

# Chrysanthy Ikonomidou

## List of Publications by Year in descending order

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82  
papers

7,816  
citations

53789

45  
h-index

74160

75  
g-index

82  
all docs

82  
docs citations

82  
times ranked

7351  
citing authors

#	ARTICLE	IF	CITATIONS
1	Antiepileptic drugs and apoptotic neurodegeneration in the developing brain. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 15089-15094.	7.1	712
2	Why did NMDA receptor antagonists fail clinical trials for stroke and traumatic brain injury?. Lancet Neurology, The, 2002, 1, 383-386.	10.2	643
3	Review: Cholinergic mechanisms and epileptogenesis. The seizures induced by pilocarpine: A novel experimental model of intractable epilepsy. Synapse, 1989, 3, 154-171.	1.2	586
4	Synaptic NMDA receptor activity boosts intrinsic antioxidant defenses. Nature Neuroscience, 2008, 11, 476-487.	14.8	483
5	Ethanol-induced apoptotic neurodegeneration in the developing C57BL/6 mouse brain. Developmental Brain Research, 2002, 133, 115-126.	1.7	275
6	Neurotransmitters and apoptosis in the developing brain11Abbreviations: GABA <sub>A</sub> , $\hat{I}^3$ -aminobutyric acid; NMDA; N-methyl-d-aspartate; PCP; phencyclidine; TUNEL, terminal deoxynucleotidyl transferase-mediated dUTP nick end labeling.. Biochemical Pharmacology, 2001, 62, 401-405.	4.4	258
7	Antiepileptic Drugs and Apoptosis in the Developing Brain. Annals of the New York Academy of Sciences, 2003, 993, 103-114.	3.8	257
8	Apoptotic neurodegeneration following trauma is markedly enhanced in the immature brain. Annals of Neurology, 1999, 45, 724-735.	5.3	232
9	Oxygen causes cell death in the developing brain. Neurobiology of Disease, 2004, 17, 273-282.	4.4	211
10	Neuronal Death and Oxidative Stress in the Developing Brain. Antioxidants and Redox Signaling, 2011, 14, 1535-1550.	5.4	207
11	Anandamide, but not 2-arachidonoylglycerol, accumulates during in vivo neurodegeneration. Journal of Neurochemistry, 2001, 78, 1415-1427.	3.9	197
12	Apoptosis in the in Vivo Mammalian Forebrain. Neurobiology of Disease, 2001, 8, 359-379.	4.4	171
13	Sedative and anticonvulsant drugs suppress postnatal neurogenesis. Annals of Neurology, 2008, 64, 434-445.	5.3	157
14	Anesthesia-induced Developmental Neuroapoptosis. Anesthesiology, 2004, 101, 273-275.	2.5	152
15	Mechanisms leading to disseminated apoptosis following NMDA receptor blockade in the developing rat brain. Neurobiology of Disease, 2004, 16, 440-453.	4.4	149
16	Do pediatric drugs cause developing neurons to commit suicide?. Trends in Pharmacological Sciences, 2004, 25, 135-139.	8.7	138
17	Therapeutic doses of topiramate are not toxic to the developing rat brain. Experimental Neurology, 2004, 187, 403-409.	4.1	132
18	Sulthiame but not levetiracetam exerts neurotoxic effect in the developing rat brain. Experimental Neurology, 2005, 193, 497-503.	4.1	130

