

Jeroen Kool

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2399934/publications.pdf>

Version: 2024-02-01

94
papers

2,830
citations

186209

28
h-index

214721

47
g-index

109
all docs

109
docs citations

109
times ranked

2866
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Effect-directed analysis supporting monitoring of aquatic environments – An in-depth overview. <i>Science of the Total Environment</i> , 2016, 544, 1073-1118. | 3.9 | 288 |
| 2 | Haemotoxic snake venoms: their functional activity, impact on snakebite victims and pharmaceutical promise. <i>British Journal of Haematology</i> , 2017, 177, 947-959. | 1.2 | 173 |
| 3 | Multifunctional Toxins in Snake Venoms and Therapeutic Implications: From Pain to Hemorrhage and Necrosis. <i>Frontiers in Ecology and Evolution</i> , 2019, 7, . | 1.1 | 134 |
| 4 | The paraspecific neutralisation of snake venom induced coagulopathy by antivenoms. <i>Communications Biology</i> , 2018, 1, 34. | 2.0 | 89 |
| 5 | A therapeutic combination of two small molecule toxin inhibitors provides broad preclinical efficacy against viper snakebite. <i>Nature Communications</i> , 2020, 11, 6094. | 5.8 | 83 |
| 6 | Recent developments in protein–ligand affinity mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 2669-2681. | 1.9 | 82 |
| 7 | Snake Venom Gland Organoids. <i>Cell</i> , 2020, 180, 233-247.e21. | 13.5 | 77 |
| 8 | Bisphenol A alternatives in thermal paper from the Netherlands, Spain, Sweden and Norway. Screening and potential toxicity. <i>Science of the Total Environment</i> , 2017, 601-602, 210-221. | 3.9 | 70 |
| 9 | Preclinical validation of a repurposed metal chelator as an early-intervention therapeutic for hemotoxic snakebite. <i>Science Translational Medicine</i> , 2020, 12, . | 5.8 | 66 |
| 10 | Advances in mass spectrometry-based post-column bioaffinity profiling of mixtures. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 2655-2668. | 1.9 | 63 |
| 11 | Identification of mutagenic and endocrine disrupting compounds in surface water and wastewater treatment plant effluents using high-resolution effect-directed analysis. <i>Water Research</i> , 2020, 168, 115204. | 5.3 | 57 |
| 12 | Identification of Photosynthesis Inhibitors of Pelagic Marine Algae Using 96-Well Plate Microfractionation for Enhanced Throughput in Effect-Directed Analysis. <i>Environmental Science & Technology</i> , 2014, 48, 8003-8011. | 4.6 | 50 |
| 13 | High-Throughput Effect-Directed Analysis Using Downscaled in Vitro Reporter Gene Assays To Identify Endocrine Disruptors in Surface Water. <i>Environmental Science & Technology</i> , 2018, 52, 4367-4377. | 4.6 | 49 |
| 14 | A high-throughput sample preparation method for cellular proteomics using 96-well filter plates. <i>Proteomics</i> , 2013, 13, 2980-2983. | 1.3 | 48 |
| 15 | Microfractionation Revisited: A 1536 Well High Resolution Screening Assay. <i>Analytical Chemistry</i> , 2009, 81, 5460-5466. | 3.2 | 45 |
| 16 | Online screening of acetylcholinesterase inhibitors in natural products using monolith-based immobilized capillary enzyme reactors combined with liquid chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2018, 1563, 135-143. | 1.8 | 45 |
| 17 | Studying protein–protein affinity and immobilized ligand–protein affinity interactions using MS-based methods. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 1109-1125. | 1.9 | 44 |
| 18 | Analysis of glutathione adducts of patulin by means of liquid chromatography (HPLC) with biochemical detection (BCD) and electrospray ionization tandem mass spectrometry (ESI-MS/MS). <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 1361-1373. | 1.9 | 42 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Multipurpose HTS Coagulation Analysis: Assay Development and Assessment of Coagulopathic Snake Venoms. <i>Toxins</i> , 2017, 9, 382. | 1.5 | 42 |
