Plamena R Angelova

List of Publications by Year
in descending order

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63	4,784	159585	123424
papers	citations	30 h-index	61 g-index

68	68	68	6934
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Metabolically induced intracellular pH changes activate mitophagy, autophagy, and cell protection in familial forms of Parkinson's disease. FEBS Journal, 2022, 289, 699-711.	4.7	17
2	Ageâ€related changes in the energy of human mesenchymal stem cells. Journal of Cellular Physiology, 2022, 237, 1753-1767.	4.1	10
3	Probing Cell Redox State and Glutathione-Modulating Factors Using a Monochlorobimane-Based Microplate Assay. Antioxidants, 2022, 11, 391.	5.1	9
4	Deuterated Arachidonic Acid Ameliorates Lipopolysaccharide-Induced Lung Damage in Mice. Antioxidants, 2022, 11, 681.	5.1	5
5	Hyperammonaemia induces mitochondrial dysfunction and neuronal cell death. JHEP Reports, 2022, 4, 100510.	4.9	12
6	Mitochondria and lipid peroxidation in the mechanism of neurodegeneration: Finding ways for prevention. Medicinal Research Reviews, 2021, 41, 770-784.	10.5	136
7	Variability of mitochondrial energy balance across brain regions. Journal of Neurochemistry, 2021, 157, 1234-1243.	3.9	17
8	Phospholipase iPLA2Î² averts ferroptosis by eliminating a redox lipid death signal. Nature Chemical Biology, 2021, 17, 465-476.	8.0	168
9	Singlet oxygen stimulates mitochondrial bioenergetics in brain cells. Free Radical Biology and Medicine, 2021, 163, 306-313.	2.9	20
10	Activation of RAGE leads to the release of glutamate from astrocytes and stimulates calcium signal in neurons. Journal of Cellular Physiology, 2021, 236, 6496-6506.	4.1	9
11	Viper toxins affect membrane characteristics of human erythrocytes. Biophysical Chemistry, 2021, 270, 106532.	2.8	6
12	RT001 in Progressive Supranuclear Palsyâ€"Clinical and In-Vitro Observations. Antioxidants, 2021, 10, 1021.	5.1	9
13	Sources and triggers of oxidative damage in neurodegeneration. Free Radical Biology and Medicine, 2021, 173, 52-63.	2.9	26
14	Assessment of Mitochondrial Membrane Potential and NADH Redox State in Acute Brain Slices. Methods in Molecular Biology, 2021, 2276, 193-202.	0.9	6
15	Assessment of ROS Production in the Mitochondria of Live Cells. Methods in Molecular Biology, 2021, 2202, 33-42.	0.9	12
16	Lipid peroxidation is involved in calcium dependent upregulation of mitochondrial metabolism in skeletal muscle. Biochimica Et Biophysica Acta - General Subjects, 2020, 1864, 129487.	2.4	22
17	Adrenaline induces calcium signal in astrocytes and vasoconstriction via activation of monoamine oxidase. Free Radical Biology and Medicine, 2020, 159, 15-22.	2.9	24
18	Delivery of Singlet Oxygen into Neurons Stimulates Mitochondrial Energy Metabolism. Biophysical Journal, 2020, 118, 445a.	0.5	1

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19	Alpha synuclein aggregation drives ferroptosis: an interplay of iron, calcium and lipid peroxidation. Cell Death and Differentiation, 2020, 27, 2781-2796.	11.2	142
20	Inorganic polyphosphate is produced and hydrolyzed in F0F1-ATP synthase of mammalian mitochondria. Biochemical Journal, 2020, 477, 1515-1524.	3.7	43
21	Pharmacological Sequestration of Mitochondrial Calcium Uptake Protects Neurons Against Glutamate Excitotoxicity. Molecular Neurobiology, 2019, 56, 2244-2255.	4.0	48
22	Mitochondrial dysfunction and energy deprivation in the mechanism of neurodegeneration. Biyokimya Dergisi, 2019, 44, 723-729.	0.5	11
23	Inorganic Polyphosphate Regulates AMPA and NMDA Receptors and Protects Against Glutamate Excitotoxicity via Activation of P2Y Receptors. Journal of Neuroscience, 2019, 39, 6038-6048.	3.6	30
24	Cellular mechanisms of complex I-associated pathology. Biochemical Society Transactions, 2019, 47, 1963-1969.	3.4	32
25	Role of mitochondrial <scp>ROS</scp> in the brain: from physiology to neurodegeneration. FEBS Letters, 2018, 592, 692-702.	2.8	515
26	Mitochondrial dysfunction in Parkinsonian mesenchymal stem cells impairs differentiation. Redox Biology, 2018, 14, 474-484.	9.0	104
27	Signal transduction in astrocytes: Localization and release of inorganic polyphosphate. Glia, 2018, 66, 2126-2136.	4.9	34
28	Î±-synuclein oligomers interact with ATP synthase and open the permeability transition pore in Parkinsonâ€™s disease. Nature Communications, 2018, 9, 2293.	12.8	351
29	Verification of NADH content measurements by portable optical diagnostic system in living brain tissue. , 2018, , .		1
30	Inorganic Polyphosphate Protects Neurons against Glutamate-Induced Excitotoxicity. Biophysical Journal, 2017, 112, 539a.	0.5	0
31	Direct Modulation of the Mitochondrial Permeability Transition Pore by Oligomeric Alpha-Synuclein Causes Toxicity in PD. Biophysical Journal, 2017, 112, 440a.	0.5	0
32	Alpha-synuclein and beta-amyloid â€“ different targets, same players: calcium, free radicals and mitochondria in the mechanism of neurodegeneration. Biochemical and Biophysical Research Communications, 2017, 483, 1110-1115.	2.1	67
33	iPSC-derived neuronal models of PANK2-associated neurodegeneration reveal mitochondrial dysfunction contributing to early disease. PLoS ONE, 2017, 12, e0184104.	2.5	39
34	Role of Inorganic Polyphosphate in the Cells of the Mammalian Brain. , 2016, , 115-121.		2
35	Role of Inorganic Polyphosphate (PolyP) in Physiological and Pathophysiological Response to Glutamate in Mammalian Neurons. Biophysical Journal, 2016, 110, 261a.	0.5	1
36	Role of inorganic polyphosphate in mammalian cells: from signal transduction and mitochondrial metabolism to cell death. Biochemical Society Transactions, 2016, 44, 40-45.	3.4	50

