

# Chidambaram Saravana Babu

## List of Publications by Year in descending order

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77  
papers

1,722  
citations

279778

23  
h-index

345203

36  
g-index

79  
all docs

79  
docs citations

79  
times ranked

2218  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dendritic spines: Revisiting the physiological role. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2019, 92, 161-193.	4.8	165
2	Benefits of curcumin in brain disorders. BioFactors, 2019, 45, 666-689.	5.4	117
3	Sleep Deprivation and Neurological Disorders. BioMed Research International, 2020, 2020, 1-19.	1.9	88
4	Total oligomeric flavonoids of Cyperus rotundus ameliorates neurological deficits, excitotoxicity and behavioral alterations induced by cerebral ischemicâ€“reperfusion injury in rats. Brain Research Bulletin, 2011, 84, 394-405.	3.0	67
5	Gut dysbiosis, defective autophagy and altered immune responses in neurodegenerative diseases: Tales of a vicious cycle. , 2022, 231, 107988.		59
6	Telmisartan attenuates MPTP induced dopaminergic degeneration and motor dysfunction through regulation of Î±-synuclein and neurotrophic factors (BDNF and GDNF) expression in C57BL/6J mice. Neuropharmacology, 2013, 73, 98-110.	4.1	58
7	Does COVIDâ€“19 contribute to development of neurological disease?. Immunity, Inflammation and Disease, 2021, 9, 48-58.	2.7	57
8	The Influence of Gut Dysbiosis in the Pathogenesis and Management of Ischemic Stroke. Cells, 2022, 11, 1239.	4.1	55
9	Phosphodiesterase-4 enzyme as a therapeutic target in neurological disorders. Pharmacological Research, 2020, 160, 105078.	7.1	54
10	Evaluation of behavioural and antioxidant activity of Cytisus scoparius Link in rats exposed to chronic unpredictable mild stress. BMC Complementary and Alternative Medicine, 2008, 8, 15.	3.7	53
11	Postâ€“ischemic administration of nimodipine following focal cerebral ischemicâ€“reperfusion injury in rats alleviated excitotoxicity, neurobehavioural alterations and partially the bioenergetics. International Journal of Developmental Neuroscience, 2011, 29, 93-105.	1.6	52
12	Naringenin Decreases Î±-Synuclein Expression and Neuroinflammation in MPTP-Induced Parkinsonâ€“s Disease Model in Mice. Neurotoxicity Research, 2018, 33, 656-670.	2.7	52
13	Protective Effects of Antioxidants in Huntingtonâ€“s Disease: an Extensive Review. Neurotoxicity Research, 2019, 35, 739-774.	2.7	50
14	Pre-ischemic treatment with memantine reversed the neurochemical and behavioural parameters but not energy metabolites in middle cerebral artery occluded rats. Pharmacology Biochemistry and Behavior, 2009, 92, 424-432.	2.9	41
15	Effects of rolipram and roflumilast, phosphodiesterase-4 inhibitors, on hypertension-induced defects in memory function in rats. European Journal of Pharmacology, 2015, 746, 138-147.	3.5	41
16	Mechanistic Insights into the Link between Gut Dysbiosis and Major Depression: An Extensive Review. Cells, 2022, 11, 1362.	4.1	40
17	Preclinical animal studies in ischemic stroke: Challenges and some solutions. Animal Models and Experimental Medicine, 2021, 4, 104-115.	3.3	34
18	Effects of Sleep Deprivation on the Tryptophan Metabolism. International Journal of Tryptophan Research, 2020, 13, 117864692097090.	2.3	31

