

Musthafa Mohamed Essa

List of Publications by Year in descending order

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Version: 2024-02-01

108
papers

5,219
citations

108046

37
h-index

107981

68
g-index

109
all docs

109
docs citations

109
times ranked

8795
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional foods and their impact on health. <i>Journal of Food Science and Technology</i> , 2023, 60, 820-834.	1.4	9
2	Gut dysbiosis, defective autophagy and altered immune responses in neurodegenerative diseases: Tales of a vicious cycle. , 2022, 231, 107988.		59
3	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.	1.0	2
4	Antioxidant and Antiaging Properties of Agar Obtained from Brown Seaweed <i>Laminaria digitata</i> (Hudson) in D-Galactose-Induced Swiss Albino Mice. <i>Evidence-based Complementary and Alternative Medicine</i> , 2022, 2022, 1-16.	0.5	8
5	The Influence of Gut Dysbiosis in the Pathogenesis and Management of Ischemic Stroke. <i>Cells</i> , 2022, 11, 1239.	1.8	55
6	Mechanistic Insights into the Link between Gut Dysbiosis and Major Depression: An Extensive Review. <i>Cells</i> , 2022, 11, 1362.	1.8	40
7	Making Biomarkers Relevant to Healthcare Innovation and Precision Medicine. <i>Processes</i> , 2022, 10, 1107.	1.3	6
8	Effects of Frankincense Compounds on Infection, Inflammation, and Oral Health. <i>Molecules</i> , 2022, 27, 4174.	1.7	9
9	Decoding information on COVID-19: Ontological approach towards design possible therapeutics. <i>Informatics in Medicine Unlocked</i> , 2021, 22, 100486.	1.9	4
10	Does COVID-19 contribute to development of neurological disease?. <i>Immunity, Inflammation and Disease</i> , 2021, 9, 48-58.	1.3	57
11	Mitochondrial and Organellar Crosstalk in Parkinson's Disease. <i>ASN Neuro</i> , 2021, 13, 175909142110283.	1.5	9
12	Inflammatory pathways and potential therapies for COVID-19: A mini review. <i>European Journal of Inflammation</i> , 2021, 19, 205873922110029.	0.2	6
13	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
14	Advanced glycation end products (AGEs) and other adducts in aging-related diseases and alcohol-mediated tissue injury. <i>Experimental and Molecular Medicine</i> , 2021, 53, 168-188.	3.2	144
15	Precision health in Alzheimer disease: Risk assessment-based strategies. <i>Precision Medical Sciences</i> , 2021, 10, 54-70.	0.1	1
16	Agricultural biotechnology: Revealing insights about ethical concerns. <i>Journal of Biosciences</i> , 2021, 46, 1.	0.5	5
17	Impact of vitamin D on neurocognitive function in dementia, depression, schizophrenia and ADHD. <i>Frontiers in Bioscience - Landmark</i> , 2021, 26, 566-611.	3.0	29
18	Mitochondria-Endoplasmic Reticulum Crosstalk in Parkinson's Disease: The Role of Brain Renin Angiotensin System Components. <i>Biomolecules</i> , 2021, 11, 1669.	1.8	17