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19	Antiepileptic drugs and brain development. <i>Epilepsy Research</i> , 2010, 88, 11-22.	1.6	129
20	Topical Review: Glutamate in Neurologic Diseases. <i>Journal of Child Neurology</i> , 1997, 12, 471-485.	1.4	122
21	Levetiracetam: Safety and efficacy in neonatal seizures. <i>European Journal of Paediatric Neurology</i> , 2011, 15, 1-7.	1.6	121
22	Ethanol-induced apoptotic neurodegeneration in the developing brain. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2000, 5, 515-521.	4.9	118
23	Anticancer agents are potent neurotoxins in vitro and in vivo. <i>Annals of Neurology</i> , 2004, 56, 351-360.	5.3	111
24	Neurodegeneration in Newborn Rats Following Propofol and Sevoflurane Anesthesia. <i>Neurotoxicity Research</i> , 2009, 16, 140-147.	2.7	111
25	Hypothermia enhances protective effect of MK-801 against hypoxic/ischemic brain damage in infant rats. <i>Brain Research</i> , 1989, 487, 184-187.	2.2	90
26	Caspase-1 processed interleukins in hyperoxia-induced cell death in the developing brain. <i>Annals of Neurology</i> , 2005, 57, 50-59.	5.3	90
27	Accumulation of the anandamide precursor and other N-acyl ethanolamine phospholipids in infant rat models of in vivo necrotic and apoptotic neuronal death. <i>Journal of Neurochemistry</i> , 2008, 76, 39-46.	3.9	89
28	Dopamine control of seizure propagation: Intranigral dopamine D1 agonist SKF-38393 enhances susceptibility of seizures. <i>Synapse</i> , 1990, 5, 113-119.	1.2	83
29	Pathways Leading to Apoptotic Neurodegeneration Following Trauma to the Developing Rat Brain. <i>Neurobiology of Disease</i> , 2002, 11, 231-245.	4.4	80
30	Excitotoxicity and neurodegenerative diseases. <i>Current Opinion in Neurology</i> , 1995, 8, 487.	3.6	76
31	Glutamate antagonists limit tumor growth. <i>Biochemical Pharmacology</i> , 2002, 64, 1195-1200.	4.4	74
32	Neurodegenerative Disorders: Clues from Glutamate and Energy Metabolism. <i>Critical Reviews in Neurobiology</i> , 1996, 10, 239-263.	3.1	74
33	Cannabinoids enhance susceptibility of immature brain to ethanol neurotoxicity. <i>Annals of Neurology</i> , 2008, 64, 42-52.	5.3	73
34	Prevention of Trauma-Induced Neurodegeneration in Infant Rat Brain. <i>Pediatric Research</i> , 1996, 39, 1020-1027.	2.3	73
35	Protection with estradiol in developmental models of apoptotic neurodegeneration. <i>Annals of Neurology</i> , 2005, 58, 266-276.	5.3	71
36	Triggers of apoptosis in the immature brain. <i>Brain and Development</i> , 2009, 31, 488-492.	1.1	64

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37	Role of microglia in a mouse model of paediatric traumatic brain injury. <i>Brain, Behavior, and Immunity</i> , 2017, 63, 197-209.	4.1	64
38	Impact of Chemotherapy for Childhood Leukemia on Brain Morphology and Function. <i>PLoS ONE</i> , 2013, 8, e78599.	2.5	63
39	Brief Alteration of NMDA or GABAA Receptor-mediated Neurotransmission Has Long Term Effects on the Developing Cerebral Cortex. <i>Molecular and Cellular Proteomics</i> , 2008, 7, 2293-2310.	3.8	60
40	Brain morphology alterations in the basal ganglia and the hypothalamus following prenatal exposure to antiepileptic drugs. <i>European Journal of Paediatric Neurology</i> , 2007, 11, 297-301.	1.6	59
41	Aminooxyacetic acid produces excitotoxic lesions in the rat striatum. <i>Synapse</i> , 1991, 9, 129-135.	1.2	58
42	Glutamate signaling and the fetal alcohol syndrome. <i>Mental Retardation and Developmental Disabilities Research Reviews</i> , 2001, 7, 267-275.	3.6	58
43	Glutamate and GABA receptor dysfunction in the fetal alcohol syndrome. <i>Neurotoxicity Research</i> , 2002, 4, 315-325.	2.7	58
44	Internalisation of engineered nanoparticles into mammalian cells in vitro: influence of cell type and particle properties. <i>Journal of Nanoparticle Research</i> , 2011, 13, 293-310.	1.9	55
45	Prevention of trauma-induced neurodegeneration in infant and adult rat brain: Glutamate antagonists. <i>Metabolic Brain Disease</i> , 1996, 11, 125-141.	2.9	50
46	Effect of Aminophylline on the Protective Action of Common Antiepileptic Drugs Against Electroconvulsions in Mice. <i>Epilepsia</i> , 1986, 27, 204-208.	5.1	45
47	Apoptotic neurodegeneration in the context of traumatic injury to the developing brain. <i>Experimental and Toxicologic Pathology</i> , 2004, 56, 83-89.	2.1	41
48	Top-Down Proteomics with Mass Spectrometry Imaging: A Pilot Study towards Discovery of Biomarkers for Neurodevelopmental Disorders. <i>PLoS ONE</i> , 2014, 9, e92831.	2.5	37
49	Chemotherapy and the pediatric brain. <i>Molecular and Cellular Pediatrics</i> , 2018, 5, 8.	1.8	35
50	Aminophylline and CGS 8216 Reverse the Protective Action of Diazepam Against Electroconvulsions in Mice. <i>Epilepsia</i> , 1985, 26, 693-696.	5.1	32
51	Environmental Agents That Have the Potential to Trigger Massive Apoptotic Neurodegeneration in the Developing Brain. <i>Environmental Health Perspectives</i> , 2000, 108, 383.	6.0	32
52	Neuropathological and biochemical features of traumatic injury in the developing brain. <i>Neurotoxicity Research</i> , 2003, 5, 475-490.	2.7	31
53	Neuropathological Sequelae of Developmental Exposure to Antiepileptic and Anesthetic Drugs. <i>Frontiers in Neurology</i> , 2012, 3, 120.	2.4	29
54	Non-functionalized soft alginate hydrogel promotes locomotor recovery after spinal cord injury in a rat hemimyelonectomy model. <i>Acta Neurochirurgica</i> , 2018, 160, 449-457.	1.7	29

