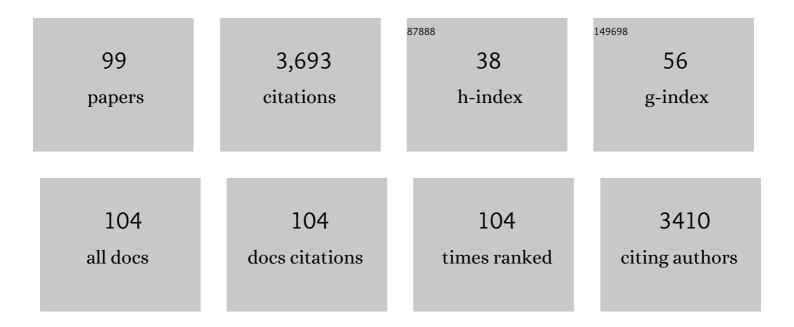
## Ayikoe G Mensah-Nyagan

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/9314262/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Neuroactive steroids: State of the art and new perspectives. Cellular and Molecular Life Sciences, 2008, 65, 777-797.	5.4	208
2	Localization of 17beta-hydroxysteroid dehydrogenase and characterization of testosterone in the brain of the male frog Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 1423-1428.	7.1	117
3	Evidence for a key role of steroids in the modulation of pain. Psychoneuroendocrinology, 2009, 34, S169-S177.	2.7	105
4	Inflammatory Pain Upregulates Spinal Inhibition via Endogenous Neurosteroid Production. Journal of Neuroscience, 2005, 25, 11768-11776.	3.6	95
5	Cellular distribution and bioactivity of the key steroidogenic enzyme, cytochrome P450side chain cleavage, in sensory neural pathways. Journal of Neurochemistry, 2003, 86, 1233-1246.	3.9	91
6	Allopregnanolone prevents and suppresses oxaliplatin-evoked painful neuropathy: Multi-parametric assessment and direct evidence. Pain, 2011, 152, 170-181.	4.2	86
7	Alzheimer, mitochondria and gender. Neuroscience and Biobehavioral Reviews, 2016, 67, 89-101.	6.1	85
8	Improvement of neuronal bioenergetics by neurosteroids: Implications for age-related neurodegenerative disorders. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2014, 1842, 2427-2438.	3.8	84
9	In Vivo and In Vitro Evidence for the Biosynthesis of Testosterone in the Telencephalon of the Female Frog. Journal of Neurochemistry, 1996, 67, 413-422.	3.9	82
10	Anatomical and cellular localization of neuroactive 5α/3αâ€reduced steroidâ€synthesizing enzymes in the spinal cord. Journal of Comparative Neurology, 2004, 477, 286-299.	1.6	82
11	Sex hormone-related neurosteroids differentially rescue bioenergetic deficits induced by amyloid-β or hyperphosphorylated tau protein. Cellular and Molecular Life Sciences, 2016, 73, 201-215.	5.4	79
12	Neurogenic Pain and Steroid Synthesis in the Spinal Cord. Journal of Molecular Neuroscience, 2006, 28, 17-32.	2.3	78
13	Biochemical and functional evidence for the control of pain mechanisms by dehydroepiandrosterone endogenously synthesized in the spinal cord. FASEB Journal, 2008, 22, 93-104.	0.5	76
14	HS3ST2 expression is critical for the abnormal phosphorylation of tau in Alzheimer's disease-related tau pathology. Brain, 2015, 138, 1339-1354.	7.6	75
15	Substance P inhibits progesterone conversion to neuroactive metabolites in spinal sensory circuit: A potential component of nociception. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 9044-9049.	7.1	70
16	Potential role of allopregnanolone for a safe and effective therapy of neuropathic pain. Progress in Neurobiology, 2014, 113, 70-78.	5.7	68
17	Endogenous steroid production in the spinal cord and potential involvement in neuropathic pain modulation. Journal of Steroid Biochemistry and Molecular Biology, 2008, 109, 286-293.	2.5	66
18	The neuroprotector kynurenic acid increases neuronal cell survival through neprilysin induction. Neuropharmacology, 2013, 70, 254-260.	4.1	65

#	Article	IF	CITATIONS
19	Molecular and neurochemical evidence for the biosynthesis of dehydroepiandrosterone in the adult rat spinal cord. Journal of Neurochemistry, 2005, 93, 1220-1230.	3.9	64
20	Cellular and functional evidence for a protective action of neurosteroids against vincristine chemotherapy-induced painful neuropathy. Cellular and Molecular Life Sciences, 2010, 67, 3017-3034.	5.4	62
