

Ann Van Eeckhaut

List of Publications by Year in descending order

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74
papers

2,341
citations

304368

22
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223531

46
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75
all docs

75
docs citations

75
times ranked

3564
citing authors

#	ARTICLE	IF	CITATIONS
1	Validation of bioanalytical LC-MS/MS assays: Evaluation of matrix effects. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2009, 877, 2198-2207.	1.2	653
2	Astroglial CB1 Receptors Determine Synaptic D-Serine Availability to Enable Recognition Memory. <i>Neuron</i> , 2018, 98, 935-944.e5.	3.8	170
3	Analytical techniques for metabolomic studies: a review. <i>Bioanalysis</i> , 2019, 11, 2297-2318.	0.6	129
4	Chiral separations by capillary electrophoresis: Recent developments and applications. <i>Electrophoresis</i> , 2006, 27, 2880-2895.	1.3	102
5	Dysfunctional astrocytic regulation of glutamate transmission in a rat model of depression. <i>Molecular Psychiatry</i> , 2013, 18, 582-594.	4.1	94
6	Strategies to reduce aspecific adsorption of peptides and proteins in liquid chromatography-mass spectrometry based bioanalyses: An overview. <i>Journal of Chromatography A</i> , 2014, 1358, 1-13.	1.8	72
7	Inhibition of astroglial connexin43 hemichannels with TAT-Gap19 exerts anticonvulsant effects in rodents. <i>Glia</i> , 2018, 66, 1788-1804.	2.5	50
8	Testosterone boosts physical activity in male mice via dopaminergic pathways. <i>Scientific Reports</i> , 2018, 8, 957.	1.6	43
9	Pressor and Renal Hemodynamic Effects of the Novel Angiotensin A Peptide Are Angiotensin II Type 1A Receptor Dependent. <i>Hypertension</i> , 2011, 57, 956-964.	1.3	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. <i>Journal of Chromatography A</i> , 2014, 1360, 217-228.	1.8	42
11	Cross-species pharmacological characterization of the allylglycine seizure model in mice and larval zebrafish. <i>Epilepsy and Behavior</i> , 2015, 45, 53-63.	0.9	41
12	Capillary and nano-liquid chromatography-tandem mass spectrometry for the quantification of small molecules in microdialysis samples: Comparison with microbore dimensions. <i>Journal of Chromatography A</i> , 2006, 1131, 166-175.	1.8	39
13	Use of microbore LC-MS/MS for the quantification of oxcarbazepine and its active metabolite in rat brain microdialysis samples. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2006, 831, 205-212.	1.2	36
14	The absolute quantification of endogenous levels of brain neuropeptides <i>in vivo</i> using LC-MS/MS. <i>Bioanalysis</i> , 2011, 3, 1271-1285.	0.6	36
15	Development of a validated capillary electrophoresis method for enantiomeric purity testing of dexchlorpheniramine maleate. <i>Journal of Chromatography A</i> , 2002, 958, 291-297.	1.8	31
16	Chiral separation of cetirizine by capillary electrophoresis. <i>Electrophoresis</i> , 2006, 27, 2376-2385.	1.3	31
17	Mixed α/β -Peptides as a Class of Short Amphipathic Peptide Hydrogelators with Enhanced Proteolytic Stability. <i>Biomacromolecules</i> , 2016, 17, 437-445.	2.6	30
18	Critical Evaluation of Acetylcholine Determination in Rat Brain Microdialysates using Ion-Pair Liquid Chromatography with Amperometric Detection. <i>Sensors</i> , 2008, 8, 5171-5185.	2.1	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. <i>Neurochemical Research</i> , 2019, 44, 600-608.	1.6	29
20	Chloride ions stabilize the glutamate-induced active state of the metabotropic glutamate receptor 3. <i>Neuropharmacology</i> , 2018, 140, 275-286.	2.0	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. <i>Journal of Chromatography A</i> , 2000, 903, 245-254.	1.8	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. <i>Neurochemistry International</i> , 2015, 88, 88-96.	1.9	24
23	Validation of the 6Hz refractory seizure mouse model for intracerebroventricularly administered compounds. <i>Epilepsy Research</i> , 2015, 115, 67-72.	0.8	23
24	Injectable peptide-based hydrogel formulations for the extended in vivo release of opioids. <i>Materials Today Chemistry</i> , 2017, 3, 49-59.	1.7	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. <i>Journal of Neuroscience Methods</i> , 2011, 202, 137-142.	1.3	22
26	An improved microbore UHPLC method with electrochemical detection for the simultaneous determination of low monoamine levels in in vivo brain microdialysis samples. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016, 127, 136-146.	1.4	22
27	Blood-brain barrier transport kinetics of the neuromedin peptides NML, NMN, NMB and NT. <i>Neuropharmacology</i> , 2016, 107, 460-470.	2.0	21
28	Influence of methanol on the enantioresolution of antihistamines with carboxymethyl- β -cyclodextrin in capillary electrophoresis. <i>Electrophoresis</i> , 2004, 25, 2838-2847.	1.3	20
29	Running Opposes the Effects of Social Isolation on Synaptic Plasticity and Transmission in a Rat Model of Depression. <i>PLoS ONE</i> , 2016, 11, e0165071.	1.1	20
30	Biodegradable Amphipathic Peptide Hydrogels as Extended-Release System for Opioid Peptides. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 9784-9789.	2.9	20
31	Assessing the suitability of capillary electrophoresis-mass spectrometry for biomarker discovery in plasma-based metabolomics. <i>Electrophoresis</i> , 2019, 40, 2309-2320.	1.3	20
32	Direct profiling of endogenous metabolites in rat brain microdialysis samples by capillary electrophoresis-mass spectrometry with on-line preconcentration. <i>Microchemical Journal</i> , 2020, 156, 104949.	2.3	19
33	Separation of neutral dihydropyridines and their enantiomers using electrokinetic chromatography. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2004, 36, 799-805.	1.4	18
34	Reassessment of the antioxidative mixture for the challenging electrochemical determination of dopamine, noradrenaline and serotonin in microdialysis samples. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2015, 998-999, 63-71.	1.2	18
35	Glutamate released in the preoptic area during sexual behavior controls local estrogen synthesis in male quail. <i>Psychoneuroendocrinology</i> , 2017, 79, 49-58.	1.3	18
36	An ultrasensitive nano UHPLC-ESI-MS/MS method for the quantification of three neuromedin-like peptides in microdialysates. <i>Bioanalysis</i> , 2015, 7, 605-619.	0.6	16