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19	Impact of Pharmacological and Non-Pharmacological Modulators on Dendritic Spines Structure and Functions in Brain. <i>Cells</i> , 2021, 10, 3405.	1.8	3
20	Fortification methods of coenzyme Q10 in yogurt and its health functionalityâ€”a review. <i>Frontiers in Bioscience - Scholar</i> , 2021, 13, 131.	0.8	2
21	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.	0.8	6
22	Cocoa beans improve mitochondrial biogenesis via PPAR β /PGC1 α dependent signalling pathway in MPP ⁺ intoxicated human neuroblastoma cells (SH-SY5Y). <i>Nutritional Neuroscience</i> , 2020, 23, 471-480.	1.5	20
23	Phosphodiesterase-4 enzyme as a therapeutic target in neurological disorders. <i>Pharmacological Research</i> , 2020, 160, 105078.	3.1	54
24	Cardioprotective potential of polyphenols rich Thraatchathi Chooranam against isoproterenol induced myocardial necrosis in experimental rats. <i>BMC Complementary Medicine and Therapies</i> , 2020, 20, 356.	1.2	8
25	Roflumilast, a cAMP-Specific Phosphodiesterase-4 Inhibitor, Reduces Oxidative Stress and Improves Synapse Functions in Human Cortical Neurons Exposed to the Excitotoxin Quinolinic Acid. <i>ACS Chemical Neuroscience</i> , 2020, 11, 4405-4415.	1.7	14
26	Sleep, brain vascular health and ageing. <i>GeroScience</i> , 2020, 42, 1257-1283.	2.1	12
27	Possible role of tryptophan and melatonin in COVID-19. <i>International Journal of Tryptophan Research</i> , 2020, 13, 117864692095183.	1.0	17
28	Exosomes in Alzheimerâ€™s Disease: Potential Role as Pathological Mediators, Biomarkers and Therapeutic Targets. <i>Neurochemical Research</i> , 2020, 45, 2553-2559.	1.6	22
29	Sleep Deprivation and Neurological Disorders. <i>BioMed Research International</i> , 2020, 2020, 1-19.	0.9	88
30	Gene Pair Correlation Coefficients in Sphingolipid Metabolic Pathway as a Potential Prognostic Biomarker for Breast Cancer. <i>Cancers</i> , 2020, 12, 1747.	1.7	11
31	Protein Nutrition in Autism. <i>Advances in Neurobiology</i> , 2020, 24, 573-586.	1.3	5
32	Autism and Gutâ€“Brain Axis: Role of Probiotics. <i>Advances in Neurobiology</i> , 2020, 24, 587-600.	1.3	16
33	Natural Products and Their Therapeutic Effect on Autism Spectrum Disorder. <i>Advances in Neurobiology</i> , 2020, 24, 601-614.	1.3	6
34	Food Selection and Preferences of Omani Autistic Children. <i>Advances in Neurobiology</i> , 2020, 24, 505-523.	1.3	3
35	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.	1.0	5
36	Possible Existence of the Hypothalamic-Pituitary-Hippocampal (HPH) Axis: A Reciprocal Relationship Between Hippocampal Specific Neuroestradiol Synthesis and Neuroblastosis in Ageing Brains with Special Reference to Menopause and Neurocognitive Disorders. <i>Neurochemical Research</i> , 2019, 44, 1781-1795.	1.6	19

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37	A systems biology approach towards the identification of candidate therapeutic genes and potential biomarkers for Parkinson's disease. PLoS ONE, 2019, 14, e0220995.	1.1	17
38	Asiatic Acid Attenuated Aluminum Chloride-Induced Tau Pathology, Oxidative Stress and Apoptosis Via AKT/GSK-3 β Signaling Pathway in Wistar Rats. Neurotoxicity Research, 2019, 35, 955-968.	1.3	57
39	Corrigendum to "PAX3: A Molecule with Oncogenic or Tumor Suppressor Function Is Involved in Cancer" BioMed Research International, 2019, 2019, 1-1.	0.9	0
40	Therapeutic efficacy of nanoparticles and routes of administration. Biomaterials Research, 2019, 23, 20.	3.2	561
41	Low Molecular Weight Sulfated Chitosan: Neuroprotective Effect on Rotenone-Induced In Vitro Parkinson's Disease. Neurotoxicity Research, 2019, 35, 505-515.	1.3	19
42	Time-dependent effect of oligomeric amyloid- β (1-42)-induced hippocampal neurodegeneration in rat model of Alzheimer's disease. Neurological Research, 2019, 41, 139-150.	0.6	42
43	Protective Effects of Antioxidants in Huntington's Disease: an Extensive Review. Neurotoxicity Research, 2019, 35, 739-774.	1.3	50
44	Dendritic spines: Revisiting the physiological role. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2019, 92, 161-193.	2.5	165
45	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.	1.3	26
46	Antioxidant therapies in attention deficit hyperactivity disorder. Frontiers in Bioscience - Landmark, 2019, 24, 313-333.	3.0	9
47	Autism in the Gulf States a regional overview. Frontiers in Bioscience - Landmark, 2019, 24, 334-346.	3.0	15
48	Identification of salt-tolerant cowpea genotypes using ISSR markers and proteome analysis. Frontiers in Bioscience - Elite, 2019, 11, 130-149.	0.9	2
49	Binge alcohol and HIV: leaky gut and neurodegeneration through the gut-brain axis. International Journal of Nutrition, Pharmacology, Neurological Diseases, 2019, 9, 1-3.	0.6	3
50	Attenuation of Aluminum Chloride-Induced Neuroinflammation and Caspase Activation Through the AKT/GSK-3 β Pathway by Hesperidin in Wistar Rats. Neurotoxicity Research, 2018, 34, 463-476.	1.3	76
51	Naringenin Decreases α -Synuclein Expression and Neuroinflammation in MPTP-Induced Parkinson's Disease Model in Mice. Neurotoxicity Research, 2018, 33, 656-670.	1.3	52
52	Agaricus blazei extract attenuates rotenone-induced apoptosis through its mitochondrial protective and antioxidant properties in SH-SY5Y neuroblastoma cells. Nutritional Neuroscience, 2018, 21, 97-107.	1.5	14
53	Agaricus blazei extract abrogates rotenone-induced dopamine depletion and motor deficits by its anti-oxidative and anti-inflammatory properties in Parkinsonic mice. Nutritional Neuroscience, 2018, 21, 657-666.	1.5	10
54	PAX3: A Molecule with Oncogenic or Tumor Suppressor Function Is Involved in Cancer. BioMed Research International, 2018, 2018, 1-12.	0.9	865

