data using joint and individual variation explained (JIVE). Analyst, The, 2015, 140, 4521-4529. | 1.7 | 21 |
| 63 | 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 |
| 64 | Novel biomarkers in amniotic fluid for early assessment of intraamniotic infection. Free Radical Biology and Medicine, 2015, 89, 734-740. | 1.3 | 20 |
| 65 | 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 |
| 66 | <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. | 1.6 | 16 |
| 67 | Assessment of the statistical significance of classifications in infrared spectroscopy based diagnostic models. Analyst, The, 2015, 140, 2422-2427. | 1.7 | 19 |
| 68 | Oxygen for the resuscitation of newborn infants. Journal of Pediatric Biochemistry, 2015, 03, 155-159. | 0.2 | 0 |
| 69 | 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 |
| 70 | Determination of biomarkers of protein oxidation in tissue and plasma. Free Radical Biology and Medicine, 2014, 75, S51. | 1.3 | 3 |
| 71 | 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 |
| 72 | High performance liquid chromatography with mid-infrared detection based on a broadly tunable quantum cascade laser. Analyst, The, 2014, 139, 2057. | 1.7 | 24 |

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| 73 | Detection of batch effects in liquid chromatography-mass spectrometry metabolomic data using guided principal component analysis. Talanta, 2014, 130, 442-448. | 2.9 | 27 |
| 74 | Infrared biospectroscopy for a fast qualitative evaluation of sample preparation in metabolomics. Talanta, 2014, 127, 181-190. | 2.9 | 9 |
| 75 | Use of Oxygen in the Resuscitation of Neonates. Oxidative Stress in Applied Basic Research and Clinical Practice, 2014, , 213-243. | 0.4 | 9 |
| 76 | 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 |
| 77 | Advanced Spectroscopic Detectors for Identification and Quantification. , 2013, , 333-347. | | 0 |
| 78 | Oxygen in the delivery room. Early Human Development, 2013, 89, S11-S13. | 0.8 | 7 |
| 79 | Evaluation of the effect of chance correlations on variable selection using Partial Least Squares-Discriminant Analysis. Talanta, 2013, 116, 835-840. | 2.9 | 21 |
| 80 | 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 |
| 81 | Modified locally weightedâ€"Partial least squares regression improving clinical predictions from infrared spectra of human serum samples. Talanta, 2013, 107, 368-375. | 2.9 | 30 |
| 82 | Improving the performance of hollow waveguide-based infrared gas sensors via tailored chemometrics. Analytical and Bioanalytical Chemistry, 2013, 405, 8223-8232. | 1.9 | 10 |
| 83 | Atmospheric Compensation in Fourier Transform Infrared (FT-IR) Spectra of Clinical Samples. Applied Spectroscopy, 2013, 67, 1339-1342. | 1.2 | 11 |
| 84 | 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 |
| 85 | 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 |
| 86 | An infrared spectroscopic tool for process monitoring: Sugar contents during the production of a depilatory formulation. Talanta, 2012, 99, 660-667. | 2.9 | 7 |
| 87 | 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 |
| 88 | Background Correction and Multivariate Curve Resolution of Online Liquid Chromatography with Infrared Spectrometric Detection. Analytical Chemistry, 2011, 83, 4855-4862. | 3.2 | 39 |
| 89 | Science based calibration for the extraction of â€˜analyte-specificâ€™ HPLC-DAD chromatograms in environmental analysis. Talanta, 2011, 83, 1158-1165. | 2.9 | 5 |
| 90 | 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 |

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|---|---|---|---|
| 91 | 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 |
| 92 | 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 |
| 93 | Direct determination of polymerized triglycerides in deep-frying olive oil by attenuated total reflectanceâ€“Fourier transform infrared spectroscopy using partial least squares regression. Analytical and Bioanalytical Chemistry, 2010, 397, 861-869. | 1.9 | 16 |
| 94 | 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 |
| 95 | High performance liquid chromatography with on-line dual quantum cascade laser detection for the determination ofÂcarbohydrates, alcohols and organic acids in wine and grape juice. Applied Physics B: Lasers and Optics, 2010, 99, 833-840. | 1.1 | 23 |
| 96 | Recent advances in on-line liquid chromatography - infrared spectrometry (LC-IR). TrAC - Trends in Analytical Chemistry, 2010, 29, 544-552. | 5.8 | 27 |
| 97 | Analytical potential of mid-infrared detection in capillary electrophoresis and liquid chromatography: A review. Analytica Chimica Acta, 2010, 679, 31-42. | 2.6 | 39 |
| 98 | Cubic smoothing splines background correction in on-line liquid chromatographyâ€“Fourier transform infrared spectrometry. Journal of Chromatography A, 2010, 1217, 6733-6741. | 1.8 | 12 |
| 99 | 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. | 2.9 | 15 |
| 100 | Chemometric extraction of analyteâ€specific chromatograms in onâ€line gradient LCâ€infrared spectrometry. Journal of Separation Science, 2009, 32, 4089-4095. | 1.3 | 13 |
| 101 | New background correction approach based on polynomial regressions for on-line liquid chromatographyâ€“Fourier transform infrared spectrometry. Journal of Chromatography A, 2009, 1216, 3122-3130. | 1.8 | 26 |
| 102 | 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 |
| 103 | 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 |
| 104 | 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 |
| 105 | Determination of glycolic acid in cosmetics by online liquid chromatographyâ€“Fourier transform infrared spectrometry. Analytical and Bioanalytical Chemistry, 2008, 392, 1383-1389. | 1.9 | 12 |
| 106 | Determination of critical eluent composition for polyethylenglycols using on-line liquid chromatographyâ€”Fourier transform infrared spectrometry. Analytica Chimica Acta, 2008, 624, 278-285. | 2.6 | 17 |
| 107 | On-line gel permeation chromatographyâ€“attenuated total reflectanceâ€“Fourier transform infrared determination of lecithin and soybean oil in dietary supplements. Journal of Chromatography A, 2008, 1185, 71-77. | 1.8 | 35 |
| 108 | Determination of lecithin and soybean oil in dietary supplements using partial least squaresâ€“Fourier transform infrared spectroscopy. Talanta, 2008, 77, 229-234. | 2.9 | 31 |

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| 109 | On-line gradient liquid chromatographyâ€“Fourier transform infrared spectrometry determination of sugars in beverages using chemometric background correction. Talanta, 2008, 77, 779-785. | 2.9 | 20 |