

Stefano Luca Sensi

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127
papers

10,191
citations

50
h-index

100
g-index

146
ext. papers

11,171
ext. citations

5.7
avg, IF

5.89
L-index

#	Paper	IF	Citations
127	Brain monoglyceride lipase participating in endocannabinoid inactivation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 10819-24	11.5	1095
126	NCLX is an essential component of mitochondrial Na ⁺ /Ca ²⁺ exchange. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 436-41	11.5	547
125	Zinc in the physiology and pathology of the CNS. <i>Nature Reviews Neuroscience</i> , 2009 , 10, 780-91	13.5	537
124	Mediation of neuronal apoptosis by enhancement of outward potassium current. <i>Science</i> , 1997 , 278, 114-7	33.3	530
123	Zn(2+): a novel ionic mediator of neural injury in brain disease. <i>Trends in Pharmacological Sciences</i> , 2000 , 21, 395-401	13.2	483
122	Measurement of intracellular free zinc in living cortical neurons: routes of entry. <i>Journal of Neuroscience</i> , 1997 , 17, 9554-64	6.6	400
121	Modulation of mitochondrial function by endogenous Zn ²⁺ pools. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 6157-62	11.5	351
120	Preferential Zn ²⁺ influx through Ca ²⁺ -permeable AMPA/kainate channels triggers prolonged mitochondrial superoxide production. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999 , 96, 2414-9	11.5	345
119	AMPA exposures induce mitochondrial Ca(2+) overload and ROS generation in spinal motor neurons in vitro. <i>Journal of Neuroscience</i> , 2000 , 20, 240-50	6.6	257
118	Alzheimer's disease, metal ions and metal homeostatic therapy. <i>Trends in Pharmacological Sciences</i> , 2009 , 30, 346-55	13.2	250
117	The neurophysiology and pathology of brain zinc. <i>Journal of Neuroscience</i> , 2011 , 31, 16076-85	6.6	241
116	Zn(2+) induces permeability transition pore opening and release of pro-apoptotic peptides from neuronal mitochondria. <i>Journal of Biological Chemistry</i> , 2001 , 276, 47524-9	5.4	224
115	The first 17 amino acids of Huntingtin modulate its sub-cellular localization, aggregation and effects on calcium homeostasis. <i>Human Molecular Genetics</i> , 2007 , 16, 61-77	5.6	216
114	Measuring zinc in living cells. A new generation of sensitive and selective fluorescent probes. <i>Cell Calcium</i> , 2002 , 31, 245-51	4	215
113	Staurosporine-induced neuronal apoptosis. <i>Experimental Neurology</i> , 1995 , 135, 153-9	5.7	213
112	Ca ²⁺ -Zn ²⁺ permeable AMPA or kainate receptors: possible key factors in selective neurodegeneration. <i>Trends in Neurosciences</i> , 2000 , 23, 365-71	13.3	211
111	Rapid Ca ²⁺ entry through Ca ²⁺ -permeable AMPA/Kainate channels triggers marked intracellular Ca ²⁺ rises and consequent oxygen radical production. <i>Journal of Neuroscience</i> , 1998 , 18, 7727-38	6.6	184