| 20 | Solenodon genome reveals convergent evolution of venom in eulipotyphlan mammals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 25745-25755. | 3.3 | 42 |
| 21 | Determination and identification of estrogenic compounds generated with biosynthetic enzymes using hyphenated screening assays, high resolution mass spectrometry and off-line NMR. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2010, 878, 667-674. | 1.2 | 38 |
| 22 | Rapid On-line Profiling of Estrogen Receptor Binding Metabolites of Tamoxifen. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 3287-3292. | 2.9 | 37 |
| 23 | Development of a microfluidic confocal fluorescence detection system for the hyphenation of nano-LC to on-line biochemical assays. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 3023-3032. | 1.9 | 36 |
| 24 | Online Fluorescence Enhancement Assay for the Acetylcholine Binding Protein with Parallel Mass Spectrometric Identification. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 4720-4730. | 2.9 | 36 |
| 25 | A Decoy-Receptor Approach Using Nicotinic Acetylcholine Receptor Mimics Reveals Their Potential as Novel Therapeutics Against Neurotoxic Snakebite. <i>Frontiers in Pharmacology</i> , 2019, 10, 848. | 1.6 | 33 |
| 26 | High throughput screening and identification of coagulopathic snake venom proteins and peptides using nanofractionation and proteomics approaches. <i>PLoS Neglected Tropical Diseases</i> , 2020, 14, e0007802. | 1.3 | 33 |
| 27 | Development of an online p38 β mitogen-activated protein kinase binding assay and integration of LC-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 1771-1780. | 1.9 | 32 |
| 28 | Online magnetic bead based dynamic protein affinity selection coupled to LC-MS for the screening of acetylcholine binding protein ligands. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2011, 879, 1781-1788. | 1.2 | 31 |
| 29 | Drug Discovery on Natural Products: From Ion Channels to nAChRs, from Nature to Libraries, from Analytics to Assays. <i>SLAS Discovery</i> , 2019, 24, 362-385. | 1.4 | 29 |
| 30 | High-Resolution Fractionation after Gas Chromatography for Effect-Directed Analysis. <i>Analytical Chemistry</i> , 2013, 85, 8204-8211. | 3.2 | 28 |
| 31 | Neutralizing Effects of Small Molecule Inhibitors and Metal Chelators on Coagulopathic Viperinae Snake Venom Toxins. <i>Biomedicines</i> , 2020, 8, 297. | 1.4 | 28 |
| 32 | Production and on-line acetylcholinesterase bioactivity profiling of chemical and biological degradation products of tacrine. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2010, 53, 609-616. | 1.4 | 27 |
| 33 | Rapid activity-directed screening of estrogens by parallel coupling of liquid chromatography with a functional gene reporter assay and mass spectrometry. <i>Journal of Chromatography A</i> , 2015, 1406, 165-174. | 1.8 | 27 |
| 34 | Varespladib Inhibits the Phospholipase A2 and Coagulopathic Activities of Venom Components from Hemotoxic Snakes. <i>Biomedicines</i> , 2020, 8, 165. | 1.4 | 27 |
| 35 | Development of a Countergradient Parking System for Gradient Liquid Chromatography with Online Biochemical Detection of Serine Protease Inhibitors. <i>Analytical Chemistry</i> , 2008, 80, 6764-6772. | 3.2 | 26 |
| 36 | Nanofractionation Spotter Technology for Rapid Contactless and High-Resolution Deposition of LC Eluent for Further Off-Line Analysis. <i>Analytical Chemistry</i> , 2011, 83, 125-132. | 3.2 | 24 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | At-line nanofractionation with parallel mass spectrometry and bioactivity assessment for the rapid screening of thrombin and factor Xa inhibitors in snake venoms. <i>Toxicon</i> , 2016, 110, 79-89. | 0.8 | 23 |
| 38 | Affinity profiling of monoclonal antibody and antibody-drug-conjugate preparations by coupled liquid chromatography-surface plasmon resonance biosensing. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 7837-7848. | 1.9 | 23 |