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19	Neuroinflammation Mechanisms and Phytotherapeutic Intervention: A Systematic Review. ACS Chemical Neuroscience, 2020, 11, 3707-3731.	3.5	31
20	Phosphodiesterase-4 inhibitors ameliorates cognitive deficits in deoxycorticosterone acetate induced hypertensive rats via cAMP/CREB signaling system. Brain Research, 2015, 1622, 279-291.	2.2	30
21	Demethoxycurcumin, a natural derivative of curcumin abrogates rotenone-induced dopamine depletion and motor deficits by its antioxidative and anti-inflammatory properties in Parkinsonian rats. Pharmacognosy Magazine, 2018, 14, 9.	0.6	30
22	Cuminum cyminum, a Dietary Spice, Attenuates Hypertension via Endothelial Nitric Oxide Synthase and NO Pathway in Renovascular Hypertensive Rats. Clinical and Experimental Hypertension, 2013, 35, 534-542.	1.3	27
23	Amelioration of Aluminum Maltolate-Induced Inflammation and Endoplasmic Reticulum Stress-Mediated Apoptosis by Tannoid Principles of Emblica officinalis in Neuronal Cellular Model. Neurotoxicity Research, 2019, 35, 318-330.	2.7	26
24	Therapeutic benefits of flavonoids against neuroinflammation: a systematic review. Inflammopharmacology, 2022, 30, 111-136.	3.9	26
25	Asiatic acid nullified aluminium toxicity in in vitro model of Alzheimer's disease. Frontiers in Bioscience - Elite, 2018, 10, 287-299.	1.8	24
26	Cocoa beans improve mitochondrial biogenesis via PPAR $\beta$ /PGC1 $\alpha$ dependent signalling pathway in MPP <sup>+</sup> intoxicated human neuroblastoma cells (SH-SY5Y). Nutritional Neuroscience, 2020, 23, 471-480.	3.1	20
27	Memantine exerts functional recovery by improving BDNF and GDNF expression in 3-nitropropionic acid intoxicated mice. Neuroscience Letters, 2015, 586, 1-7.	2.1	18
28	Development and Validation of an HPTLC Method for Simultaneous Estimation of Excitatory Neurotransmitters in Rat Brain. Journal of Liquid Chromatography and Related Technologies, 2007, 30, 2891-2902.	1.0	17
29	A systems biology approach towards the identification of candidate therapeutic genes and potential biomarkers for Parkinson's disease. PLoS ONE, 2019, 14, e0220995.	2.5	17
30	Possible role of tryptophan and melatonin in COVID-19. International Journal of Tryptophan Research, 2020, 13, 117864692095183.	2.3	17
31	Mitochondria-Endoplasmic Reticulum Crosstalk in Parkinson's Disease: The Role of Brain Renin Angiotensin System Components. Biomolecules, 2021, 11, 1669.	4.0	17
32	Alteration in Bioenergetic Regulators, SirT1 and Parp1 Expression Precedes Oxidative Stress in Rats Subjected to Transient Cerebral Focal Ischemia: Molecular and Histopathologic Evidences. Journal of Stroke and Cerebrovascular Diseases, 2014, 23, 2753-2766.	1.6	16
33	Simultaneous blockade of NMDA receptors and PARP-1 activity synergistically alleviate immunoexcitotoxicity and bioenergetics in 3-nitropropionic acid intoxicated mice: Evidences from memantine and 3-aminobenzamide interventions. European Journal of Pharmacology, 2017, 803, 148-158.	3.5	16
34	Autism and Gut-Brain Axis: Role of Probiotics. Advances in Neurobiology, 2020, 24, 587-600.	1.8	16
35	Telmisartan Ameliorates Astroglial and Dopaminergic Functions in a Mouse Model of Chronic Parkinsonism. Neurotoxicity Research, 2018, 34, 597-612.	2.7	15
36	Roflumilast, a cAMP-Specific Phosphodiesterase-4 Inhibitor, Reduces Oxidative Stress and Improves Synapse Functions in Human Cortical Neurons Exposed to the Excitotoxin Quinolinic Acid. ACS Chemical Neuroscience, 2020, 11, 4405-4415.	3.5	14