110	Mechanism and regulation of cellular zinc transport. <i>Molecular Medicine</i> , 2007 , 13, 337-43	6.2	154
109	Involvement of de novo ceramide biosynthesis in tumor necrosis factor-alpha/cycloheximide-induced cerebral endothelial cell death. <i>Journal of Biological Chemistry</i> , 1998 , 273, 16521-6	5.4	152
108	Dietary zinc supplementation of 3xTg-AD mice increases BDNF levels and prevents cognitive deficits as well as mitochondrial dysfunction. <i>Cell Death and Disease</i> , 2010 , 1, e91	9.8	127
107	Blockade of Ca ²⁺ -permeable AMPA/kainate channels decreases oxygen-glucose deprivation-induced Zn ²⁺ accumulation and neuronal loss in hippocampal pyramidal neurons. <i>Journal of Neuroscience</i> , 2002 , 22, 1273-9	6.6	127
106	AMPA/kainate receptor-triggered Zn ²⁺ entry into cortical neurons induces mitochondrial Zn ²⁺ uptake and persistent mitochondrial dysfunction. <i>European Journal of Neuroscience</i> , 2000 , 12, 3813-8	3.5	126
105	Rethinking the excitotoxic ionic milieu: the emerging role of Zn(2+) in ischemic neuronal injury. <i>Current Molecular Medicine</i> , 2004 , 4, 87-111	2.5	125
104	Effects of dietary supplementation of carnosine on mitochondrial dysfunction, amyloid pathology, and cognitive deficits in 3xTg-AD mice. <i>PLoS ONE</i> , 2011 , 6, e17971	3.7	125
103	A new mitochondrial fluorescent zinc sensor. <i>Cell Calcium</i> , 2003 , 34, 281-4	4	124
102	Copper and Zinc Dysregulation in Alzheimer's Disease. <i>Trends in Pharmacological Sciences</i> , 2018 , 39, 1049-1063	11.2	112
101	Oxidative stress and brain aging: is zinc the link?. <i>Biogerontology</i> , 2006 , 7, 307-14	4.5	103
100	Calcium ionophores can induce either apoptosis or necrosis in cultured cortical neurons. <i>Neuroscience</i> , 1999 , 90, 1339-48	3.9	103
99	3-Nitropropionic acid induces apoptosis in cultured striatal and cortical neurons. <i>NeuroReport</i> , 1995 , 6, 545-8	1.7	103
98	Zn ²⁺ currents are mediated by calcium-permeable AMPA/kainate channels in cultured murine hippocampal neurones. <i>Journal of Physiology</i> , 2002 , 543, 35-48	3.9	97
97	Imaging multiple phases of neurodegeneration: a novel approach to assessing cell death in vivo. <i>Cell Death and Disease</i> , 2010 , 1, e3	9.8	90
96	Zinc dyshomeostasis: a key modulator of neuronal injury. <i>Journal of Alzheimer's Disease</i> , 2005 , 8, 93-108; discussion 209-15	4.3	87
95	Zinc-dependent multi-conductance channel activity in mitochondria isolated from ischemic brain. <i>Journal of Neuroscience</i> , 2006 , 26, 6851-62	6.6	86
94	Mitochondrial sequestration and Ca(2+)-dependent release of cytosolic Zn(2+) loads in cortical neurons. <i>Neurobiology of Disease</i> , 2002 , 10, 100-8	7.5	73
93	Dendritic localization of Ca ²⁺ -permeable AMPA/kainate channels in hippocampal pyramidal neurons. <i>Journal of Comparative Neurology</i> , 1999 , 409, 250-260	3.4	71