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37	Monomeric Alpha-Synuclein Exerts a Physiological Role on Brain ATP Synthase. Journal of Neuroscience, 2016, 36, 10510-10521.	3.6	142
38	'Mitochondrial energy imbalance and lipid peroxidation cause cell death in Friedreichâ€™s ataxia'. Cell Death and Disease, 2016, 7, e2237-e2237.	6.3	94
39	A Physiological Role for Alpha-Synuclein in the Regulation of ATP Synthesis. Biophysical Journal, 2016, 110, 471a.	0.5	2
40	Functional role of mitochondrial reactive oxygen species in physiology. Free Radical Biology and Medicine, 2016, 100, 81-85.	2.9	191
41	Calcium is a key factor in Î±-synuclein induced neurotoxicity. Journal of Cell Science, 2016, 129, 1792-801.	2.0	136
42	Alpha-Synuclein Oligomers Interact with Metal Ions to Induce Oxidative Stress and Neuronal Death in Parkinson's Disease. Antioxidants and Redox Signaling, 2016, 24, 376-391.	5.4	266
43	Ca2+ is a key factor in Î±-synuclein-induced neurotoxicity. Development (Cambridge), 2016, 143, e1.1-e1.1.	2.5	5
44	Loss ofPLA2G6leads to elevated mitochondrial lipid peroxidation and mitochondrial dysfunction. Brain, 2015, 138, 1801-1816.	7.6	143
45	Functional Oxygen Sensitivity of Astrocytes. Journal of Neuroscience, 2015, 35, 10460-10473.	3.6	219
46	Mutations in HPCA Cause Autosomal-Recessive Primary Isolated Dystonia. American Journal of Human Genetics, 2015, 96, 657-665.	6.2	151
47	Lipid peroxidation is essential for Î±â€synucleinâ€induced cell death. Journal of Neurochemistry, 2015, 133, 582-589.	3.9	105
48	Aggregated Î±-synuclein and complex I deficiency: exploration of their relationship in differentiated neurons. Cell Death and Disease, 2015, 6, e1820-e1820.	6.3	139
49	A Critical Role for Purinergic Signalling in the Mechanisms Underlying Generation of BOLD fMRI Responses. Journal of Neuroscience, 2015, 35, 5284-5292.	3.6	49
50	Nrf2 regulates ROS production by mitochondria and NADPH oxidase. Biochimica Et Biophysica Acta - General Subjects, 2015, 1850, 794-801.	2.4	444
51	Interaction of neurons and astrocytes underlies the mechanism of AÎ²-induced neurotoxicity. Biochemical Society Transactions, 2014, 42, 1286-1290.	3.4	60
52	Enhancing nucleotide metabolism protects against mitochondrial dysfunction and neurodegeneration in a PINK1 model of Parkinsonâ€™s disease. Nature Cell Biology, 2014, 16, 157-166.	10.3	119
53	Nrf2 affects the efficiency of mitochondrial fatty acid oxidation. Biochemical Journal, 2014, 457, 415-424.	3.7	192
54	In Situ Investigation of Mammalian Inorganic Polyphosphate Localization Using Novel Selective Fluorescent Probes JC-D7 and JC-D8. ACS Chemical Biology, 2014, 9, 2101-2110.	3.4	54

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55	Alpha-Synuclein Induces Mitochondrial Dysfunction Leading to a Higher Susceptibility of PTP Opening. Biophysical Journal, 2014, 106, 590a.	0.5	0
56	Cellular Mechanisms of Oxygen Sensing in Astrocytes. Biophysical Journal, 2014, 106, 529a.	0.5	0
57	Surface electric charge of thylakoid membranes from genetically modified tobacco plants under freezing stress. Journal of Photochemistry and Photobiology B: Biology, 2013, 119, 22-30.	3.8	9
58	Loss of PINK1 Increases the Heart's Vulnerability to Ischemia-Reperfusion Injury. PLoS ONE, 2013, 8, e62400.	2.5	99
59	Polyhydroxybutyrate Targets Mammalian Mitochondria and Increases Permeability of Plasmalemmal and Mitochondrial Membranes. PLoS ONE, 2013, 8, e75812.	2.5	32
60	Arachidonic acid potently inhibits both postsynapticâ€type Kv4.2 and presynapticâ€type Kv1.4 I_A potassium channels. European Journal of Neuroscience, 2009, 29, 1943-1950.	2.6	26
61	Oxidative modulation of the transient potassium current IAby intracellular arachidonic acid in rat CA1 pyramidal neurons. European Journal of Neuroscience, 2006, 23, 2375-2384.	2.6	42
62	ELF fields and photooxidation yielding lethal effects on cancer cells. Bioelectromagnetics, 2003, 24, 148-150.	1.6	30
63	Ca2+-independent muscarinic excitation of rat medial entorhinal cortex layer V neurons. European Journal of Neuroscience, 2003, 18, 3343-3351.	2.6	25