

Trine GrÃ¸nhaug Halvorsen

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

1,824
citations

236612

25
h-index

276539

41
g-index

67
all docs

67
docs citations

67
times ranked

1487
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | On the spot immunocapture in targeted biomarker analysis using paper-bound streptavidin as anchor for biotinylated antibodies. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 5979-5989. | 1.9 | 2 |
| 2 | Next generation VAMS® "Trypsin immobilization for instant proteolysis in bottom-up protein determination. <i>Advances in Sample Preparation</i> , 2022, 3, 100027. | 1.1 | 4 |
| 3 | Matrix-assisted ionization mass spectrometry in targeted protein analysis " An initial evaluation. <i>Rapid Communications in Mass Spectrometry</i> , 2021, 35, e8437. | 0.7 | 8 |
| 4 | Electromembrane extraction of peptides and amino acids " status and perspectives. <i>Bioanalysis</i> , 2021, 13, 277-289. | 0.6 | 11 |
| 5 | Next-Generation Dried Blood Spot Samplers for Protein Analysis: Describing Trypsin-Modified Smart Sampling Paper. <i>Separations</i> , 2021, 8, 66. | 1.1 | 6 |
| 6 | Electromembrane extraction of peptides using deep eutectic solvents as liquid membrane. <i>Analytica Chimica Acta</i> , 2021, 1175, 338717. | 2.6 | 20 |
| 7 | On-line duplex molecularly imprinted solid-phase extraction for analysis of low-abundant biomarkers in human serum by liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2021, 1655, 462490. | 1.8 | 10 |
| 8 | Affinity capture in bottom-up protein analysis " Overview of current status of proteolytic peptide capture using antibodies and molecularly imprinted polymers. <i>Analytica Chimica Acta</i> , 2021, 1182, 338714. | 2.6 | 11 |
| 9 | Matrix-Assisted Ionization and Tandem Mass Spectrometry Capabilities in Protein Biomarker Characterization " An Initial Study Using the Small Cell Lung Cancer Biomarker Progastrin Releasing Peptide as a Model Compound. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 611-614. | 1.2 | 2 |
| 10 | Pre-lab proteolysis for dried serum spots " a paper-based sampling concept targeting low abundant biomarkers. <i>Analytical Methods</i> , 2020, 12, 97-103. | 1.3 | 9 |
| 11 | Facilitating serum determination of neuron specific enolase at clinically relevant levels by coupling on-line molecularly imprinted solid-phase extraction to LC-MS/MS. <i>Analytica Chimica Acta</i> , 2020, 1140, 210-218. | 2.6 | 14 |
| 12 | Liquid chromatography mass spectrometry based characterization of epitope configurations. <i>Analytical Methods</i> , 2020, 12, 5476-5484. | 1.3 | 0 |
| 13 | Magnetic Synthetic Receptors for Selective Clean-Up in Protein Biomarker Quantification. <i>Journal of Proteome Research</i> , 2020, 19, 3573-3582. | 1.8 | 11 |
| 14 | Human chorionic gonadotropin determination using mass spectrometry. , 2020, , 123-138. | | 0 |
| 15 | All-in-one paper-based sampling chip for targeted protein analysis. <i>Analytica Chimica Acta</i> , 2019, 1089, 56-65. | 2.6 | 14 |
| 16 | Immunocapture sample clean-up in determination of low abundant protein biomarkers " a feasibility study of peptide capture by anti-protein antibodies. <i>RSC Advances</i> , 2019, 9, 34902-34911. | 1.7 | 11 |
| 17 | Paper-based immunocapture for targeted protein analysis. <i>Talanta</i> , 2019, 195, 764-770. | 2.9 | 12 |
| 18 | Determination of the low-abundant protein biomarker hCG from dried matrix spots using immunocapture and nano liquid chromatography mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2018, 1077-1078, 44-51. | 1.2 | 14 |