92	Aluminum modulates effects of beta amyloid(1-42) on neuronal calcium homeostasis and mitochondria functioning and is altered in a triple transgenic mouse model of Alzheimer's disease. <i>Rejuvenation Research</i> , 2008 , 11, 861-71	2.6	66
91	New therapeutic targets in Alzheimer's disease: brain deregulation of calcium and zinc. <i>Cell Death and Disease</i> , 2011 , 2, e176	9.8	64
90	Measurement of intracellular free zinc in living neurons. <i>Neurobiology of Disease</i> , 1997 , 4, 275-9	7.5	62
89	Sublethal oxygen-glucose deprivation alters hippocampal neuronal AMPA receptor expression and vulnerability to kainate-induced death. <i>Journal of Neuroscience</i> , 1997 , 17, 9536-44	6.6	60
88	A sodium zinc exchange mechanism is mediating extrusion of zinc in mammalian cells. <i>Journal of Biological Chemistry</i> , 2004 , 279, 4278-84	5.4	58
87	Cortical neurones exhibiting kainate-activated Co^{2+} uptake are selectively vulnerable to AMPA/kainate receptor-mediated toxicity. <i>Neurobiology of Disease</i> , 1994 , 1, 101-10	7.5	56
86	Glutamate triggers preferential Zn^{2+} flux through Ca^{2+} permeable AMPA channels and consequent ROS production. <i>NeuroReport</i> , 1999 , 10, 1723-7	1.7	54
85	Combination training in aging individuals modifies functional connectivity and cognition, and is potentially affected by dopamine-related genes. <i>PLoS ONE</i> , 2012 , 7, e43901	3.7	52
84	The mitochondrial Na^{+}/Ca^{2+} exchanger upregulates glucose dependent Ca^{2+} signalling linked to insulin secretion. <i>PLoS ONE</i> , 2012 , 7, e46649	3.7	52
83	Extracellular acidity potentiates AMPA receptor-mediated cortical neuronal death. <i>Journal of Neuroscience</i> , 1998 , 18, 6290-9	6.6	52
82	Altered Kv2.1 functioning promotes increased excitability in hippocampal neurons of an Alzheimer's disease mouse model. <i>Cell Death and Disease</i> , 2016 , 7, e2100	9.8	51
81	Effects of long-term treatment with pioglitazone on cognition and glucose metabolism of PS1-KI, 3xTg-AD, and wild-type mice. <i>Cell Death and Disease</i> , 2012 , 3, e448	9.8	51
80	Exenatide promotes cognitive enhancement and positive brain metabolic changes in PS1-KI mice but has no effects in 3xTg-AD animals. <i>Cell Death and Disease</i> , 2013 , 4, e612	9.8	50
79	Method for identifying neuronal cells suffering zinc toxicity by use of a novel fluorescent sensor. <i>Journal of Neuroscience Methods</i> , 2004 , 139, 79-89	3	50
78	Delayed application of aurintricarboxylic acid reduces glutamate-induced cortical neuronal injury. <i>Journal of Neuroscience Research</i> , 1994 , 38, 101-8	4.4	50
77	Heavy metal ions in normal physiology, toxic stress, and cytoprotection. <i>Annals of the New York Academy of Sciences</i> , 2007 , 1113, 159-72	6.5	46
76	Intracellular zinc is a critical intermediate in the excitotoxic cascade. <i>Neurobiology of Disease</i> , 2015 , 81, 25-37	7.5	43
75	Characterization of MPP(+)-induced cell death in a dopaminergic neuronal cell line: role of macromolecule synthesis, cytosolic calcium, caspase, and Bcl-2-related proteins. <i>Experimental Neurology</i> , 1999 , 159, 274-82	5.7	43

74	Alterations of brain and cerebellar proteomes linked to Aβ and tau pathology in a female triple-transgenic murine model of Alzheimer's disease. <i>Cell Death and Disease</i> , 2010 , 1, e90	9.8	41
73	Medium-chain plasma acylcarnitines, ketone levels, cognition, and gray matter volumes in healthy elderly, mildly cognitively impaired, or Alzheimer's disease subjects. <i>Neurobiology of Aging</i> , 2016 , 43, 1-12	5.6	40
72	Altered oxidant-mediated intraneuronal zinc mobilization in a triple transgenic mouse model of Alzheimer's disease. <i>Experimental Gerontology</i> , 2008 , 43, 488-92	4.5	40
71	Acute effects of modafinil on brain resting state networks in young healthy subjects. <i>PLoS ONE</i> , 2013 , 8, e69224	3.7	38
70	Exenatide exerts cognitive effects by modulating the BDNF-TrkB neurotrophic axis in adult mice. <i>Neurobiology of Aging</i> , 2018 , 64, 33-43	5.6	37
69	Pyruvate prevents the development of age-dependent cognitive deficits in a mouse model of Alzheimer's disease without reducing amyloid and tau pathology. <i>Neurobiology of Disease</i> , 2015 , 81, 214-24	7.5	33
68	Characterization of resting state activity in MCI individuals. <i>PeerJ</i> , 2013 , 1, e135	3.1	32
67	Hallucinations, somatic-functional disorders of PD-DLB as expressions of thalamic dysfunction. <i>Movement Disorders</i> , 2019 , 34, 1100-1111	7	31
66	Early and sustained altered expression of aging-related genes in young 3xTg-AD mice. <i>Cell Death and Disease</i> , 2014 , 5, e1054	9.8	31
65	Ratiometric-pericam-mt, a novel tool to evaluate intramitochondrial zinc. <i>Experimental Neurology</i> , 2009 , 218, 228-34	5.7	31
64	Effects of non-pharmacological or pharmacological interventions on cognition and brain plasticity of aging individuals. <i>Frontiers in Systems Neuroscience</i> , 2014 , 8, 153	3.5	29
63	Nitric oxide reduces Ca(2+) and Zn(2+) influx through voltage-gated Ca(2+) channels and reduces Zn(2+) neurotoxicity. <i>Neuroscience</i> , 2000 , 100, 651-61	3.9	29
62	A Stage-Based Approach to Therapy in Parkinson's Disease. <i>Biomolecules</i> , 2019 , 9,	5.9	28
61	The pharmacological perturbation of brain zinc impairs BDNF-related signaling and the cognitive performances of young mice. <i>Scientific Reports</i> , 2018 , 8, 9768	4.9	28
60	Age-Dependent Modifications of AMPA Receptor Subunit Expression Levels and Related Cognitive Effects in 3xTg-AD Mice. <i>Frontiers in Aging Neuroscience</i> , 2014 , 6, 200	5.3	26
59	Zinc pre-treatment enhances NMDAR-mediated excitotoxicity in cultured cortical neurons from SOD1(G93A) mouse, a model of amyotrophic lateral sclerosis. <i>Neuropharmacology</i> , 2011 , 60, 1200-8	5.5	25
58	Microarray analysis on human neuroblastoma cells exposed to aluminum, (1-42)-amyloid or the (1-42)-amyloid aluminum complex. <i>PLoS ONE</i> , 2011 , 6, e15965	3.7	23
57	Exenatide Reverts the High-Fat-Diet-Induced Impairment of BDNF Signaling and Inflammatory Response in an Animal Model of Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2019 , 70, 793-810	4.3	22