21	Immunocytochemical Localization and Biological Activity of Hydroxysteroid Sulfotransferase in the Frog Brain. Journal of Neurochemistry, 1999, 72, 848-857.	3.9	60
22	Impact of neuropathic pain on the gene expression and activity of cytochrome P450side-chain-cleavage in sensory neural networks. Cellular and Molecular Life Sciences, 2004, 61, 2274-84.	5.4	60
23	The endozepine triakontatetraneuropeptide diazepam-binding inhibitor [17–50] stimulates neurosteroid biosynthesis in the frog hypothalamus. Neuroscience, 1998, 83, 555-570.	2.3	57
24	The biological activity of 3α-hydroxysteroid oxido-reductase in the spinal cord regulates thermal and mechanical pain thresholds after sciatic nerve injury. Neurobiology of Disease, 2008, 30, 30-41.	4.4	57
25	Sciatic nerve injury induces apoptosis of dorsal root ganglion satellite glial cells and selectively modifies neurosteroidogenesis in sensory neurons. Glia, 2010, 58, 169-180.	4.9	57
26	Progress in dorsal root ganglion neurosteroidogenic activity: Basic evidence and pathophysiological correlation. Progress in Neurobiology, 2010, 92, 33-41.	5.7	54
27	Alzheimer's Disease, Oestrogen and Mitochondria: an Ambiguous Relationship. Molecular Neurobiology, 2012, 46, 151-160.	4.0	51
28	Inhibition of the Mitochondrial Enzyme ABAD Restores the Amyloid-β-Mediated Deregulation of Estradiol. PLoS ONE, 2011, 6, e28887.	2.5	49
29	The octadecaneuropeptide ODN stimulates neurosteroid biosynthesis through activation of central-type benzodiazepine receptors. Journal of Neurochemistry, 2008, 76, 128-138.	3.9	48
30	Anatomical and biochemical evidence for the synthesis of unconjugated and sulfated neurosteroids in amphibians. Brain Research Reviews, 2001, 37, 13-24.	9.0	47
31	Regulation of neurosteroid allopregnanolone biosynthesis in the rat spinal cord by glycine and the alkaloidal analogs strychnine and gelsemine. Neuroscience, 2008, 153, 154-161.	2.3	46
32	Detecting spatial memory deficits beyond blindness in tg2576 Alzheimer mice. Neurobiology of Aging, 2013, 34, 716-730.	3.1	45
33	Comparative Analysis of Gelsemine and <i>Gelsemium sempervirens</i> Activity on Neurosteroid Allopregnanolone Formation in the Spinal Cord and Limbic System. Evidence-based Complementary and Alternative Medicine, 2011, 2011, 1-10.	1.2	43
34	Modulation of neurosteroid production in human neuroblastoma cells by Alzheimer's disease key proteins. Journal of Neurobiology, 2006, 66, 868-881.	3.6	40
35	Pharmacological effect of gelsemine on anxiety-like behavior in rat. Behavioural Brain Research, 2013, 253, 90-94.	2.2	40
36	Milestones on Steroids and the Nervous System: 10 Years of Basic and Translational Research. Journal of Neuroendocrinology, 2012, 24, 1-15.	2.6	39

#	Article	IF	CITATIONS
37	Local modulation of steroid action: rapid control of enzymatic activity. Frontiers in Neuroscience, 2015, 9, 83.	2.8	39
38	Dose-dependent and sequence-sensitive effects of amyloid-β peptide on neurosteroidogenesis in human neuroblastoma cells. Neurochemistry International, 2008, 52, 948-955.	3.8	38
39	Selective regulation of 3α-hydroxysteroid oxido-reductase expression in dorsal root ganglion neurons: A possible mechanism to cope with peripheral nerve injury-induced chronic pain. Pain, 2010, 150, 522-534.	4.2	38