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|----|---|-----|-----------|
| 19 | Selective Fishing for Peptides with Antibody-Immobilized Acrylate Monoliths, Coupled Online with NanoLC-MS. <i>Analytical Chemistry</i> , 2018, 90, 13860-13866. | 3.2 | 25 |
| 20 | Smart blood spots for whole blood protein analysis. <i>Analyst, The</i> , 2018, 143, 3184-3190. | 1.7 | 14 |
| 21 | Volumetric absorptive MicroSampling vs. other blood sampling materials in LC-MS-based protein analysis – preliminary investigations. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018, 156, 239-246. | 1.4 | 19 |
| 22 | To elute or not to elute in immunocapture bottom-up LC-MS. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017, 1055-1056, 51-60. | 1.2 | 11 |
| 23 | Automated Protein Biomarker Analysis: on-line extraction of clinical samples by Molecularly Imprinted Polymers. <i>Scientific Reports</i> , 2017, 7, 44298. | 1.6 | 36 |
| 24 | Instant on-paper protein digestion during blood spot sampling. <i>Analyst, The</i> , 2017, 142, 3837-3847. | 1.7 | 16 |
| 25 | Antibody based affinity capture LC-MS/MS in quantitative determination of proteins in biological matrices. <i>TrAC - Trends in Analytical Chemistry</i> , 2017, 95, 132-139. | 5.8 | 15 |
| 26 | Exploring the peptide retention mechanism in molecularly imprinted polymers. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 5631-5643. | 1.9 | 13 |
| 27 | Expanding the knowledge on dried blood spots and LC-MS-based protein analysis: two different sampling materials and six protein targets. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 3383-3392. | 1.9 | 5 |
| 28 | Evaluation of affinity-based serum clean-up in mass spectrometric analysis: Plastic vs monoclonal antibodies. <i>Journal of Chromatography A</i> , 2016, 1471, 19-26. | 1.8 | 14 |
| 29 | Parallel artificial liquid membrane extraction as an efficient tool for removal of phospholipids from human plasma. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016, 129, 229-236. | 1.4 | 22 |
| 30 | Dual-immuno-MS technique for improved differentiation power in heterodimeric protein biomarker analysis: determination and differentiation of human chorionic gonadotropin variants in serum. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 7379-7391. | 1.9 | 6 |
| 31 | Evaluation of water-soluble DBS for small proteins: a conceptual study using insulin as a model analyte. <i>Bioanalysis</i> , 2016, 8, 1051-1065. | 0.6 | 15 |
| 32 | Isolation and mass spectrometry analysis of urinary extraexosomal proteins. <i>Scientific Reports</i> , 2016, 6, 36331. | 1.6 | 42 |
| 33 | The pros and cons of increased trypsin-to-protein ratio in targeted protein analysis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016, 123, 155-161. | 1.4 | 7 |
| 34 | Involvement of covalent interactions in the mode of action of PPAR α antagonists. <i>RSC Advances</i> , 2015, 5, 76483-76490. | 1.7 | 4 |
| 35 | Synthesis, biological evaluation and molecular modeling studies of the PPAR α antagonist CC618. <i>European Journal of Medicinal Chemistry</i> , 2015, 94, 229-236. | 2.6 | 8 |
| 36 | Water-Soluble Dried Blood Spot in Protein Analysis: A Proof-of-Concept Study. <i>Analytical Chemistry</i> , 2015, 87, 7918-7924. | 3.2 | 22 |