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55	Asiatic acid nullified aluminium toxicity in in vitro model of Alzheimer's disease. <i>Frontiers in Bioscience - Elite</i> , 2018, 10, 287-299.	0.9	24
56	Telmisartan Ameliorates Astroglial and Dopaminergic Functions in a Mouse Model of Chronic Parkinsonism. <i>Neurotoxicity Research</i> , 2018, 34, 597-612.	1.3	15
57	Protective effect of <i>Zizyphus spinachristi</i> on MPP ⁺ -induced oxidative stress. <i>Frontiers in Bioscience - Scholar</i> , 2018, 10, 285-299.	0.8	9
58	Demethoxycurcumin, a natural derivative of curcumin abrogates rotenone-induced dopamine depletion and motor deficits by its antioxidative and anti-inflammatory properties in Parkinsonian rats. <i>Pharmacognosy Magazine</i> , 2018, 14, 9.	0.3	30
59	Pomegranate seed oil: Effect on 3-nitropropionic acid-induced neurotoxicity in PC12 cells and elucidation of unsaturated fatty acids composition. <i>Nutritional Neuroscience</i> , 2017, 20, 40-48.	1.5	26
60	Hesperidin ameliorates cognitive dysfunction, oxidative stress and apoptosis against aluminium chloride induced rat model of Alzheimer's disease. <i>Nutritional Neuroscience</i> , 2017, 20, 360-368.	1.5	104
61	Neuroprotective effect of asiatic acid on rotenone-induced mitochondrial dysfunction and oxidative stress-mediated apoptosis in differentiated SH-SY5Y cells. <i>Nutritional Neuroscience</i> , 2017, 20, 351-359.	1.5	52
62	Fenugreek Seed Powder Attenuated Aluminum Chloride-Induced Tau Pathology, Oxidative Stress, and Inflammation in a Rat Model of Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2017, 60, S209-S220.	1.2	61
63	Chronic mild stress augments MPTP induced neurotoxicity in a murine model of Parkinson's disease. <i>Physiology and Behavior</i> , 2017, 173, 132-143.	1.0	28
64	Neurotrophic Effect of Asiatic acid, a Triterpene of <i>Centella asiatica</i> Against Chronic 1-Methyl 4-Phenyl 1, 2, 3, 6-Tetrahydropyridine Hydrochloride/Probenecid Mouse Model of Parkinson's disease: The Role of MAPK, PI3K-Akt-GSK3 β and mTOR Signalling Pathways. <i>Neurochemical Research</i> , 2017, 42, 1354-1365.	1.6	44
65	Neuroprotective effect of Demethoxycurcumin, a natural derivative of Curcumin on rotenone induced neurotoxicity in SH-SY 5Y Neuroblastoma cells. <i>BMC Complementary and Alternative Medicine</i> , 2017, 17, 217.	3.7	53
66	CERAD Neuropsychological Battery's Arabic Version: Regression-Based and Stratified Normative Data and Effects of Demographic Variables on Cognitive Performance in Older Omanis. <i>Cognitive and Behavioral Neurology</i> , 2017, 30, 150-158.	0.5	9
67	Dietary Supplements/Antioxidants: Impact on Redox Status in Brain Diseases. <i>Oxidative Medicine and Cellular Longevity</i> , 2017, 2017, 1-2.	1.9	9
68	Protective Effect of Antioxidants on Neuronal Dysfunction and Plasticity in Huntington's Disease. <i>Oxidative Medicine and Cellular Longevity</i> , 2017, 2017, 1-15.	1.9	36
69	The Role of Reactive Oxygen Species in the Pathogenesis of Alzheimer's Disease, Parkinson's Disease, and Huntington's Disease: A Mini Review. <i>Oxidative Medicine and Cellular Longevity</i> , 2016, 2016, 1-15.	1.9	363
70	A Comprehensive In Silico Analysis on the Structural and Functional Impact of SNPs in the Congenital Heart Defects Associated with NKX2-5 Gene: A Molecular Dynamic Simulation Approach. <i>PLoS ONE</i> , 2016, 11, e0153999.	1.1	49
71	Fenugreek Seed Powder Nullified Aluminium Chloride Induced Memory Loss, Biochemical Changes, A β Burden and Apoptosis via Regulating Akt/GSK3 β Signaling Pathway. <i>PLoS ONE</i> , 2016, 11, e0165955.	1.1	45
72	Influences of Chronic Mild Stress Exposure on Motor, Non-Motor Impairments and Neurochemical Variables in Specific Brain Areas of MPTP/Probenecid Induced Neurotoxicity in Mice. <i>PLoS ONE</i> , 2016, 11, e0146671.	1.1	30

