Ann Van Eeckhaut

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Validation of bioanalytical LC–MS/MS assays: Evaluation of matrix effects. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2009, 877, 2198-2207.	2.3	653
2	Astroglial CB1 Receptors Determine Synaptic D-Serine Availability to Enable Recognition Memory. Neuron, 2018, 98, 935-944.e5.	8.1	170
3	Analytical techniques for metabolomic studies: a review. Bioanalysis, 2019, 11, 2297-2318.	1.5	129
4	Chiral separations by capillary electrophoresis: Recent developments and applications. Electrophoresis, 2006, 27, 2880-2895.	2.4	102
5	Dysfunctional astrocytic regulation of glutamate transmission in a rat model of depression. Molecular Psychiatry, 2013, 18, 582-594.	7.9	94
6	Strategies to reduce aspecific adsorption of peptides and proteins in liquid chromatography–mass spectrometry based bioanalyses: An overview. Journal of Chromatography A, 2014, 1358, 1-13.	3.7	72
7	<scp>I</scp> nhibition of astroglial connexin43 hemichannels with <scp>TAT</scp> â€ <scp>G</scp> ap19 exerts anticonvulsant effects in rodents. Glia, 2018, 66, 1788-1804.	4.9	50
8	Testosterone boosts physical activity in male mice via dopaminergic pathways. Scientific Reports, 2018, 8, 957.	3.3	43
9	Pressor and Renal Hemodynamic Effects of the Novel Angiotensin A Peptide Are Angiotensin II Type 1A Receptor Dependent. Hypertension, 2011, 57, 956-964.	2.7	42
10	Improved sensitivity of the nano ultra-high performance liquid chromatography-tandem mass spectrometric analysis of low-concentrated neuropeptides by reducing aspecific adsorption and optimizing the injection solvent. Journal of Chromatography A, 2014, 1360, 217-228.	3.7	42
11	Cross-species pharmacological characterization of the allylglycine seizure model in mice and larval zebrafish. Epilepsy and Behavior, 2015, 45, 53-63.	1.7	41
12	Capillary and nano-liquid chromatography–tandem mass spectrometry for the quantification of small molecules in microdialysis samples: Comparison with microbore dimensions. Journal of Chromatography A, 2006, 1131, 166-175.	3.7	39
13	Use of microbore LC–MS/MS for the quantification of oxcarbazepine and its active metabolite in rat brain microdialysis samples. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2006, 831, 205-212.	2.3	36
14	The absolute quantification of endogenous levels of brain neuropeptides <i>in vivo</i> using LC–MS/MS. Bioanalysis, 2011, 3, 1271-1285.	1.5	36
15	Development of a validated capillary electrophoresis method for enantiomeric purity testing of dexchlorpheniramine maleate. Journal of Chromatography A, 2002, 958, 291-297.	3.7	31
16	Chiral separation of cetirizine by capillary electrophoresis. Electrophoresis, 2006, 27, 2376-2385.	2.4	31
17	Mixed α/β-Peptides as a Class of Short Amphipathic Peptide Hydrogelators with Enhanced Proteolytic Stability. Biomacromolecules, 2016, 17, 437-445.	5.4	30
18	Critical Evaluation of Acetylcholine Determination in Rat Brain Microdialysates using Ion-Pair Liquid Chromatography with Amperometric Detection. Sensors, 2008, 8, 5171-5185.	3.8	29