40	Social Isolation in Early versus Late Adolescent Mice Is Associated with Persistent Behavioral Deficits That Can Be Improved by Neurosteroid-Based Treatment. Frontiers in Cellular Neuroscience, 2017, 11, 208.	3.7	38
41	TSPO Ligands Boost Mitochondrial Function and Pregnenolone Synthesis. Journal of Alzheimer's Disease, 2019, 72, 1045-1058.	2.6	38
42	Mechanisms for the Specific Properties of γâ€Hydroxybutyrate in Brain. Medicinal Research Reviews, 2016, 36, 363-388.	10.5	35
43	Tryptophan metabolites modify brain Aβ peptide degradation: A role in Alzheimer's disease?. Progress in Neurobiology, 2020, 190, 101800.	5.7	34
44	Seasonal variation of the impact of a stressful procedure on open field behaviour and blood corticosterone in laboratory mice. Behavioural Brain Research, 2006, 167, 342-348.	2.2	32
45	Testosterone and estrogen in multiple sclerosis: from pathophysiology to therapeutics. Expert Review of Neurotherapeutics, 2018, 18, 515-522.	2.8	31
46	Regulation of Neurosteroid Biosynthesis in the Frog Diencephalon by GABA and Endozepines. Hormones and Behavior, 2001, 40, 218-225.	2.1	30
47	Peripheral neuropathy and neurosteroid formation in the central nervous system. Brain Research Reviews, 2008, 57, 454-459.	9.0	30
48	Î <sup>3</sup> -Hydroxybutyrate (Xyrem) ameliorates clinical symptoms and neuropathology in a mouse model of Alzheimer's disease. Neurobiology of Aging, 2015, 36, 832-844.	3.1	30
49	Allopregnanolone and its analog BR 297 rescue neuronal cells from oxidative stress-induced death through bioenergetic improvement. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2017, 1863, 631-642.	3.8	30
50	Immunohistochemical localization of 3β-hydroxysteroid dehydrogenase and 5α-reductase in the brain of the African lungfishProtopterus annectens. Journal of Comparative Neurology, 2001, 438, 123-135.	1.6	29
51	Effect of streptozotocin-induced diabetes on the gene expression and biological activity of 3β-hydroxysteroid dehydrogenase in the rat spinal cord. Neuroscience, 2005, 135, 869-877.	2.3	29
52	The translocator protein ligand XBD173 improves clinical symptoms and neuropathological markers in the SJL/J mouse model of multiple sclerosis. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2017, 1863, 3016-3027.	3.8	28
53	Allopregnanolone and Progesterone in Experimental Neuropathic Pain: Former and New Insights with a Translational Perspective. Cellular and Molecular Neurobiology, 2019, 39, 523-537.	3.3	27
54	5-HIAA induces neprilysin to ameliorate pathophysiology and symptoms in a mouse model for Alzheimer's disease. Acta Neuropathologica Communications, 2018, 6, 136.	5.2	26

#	Article	IF	CITATIONS
55	Xanthurenic Acid Binds to Neuronal G-Protein-Coupled Receptors That Secondarily Activate Cationic Channels in the Cell Line NCB-20. PLoS ONE, 2012, 7, e48553.	2.5	25
56	Disruption of Sema3A/Plexinâ€A1 inhibitory signalling in oligodendrocytes as a therapeutic strategy to promote remyelination. EMBO Molecular Medicine, 2019, 11, e10378.	6.9	25
57	Microglial Cell Morphology and Phagocytic Activity Are Critically Regulated by the Neurosteroid Allopregnanolone: A Possible Role in Neuroprotection. Cells, 2021, 10, 698.	4.1	25
58	Neurosteroids: Measurement and pathophysiologic relevance. Neurochemistry International, 2008, 52, 503-505.	3.8	24
59	Selective regulation of neurosteroid biosynthesis in human neuroblastoma cells under hydrogen peroxide–induced oxidative stress condition. Neuroscience, 2008, 151, 758-770.	2.3	23