56	Elevated plasma ceramide levels in post-menopausal women: a cross-sectional study. <i>Aging</i> , 2019 , 11, 73-88	5.6	20
55	Functional signature of conversion of patients with mild cognitive impairment. <i>Neurobiology of Aging</i> , 2019 , 74, 21-37	5.6	20
54	Towards Combinatorial Approaches for Preserving Cognitive Fitness in Aging. <i>Trends in Neurosciences</i> , 2018 , 41, 885-897	13.3	20
53	Modafinil alters intrinsic functional connectivity of the right posterior insula: a pharmacological resting state fMRI study. <i>PLoS ONE</i> , 2014 , 9, e107145	3.7	19
52	The Pharmacology of Visual Hallucinations in Synucleinopathies. <i>Frontiers in Pharmacology</i> , 2019 , 10, 1379	5.6	18
51	Antioxidant strategies based on tomato-enriched food or pyruvate do not affect disease onset and survival in an animal model of amyotrophic lateral sclerosis. <i>Brain Research</i> , 2007 , 1168, 90-6	3.7	17
50	nNOS(+) striatal neurons, a subpopulation spared in Huntington's Disease, possess functional NMDA receptors but fail to generate mitochondrial ROS in response to an excitotoxic challenge. <i>Frontiers in Physiology</i> , 2013 , 4, 112	4.6	16
49	Decreased presence of perforated synapses in a triple-transgenic mouse model of Alzheimer's disease. <i>Rejuvenation Research</i> , 2008 , 11, 309-13	2.6	15
48	Acidosis enhances toxicity induced by kainate and zinc exposure in aged cultured astrocytes. <i>Biogerontology</i> , 2006 , 7, 367-74	4.5	15
47	Glutamate receptor-mediated calcium entry in neurons derived from P19 embryonal carcinoma cells. <i>Journal of Neuroscience Research</i> , 1996 , 45, 226-36	4.4	15
46	Decreased numeric density of succinic dehydrogenase-positive mitochondria in CA1 pyramidal neurons of 3xTg-AD mice. <i>Rejuvenation Research</i> , 2010 , 13, 144-7	2.6	14
45	Psychogenic Non-epileptic Seizures and Pseudo-Refractory Epilepsy, a Management Challenge. <i>Frontiers in Neurology</i> , 2020 , 11, 461	4.1	13
44	Mild acidosis enhances AMPA receptor-mediated intracellular zinc mobilization in cortical neurons. <i>Molecular Medicine</i> , 2007 , 13, 356-61	6.2	13
43	Alemtuzumab treatment of multiple sclerosis in real-world clinical practice: A report from a single Italian center. <i>Multiple Sclerosis and Related Disorders</i> , 2020 , 38, 101504	4	13
42	The thiol-modifying agent N-ethylmaleimide elevates the cytosolic concentration of free Zn(2+) but not of Ca(2+) in murine cortical neurons. <i>Cell Calcium</i> , 2010 , 48, 37-43	4	12
41	The Italian dementia with Lewy bodies study group (DLB-SINdem): toward a standardization of clinical procedures and multicenter cohort studies design. <i>Neurological Sciences</i> , 2017 , 38, 83-91	3.5	10
40	A Neurotoxic : Glutamate, Calcium, and Zinc in the Excitotoxic Cascade. <i>Frontiers in Molecular Neuroscience</i> , 2020 , 13, 600089	6.1	10
39	Interictal Heart Rate Variability Analysis Reveals Lateralization of Cardiac Autonomic Control in Temporal Lobe Epilepsy. <i>Frontiers in Neurology</i> , 2020 , 11, 842	4.1	10