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73	Vanillin Attenuated Behavioural Impairments, Neurochemical Deficits, Oxidative Stress and Apoptosis Against Rotenone Induced Rat Model of Parkinson's Disease. <i>Neurochemical Research</i> , 2016, 41, 1899-1910.	1.6	70
74	Tannoid principles of <i>Emblca officinalis</i> attenuated aluminum chloride induced apoptosis by suppressing oxidative stress and tau pathology via Akt/GSK-3 β signaling pathway. <i>Journal of Ethnopharmacology</i> , 2016, 194, 20-29.	2.0	35
75	Role of Plant Polyphenols in Alzheimer's Disease. <i>Advances in Neurobiology</i> , 2016, 12, 153-171.	1.3	6
76	Mitochondrial dysfunction and cell death in neurodegenerative diseases through nitroxidative stress. <i>Brain Research</i> , 2016, 1637, 34-55.	1.1	121
77	Tannoid principles of <i>Emblca officinalis</i> renovate cognitive deficits and attenuate amyloid pathologies against aluminum chloride induced rat model of Alzheimer's disease. <i>Nutritional Neuroscience</i> , 2016, 19, 269-278.	1.5	66
78	Consumption of fig fruits grown in Oman can improve memory, anxiety, and learning skills in a transgenic mice model of Alzheimer's disease. <i>Nutritional Neuroscience</i> , 2016, 19, 475-483.	1.5	32
79	Consumption of pomegranates improves synaptic function in a transgenic mice model of Alzheimer's disease. <i>Oncotarget</i> , 2016, 7, 64589-64604.	0.8	46
80	Antidepressant-Like Activity of Fish Oil, with and Without Fluoxetine, in Two Behavioral Despair Paradigms in Experimental Mice. <i>Current Pharmacogenomics and Personalized Medicine</i> , 2016, 13, 84-89.	0.2	1
81	Beneficial effects of date palm fruits on neurodegenerative diseases. <i>Neural Regeneration Research</i> , 2016, 11, 1071.	1.6	1
82	Diet rich in date palm fruits improves memory, learning and reduces beta amyloid in transgenic mouse model of Alzheimer's disease. <i>Journal of Ayurveda and Integrative Medicine</i> , 2015, 6, 111.	0.9	47
83	Neurosupportive Role of Vanillin, a Natural Phenolic Compound, on Rotenone Induced Neurotoxicity in SH-SY5Y Neuroblastoma Cells. <i>Evidence-based Complementary and Alternative Medicine</i> , 2015, 2015, 1-11.	0.5	56
84	Effect of dietary supplementation of dates in Alzheimer's disease APPsw/2576 transgenic mice on oxidative stress and antioxidant status. <i>Nutritional Neuroscience</i> , 2015, 18, 281-288.	1.5	29
85	Dietary Supplementation of Walnut Partially Reverses 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine Induced Neurodegeneration in a Mouse Model of Parkinson's Disease. <i>Neurochemical Research</i> , 2015, 40, 1283-1293.	1.6	23
86	Long-term (15 mo) dietary supplementation with pomegranates from Oman attenuates cognitive and behavioral deficits in a transgenic mice model of Alzheimer's disease. <i>Nutrition</i> , 2015, 31, 223-229.	1.1	54
87	Long-Term Dietary Supplementation of Pomegranates, Figs and Dates Alleviate Neuroinflammation in a Transgenic Mouse Model of Alzheimer's Disease. <i>PLoS ONE</i> , 2015, 10, e0120964.	1.1	82
88	Chronic Dietary Supplementation of 4% Figs on the Modification of Oxidative Stress in Alzheimer's Disease Transgenic Mouse Model. <i>BioMed Research International</i> , 2014, 2014, 1-8.	0.9	25
89	Mangiferin Antagonizes Rotenone: Induced Apoptosis Through Attenuating Mitochondrial Dysfunction and Oxidative Stress in SK-N-SH Neuroblastoma Cells. <i>Neurochemical Research</i> , 2014, 39, 668-676.	1.6	35
90	Escin attenuates behavioral impairments, oxidative stress and inflammation in a chronic MPTP/probenecid mouse model of Parkinson's disease. <i>Brain Research</i> , 2014, 1585, 23-36.	1.1	40