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37	Acute toxicity and the 28-day repeated dose study of a Siddha medicine Nuna Kadugu in rats. BMC Complementary and Alternative Medicine, 2012, 12, 190.	3.7	13
38	Sleep, brain vascular health and ageing. GeroScience, 2020, 42, 1257-1283.	4.6	12
39	Molecular Mechanism of Regulation of MTA1 Expression by Granulocyte Colony-stimulating Factor. Journal of Biological Chemistry, 2016, 291, 12310-12321.	3.4	11
40	Efficacy of Dipeptide-Coated Magnetic Nanoparticles in Lung Cancer Models Under Pulsed Electromagnetic Field. Cancer Investigation, 2017, 35, 431-442.	1.3	11
41	Gene Pair Correlation Coefficients in Sphingolipid Metabolic Pathway as a Potential Prognostic Biomarker for Breast Cancer. Cancers, 2020, 12, 1747.	3.7	11
42	Polyphenols in madhumeega chooranam, a Siddha medicine, ameliorates carbohydrate metabolism and oxidative stress in type II diabetic rats. Journal of Ethnopharmacology, 2012, 142, 331-336.	4.1	10
43	Venthamarai chooranam, a polyherbal Siddha medicine, alleviates hypertension via AT <sub>1</sub> R and eNOS signaling pathway in 2K1C hypertensive rats. Experimental Biology and Medicine, 2014, 239, 758-769.	2.4	10
44	Nanodelivery Systems Targeting Epidermal Growth Factor Receptors for Glioma Management. Pharmaceutics, 2020, 12, 1198.	4.5	10
45	Papaverine, a Phosphodiesterase 10A Inhibitor, Ameliorates Quinolinic Acid-Induced Synaptotoxicity in Human Cortical Neurons. Neurotoxicity Research, 2021, 39, 1238-1250.	2.7	10
46	Mitochondrial and Organellar Crosstalk in Parkinson's Disease. ASN Neuro, 2021, 13, 175909142110283.	2.7	9
47	Functional foods and their impact on health. Journal of Food Science and Technology, 2023, 60, 820-834.	2.8	9
48	Current perspectives on mitochondrial dysfunction in migraine. European Journal of Neuroscience, 2022, 56, 3738-3754.	2.6	9
49	A Simple Densitometric Method for the Quantification of Inhibitory Neurotransmitter Gamma-Aminobutyric Acid (GABA) in Rat Brain Tissue. Chromatography Research International, 2011, 2011, 1-5.	0.4	8
50	Enhancing anti-cancer activity of erlotinib by antibody conjugated nanofibrin - In vitro studies on lung adenocarcinoma cell lines. Materials Chemistry and Physics, 2019, 224, 328-333.	4.0	8
51	Cardioprotective potential of polyphenols rich Thraatchathi Chooranam against isoproterenol induced myocardial necrosis in experimental rats. BMC Complementary Medicine and Therapies, 2020, 20, 356.	2.7	8
52	Janus-Faced $\alpha$ -Synuclein: Role in Parkinson's Disease. Frontiers in Cell and Developmental Biology, 2021, 9, 673395.	3.7	8
53	Prenatal Exposure to Lamotrigine: Effects on Postnatal Development and Behaviour in Rat Offspring. ISRN Neuroscience, 2014, 2014, 1-8.	1.5	6
54	Natural Products and Their Therapeutic Effect on Autism Spectrum Disorder. Advances in Neurobiology, 2020, 24, 601-614.	1.8	6