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19	The Barnes Maze Task Reveals Specific Impairment of Spatial Learning Strategy in the Intrahippocampal Kainic Acid Model for Temporal Lobe Epilepsy. Neurochemical Research, 2019, 44, 600-608.	3.3	29
20	Chloride ions stabilize the glutamate-induced active state of the metabotropic glutamate receptor 3. Neuropharmacology, 2018, 140, 275-286.	4.1	26
21	Development and evaluation of a linear regression method for the prediction of maximal chiral separation of basic drug racemates by cyclodextrin-mediated capillary zone electrophoresis. Journal of Chromatography A, 2000, 903, 245-254.	3.7	24
22	Alterations in the motor cortical and striatal glutamatergic system and d-serine levels in the bilateral 6-hydroxydopamine rat model for Parkinson's disease. Neurochemistry International, 2015, 88, 88-96.	3.8	24
23	Validation of the 6Hz refractory seizure mouse model for intracerebroventricularly administered compounds. Epilepsy Research, 2015, 115, 67-72.	1.6	23
24	Injectable peptide-based hydrogel formulations for the extended inÂvivo release of opioids. Materials Today Chemistry, 2017, 3, 49-59.	3.5	23
25	Microbore liquid chromatography with UV detection to study the in vivo passage of compound 21, a non-peptidergic AT2 receptor agonist, to the striatum in rats. Journal of Neuroscience Methods, 2011, 202, 137-142.	2.5	22
26	An improved microbore UHPLC method with electrochemical detection for the simultaneous determination of low monoamine levels in in vivo brain microdialysis samples. Journal of Pharmaceutical and Biomedical Analysis, 2016, 127, 136-146.	2.8	22
27	Blood-brain barrier transport kinetics of the neuromedin peptides NMU, NMN, NMB and NT. Neuropharmacology, 2016, 107, 460-470.	4.1	21
28	Influence of methanol on the enantioresolution of antihistamines with carboxymethyl-β-cyclodextrin in capillary electrophoresis. Electrophoresis, 2004, 25, 2838-2847.	2.4	20
29	Running Opposes the Effects of Social Isolation on Synaptic Plasticity and Transmission in a Rat Model of Depression. PLoS ONE, 2016, 11, e0165071.	2.5	20
30	Biodegradable Amphipathic Peptide Hydrogels as Extended-Release System for Opioid Peptides. Journal of Medicinal Chemistry, 2018, 61, 9784-9789.	6.4	20
31	Assessing the suitability of capillary electrophoresisâ€mass spectrometry for biomarker discovery in plasmaâ€based metabolomics. Electrophoresis, 2019, 40, 2309-2320.	2.4	20
32	Direct profiling of endogenous metabolites in rat brain microdialysis samples by capillary electrophoresis-mass spectrometry with on-line preconcentration. Microchemical Journal, 2020, 156, 104949.	4.5	19
33	Separation of neutral dihydropyridines and their enantiomers using electrokinetic chromatography. Journal of Pharmaceutical and Biomedical Analysis, 2004, 36, 799-805.	2.8	18
34	Reassessment of the antioxidative mixture for the challenging electrochemical determination of dopamine, noradrenaline and serotonin in microdialysis samples. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2015, 998-999, 63-71.	2.3	18
35	Glutamate released in the preoptic area during sexual behavior controls local estrogen synthesis in male quail. Psychoneuroendocrinology, 2017, 79, 49-58.	2.7	18
36	An ultrasensitive nano UHPLC–ESI–MS/MS method for the quantification of three neuromedin-like peptides in microdialysates. Bioanalysis, 2015, 7, 605-619.	1.5	16

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37	Sensitive targeted methods for brain metabolomic studies in microdialysis samples. Journal of Pharmaceutical and Biomedical Analysis, 2018, 161, 192-205.	2.8	16
38	Differential effects of organic modifiers on the enantioseparation of dimetindene maleate with carboxymethyl-β-cyclodextrin in capillary electrophoresis. Journal of Separation Science, 2004, 27, 21-27.	2.5	14
39	NMDA receptor antagonism potentiates the l-DOPA-induced extracellular dopamine release in the subthalamic nucleus of hemi-parkinson rats. Neuropharmacology, 2014, 85, 198-205.	4.1	14
40	Toward greener analytical techniques for the absolute quantification of peptides in pharmaceutical and biological samples. Journal of Pharmaceutical and Biomedical Analysis, 2015, 113, 181-188.	2.8	14
41	5-HTR2A and 5-HTR3A but not 5-HTR1A antagonism impairs the cross-modal reactivation of deprived visual cortex in adulthood. Molecular Brain, 2018, 11, 65.	2.6	14
42	Challenges for the <i>in vivo</i> quantification of brain neuropeptides using microdialysis sampling and LC–MS. Bioanalysis, 2016, 8, 1965-1985.	1.5	13
43	Development of potent and proteolytically stable human neuromedin U receptor agonists. European Journal of Medicinal Chemistry, 2018, 144, 887-897.	5.5	13
44	Applicability of cerebral open flow microperfusion and microdialysis to quantify a brain-penetrating nanobody in mice. Analytica Chimica Acta, 2021, 1178, 338803.	5.4	13
45	Feasibility study on exhaled-breath analysis by untargeted Selected-Ion Flow-Tube Mass Spectrometry in children with cystic fibrosis, asthma, and healthy controls: Comparison of data pretreatment and classification techniques. Talanta, 2021, 225, 122080.	5.5	12
46	Cortistatinâ€14 Mediates its Anticonvulsant Effects Via sst ₂ and sst ₃ but Not Ghrelin Receptors. CNS Neuroscience and Therapeutics, 2014, 20, 662-670.	3.9	11
47	<i>In-vitro</i> and <i>in-vivo</i> evaluation of the modulatory effects of the multitarget compound ASS234 on the monoaminergic system. Journal of Pharmacy and Pharmacology, 2017, 69, 314-324.	2.4	11
48	CE-MS metabolic profiling of volume-restricted plasma samples from an acute mouse model for epileptic seizures to discover potentially involved metabolomic features. Talanta, 2020, 217, 121107.	5.5	10
49	Affinity capillary electrophoresis to evaluate the complex formation between poliovirus and nanobodies. Journal of Separation Science, 2014, 37, 3729-3737.	2.5	9
50	Synthesis and <i>in Vitro</i> Evaluation of Stabilized and Selective Neuromedin U-1 Receptor Agonists. ACS Medicinal Chemistry Letters, 2018, 9, 496-501.	2.8	9
51	Accelerated high-frequency repetitive transcranial magnetic stimulation positively influences the behavior, monoaminergic system, and cerebral perfusion in anxious aggressive dogs: A case study. Journal of Veterinary Behavior: Clinical Applications and Research, 2019, 33, 108-113.	1.2	9
52	Ion-pair ultra-high performance liquid chromatographic analysis of monoamines: Peak-splitting at high flow rates. Journal of Chromatography A, 2013, 1321, 73-79.	3.7	8
53	Miniaturized ultra-high performance liquid chromatography coupled to electrochemical detection: Investigation of system performance for neurochemical analysis. Journal of Chromatography A, 2016, 1427, 69-78.	3.7	8
54	Effects of ghrelin receptor activation on forebrain dopamine release, conditioned fear and fear extinction in C57BL/6J mice. Journal of Neurochemistry, 2020, 154, 389-403.	3.9	8

