Christian-Alexandre Castellano

List of Publications by Year
in descending order

50 papers	2,429 citations	257357 24 h-index	214721 47 g-index
51 all docs	51 docs citations	51 times ranked	2460 citing authors

#	Article	IF	Citations
1	A cross-sectional comparison of brain glucose and ketone metabolism in cognitively healthy older adults, mild cognitive impairment and early Alzheimer's disease. Experimental Gerontology, 2018, 107, 18-26.	1.2	178
2	Can ketones compensate for deteriorating brain glucose uptake during aging? Implications for the risk and treatment of Alzheimer's disease. Annals of the New York Academy of Sciences, 2016, 1367, 12-20.	1.8	172
3	Lower Brain 18F-Fluorodeoxyglucose Uptake But Normal 11C-Acetoacetate Metabolism in Mild Alzheimer's Disease Dementia. Journal of Alzheimer's Disease, 2014, 43, 1343-1353.	1.2	148
4	Can Ketones Help Rescue Brain Fuel Supply in Later Life? Implications for Cognitive Health during Aging and the Treatment of Alzheimerâ€™s Disease. Frontiers in Molecular Neuroscience, 2016, 9, 53.	1.4	148
5	A ketogenic drink improves brain energy and some measures of cognition in mild cognitive impairment. Alzheimer's and Dementia, 2019, 15, 625-634.	0.4	137
6	Modified ketogenic diet is associated with improved cerebrospinal fluid biomarker profile, cerebral perfusion, and cerebral ketone body uptake in older adults at risk for Alzheimerâ€™s disease: a pilot study. Neurobiology of Aging, 2020, 86, 54-63.	1.5	136
7	Inverse relationship between brain glucose and ketone metabolism in adults during short-term moderate dietary ketosis: A dual tracer quantitative positron emission tomography study. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 2485-2493.	2.4	126
8	Brain glucose and acetoacetate metabolism: a comparison of young and older adults. Neurobiology of Aging, 2014, 35, 1386-1395.	1.5	116
9	Normative Data for the Montreal Cognitive Assessment in Middle-Aged and Elderly Quebec-French People. Archives of Clinical Neuropsychology, 2016, 31, 819-826.	0.3	104
10	Ketogenic Medium Chain Triglycerides Increase Brain Energy Metabolism in Alzheimerâ€™s Disease. Journal of Alzheimer's Disease, 2018, 64, 551-561.	1.2	104
11	A ketogenic drink improves cognition in mild cognitive impairment: Results of a 6â€month RCT. Alzheimer's and Dementia, 2021, 17, 543-552.	0.4	92
12	Stimulation of mild, sustained ketonemia by medium-chain triacylglycerols in healthy humans: Estimated potential contribution to brain energy metabolism. Nutrition, 2013, 29, 635-640.	1.1	84
13	Docosahexaenoic acid homeostasis, brain aging and Alzheimer's disease: Can we reconcile the evidence?. Prostaglandins Leukotrienes and Essential Fatty Acids, 2013, 88, 61-70.	1.0	74
14	Tricaprylin Alone Increases Plasma Ketone Response More Than Coconut Oil or Other Medium-Chain Triglycerides: An Acute Crossover Study in Healthy Adults. Current Developments in Nutrition, 2017, 1, e000257.	0.1	55
15	Plasma Ketone and Medium Chain Fatty Acid Response in Humans Consuming Different Medium Chain Triglycerides During a Metabolic Study Day. Frontiers in Nutrition, 2019, 6, 46.	1.6	49
16	A 3-Month Aerobic Training Program Improves Brain Energy Metabolism inÂMildÂAlzheimerâ€™s Disease: Preliminary Results from a Neuroimaging Study. Journal of Alzheimer's Disease, 2017, 56, 1459-1468.	1.2	48
17	Dietary omega-3 fatty acids (fish oils) have limited effects on boar semen stored at 17 Â°C or cryopreserved. Theriogenology, 2010, 74, 1482-1490.	0.9	46
18	Effect of dietary n-3 fatty acids (fish oils) on boar reproduction and semen quality1. Journal of Animal Science, 2010, 88, 2346-2355.	0.2	44