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37	Sensitive targeted methods for brain metabolomic studies in microdialysis samples. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018, 161, 192-205.	1.4	16
38	Differential effects of organic modifiers on the enantioseparation of dimetindene maleate with carboxymethyl- β -cyclodextrin in capillary electrophoresis. <i>Journal of Separation Science</i> , 2004, 27, 21-27.	1.3	14
39	NMDA receptor antagonism potentiates the L-DOPA-induced extracellular dopamine release in the subthalamic nucleus of hemi-parkinson rats. <i>Neuropharmacology</i> , 2014, 85, 198-205.	2.0	14
40	Toward greener analytical techniques for the absolute quantification of peptides in pharmaceutical and biological samples. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015, 113, 181-188.	1.4	14
41	5-HTR2A and 5-HTR3A but not 5-HTR1A antagonism impairs the cross-modal reactivation of deprived visual cortex in adulthood. <i>Molecular Brain</i> , 2018, 11, 65.	1.3	14
42	Challenges for the <i>in vivo</i> quantification of brain neuropeptides using microdialysis sampling and LC-MS. <i>Bioanalysis</i> , 2016, 8, 1965-1985.	0.6	13
43	Development of potent and proteolytically stable human neuromedin U receptor agonists. <i>European Journal of Medicinal Chemistry</i> , 2018, 144, 887-897.	2.6	13
44	Applicability of cerebral open flow microperfusion and microdialysis to quantify a brain-penetrating nanobody in mice. <i>Analytica Chimica Acta</i> , 2021, 1178, 338803.	2.6	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. <i>Talanta</i> , 2021, 225, 122080.	2.9	12
46	Cortistatin β 4 Mediates its Anticonvulsant Effects Via $ssr2$ and $ssr3$ but Not Ghrelin Receptors. <i>CNS Neuroscience and Therapeutics</i> , 2014, 20, 662-670.	1.9	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. <i>Journal of Pharmacy and Pharmacology</i> , 2017, 69, 314-324.	1.2	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. <i>Talanta</i> , 2020, 217, 121107.	2.9	10
49	Affinity capillary electrophoresis to evaluate the complex formation between poliovirus and nanobodies. <i>Journal of Separation Science</i> , 2014, 37, 3729-3737.	1.3	9
50	Synthesis and <i>In Vitro</i> Evaluation of Stabilized and Selective Neuromedin U-1 Receptor Agonists. <i>ACS Medicinal Chemistry Letters</i> , 2018, 9, 496-501.	1.3	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. <i>Journal of Veterinary Behavior: Clinical Applications and Research</i> , 2019, 33, 108-113.	0.5	9
52	Ion-pair ultra-high performance liquid chromatographic analysis of monoamines: Peak-splitting at high flow rates. <i>Journal of Chromatography A</i> , 2013, 1321, 73-79.	1.8	8
53	Miniaturized ultra-high performance liquid chromatography coupled to electrochemical detection: Investigation of system performance for neurochemical analysis. <i>Journal of Chromatography A</i> , 2016, 1427, 69-78.	1.8	8
54	Effects of ghrelin receptor activation on forebrain dopamine release, conditioned fear and fear extinction in C57BL/6J mice. <i>Journal of Neurochemistry</i> , 2020, 154, 389-403.	2.1	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. <i>Talanta</i> , 2022, 243, 123397.	2.9	8
