Ann Van Eeckhaut

List of Publications by Year
in descending order

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74 papers	2,341 citations	304743 22 h-index	223800 46 g-index
75 all docs	75 docs citations	75 times ranked	3564 citing authors

#	Article	IF	Citations
1	Unraveling the Effects of GSK-3Î² 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
2	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
3	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
4	Current Approaches to Monitor Macromolecules Directly from the Cerebral Interstitial Fluid. Pharmaceutics, 2022, 14, 1051.	4.5	7
5	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
6	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
7	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
8	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
9	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
10	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
11	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
12	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
13	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
14	Neuromedin U and Structural Analogs: An Overview of their Structure, Function and Selectivity. Current Medicinal Chemistry, 2020, 27, 6744-6768.	2.4	7
15	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
16	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
17	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
18	Assessing the suitability of capillary electrophoresisâ€mass spectrometry for biomarker discovery in plasmaâ€based metabolomics. Electrophoresis, 2019, 40, 2309-2320.	2.4	20

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19	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
20	Analytical techniques for metabolomic studies: a review. Bioanalysis, 2019, 11, 2297-2318.	1.5	129
21	<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
22	Synthesis and in Vitro Evaluation of Stabilized and Selective Neuromedin U-1 Receptor Agonists. ACS Medicinal Chemistry Letters, 2018, 9, 496-501.	2.8	9
23	Testosterone boosts physical activity in male mice via dopaminergic pathways. Scientific Reports, 2018, 8, 957.	3.3	43
24	Development of potent and proteolytically stable human neuromedin U receptor agonists. European Journal of Medicinal Chemistry, 2018, 144, 887-897.	5.5	13
25	Surface and Solvent Dependent Adsorption of Three Neuromedin-Like Peptides in Glass and Plastic Syringes. Chromatographia, 2018, 81, 65-72.	1.3	6
26	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
27	Biodegradable Amphipathic Peptide Hydrogels as Extended-Release System for Opioid Peptides. Journal of Medicinal Chemistry, 2018, 61, 9784-9789.	6.4	20
28	Astroglial CB1 Receptors Determine Synaptic D-Serine Availability to Enable Recognition Memory. Neuron, 2018, 98, 935-944.e5.	8.1	170
29	Chloride ions stabilize the glutamate-induced active state of the metabotropic glutamate receptor 3. Neuropharmacology, 2018, 140, 275-286.	4.1	26
30	Sensitive targeted methods for brain metabolomic studies in microdialysis samples. Journal of Pharmaceutical and Biomedical Analysis, 2018, 161, 192-205.	2.8	16
31	Injectable peptide-based hydrogel formulations for the extended inÂvivo release of opioids. Materials Today Chemistry, 2017, 3, 49-59.	3.5	23
32	In-vitro and in-vivo 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
33	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
34	Glutamate released in the preoptic area during sexual behavior controls local estrogen synthesis in male quail. Psychoneuroendocrinology, 2017, 79, 49-58.	2.7	18
35	Quantification of piritramide in human colostrum. Journal of Clinical Pharmacy and Therapeutics, 2017, 42, 306-310.	1.5	2
36	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

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37	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
38	Blood-brain barrier transport kinetics of the neuromedin peptides NMU, NMN, NMB and NT. Neuropharmacology, 2016, 107, 460-470.	4.1	21
39	Challenges for the in vivo quantification of brain neuropeptides using microdialysis sampling and LCâ€“MS. Bioanalysis, 2016, 8, 1965-1985.	1.5	13
40	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
41	Mixed Î±/Î²-Peptides as a Class of Short Amphipathic Peptide Hydrogelators with Enhanced Proteolytic Stability. Biomacromolecules, 2016, 17, 437-445.	5.4	30
42	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
43	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
44	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
45	An ultrasensitive nano UHPLCâ€“ESIâ€“MS/MS method for the quantification of three neuromedin-like peptides in microdialysates. Bioanalysis, 2015, 7, 605-619.	1.5	16
46	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
47	Cross-species pharmacological characterization of the allylglycine seizure model in mice and larval zebrafish. Epilepsy and Behavior, 2015, 45, 53-63.	1.7	41
48	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
49	Validation of the 6Hz refractory seizure mouse model for intracerebroventricularly administered compounds. Epilepsy Research, 2015, 115, 67-72.	1.6	23
50	Cortistatinâ€14 Mediates its Anticonvulsant Effects Via sst₂ and sst₃ but Not Ghrelin Receptors. CNS Neuroscience and Therapeutics, 2014, 20, 662-670.	3.9	11
51	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
52	Affinity capillary electrophoresis to evaluate the complex formation between poliovirus and nanobodies. Journal of Separation Science, 2014, 37, 3729-3737.	2.5	9
53	Strategies to reduce aspecific adsorption of peptides and proteins in liquid chromatographyâ€“mass spectrometry based bioanalyses: An overview. Journal of Chromatography A, 2014, 1358, 1-13.	3.7	72
54	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

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55	Dysfunctional astrocytic regulation of glutamate transmission in a rat model of depression. Molecular Psychiatry, 2013, 18, 582-594.	7.9	94
56	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
57	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
58	The absolute quantification of endogenous levels of brain neuropeptides in vivo using LCâ€“MS/MS. Bioanalysis, 2011, 3, 1271-1285.	1.5	36
59	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
60	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
61	Validation of bioanalytical LCâ€“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
62	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
63	Capillary and nano-liquid chromatographyâ€“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
64	Use of microbore LCâ€“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
65	Chiral separations by capillary electrophoresis: Recent developments and applications. Electrophoresis, 2006, 27, 2880-2895.	2.4	102
66	Chiral separation of cetirizine by capillary electrophoresis. Electrophoresis, 2006, 27, 2376-2385.	2.4	31
67	Influence of methanol on the enantioresolution of antihistamines with carboxymethyl-Î²-cyclodextrin in capillary electrophoresis. Electrophoresis, 2004, 25, 2838-2847.	2.4	20
68	Differential effects of organic modifiers on the enantioseparation of dimetindene maleate with carboxymethyl-Î²-cyclodextrin in capillary electrophoresis. Journal of Separation Science, 2004, 27, 21-27.	2.5	14
69	Separation of neutral dihydropyridines and their enantiomers using electrokinetic chromatography. Journal of Pharmaceutical and Biomedical Analysis, 2004, 36, 799-805.	2.8	18
70	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
71	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
72	Injectable peptide hydrogels for controlled drug release. , 0, , .		0

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73	CHEMOGENETIC MODULATION OF ASTROCYTES IN A MODEL FOR TEMPORAL LOBE EPILEPSY. Frontiers in Neuroscience, 0, 13, .	2.8	0
74	Fabrication of AÂMolecularly Imprinted MonolithicÂColumn Via the Epitope ApproachÂFor the Selective Capillary Microextraction of NeuropeptidesÂIn Human Plasma. SSRN Electronic Journal, 0, , .	0.4	0