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55	Effects of Telmisartan, an AT1 receptor antagonist, on mitochondria-specific genes expression in a mouse MPTP model of Parkinsonism. <i>Frontiers in Bioscience</i> , 2021, 26, 262.	2.1	6
56	Scientists Against War: A Plea to World Leaders for Better Governance. <i>Sleep and Vigilance</i> , 2022, 6, 1-6.	0.8	6
57	Chemical profiling and in-vitro anti-inflammatory activity of bioactive fraction(s) from <i>Trichodesma indicum</i> (L.) R.Br. against LPS induced inflammation in RAW 264.7 murine macrophage cells. <i>Journal of Ethnopharmacology</i> , 2021, 279, 114235.	4.1	5
58	Protein Nutrition in Autism. <i>Advances in Neurobiology</i> , 2020, 24, 573-586.	1.8	5
59	Social and Biological Parameters Involved in Suicide Ideation During the COVID-19 Pandemic: A Narrative Review. <i>International Journal of Tryptophan Research</i> , 2020, 13, 117864692097824.	2.3	5
60	Enhancing Drug Efficacy against Mastitis Pathogens—An In Vitro Pilot Study in <i>Staphylococcus aureus</i> and <i>Staphylococcus epidermidis</i> . <i>Animals</i> , 2020, 10, 2117.	2.3	4
61	Mitochondria-targeted drug delivery in neurodegenerative diseases. , 2020, , 97-117.		4
62	Acetylsalicylic acid improves cognitive performance in sleep deprived adult Zebrafish ( <i>Danio rerio</i> ) model. <i>Frontiers in Bioscience - Landmark</i> , 2021, 26, 114.	3.0	4
63	Roflumilast, a Phosphodiesterase-4 Inhibitor, Ameliorates Sleep Deprivation-Induced Cognitive Dysfunction in C57BL/6J Mice. <i>ACS Chemical Neuroscience</i> , 2022, 13, 1938-1947.	3.5	4
64	Sesame indicum, a nutritional supplement, elicits anti-amnesic effect via cholinergic pathway in scopolamine intoxicated mice. <i>Environmental Toxicology</i> , 2016, 31, 1955-1963.	4.0	3
65	Impact of Pharmacological and Non-Pharmacological Modulators on Dendritic Spines Structure and Functions in Brain. <i>Cells</i> , 2021, 10, 3405.	4.1	3
66	Identifying kinase targets of PPAR $\gamma$ 3 in human breast cancer. <i>Journal of Drug Targeting</i> , 2021, 29, 660-668.	4.4	2
67	Fortification methods of coenzyme Q10 in yogurt and its health functionality—a review. <i>Frontiers in Bioscience - Scholar</i> , 2021, 13, 131.	2.1	2
68	Alterations in Tryptophan Metabolism Affect Vascular Functions: Connected to Ageing Population Vulnerability to COVID-19 Infection?. <i>International Journal of Tryptophan Research</i> , 2022, 15, 117864692210839.	2.3	2
69	Analgesic, anti-inflammatory and acute oral toxicity profile of leaf and bark extracts of <i>Albizia procera</i> . <i>BMC Complementary Medicine and Therapies</i> , 2022, 22, 50.	2.7	2
70	Thraatchathi Chooranam protects cardiomyocytes against oxidative stress. <i>Frontiers in Bioscience - Elite</i> , 2018, 10, 437-448.	1.8	1
71	Precision health in Alzheimer disease: Risk assessment-based strategies. <i>Precision Medical Sciences</i> , 2021, 10, 54-70.	0.5	1
72	Attenuation of Oxidative Stress and Hepatotoxicity Induced By D-Galactosamine by a Polyherbal Formulation Ambrex—in vivo and in vitro Studies. <i>Indian Journal of Pharmaceutical Education and Research</i> , 2017, 51, 729-739.	0.6	1

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73	Inhibition of PKC $\beta$ Mediates Cardioprotective Activity of Ambrex against Isoproterenol-Induced Myocardial Necrosis: in vivo and in silico Studies. <i>Biology and Medicine (Aligarh)</i> , 2018, 10, .	0.3	1
74	Impact of Sleep Deprivation on Major Neuroinflammatory Signal Transduction Pathways. <i>Sleep and Vigilance</i> , 0, , .	0.8	1
75	P1-426: BENEFICIAL EFFECTS OF PHOSPHODIESTERASE 4 INHIBITORS ON HYPERTENSION-INDUCED DEFECTS IN MEMORY FUNCTION IN RATS. , 2014, 10, P469-P470.		0
76	P1-317: Phosphodiesterase-4 inhibitors alleviate hypertension-induced cognitive impairment via camp/creb signaling that regulates BDNF expression downstream in rat hippocampus. , 2015, 11, P478-P478.		0
77	P3&294: Effect of a Centrally Acting Anti Hypertensive Drug, Clonidine, on Hypertension&ndash;Induced Cognitive Impairment in Rats. <i>Alzheimer's and Dementia</i> , 2016, 12, P953.	0.8	0