Ayikoe G Mensah-Nyagan

List of Publications by Year
in descending order

99 papers	3,693 citations	87888 38 h-index	149698 56 g-index
104 all docs	104 docs citations	104 times ranked	3410 citing authors

#	Article	IF	Citations
1	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
2	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
3	A Narrative Review on Axonal Neuroprotection in Multiple Sclerosis. Neurology and Therapy, 2022, 11, 981-1042.	3.2	5
4	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
5	A Role for Xanthurenic Acid in the Control of Brain Dopaminergic Activity. International Journal of Molecular Sciences, 2021, 22, 6974.	4.1	16
6	Gelsemium effect against nerve injury-induced mechanical allodynia and hyperalgesia. International Journal of High Dilution Research, 2021, 18, 06-06.	0.1	0
7	Raman Imaging Reveals Accumulation of Hemoproteins in Plaques from Alzheimerâ€™s Diseased Tissues. ACS Chemical Neuroscience, 2021, 12, 2940-2945.	3.5	6
8	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
9	The TOTEM RRMS (Testosterone Treatment on neuroprotection and Myelin Repair in Relapsing) Tj ETQq1 1 0.784314 rgBT /Overlock 10 placebo-controlled trial. Trials, 2020, 21, 591.	1.6	11
10	Behavioral, Electrophysiological, and Histological Characterization of a New Rat Model for Neoadjuvant Chemotherapyâ€“Induced Neuropathic Pain: Therapeutic Potential of Duloxetine and Allopregnanolone Concomitant Treatment. Neurotoxicity Research, 2020, 38, 145-162.	2.7	5
11	Tryptophan metabolites modify brain AÎ² peptide degradation: A role in Alzheimerâ€™s disease?. Progress in Neurobiology, 2020, 190, 101800.	5.7	34
12	TSPO Ligands Boost Mitochondrial Function and Pregnenolone Synthesis. Journal of Alzheimer's Disease, 2019, 72, 1045-1058.	2.6	38
13	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
14	Neurosteroids and neuropathic pain management: Basic evidence and therapeutic perspectives. Frontiers in Neuroendocrinology, 2019, 55, 100795.	5.2	23
15	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
16	FTY720 controls disease severity and attenuates sciatic nerve damage in chronic experimental autoimmune neuritis. Journal of Neuroinflammation, 2019, 16, 54.	7.2	10
17	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
18	Evidence for effective structureâ€based neuromodulatory effects of new analogues of neurosteroid allopregnanolone. Journal of Neuroendocrinology, 2018, 30, e12568.	2.6	13

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19	Age-related vulnerability of pattern separation in C57BL/6J mice. Neurobiology of Aging, 2018, 62, 120-129.	3.1	20
20	5-HIAA induces neprilysin to ameliorate pathophysiology and symptoms in a mouse model for Alzheimerâ€™s disease. Acta Neuropathologica Communications, 2018, 6, 136.	5.2	26
21	Beneficial effects of Gelsemium-based treatment against paclitaxel-induced painful symptoms. Neurological Sciences, 2018, 39, 2183-2196.	1.9	7
22	Testosterone and estrogen in multiple sclerosis: from pathophysiology to therapeutics. Expert Review of Neurotherapeutics, 2018, 18, 515-522.	2.8	31
23	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
24	An autophagy-targeting peptide to treat chronic inflammatory demyelinating polyneuropathies. Journal of Autoimmunity, 2018, 92, 114-125.	6.5	23
25	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
26	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
27	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
28	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
29	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
30	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
31	Mechanisms for the Specific Properties of Î³â€Hydroxybutyrate in Brain. Medicinal Research Reviews, 2016, 36, 363-388.	10.5	35
32	Neurophysiological responses to unpleasant stimuli (acute electrical stimulations and emotional) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2	3.3	6
33	Xanthurenic acid is localized in neurons in the central nervous system. Neuroscience, 2016, 329, 226-238.	2.3	14
34	Alzheimer, mitochondria and gender. Neuroscience and Biobehavioral Reviews, 2016, 67, 89-101.	6.1	85
35	A proposed preventive role for Gamma-hydroxybutyrate (XyremR) in Alzheimerâ€™s disease. Alzheimer's Research and Therapy, 2016, 8, 37.	6.2	9
36	Sex hormone-related neurosteroids differentially rescue bioenergetic deficits induced by amyloid-Î² or hyperphosphorylated tau protein. Cellular and Molecular Life Sciences, 2016, 73, 201-215.	5.4	79