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19	Metabolism of Exogenous D-Beta-Hydroxybutyrate, an Energy Substrate Avidly Consumed by the Heart and Kidney. Frontiers in Nutrition, 2020, 7, 13.	1.6	44
20	Glucose hypometabolism is highly localized, but lower cortical thickness and brain atrophy are widespread in cognitively normal older adults. American Journal of Physiology - Endocrinology and Metabolism, 2014, 306, E1315-E1321.	1.8	43
21	Spatial distribution of resting-state BOLD regional homogeneity as a predictor of brain glucose uptake: A study in healthy aging. NeuroImage, 2017, 150, 14-22.	2.1	43
22	Ageing and apoE change DHA homeostasis: relevance to age-related cognitive decline. Proceedings of the Nutrition Society, 2014, 73, 80-86.	0.4	34
23	Selection of the optimal intensity normalization region for FDG-PET studies of normal aging and Alzheimerâ€™s disease. Scientific Reports, 2020, 10, 9261.	1.6	32
24	Regional Brain Glucose Hypometabolism in Young Women with Polycystic Ovary Syndrome: Possible Link to Mild Insulin Resistance. PLoS ONE, 2015, 10, e0144116.	1.1	31
25	Links Between Metabolic and Structural Changes in the Brain of Cognitively Normal Older Adults: A 4-Year Longitudinal Follow-Up. Frontiers in Aging Neuroscience, 2019, 11, 15.	1.7	27
26	Long-chain n-3 PUFAs from fish oil enhance resting state brain glucose utilization and reduce anxiety in an adult nonhuman primate, the grey mouse lemur. Journal of Lipid Research, 2015, 56, 1511-1518.	2.0	26
27	Emulsification Increases the Acute Ketogenic Effect and Bioavailability of Medium-Chain Triglycerides in Humans. Current Developments in Nutrition, 2017, 1, e000851.	0.1	26
28	Medium Chain Triglycerides Modulate the Ketogenic Effect of a Metabolic Switch. Frontiers in Nutrition, 2020, 7, 3.	1.6	25
29	Fish oil diets alter the phospholipid balance, fatty acid composition, and steroid hormone concentrations in testes of adult pigs. Theriogenology, 2011, 76, 1134-1145.	0.9	22
30	Relationship of metabolic and endocrine parameters to brain glucose metabolism in older adults: do cognitively-normal older adults have a particular metabolic phenotype?. Biogerontology, 2016, 17, 241-255.	2.0	20
31	Caffeine intake increases plasma ketones: an acute metabolic study in humans. Canadian Journal of Physiology and Pharmacology, 2017, 95, 455-458.	0.7	16
32	Fascicle- and Glucose-Specific Deterioration in White Matter Energy Supply in Alzheimerâ€™s Disease. Journal of Alzheimer's Disease, 2020, 76, 863-881.	1.2	16
33	The effect of a 6-month ketogenic medium-chain triglyceride supplement on plasma cardiometabolic and inflammatory markers in mild cognitive impairment.. Prostaglandins Leukotrienes and Essential Fatty Acids, 2021, 169, 102236.	1.0	16
34	A ketogenic supplement improves white matter energy supply and processing speed in mild cognitive impairment. Alzheimer's and Dementia: Translational Research and Clinical Interventions, 2021, 7, e12217.	1.8	16
35	Thyroid function and cognition in the euthyroid elderly: A caseâ€“control study embedded in Quebec longitudinal study â€“ NuAge. Psychoneuroendocrinology, 2013, 38, 1772-1776.	1.3	15
36	Tractography of the external capsule and cognition: A diffusion MRI study of cholinergic fibers. Experimental Gerontology, 2020, 130, 110792.	1.2	14

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37	Fish oil diets do not improve insulin sensitivity and secretion in healthy adult male pigs. British Journal of Nutrition, 2010, 103, 189-196.	1.2	13
38	Volumetric MRI Demonstrates Atrophy of the Olfactory Cortex in AD. Current Alzheimer Research, 2021, 17, 904-915.	0.7	13
39	Butyrate is more ketogenic than leucine or octanoate-monoacylglycerol in healthy adult humans. Journal of Functional Foods, 2017, 32, 170-175.	1.6	12
40	Preliminary evaluation of a differential effect of an Î±-linolenate-rich supplement on ketogenesis and plasma Ï‰-3 fatty acids in young and older adults. Nutrition, 2016, 32, 1211-1216.	1.1	10
41	A ketogenic intervention improves dorsal attention network functional and structural connectivity in mild cognitive impairment. Neurobiology of Aging, 2022, 115, 77-87.	1.5	10
42	Ketogenic response to cotreatment with bezafibrate and medium chain triacylglycerols in healthy humans. Nutrition, 2015, 31, 1255-1259.	1.1	9
43	Automated synthesis of 1-[11C]acetoacetate on a TRASIS AIO module. Applied Radiation and Isotopes, 2017, 129, 57-61.	0.7	9
44	A short-term intervention combining aerobic exercise with medium-chain triglycerides (MCT) is more ketogenic than either MCT or aerobic exercise alone: a comparison of normoglycemic and prediabetic older women. Applied Physiology, Nutrition and Metabolism, 2019, 44, 66-73.	0.9	9
45	Safety of dietary conjugated Î±-linolenic acid (CLNA) in a neonatal pig model. Food and Chemical Toxicology, 2014, 64, 119-125.	1.8	6
46	Dietary conjugated Î±-linolenic acid did not improve glucose tolerance in a neonatal pig model. European Journal of Nutrition, 2014, 53, 761-768.	1.8	5
47	Temporal Lobe Atrophy May Be Underrecognized in Older Patients with New-Onset Epilepsy. Canadian Journal of Neurological Sciences, 2016, 43, 731-734.	0.3	4
48	P1â€271: Dualâ€Tracer Acetoacetate and Glucose Metabolism are Associated With Neuropathologic Amyloid Burden and Alzheimerâ€™s Biomarkers in The CSF. Alzheimer's and Dementia, 2016, 12, P519.	0.4	1
49	New insights into docosahexaenoic acid homeostasis during age-;related cognitive decline. Lipid Technology, 2014, 26, 79-81.	0.3	0
50	Ketones and brain development: Implications for correcting deteriorating brain glucose metabolism during aging. OCL - Oilseeds and Fats, Crops and Lipids, 2016, 23, D110.	0.6	0