38	Characterisation of element profile changes induced by long-term dietary supplementation of zinc in the brain and cerebellum of 3xTg-AD mice by alternated cool and normal plasma ICP-MS. <i>Metallomics</i> , 2012 , 4, 1321-32	4.5	9
37	Therapeutic Potentials of Ketamine and Esketamine in Obsessive-Compulsive Disorder (OCD), Substance Use Disorders (SUD) and Eating Disorders (ED): A Review of the Current Literature. <i>Brain Sciences</i> , 2021 , 11,	3.4	9
36	Left hippocampus-amygdala complex macro- and microstructural variation is associated with BDNF plasma levels in healthy elderly individuals. <i>Brain and Behavior</i> , 2015 , 5, e00334	3.4	8
35	Copper Imbalance in Alzheimer's Disease: Meta-Analysis of Serum, Plasma, and Brain Specimens, and Replication Study Evaluating Gene Variants. <i>Biomolecules</i> , 2021 , 11,	5.9	7
34	New daily persistent headache after SARS-CoV-2 infection: a report of two cases. <i>Neurological Sciences</i> , 2021 , 42, 3965-3968	3.5	7
33	Modafinil-Induced Changes in Functional Connectivity in the Cortex and Cerebellum of Healthy Elderly Subjects. <i>Frontiers in Aging Neuroscience</i> , 2017 , 9, 85	5.3	6
32	Ascertainment bias in dementias: a secondary to tertiary centre analysis in Central Italy and conceptual review. <i>Aging Clinical and Experimental Research</i> , 2013 , 25, 265-74	4.8	5
31	Inhibition of ceramide biosynthesis affects aging phenotype in an model of neuronal senescence. <i>Aging</i> , 2019 , 11, 6336-6357	5.6	5
30	High γ -Aminobutyric Acid Content Within the Medial Prefrontal Cortex Is a Functional Signature of Somatic Symptoms Disorder in Patients With Parkinson's Disease. <i>Movement Disorders</i> , 2020 , 35, 2184-2192	7.92	5
29	Posterior Variant of Alien Limb Syndrome with Sudden Clinical Onset as Self-Hitting Associated with Thalamic Stroke. <i>Case Reports in Neurology</i> , 2020 , 12, 35-39	1	4
28	Influence of and on Behavioral and Cognitive Features of Female Patients Affected by Mild Cognitive Impairment or Alzheimer's Disease. <i>Frontiers in Aging Neuroscience</i> , 2018 , 10, 92	5.3	4
27	Suicidal Behavior and Club Drugs in Young Adults. <i>Brain Sciences</i> , 2021 , 11,	3.4	4
26	Metal homeostasis in dementia. <i>Free Radical Biology and Medicine</i> , 2014 , 75 Suppl 1, S9	7.8	3
25	Subclinical Cognitive and Neuropsychiatric Correlates and Hippocampal Volume Features of Brain White Matter Hyperintensity in Healthy People. <i>Journal of Personalized Medicine</i> , 2020 , 10,	3.6	3
24	Agitation and Dementia: Prevention and Treatment Strategies in Acute and Chronic Conditions. <i>Frontiers in Neurology</i> , 2021 , 12, 644317	4.1	3
23	Preexisting Bipolar Disorder Influences the Subsequent Phenotype of Parkinson's Disease. <i>Movement Disorders</i> , 2021 ,	7	3
22	Cerebral venous thrombosis without thrombocytopenia after a single dose of COVID-19 (Ad26.CO2.S) vaccine injection: a case report.. <i>Neurological Sciences</i> , 2022 , 1	3.5	3
21	Zn ²⁺ , mitochondria and neuronal injury. <i>Journal of Neurochemistry</i> , 2003 , 85, 10-10	6	2