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37	Local modulation of steroid action: rapid control of enzymatic activity. Frontiers in Neuroscience, 2015, 9, 83.	2.8	39
38	Î³-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
39	HS3ST2 expression is critical for the abnormal phosphorylation of tau in Alzheimerâ€™s disease-related tau pathology. Brain, 2015, 138, 1339-1354.	7.6	75
40	Characterization of a new rat model for chronic inflammatory demyelinating polyneuropathies. Journal of Neuroimmunology, 2015, 278, 1-10.	2.3	15
41	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
42	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
43	Potential role of allopregnanolone for a safe and effective therapy of neuropathic pain. Progress in Neurobiology, 2014, 113, 70-78.	5.7	68
44	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
45	Pharmacological effect of gelsemine on anxiety-like behavior in rat. Behavioural Brain Research, 2013, 253, 90-94.	2.2	40
46	Detecting spatial memory deficits beyond blindness in tg2576 Alzheimer mice. Neurobiology of Aging, 2013, 34, 716-730.	3.1	45
47	The neuroprotector kynurenic acid increases neuronal cell survival through neprilysin induction. Neuropharmacology, 2013, 70, 254-260.	4.1	65
48	Neurosteroid 3Î±-Androstanediol Efficiently Counteracts Paclitaxel-Induced Peripheral Neuropathy and Painful Symptoms. PLoS ONE, 2013, 8, e80915.	2.5	20
49	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
50	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
51	Neonatal ventral hippocampal lesions modify pain perception and evoked potentials in rats. Behavioural Brain Research, 2012, 234, 167-174.	2.2	8
52	Alzheimer's Disease, Oestrogen and Mitochondria: an Ambiguous Relationship. Molecular Neurobiology, 2012, 46, 151-160.	4.0	51
53	Milestones on Steroids and the Nervous System: 10â€ƒYears of Basic and Translational Research. Journal of Neuroendocrinology, 2012, 24, 1-15.	2.6	39
54	Inhibition of the Mitochondrial Enzyme ABAD Restores the Amyloid-Î²-Mediated Deregulation of Estradiol. PLoS ONE, 2011, 6, e28887.	2.5	49

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55	Allopregnanolone prevents and suppresses oxaliplatin-evoked painful neuropathy: Multi-parametric assessment and direct evidence. Pain, 2011, 152, 170-181.	4.2	86
56	Steroids, spinal cord and pain sensation. Hormone Molecular Biology and Clinical Investigation, 2011, 7, 377-84.	0.7	1
57	Comparative Analysis of Gelsemine andGelsemium sempervirensActivity on Neurosteroid Allopregnanolone Formation in the Spinal Cord and Limbic System. Evidence-based Complementary and Alternative Medicine, 2011, 2011, 1-10.	1.2	43
58	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
59	Selective regulation of 3Î±-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
60	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
61	Regulatory effect of dehydroepiandrosterone on spinal cord nociceptive function. Frontiers in Bioscience - Elite, 2010, E2, 1528-1537.	1.8	10
62	Progress in dorsal root ganglion neurosteroidogenic activity: Basic evidence and pathophysiological correlation. Progress in Neurobiology, 2010, 92, 33-41.	5.7	54
63	Calcium and cAMP signaling induced by gamma-hydroxybutyrate receptor(s) stimulation in NCB-20 neurons. Neuroscience, 2010, 167, 49-59.	2.3	5
64	A single acute pharmacological dose of Î³-hydroxybutyrate modifies multiple gene expression patterns in rat hippocampus and frontal cortex. Physiological Genomics, 2010, 41, 146-160.	2.3	19
65	Evidence for a key role of steroids in the modulation of pain. Psychoneuroendocrinology, 2009, 34, S169-S177.	2.7	105
66	Neuroactive steroids: State of the art and new perspectives. Cellular and Molecular Life Sciences, 2008, 65, 777-797.	5.4	208
67	The octadecaneuropeptide ODN stimulates neurosteroid biosynthesis through activation of central-type benzodiazepine receptors. Journal of Neurochemistry, 2008, 76, 128-138.	3.9	48
68	Peripheral neuropathy and neurosteroid formation in the central nervous system. Brain Research Reviews, 2008, 57, 454-459.	9.0	30
69	The biological activity of 3Î±-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
70	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
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	Neurosteroids: Measurement and pathophysiologic relevance. Neurochemistry International, 2008, 52, 503-505.	3.8	24