| 39 | Neurotoxicity fingerprinting of venoms using on-line microfluidic AChBP profiling. <i>Toxicon</i> , 2018, 148, 213-222. | 0.8 | 23 |
| 40 | An efficient analytical platform for on-line microfluidic profiling of neuroactive snake venoms towards nicotinic receptor affinity. <i>Toxicon</i> , 2013, 61, 112-124. | 0.8 | 22 |
| 41 | Online Biochemical Detection of Glutathione-S-Transferase P1-Specific Inhibitors in Complex Mixtures. <i>Journal of Biomolecular Screening</i> , 2007, 12, 396-405. | 2.6 | 21 |
| 42 | Adduct-ion formation in trapped ion mobility spectrometry as a potential tool for studying molecular structures and conformations. <i>International Journal for Ion Mobility Spectrometry</i> , 2018, 21, 19-32. | 1.4 | 21 |
| 43 | Rapid screening and identification of ACE inhibitors in snake venoms using at-line nanofractionation LC-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 5987-5997. | 1.9 | 20 |
| 44 | Whole snake venoms: Cytotoxic, anti-metastatic and antiangiogenic properties. <i>Toxicon</i> , 2018, 150, 39-49. | 0.8 | 20 |
| 45 | Neutralising effects of small molecule toxin inhibitors on nanofractionated coagulopathic Crotalinae snake venoms. <i>Acta Pharmaceutica Sinica B</i> , 2020, 10, 1835-1845. | 5.7 | 19 |
| 46 | Antivenom Neutralization of Coagulopathic Snake Venom Toxins Assessed by Bioactivity Profiling Using Nanofractionation Analytics. <i>Toxins</i> , 2020, 12, 53. | 1.5 | 19 |
| 47 | Analytical strategies in venomics. <i>Microchemical Journal</i> , 2022, 175, 107187. | 2.3 | 19 |
| 48 | Reversed-phase liquid chromatography coupled on-line to estrogen receptor bioaffinity detection based on fluorescence polarization. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 390, 1987-1998. | 1.9 | 18 |
| 49 | High-Resolution Bioactivity Profiling of Mixtures toward the Acetylcholine Binding Protein Using a Nanofractionation Spotter Technology. <i>Journal of Biomolecular Screening</i> , 2011, 16, 917-924. | 2.6 | 18 |
| 50 | High Throughput Screening Methodologies Classified for Major Drug Target Classes According to Target Signaling Pathways. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2010, 13, 548-561. | 0.6 | 17 |
| 51 | On-line electrochemistryâ€bioaffinity screening with parallel HR-LC-MS for the generation and characterization of modified p38Î± kinase inhibitors. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 367-375. | 1.9 | 17 |
| 52 | Highly Selective Screening of Estrogenic Compounds in Consumer-Electronics Plastics by Liquid Chromatography in Parallel Combined with Nanofractionation-Bioactivity Detection and Mass Spectrometry. <i>Environmental Science & Technology</i> , 2016, 50, 12385-12393. | 4.6 | 17 |
| 53 | Screening of proteinâ€ligand interactions using dynamic protein-affinity chromatography solid-phase extractionâ€liquid chromatographyâ€mass spectrometry. <i>Journal of Chromatography A</i> , 2008, 1205, 71-77. | 1.8 | 16 |
| 54 | Analytical workflow for rapid screening and purification of bioactives from venom proteomes. <i>Toxicon</i> , 2013, 76, 270-281. | 0.8 | 16 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Miniaturized Bioaffinity Assessment Coupled to Mass Spectrometry for Guided Purification of Bioactives from Toad and Cone Snail. <i>Biology</i> , 2014, 3, 139-156. | 1.3 | 16 |
| 56 | Rapid ligand fishing for identification of acetylcholinesterase-binding peptides in snake venom reveals new properties of dendrotoxins. <i>Toxicon</i> , 2018, 152, 1-8. | 0.8 | 16 |
| 57 | Liquid chromatographic nanofractionation with parallel mass spectrometric detection for the screening of plasmin inhibitors and (metallo)proteinases in snake venoms. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 5751-5763. | 1.9 | 16 |
