

Stephane Marinesco

List of Publications by Year in descending order

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47
papers

1,942
citations

279487
23
h-index

253896
43
g-index

51
all docs

51
docs citations

51
times ranked

2357
citing authors

#	ARTICLE	IF	CITATIONS
1	Recording, analysis, and interpretation of spreading depolarizations in neurointensive care: Review and recommendations of the COSBID research group. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 1595-1625.	2.4	255
2	Impairment of Glycolysis-Derived L-Serine Production in Astrocytes Contributes to Cognitive Deficits in Alzheimer's Disease. <i>Cell Metabolism</i> , 2020, 31, 503-517.e8.	7.2	160
3	Serotonin Release Evoked by Tail Nerve Stimulation in the CNS of <i>Aplysia</i> : Characterization and Relationship to Heterosynaptic Plasticity. <i>Journal of Neuroscience</i> , 2002, 22, 2299-2312.	1.7	153
4	Is the nucleus raphe dorsalis a target for the peptides possessing hypnogenic properties?. <i>Brain Research</i> , 1994, 637, 211-221.	1.1	119
5	Covalent enzyme immobilization by poly(ethylene glycol) diglycidyl ether (PEGDE) for microelectrode biosensor preparation. <i>Biosensors and Bioelectronics</i> , 2011, 26, 3993-4000.	5.3	111
6	Multiple Serotonergic Mechanisms Contributing to Sensitization in <i>Aplysia</i> : Evidence of Diverse Serotonin Receptor Subtypes. <i>Learning and Memory</i> , 2003, 10, 373-386.	0.5	104
7	Influence of stress duration on the sleep rebound induced by immobilization in the rat: a possible role for corticosterone. <i>Neuroscience</i> , 1999, 92, 921-933.	1.1	93
8	Characterization of a Yeast-D-Amino Acid Oxidase Microbiosensor for D-Serine Detection in the Central Nervous System. <i>Analytical Chemistry</i> , 2008, 80, 1589-1597.	3.2	93
9	Evidence for a sleep-promoting influence of stress. <i>Advances in Neuroimmunology</i> , 1995, 5, 145-154.	1.8	66
10	Serotonergic Modulation in <i>Aplysia</i> . I. Distributed Serotonergic Network Persistently Activated by Sensitizing Stimuli. <i>Journal of Neurophysiology</i> , 2004, 92, 2468-2486.	0.9	59
11	Immobilization Method to Preserve Enzyme Specificity in Biosensors: Consequences for Brain Glutamate Detection. <i>Analytical Chemistry</i> , 2013, 85, 2507-2515.	3.2	54
12	Silicon/SU8 multi-electrode micro-needle for in vivo neurochemical monitoring. <i>Biosensors and Bioelectronics</i> , 2015, 72, 148-155.	5.3	52
13	Amyloid precursor protein maintains constitutive and adaptive plasticity of dendritic spines in adult brain by regulating D-serine homeostasis. <i>EMBO Journal</i> , 2016, 35, 2213-2222.	3.5	46
14	In Vivo D-Serine Hetero-Exchange through Alanine-Serine-Cysteine (ASC) Transporters Detected by Microelectrode Biosensors. <i>ACS Chemical Neuroscience</i> , 2013, 4, 772-781.	1.7	44
15	Serotonergic Modulation in <i>Aplysia</i> . II. Cellular and Behavioral Consequences of Increased Serotonergic Tone. <i>Journal of Neurophysiology</i> , 2004, 92, 2487-2496.	0.9	42
16	Minimally Invasive Microelectrode Biosensors Based on Platinized Carbon Fibers for in Vivo Brain Monitoring. <i>ACS Central Science</i> , 2018, 4, 1751-1760.	5.3	40
17	Altered hypermetabolic response to cortical spreading depolarizations after traumatic brain injury in rats. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 1670-1686.	2.4	34
18	Latent memory for sensitization in <i>Aplysia</i> . <i>Learning and Memory</i> , 2006, 13, 224-229.	0.5	33