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73	Dose-dependent and sequence-sensitive effects of amyloid-Î² peptide on neurosteroidogenesis in human neuroblastoma cells. Neurochemistry International, 2008, 52, 948-955.	3.8	38
74	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
75	Selective regulation of neurosteroid biosynthesis in human neuroblastoma cells under hydrogen peroxideâ€“induced oxidative stress condition. Neuroscience, 2008, 151, 758-770.	2.3	23
76	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
77	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
78	Neuroprotective Effects of Neuroactive Steroids in the Spinal Cord and Peripheral Nerves. Journal of Molecular Neuroscience, 2006, 28, 1-2.	2.3	14
79	Neurogenic Pain and Steroid Synthesis in the Spinal Cord. Journal of Molecular Neuroscience, 2006, 28, 17-32.	2.3	78
80	Modulation of neurosteroid production in human neuroblastoma cells by Alzheimer's disease key proteins. Journal of Neurobiology, 2006, 66, 868-881.	3.6	40
81	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
82	Inflammatory Pain Upregulates Spinal Inhibition via Endogenous Neurosteroid Production. Journal of Neuroscience, 2005, 25, 11768-11776.	3.6	95
83	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
84	Effect of streptozotocin-induced diabetes on the gene expression and biological activity of 3Î²-hydroxysteroid dehydrogenase in the rat spinal cord. Neuroscience, 2005, 135, 869-877.	2.3	29
85	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
86	Anatomical and cellular localization of neuroactive 5Î±/3Î±â€reduced steroidâ€synthesizing enzymes in the spinal cord. Journal of Comparative Neurology, 2004, 477, 286-299.	1.6	82
87	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
88	The Triakontatetraneuropeptide (TTN) Stimulates Thymidine Incorporation in Rat Astrocytes Through Peripheral-Type Benzodiazepine Receptors. Journal of Neurochemistry, 2002, 75, 701-707.	3.9	20
89	Neuropeptide Y Inhibits the Biosynthesis of Sulfated Neurosteroids in the Hypothalamus through Activation of Y1 Receptors. Endocrinology, 2002, 143, 1950-1963.	2.8	11
90	Regulation of Neurosteroid Biosynthesis in the Frog Diencephalon by GABA and Endozepines. Hormones and Behavior, 2001, 40, 218-225.	2.1	30

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91	Anatomical and biochemical evidence for the synthesis of unconjugated and sulfated neurosteroids in amphibians. Brain Research Reviews, 2001, 37, 13-24.	9.0	47
92	Immunohistochemical localization of 3Î²-hydroxysteroid dehydrogenase and 5Î±-reductase in the brain of the African lungfishProtopterus annectens. Journal of Comparative Neurology, 2001, 438, 123-135.	1.6	29
93	In vivo regulation of vasomotricity by nitric oxide and prostanoids during gestation. European Journal of Pharmacology, 2001, 427, 143-149.	3.5	13
94	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
95	Immunocytochemical Localization and Biological Activity of Hydroxysteroid Sulfotransferase in the Frog Brain. Journal of Neurochemistry, 1999, 72, 848-857.	3.9	60
96	Application of Confocal Laser-Scanning Microscopy to Comparative Endocrinologya. Annals of the New York Academy of Sciences, 1998, 839, 331-335.	3.8	0
97	The endozepine triakontatetraneuropeptide diazepam-binding inhibitor [17â€“50] stimulates neurosteroid biosynthesis in the frog hypothalamus. Neuroscience, 1998, 83, 555-570.	2.3	57
98	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
99	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