60	An autophagy-targeting peptide to treat chronic inflammatory demyelinating polyneuropathies. Journal of Autoimmunity, 2018, 92, 114-125.	6.5	23
61	Neurosteroids and neuropathic pain management: Basic evidence and therapeutic perspectives. Frontiers in Neuroendocrinology, 2019, 55, 100795.	5.2	23
62	Novel analogs of allopregnanolone show improved efficiency and specificity in neuroprotection and stimulation of proliferation. Journal of Neurochemistry, 2016, 139, 782-794.	3.9	21
63	The Triakontatetraneuropeptide (TTN) Stimulates Thymidine Incorporation in Rat Astrocytes Through Peripheral-Type Benzodiazepine Receptors. Journal of Neurochemistry, 2002, 75, 701-707.	3.9	20
64	Neurosteroid 3α-Androstanediol Efficiently Counteracts Paclitaxel-Induced Peripheral Neuropathy and Painful Symptoms. PLoS ONE, 2013, 8, e80915.	2.5	20
65	Gamma-hydroxybutyrate, acting through an anti-apoptotic mechanism, protects native and amyloid-precursor-protein-transfected neuroblastoma cells against oxidative stress-induced death. Neuroscience, 2014, 263, 203-215.	2.3	20
66	Age-related vulnerability of pattern separation in C57BL/6J mice. Neurobiology of Aging, 2018, 62, 120-129.	3.1	20
67	Serum-based differentiation between multiple sclerosis and amyotrophic lateral sclerosis by Random Forest classification of FTIR spectra. Analyst, The, 2019, 144, 4647-4652.	3.5	20
68	The small GTPase RhoA regulates the expression and function of the sodium channel Nav1.5 in breast cancer cells. International Journal of Oncology, 2014, 44, 539-547.	3.3	19
69	A single acute pharmacological dose of γ-hydroxybutyrate modifies multiple gene expression patterns in rat hippocampus and frontal cortex. Physiological Genomics, 2010, 41, 146-160.	2.3	19
70	In vivo evidence for the production of sulfated steroids in the frog brain. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2000, 126, 213-219.	1.6	18
71	Assessment of neuroactive steroid formation in diabetic rat spinal cord using high-performance liquid chromatography and continuous flow scintillation detection. Neurochemistry International, 2008, 52, 554-559.	3.8	16
72	A Role for Xanthurenic Acid in the Control of Brain Dopaminergic Activity. International Journal of Molecular Sciences, 2021, 22, 6974.	4.1	16

AYIKOE G MENSAH-NYAGAN

#	Article	IF	CITATIONS
73	Characterization of a new rat model for chronic inflammatory demyelinating polyneuropathies. Journal of Neuroimmunology, 2015, 278, 1-10.	2.3	15
74	Neuroprotective Effects of Neuroactive Steroids in the Spinal Cord and Peripheral Nerves. Journal of Molecular Neuroscience, 2006, 28, 1-2.	2.3	14
75	Xanthurenic acid is localized in neurons in the central nervous system. Neuroscience, 2016, 329, 226-238.	2.3	14
76	Behavioral and electromyographic assessment of oxaliplatin-induced motor dysfunctions: Evidence for a therapeutic effect of allopregnanolone. Behavioural Brain Research, 2017, 320, 440-449.	2.2	14
77	In vivo regulation of vasomotricity by nitric oxide and prostanoids during gestation. European Journal of Pharmacology, 2001, 427, 143-149.	3.5	13
78	Evidence for effective structureâ€based neuromodulatory effects of new analogues of neurosteroid allopregnanolone. Journal of Neuroendocrinology, 2018, 30, e12568.	2.6	13
79	The TOTEM RRMS (Testosterone Treatment on neuroprotection and Myelin Repair in Relapsing) Tj ETQq1 1 0.74 placebo-controlled trial. Trials, 2020, 21, 591.	34314 rgBT / 1.6	Overlock 10 11