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91	CNB-001, a novel pyrazole derivative mitigates motor impairments associated with neurodegeneration via suppression of neuroinflammatory and apoptotic response in experimental Parkinson's disease mice. <i>Chemico-Biological Interactions</i> , 2014, 220, 149-157.	1.7	19
92	Pomegranate from Oman Alleviates the Brain Oxidative Damage in Transgenic Mouse Model of Alzheimer's Disease. <i>Journal of Traditional and Complementary Medicine</i> , 2014, 4, 232-238.	1.5	68
93	Omega-3 Fatty Acids Could Alleviate the Risks of Traumatic Brain Injury – A Mini Review. <i>Journal of Traditional and Complementary Medicine</i> , 2014, 4, 89-92.	1.5	23
94	Nutritional Status, Assessment, Requirements and Adequacy of Traumatic Brain Injury Patients. <i>Pakistan Journal of Biological Sciences</i> , 2014, 17, 1089-1097.	0.2	6
95	Healthy Eating Knowledge among College Students in Muscat: A Self Reported Survey. <i>Pakistan Journal of Nutrition</i> , 2014, 13, 397-403.	0.2	3
96	Neuroprotective effects of berry fruits on neurodegenerative diseases. <i>Neural Regeneration Research</i> , 2014, 9, 1557.	1.6	117
97	Excitotoxicity in the Pathogenesis of Autism. , 2014, , 1267-1271.		0
98	Therapeutic Attenuation of Neuroinflammation and Apoptosis by Black Tea Theaflavin in Chronic MPTP/Probenecid Model of Parkinson's Disease. <i>Neurotoxicity Research</i> , 2013, 23, 166-173.	1.3	58
99	Excitotoxicity in the Pathogenesis of Autism. <i>Neurotoxicity Research</i> , 2013, 23, 393-400.	1.3	82
100	Role of NAD ⁺ , Oxidative Stress, and Tryptophan Metabolism in Autism Spectrum Disorders. <i>International Journal of Tryptophan Research</i> , 2013, 6s1, IJTR.S11355.	1.0	25
101	Neuroprotective Effects of a Variety of Pomegranate Juice Extracts against MPTP-Induced Cytotoxicity and Oxidative Stress in Human Primary Neurons. <i>Oxidative Medicine and Cellular Longevity</i> , 2013, 2013, 1-12.	1.9	39
102	Neuroprotective Effects of Hesperidin, a Plant Flavanone, on Rotenone-Induced Oxidative Stress and Apoptosis in a Cellular Model for Parkinson's Disease. <i>Oxidative Medicine and Cellular Longevity</i> , 2013, 2013, 1-11.	1.9	125
103	Theaflavin, a black tea polyphenol, protects nigral dopaminergic neurons against chronic MPTP/probenecid induced Parkinson's disease. <i>Brain Research</i> , 2012, 1433, 104-113.	1.1	90
104	Evaluation of Food Protective Property of Five Natural Products using Fresh-cut Apple Slice Model. <i>Pakistan Journal of Biological Sciences</i> , 2011, 15, 10-18.	0.2	13
105	Influence of <i>Hibiscus sabdariffa</i> (Gongura) on the levels of circulatory lipid peroxidation products and liver marker enzymes in experimental hyperammonemia. <i>Journal of Applied Biomedicine</i> , 2006, 4, 53-58.	0.6	12
106	Protective influence of <i>Pongamia pinnata</i> (Karanja) on blood ammonia and urea levels in ammonium chloride-induced hyperammonemia: antihyperammonemic effect of the leaf extract. <i>Journal of Applied Biomedicine</i> , 2005, 3, 133-138.	0.6	17
107	The chemopreventive effect of diallyl disulphide on N-nitrosodiethylamine induced heptocarcinogenesis. <i>Journal of Applied Biomedicine</i> , 2005, 3, 187-191.	0.6	6
108	Impact of Sleep Deprivation on Major Neuroinflammatory Signal Transduction Pathways. <i>Sleep and Vigilance</i> , 0, , .	0.4	1