56	Caloric Restriction Protects against Lactacystin-Induced Degeneration of Dopamine Neurons Independent of the Ghrelin Receptor. <i>International Journal of Molecular Sciences</i> , 2017, 18, 558.	1.8	7
57	Effects of neuromedin U-8 on stress responsiveness and hypothalamus-pituitary-adrenal axis activity in male C57BL/6J mice. <i>Hormones and Behavior</i> , 2020, 121, 104666.	1.0	7
58	Neuromedin U and Structural Analogs: An Overview of their Structure, Function and Selectivity. <i>Current Medicinal Chemistry</i> , 2020, 27, 6744-6768.	1.2	7
59	Current Approaches to Monitor Macromolecules Directly from the Cerebral Interstitial Fluid. <i>Pharmaceutics</i> , 2022, 14, 1051.	2.0	7
60	Interinstrumental method transfer of a capillary electrophoretic separation of angiotensin II and five derivatives: Evaluation and update of earlier developed guidelines. <i>Electrophoresis</i> , 2015, 36, 2658-2664.	1.3	6
61	LC-method development for the quantification of neuromedin-like peptides. Emphasis on column choice and mobile phase composition. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017, 137, 104-112.	1.4	6
62	Surface and Solvent Dependent Adsorption of Three Neuromedin-Like Peptides in Glass and Plastic Syringes. <i>Chromatographia</i> , 2018, 81, 65-72.	0.7	6
63	Assessing mixtures of supercharging agents to increase the abundance of a specific charge state of Neuromedin U. <i>Talanta</i> , 2019, 198, 206-214.	2.9	6
64	A comparative study of UniSpray and electrospray sources for the ionization of neuropeptides in liquid chromatography tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2020, 1628, 461462.	1.8	6
65	Mass spectrometry based metabolomics of volume-restricted in-vivo brain samples: Actual status and the way forward. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 143, 116365.	5.8	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. <i>Frontiers in Cellular Neuroscience</i> , 2021, 15, 796635.	1.8	4
67	Determination of reboxetine in rat brain microdialysates and plasma samples using liquid chromatography coupled to fluorescence detection. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2012, 898, 53-61.	1.2	3
68	Quantification of piritramide in human colostrum. <i>Journal of Clinical Pharmacy and Therapeutics</i> , 2017, 42, 306-310.	0.7	2
69	Accelerated HF-rTMS Modifies SERT Availability in the Subgenual Anterior Cingulate Cortex: A Canine [11C]DASB Study on the Serotonergic System. <i>Journal of Clinical Medicine</i> , 2022, 11, 1531.	1.0	1
70	Acute accelerated high frequency TMS augments homovanillic acid and 3,4-dihydroxyphenylacetic acid in the cerebrospinal fluid of healthy dogs. <i>Brain Stimulation</i> , 2019, 12, 465.	0.7	0
71	Injectable peptide hydrogels for controlled drug release. , 0, , .		0
72	CHEMOGENETIC MODULATION OF ASTROCYTES IN A MODEL FOR TEMPORAL LOBE EPILEPSY. <i>Frontiers in Neuroscience</i> , 0, 13, .	1.4	0

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73	Fabrication of A Molarly Imprinted Monolithic Column Via the Epitope Approach For the Selective Capillary Microextraction of Neuropeptides In Human Plasma. SSRN Electronic Journal, 0, , .	0.4	0
74	Unraveling the Effects of GSK-3 Isoform Modulation against Limbic Seizures and in the 6 Hz Electrical Kindling Model for Epileptogenesis. ACS Chemical Neuroscience, 2022, 13, 796-805.	1.7	0