| 58 | Anticoagulant Activity of <i>Naja nigricollis</i> Venom Is Mediated by Phospholipase A2 Toxins and Inhibited by Varespladib. <i>Toxins</i> , 2021, 13, 302. | 1.5 | 16 |
| 59 | An on-line post-column detection system for the detection of reactive-oxygen-species-producing compounds and antioxidants in mixtures. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 388, 871-879. | 1.9 | 15 |
| 60 | Cytochrome P450 bio-affinity detection coupled to gradient HPLC: On-line screening of affinities to cytochrome P4501A2 and 2D6. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2007, 858, 49-58. | 1.2 | 14 |
| 61 | Development of a surface plasmon resonance sensor for coupling to capillary electrophoresis allowing affinity assessment of protein mixture components. <i>Sensors and Actuators B: Chemical</i> , 2018, 254, 1040-1047. | 4.0 | 14 |
| 62 | Combination of biotransformation by P450 BM3 mutants with on-line post-column bioaffinity and mass spectrometric profiling as a novel strategy to diversify and characterize p38 β kinase inhibitors. <i>MedChemComm</i> , 2013, 4, 371-377. | 3.5 | 13 |
| 63 | Improved androgen specificity of AR-EcoScreen by CRISPR based glucocorticoid receptor knockout. <i>Toxicology in Vitro</i> , 2017, 45, 1-9. | 1.1 | 13 |
| 64 | Development of a high-throughput bioassay for screening of antibiotics in aquatic environmental samples. <i>Science of the Total Environment</i> , 2020, 729, 139028. | 3.9 | 13 |
| 65 | At-Line Cellular Screening Methodology for Bioactives in Mixtures Targeting the α 7-Nicotinic Acetylcholine Receptor. <i>Journal of Biomolecular Screening</i> , 2016, 21, 459-467. | 2.6 | 12 |
| 66 | Microfluidic Chip-Based Online Screening Coupled to Mass Spectrometry. <i>Journal of Biomolecular Screening</i> , 2016, 21, 212-220. | 2.6 | 12 |
| 67 | In vitro and in vivo preclinical venom inhibition assays identify metalloproteinase inhibiting drugs as potential future treatments for snakebite envenoming by <i>Dispholidus typus</i> . <i>Toxicon: X</i> , 2022, 14, 100118. | 1.2 | 12 |
| 68 | Development of a Profiling Strategy for Metabolic Mixtures by Combining Chromatography and Mass Spectrometry with Cell-Based GPCR Signaling. <i>Journal of Biomolecular Screening</i> , 2012, 17, 1329-1338. | 2.6 | 11 |
| 69 | Continuous fraction collection of gas chromatographic separations with parallel mass spectrometric detection applied to cell-based bioactivity analysis. <i>Talanta</i> , 2017, 168, 162-167. | 2.9 | 11 |
| 70 | Terrestrial venomous animals, the envenomings they cause, and treatment perspectives in the Middle East and North Africa. <i>PLoS Neglected Tropical Diseases</i> , 2021, 15, e0009880. | 1.3 | 11 |
| 71 | Bioactivity Profiling of Small-Volume Samples by Nano Liquid Chromatography Coupled to Microarray Bioassaying Using High-Resolution Fractionation. <i>Analytical Chemistry</i> , 2019, 91, 10458-10466. | 3.2 | 10 |
| 72 | Development of high-throughput screening assays for profiling snake venom phospholipase A2 activity after chromatographic fractionation. <i>Toxicon</i> , 2020, 184, 28-38. | 0.8 | 10 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | Rapid Screening $\hat{\pm}$ -Glucosidase Inhibitors from Natural Products by At-Line Nanofractionation with Parallel Mass Spectrometry and Bioactivity Assessment. <i>Journal of Chromatography A</i> , 2021, 1635, 461740. | 1.8 | 10 |
| 74 | At-line coupling of LC $\hat{\pm}$ MS to bioaffinity and selectivity assessment for metabolic profiling of ligands towards chemokine receptors CXCR1 and CXCR2. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2015, 1002, 42-53. | 1.2 | 9 |
| 75 | Development of a luminescent mutagenicity test for high-throughput screening of aquatic samples. <i>Toxicology in Vitro</i> , 2018, 46, 350-360. | 1.1 | 8 |