80	Neuropeptide Y Inhibits the Biosynthesis of Sulfated Neurosteroids in the Hypothalamus through Activation of Y1 Receptors. Endocrinology, 2002, 143, 1950-1963.	2.8	11
81	Regulatory effect of dehydroepiandrosterone on spinal cord nociceptive function. Frontiers in Bioscience - Elite, 2010, E2, 1528-1537.	1.8	10
82	FTY720 controls disease severity and attenuates sciatic nerve damage in chronic experimental autoimmune neuritis. Journal of Neuroinflammation, 2019, 16, 54.	7.2	10
83	A proposed preventive role for Gamma-hydroxybutyrate (XyremR) in Alzheimer's disease. Alzheimer's Research and Therapy, 2016, 8, 37.	6.2	9
84	Discovery of Imidazoquinazolinone Derivatives as TSPO Ligands Modulating Neurosteroidogenesis and Cellular Bioenergetics in Neuroblastoma Cells Expressing Amyloid Precursor Protein. ChemistrySelect, 2017, 2, 6452-6457.	1.5	9
85	Neonatal ventral hippocampal lesions modify pain perception and evoked potentials in rats. Behavioural Brain Research, 2012, 234, 167-174.	2.2	8
86	Beneficial effects of Gelsemium-based treatment against paclitaxel-induced painful symptoms. Neurological Sciences, 2018, 39, 2183-2196.	1.9	7
87	Neurophysiological responses to unpleasant stimuli (acute electrical stimulations and emotional) Tj ETQq1 1 0.	784314 rgBT	[  Overlock ]
88	Raman Imaging Reveals Accumulation of Hemoproteins in Plaques from Alzheimer's Diseased Tissues. ACS Chemical Neuroscience, 2021, 12, 2940-2945.	3.5	6
89	Calcium and cAMP signaling induced by gamma-hydroxybutyrate receptor(s) stimulation in NCB-20 neurons. Neuroscience, 2010, 167, 49-59.	2.3	5
90	Behavioral, Electrophysiological, and Histological Characterization of a New Rat Model for Neoadjuvant Chemotherapy–Induced Neuropathic Pain: Therapeutic Potential of Duloxetine and Allopregnanolone Concomitant Treatment. Neurotoxicity Research, 2020, 38, 145-162.	2.7	5

#	Article	IF	CITATIONS
91	A Narrative Review on Axonal Neuroprotection in Multiple Sclerosis. Neurology and Therapy, 2022, 11, 981-1042.	3.2	5
92	Transfection of Human Neuroblastoma Cells with AlzheimerÂ's Disease Brain Hallmarks as a Promising Strategy to Investigate the Role of Neurosteroidogenesis in Neuroprotection. BioValley Monographs, 2012, , 50-59.	0.1	4
93	Protective effect of 4-Phenylbutyrate against proteolipid protein mutation-induced endoplasmic reticulum stress and oligodendroglial cell death. Neurochemistry International, 2018, 118, 185-194.	3.8	4
94	Rapid Discrimination of Neuromyelitis Optica Spectrum Disorder and Multiple Sclerosis Using Machine Learning on Infrared Spectra of Sera. International Journal of Molecular Sciences, 2022, 23, 2791.	4.1	4
95	Translocator Protein Ligand PIGA1138 Reduces Disease Symptoms and Severity in Experimental Autoimmune Encephalomyelitis Model of Primary Progressive Multiple Sclerosis. Molecular Neurobiology, 2022, 59, 1744-1765.	4.0	3
96	H1153Y-KCNH2 Mutation Identified in a Sudden Arrhythmic Death Syndrome Case Alters Channel Gating. International Journal of Molecular Sciences, 2021, 22, 9235.	4.1	2
97	Steroids, spinal cord and pain sensation. Hormone Molecular Biology and Clinical Investigation, 2011, 7, 377-84.	0.7	1
98	Application of Confocal Laser-Scanning Microscopy to Comparative Endocrinologya. Annals of the New York Academy of Sciences, 1998, 839, 331-335.	3.8	0
99	Gelsemium effect against nerve injury-induced mechanical allodynia and hyperalgesia. International Journal of High Dilution Research, 2021, 18, 06-06.	0.1	0