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55	Fabrication of a molecularly imprinted monolithic column via the epitope approach for the selective capillary microextraction of neuropeptides in human plasma. Talanta, 2022, 243, 123397.	5.5	8
56	Caloric Restriction Protects against Lactacystin-Induced Degeneration of Dopamine Neurons Independent of the Ghrelin Receptor. International Journal of Molecular Sciences, 2017, 18, 558.	4.1	7
57	Effects of neuromedin U-8 on stress responsiveness and hypothalamus-pituitary-adrenal axis activity in male C57BL/6J mice. Hormones and Behavior, 2020, 121, 104666.	2.1	7
58	Neuromedin U and Structural Analogs: An Overview of their Structure, Function and Selectivity. Current Medicinal Chemistry, 2020, 27, 6744-6768.	2.4	7
59	Current Approaches to Monitor Macromolecules Directly from the Cerebral Interstitial Fluid. Pharmaceutics, 2022, 14, 1051.	4.5	7
60	Interinstrumental method transfer of a capillary electrophoretic separation of angiotensin II and five derivatives: Evaluation and update of earlier developed guidelines. Electrophoresis, 2015, 36, 2658-2664.	2.4	6
61	LC-method development for the quantification of neuromedin-like peptides. Emphasis on column choice and mobile phase composition. Journal of Pharmaceutical and Biomedical Analysis, 2017, 137, 104-112.	2.8	6
62	Surface and Solvent Dependent Adsorption of Three Neuromedin-Like Peptides in Glass and Plastic Syringes. Chromatographia, 2018, 81, 65-72.	1.3	6
63	Assessing mixtures of supercharging agents to increase the abundance of a specific charge state of Neuromedin U. Talanta, 2019, 198, 206-214.	5.5	6
64	A comparative study of UniSpray and electrospray sources for the ionization of neuropeptides in liquid chromatography tandem mass spectrometry. Journal of Chromatography A, 2020, 1628, 461462.	3.7	6
65	Mass spectrometry based metabolomics of volume-restricted in-vivo brain samples: Actual status and the way forward. TrAC - Trends in Analytical Chemistry, 2021, 143, 116365.	11.4	6
66	Aged xCT-Deficient Mice Are Less Susceptible for Lactacystin-, but Not 1-Methyl-4-Phenyl-1,2,3,6- Tetrahydropyridine-, Induced Degeneration of the Nigrostriatal Pathway. Frontiers in Cellular Neuroscience, 2021, 15, 796635.	3.7	4
67	Determination of reboxetine in rat brain microdialysates and plasma samples using liquid chromatography coupled to fluorescence detection. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2012, 898, 53-61.	2.3	3
68	Quantification of piritramide in human colostrum. Journal of Clinical Pharmacy and Therapeutics, 2017, 42, 306-310.	1.5	2
69	Accelerated HF-rTMS Modifies SERT Availability in the Subgenual Anterior Cingulate Cortex: A Canine [11C]DASB Study on the Serotonergic System. Journal of Clinical Medicine, 2022, 11, 1531.	2.4	1
70	Acute accelerated high frequency TMS augments homovanillic acid and 3,4-dihydroxyphenylacetic acid in the cerebrospinal fluid of healthy dogs. Brain Stimulation, 2019, 12, 465.	1.6	0
71	Injectable peptide hydrogels for controlled drug release. , 0, , .		0
72	CHEMOGENETIC MODULATION OF ASTROCYTES IN A MODEL FOR TEMPORAL LOBE EPILEPSY. Frontiers in Neuroscience, 0, 13, .	2.8	0

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73	Fabrication of AÂMolecularly Imprinted MonolithicÂColumn Via the Epitope ApproachÂFor the Selective Capillary Microextraction of NeuropeptidesÂIn Human Plasma. SSRN Electronic Journal, 0, , .	0.4	Ο
74	Unraveling the Effects of GSK-3β Isoform Modulation against Limbic Seizures and in the 6 Hz Electrical Kindling Model for Epileptogenesis. ACS Chemical Neuroscience, 2022, 13, 796-805.	3.5	0