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19	Improved electrochemical detection of biogenic amines in <i>Aplysia</i> using base-hydrolyzed cellulose-coated carbon fiber microelectrodes. <i>Journal of Neuroscience Methods</i> , 2002, 117, 87-97.	1.3	30
20	d-Serine diffusion through the blood-brain barrier: Effect on d-serine compartmentalization and storage. <i>Neurochemistry International</i> , 2012, 60, 837-845.	1.9	28
21	Paradoxical roles of serine racemase and D-serine in the G93A mSOD1 mouse model of amyotrophic lateral sclerosis. <i>Journal of Neurochemistry</i> , 2012, 120, 598-610.	2.1	28
22	Microbiosensor based on glucose oxidase and hexokinase co-immobilised on platinum microelectrode for selective ATP detection. <i>Talanta</i> , 2009, 78, 1023-1028.	2.9	25
23	Regulation of Behavioral and Synaptic Plasticity by Serotonin Release within Local Modulatory Fields in the CNS of <i>Aplysia</i> . <i>Journal of Neuroscience</i> , 2006, 26, 12682-12693.	1.7	23
24	Electrochemical Nitric Oxide Microsensors Based on a Fluorinated Xerogel Screening Layer for in Vivo Brain Monitoring. <i>Analytical Chemistry</i> , 2020, 92, 1804-1810.	3.2	23
25	Microelectrode Biosensors for <i>in vivo</i> Analysis of Brain Interstitial Fluid. <i>Electroanalysis</i> , 2018, 30, 977-998.	1.5	22
26	Malignant astrocyte swelling and impaired glutamate clearance drive the expansion of injurious spreading depolarization foci. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2022, 42, 584-599.	2.4	21
27	Effects of tianeptine, sertraline and clomipramine on brain serotonin metabolism: a voltammetric approach in the rat. <i>Brain Research</i> , 1996, 736, 82-90.	1.1	18
28	Evolution of Learning in Three Aplysiid Species: Differences in Heterosynaptic Plasticity Contrast with Conservation in Serotonergic Pathways. <i>Journal of Physiology</i> , 2003, 550, 241-253.	1.3	18
29	Reconstruction of field excitatory post-synaptic potentials in the dentate gyrus from amperometric biosensor signals. <i>Journal of Neuroscience Methods</i> , 2012, 206, 1-6.	1.3	17
30	Influence of a 1-h immobilization stress on sleep and CLIP (ACTH18-39) brain contents in adrenalectomized rats. <i>Brain Research</i> , 2000, 853, 323-329.	1.1	15
31	Identification and Characterization of <i>Aplysia</i> Adducin, an <i>Aplysia</i> Cytoskeletal Protein Homologous to Mammalian Adducins: Increased Phosphorylation at a Protein Kinase C Consensus Site during Long-Term Synaptic Facilitation. <i>Journal of Neuroscience</i> , 2003, 23, 2675-2685.	1.7	13
32	Automated immunohistochemical method to quantify neuronal density in brain sections: Application to neuronal loss after status epilepticus. <i>Journal of Neuroscience Methods</i> , 2014, 225, 32-41.	1.3	12
33	Biochemical neuromonitoring of poor-grade aneurysmal subarachnoid hemorrhage: comparative analysis of metabolic events detected by cerebral microdialysis and by retrograde jugular vein catheterization. <i>Neurological Research</i> , 2015, 37, 578-587.	0.6	12
34	Placing intracerebral probes to optimise detection of delayed cerebral ischemia and allow for the prediction of patient outcome in aneurysmal subarachnoid haemorrhage. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 2820-2832.	2.4	12
35	Neural Circuit of Tail-Elicited Siphon Withdrawal in <i>Aplysia</i> . II. Role of Gated Inhibition in Differential Lateralization of Sensitization and Dishabituation. <i>Journal of Neurophysiology</i> , 2004, 91, 678-692.	0.9	10
36	Evolution of histamine oxidase activity for biotechnological applications. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 739-748.	1.7	10

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37	Micro- and nano-electrodes for neurotransmitter monitoring. <i>Current Opinion in Electrochemistry</i> , 2021, 29, 100746.	2.5	9
38	Enzyme Immobilization on Microelectrode Biosensors. <i>Neuromethods</i> , 2013, , 95-114.	0.2	8
39	Neuronal loss as evidenced by automated quantification of neuronal density following moderate and severe traumatic brain injury in rats. <i>Journal of Neuroscience Research</i> , 2016, 94, 39-49.	1.3	8
40	Microelectrode Designs for Oxidase-Based Biosensors. <i>Neuromethods</i> , 2013, , 3-25.	0.2	7
41	Expression of rat diamine oxidase in <i>Escherichia coli</i> . <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2012, 82, 115-120.	1.8	5
42	Characterization of a D-Amino Acid Oxidase Microbiosensor for D-Serine Detection in the Central Nervous System. , 2007, , .		2
43	Simple and non toxic enzyme immobilization onto platinum electrodes for detection of metabolic molecules in the rat brain using silicon micro-needles. <i>Procedia Engineering</i> , 2011, 25, 1361-1364.	1.2	1
44	Regulation of Extracellular Concentrations of d-Serine in the Central Nervous System Revealed by d-Amino Acid Oxidase Microelectrode Biosensors. <i>Neuromethods</i> , 2013, , 201-219.	0.2	0
45	Age-related impairment of metabovascular coupling during cortical spreading depolarizations. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017, 313, H1209-H1212.	1.5	0
46	Multiphysics Probe for Deep Brain Monitoring of Glioblastoma Environment. <i>Proceedings (mdpi)</i> , 2017, 1, .	0.2	0
47	MONITORING BRAIN INJURY WITH MICROELECTRODE BIOSENSORS. , 2019, , 325-364.		0