20	Non-Ceruloplasmin Copper as a Stratification Biomarker of Alzheimer's Disease Patients: How to Measure and Use It. <i>Current Alzheimer Research</i> , 2021 , 18, 533-545	3	2
19	Exenatide reverts the high-fat-diet-induced impairment of BDNF signaling and inflammatory response in an animal model of Alzheimer's disease		2
18	The Factitious/malingering continuum and its burden on public health costs: a review and experience in an Italian neurology setting. <i>Neurological Sciences</i> , 2021 , 42, 4073-4083	3.5	2
17	Data of safety in a single-center alemtuzumab treated population. <i>Data in Brief</i> , 2020 , 29, 105341	1.2	1
16	Delirium in COVID-19 patients: a multicentric observational study in Italy. <i>Neurological Sciences</i> , 2021 , 42, 3981-3988	3.5	1
15	Structural effects of stabilization and complexation of a zinc-deficient superoxide dismutase. <i>Heliyon</i> , 2021 , 7, e06100	3.6	1
14	Acting Before; A Combined Strategy to Counteract the Onset and Progression of Dementia. <i>Current Alzheimer Research</i> , 2020 , 17, 790-804	3	1
13	Zinc Homeostasis and Brain Injury 2007 , 221-244		1
12	Zinc Dyshomeostasis in Neuronal Injury 2005 , 139-157		0
11	Heart rate variability is reduced during the menstrual phase in women with catamenial C1-type temporal lobe epilepsy.. <i>Epilepsy and Behavior</i> , 2021 , 127, 108508	3.2	0
10	Functional neurological disorder and somatic symptom disorder in Parkinson's disease. <i>Journal of the Neurological Sciences</i> , 2021 , 120017	3.2	0
9	A Critical Review of Alien Limb-Related Phenomena and Implications for Functional Magnetic Resonance Imaging Studies. <i>Frontiers in Neurology</i> , 2021 , 12, 661130	4.1	0
8	Anti N-methyl-D-aspartate receptor (NMDAr) encephalitis during pregnancy: A case report.. <i>Epilepsy and Behavior Reports</i> , 2022 , 19, 100535	1.3	0
7	Perampanel enhances the cardiovagal tone and heart rate variability (HRV) in patients with drug-resistant temporal lobe epilepsy.. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2022 , 99, 16-23	3.2	0
6	Minocycline-A Lesson From a Failure. <i>JAMA Neurology</i> , 2020 , 77, 1037-1038	17.2	
5	Microarray analysis of gene expression profiles in human neuroblastoma cells exposed to A β n and A β u complexes. <i>Future Neurology</i> , 2012 , 7, 483-497	1.5	
4	Carnosine as a modulator of endogenous Zn ²⁺ effects. <i>Trends in Pharmacological Sciences</i> , 2001 , 22, 113	13.2	
3	Levetiracetam Prophylaxis Therapy for Brain Tumor-Related Epilepsy (BTRE) Is Associated With a Higher Psychiatric Burden.. <i>Frontiers in Neurology</i> , 2021 , 12, 806839	4.1	

2 Alzheimer's disease, the road ahead. *Journal of Cellular Neuroscience and Oxidative Stress*, **2019**, 11, 6-6 0.3

1 An Atypical Presentation of CLIPPERS, a Challenging Diagnosis of Reversible Early-Onset Dementia. *Case Reports in Neurology*, **2020**, 12, 307-313 1