| 76 | Compound Identification Using Liquid Chromatography and High-Resolution Noncontact Fraction Collection with a Solenoid Valve. <i>SLAS Technology</i> , 2019, 24, 543-555. | 1.0 | 8 |
| 77 | A Flow-Through Fluorescence Polarization Detection System for Measuring GPCR-Mediated Modulation of cAMP Production. <i>Journal of Biomolecular Screening</i> , 2007, 12, 1074-1083. | 2.6 | 7 |
| 78 | Gas chromatography fractionation platform featuring parallel flame-ionization detection and continuous high-resolution analyte collection in 384-well plates. <i>Journal of Chromatography A</i> , 2016, 1462, 100-106. | 1.8 | 7 |
| 79 | Detection and identification of antibacterial proteins in snake venoms using at-line nanofractionation coupled to LC-MS. <i>Toxicon</i> , 2018, 155, 66-74. | 0.8 | 7 |
| 80 | Development of a generic high-throughput screening assay for profiling snake venom protease activity after high-resolution chromatographic fractionation. <i>Toxicon</i> , 2020, 178, 61-68. | 0.8 | 7 |
| 81 | Erythrocyte haemotoxicity profiling of snake venom toxins after nanofractionation. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2021, 1176, 122586. | 1.2 | 7 |
| 82 | Online parallel fragment screening and rapid hit exploration for nicotinic acetylcholine receptors. <i>MedChemComm</i> , 2011, 2, 590. | 3.5 | 6 |
| 83 | Metabolic profiling of ligands for the chemokine receptor CXCR3 by liquid chromatography-mass spectrometry coupled to bioaffinity assessment. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 7067-7081. | 1.9 | 6 |
| 84 | On-line coupling of surface plasmon resonance optical sensing to size-exclusion chromatography for affinity assessment of antibody samples. <i>Journal of Chromatography A</i> , 2016, 1452, 81-88. | 1.8 | 6 |
| 85 | Combining High-Resolution Gas Chromatographic Continuous Fraction Collection with Nuclear Magnetic Resonance Spectroscopy: Possibilities of Analyzing a Whole GC Chromatogram. <i>Analytical Chemistry</i> , 2021, 93, 6158-6168. | 3.2 | 6 |
| 86 | Comparison of (bio-)transformation methods for the generation of metabolite-like compound libraries of p38 $\hat{\pm}$ MAP kinase inhibitors using high-resolution screening. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014, 88, 235-244. | 1.4 | 5 |
| 87 | Development of an Online Cell-Based Bioactivity Screening Method by Coupling Liquid Chromatography to Flow Cytometry with Parallel Mass Spectrometry. <i>Analytical Chemistry</i> , 2016, 88, 4825-4832. | 3.2 | 5 |
| 88 | Design and evaluation of a multiplexed angular-scanning surface plasmon resonance system employing line-laser optics and CCD detection in combination with multi-ligand sensor chips. <i>Sensors and Actuators B: Chemical</i> , 2019, 282, 243-250. | 4.0 | 5 |
| 89 | Nanofractionation Platform with Parallel Mass Spectrometry for Identification of CYP1A2 Inhibitors in Metabolic Mixtures. <i>SLAS Discovery</i> , 2018, 23, 283-293. | 1.4 | 4 |
| 90 | Development of On-line Liquid Chromatography-Biochemical Detection for Soluble Epoxide Hydrolase Inhibitors in Mixtures. <i>Chromatographia</i> , 2013, 76, 13-21. | 0.7 | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 91 | A non-lethal method for studying scorpion venom gland transcriptomes, with a review of potentially suitable taxa to which it can be applied. PLoS ONE, 2021, 16, e0258712. | 1.1 | 3 |
| 92 | Development of Plate Reader and On-Line Microfluidic Screening to Identify Ligands of the 5-Hydroxytryptamine Binding Protein in Venoms. Toxins, 2015, 7, 2336-2353. | 1.5 | 2 |
| 93 | Label-Free Analysis with Multiple Parameters Separates G Protein-Coupled Receptor Signaling Pathways. Analytical Chemistry, 2020, 92, 14509-14516. | 3.2 | 2 |
| 94 | Analytics for Bioactivity Profiling of Complex Mixtures with a Focus on Venoms. Methods in Molecular Biology, 2020, 2068, 27-49. | 0.4 | 0 |