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|----|--|-----|-----------|
| 37 | Antibody-Free Biomarker Determination: Exploring Molecularly Imprinted Polymers for Pro-Gastrin Releasing Peptide. <i>Analytical Chemistry</i> , 2014, 86, 12291-12298. | 3.2 | 53 |
| 38 | A pilot study showing differences in glycosylation patterns of IgG subclasses induced by pneumococcal, meningococcal, and two types of influenza vaccines. <i>Immunity, Inflammation and Disease</i> , 2014, 2, 76-91. | 1.3 | 31 |
| 39 | Epitope analysis and detection of human chorionic gonadotropin (hCG) variants by monoclonal antibodies and mass spectrometry. <i>Tumor Biology</i> , 2014, 35, 1013-1022. | 0.8 | 26 |
| 40 | Determining ProGRP and isoforms in lung and thyroid cancer patient samples: comparing an MS method with a routine clinical immunoassay. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 2733-2738. | 1.9 | 11 |
| 41 | Why less is more when generating tryptic peptides in bottom-up proteomics. <i>Proteomics</i> , 2014, 14, 2031-2041. | 1.3 | 33 |
| 42 | Multiplexing Determination of Small Cell Lung Cancer Biomarkers and Their Isovariants in Serum by Immunocapture LC-MS/MS. <i>Analytical Chemistry</i> , 2014, 86, 6983-6992. | 3.2 | 36 |
| 43 | Sports drug testing using immuno-MS: clinical study comprising administration of human chorionic gonadotropin to males. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 1569-1576. | 1.9 | 48 |
| 44 | Immunocapture and LC-MS/MS for selective quantification and differentiation of the isozymes of the biomarker neuron-specific enolase in serum. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2013, 929, 125-132. | 1.2 | 29 |
| 45 | Comparison of newly developed immuno-MS method with existing DELFIA [®] immunoassay for human chorionic gonadotropin determination in doping analysis. <i>Bioanalysis</i> , 2013, 5, 623-630. | 0.6 | 16 |
| 46 | Digging Deeper into the Field of the Small Cell Lung Cancer Tumor Marker ProGRP: A Method for Differentiation of Its Isoforms. <i>Journal of Proteome Research</i> , 2013, 12, 412-420. | 1.8 | 35 |
| 47 | New labdane diterpenes from <i>Solidago canadensis</i> . <i>Natural Product Research</i> , 2012, 26, 1348-1354. | 1.0 | 7 |
| 48 | Immuno-MS Based Targeted Proteomics: Highly Specific, Sensitive, and Reproducible Human Chorionic Gonadotropin Determination for Clinical Diagnostics and Doping Analysis. <i>Analytical Chemistry</i> , 2012, 84, 7926-7932. | 3.2 | 54 |
| 49 | Immuno-capture as ultimate sample cleanup in LC-MS/MS determination of the early stage biomarker ProGRP. <i>Journal of Separation Science</i> , 2009, 32, 2937-2943. | 1.3 | 31 |
| 50 | Rapid isolation of angiotensin peptides from plasma by electromembrane extraction. <i>Journal of Chromatography A</i> , 2009, 1216, 6900-6905. | 1.8 | 99 |
| 51 | Exploring the Complementary Selectivity of Immunocapture and MS Detection for the Differentiation between hCG Isoforms in Clinically Relevant Samples. <i>Journal of Proteome Research</i> , 2009, 8, 5241-5252. | 1.8 | 31 |
| 52 | Liquid-phase microextraction of basic drugs - Selection of extraction mode based on computer calculated solubility data. <i>Journal of Separation Science</i> , 2005, 28, 1195-1203. | 1.3 | 41 |
| 53 | Liquid-phase microextraction combined with liquid chromatography-mass spectrometry. Extraction from small volumes of biological samples. <i>Journal of Separation Science</i> , 2003, 26, 1520-1526. | 1.3 | 41 |
| 54 | Liquid-phase microextraction of hydrophilic drugs by carrier-mediated transport. <i>Journal of Chromatography A</i> , 2003, 998, 61-72. | 1.8 | 102 |

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|----|---|-----|-----------|
| 55 | Liquid-phase microextraction of drugs from human breast milk. <i>Analytica Chimica Acta</i> , 2003, 491, 155-161. | 2.6 | 69 |
| 56 | Stereospecific determination of citalopram and desmethylcitalopram by capillary electrophoresis and liquid-phase microextraction. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2003, 33, 263-273. | 1.4 | 87 |
| 57 | Liquid-phase microextraction combined with capillary electrophoresis, a promising tool for the determination of chiral drugs in biological matrices. <i>Journal of Chromatography A</i> , 2002, 963, 303-312. | 1.8 | 82 |
| 58 | Reduction of extraction times in liquid-phase microextraction. <i>Biomedical Applications</i> , 2001, 760, 219-226. | 1.7 | 70 |
| 59 | Liquid-phase microextraction combined with flow-injection tandem mass spectrometry Rapid screening of amphetamines from biological matrices. <i>Journal of Separation Science</i> , 2001, 24, 615-622. | 1.3 | 60 |
| 60 | Liquid-phase microextraction and capillary electrophoresis of citalopram, an antidepressant drug. <i>Journal of Chromatography A</i> , 2001, 909, 87-93. | 1.8 | 149 |
| 61 | Liquid-liquid extraction procedures for sample enrichment in capillary zone electrophoresis. <i>Journal of Chromatography A</i> , 2000, 902, 91-105. | 1.8 | 119 |
| 62 | Smart proteolysis samplers for pre-lab bottom-up protein analysis – Performance of on-paper digestion compared to conventional digestion. <i>Separation Science Plus</i> , 0, , . | 0.3 | 7 |