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55	Extended Multiple-Field High-Definition transcranial direct current stimulation (HD-tDCS) is well tolerated and safe in healthy adults. <i>Restorative Neurology and Neuroscience</i> , 2017, 35, 631-642.	0.7	25
56	Matrix metalloproteinases and epileptogenesis. <i>Molecular and Cellular Pediatrics</i> , 2014, 1, 6.	1.8	24
57	Riluzole Inhibits Proliferation, Migration and Cell Cycle Progression and Induces Apoptosis in Tumor Cells of Various Origins. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2018, 18, 565-572.	1.7	21
58	Mild hypothermia ameliorates anesthesia toxicity in the neonatal macaque brain. <i>Neurobiology of Disease</i> , 2019, 130, 104489.	4.4	19
59	Glutamate antagonists are neurotoxins for the developing brain. <i>Neurotoxicity Research</i> , 2007, 11, 203-218.	2.7	17
60	Mechanisms of neurodegeneration after paediatric brain injury. <i>Current Opinion in Neurology</i> , 2000, 13, 141-145.	3.6	17
61	Of Mice and Men: Should We Extrapolate Rodent Experimental Data to the Care of Human Neonates?. <i>Anesthesiology</i> , 2005, 102, 868-869.	2.5	15
62	Subacute proteome changes following traumatic injury of the developing brain: Implications for a dysregulation of neuronal migration and neurite arborization. <i>Proteomics - Clinical Applications</i> , 2007, 1, 640-649.	1.6	13
63	Caffeine Augments Anesthesia Neurotoxicity in the Fetal Macaque Brain. <i>Scientific Reports</i> , 2018, 8, 5302.	3.3	11
64	Clemastine effects in rat models of a myelination disorder. <i>Pediatric Research</i> , 2018, 83, 1200-1206.	2.3	11
65	Brain pathology caused in the neonatal macaque by short and prolonged exposures to anticonvulsant drugs. <i>Neurobiology of Disease</i> , 2021, 149, 105245.	4.4	11
66	Prenatal Effects of Antiepileptic Drugs. <i>Epilepsy Currents</i> , 2010, 10, 42-46.	0.8	9
67	Quantitative ultrasound and apoptotic death in the neonatal primate brain. <i>Neurobiology of Disease</i> , 2019, 127, 554-562.	4.4	9
68	Pharmacology of the AMPA Antagonist 2,3-Dihydroxy-6-Nitro-7-Sulfamoylbenzo-(F)-Quinoxaline. <i>Annals of the New York Academy of Sciences</i> , 1997, 825, 394-402.	3.8	7
69	Isobaric Labeling Strategy Utilizing 4-Plex <i>N,N</i> -Dimethyl Leucine (DiLeu) Tags Reveals Proteomic Changes Induced by Chemotherapy in Cerebrospinal Fluid of Children with B-Cell Acute Lymphoblastic Leukemia. <i>Journal of Proteome Research</i> , 2020, 19, 2606-2616.	3.7	7
70	AMPA Receptor Antagonist CFM-2 Decreases Survivin Expression in Cancer Cells. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2018, 18, 591-596.	1.7	6
71	Effects of Soy-Based Infant Formula on Weight Gain and Neurodevelopment in an Autism Mouse Model. <i>Cells</i> , 2022, 11, 1350.	4.1	6
72	Cerebrospinal Fluid Biomarkers in Childhood Leukemias. <i>Cancers</i> , 2021, 13, 438.	3.7	4

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73	Glutamate as a Neurotoxin. , 2014, , 365-397.		2
74	Optimization of Ultrasound Backscatter Spectroscopy to Assess Neurotoxic Effects of Anesthesia in the Newborn Non-human Primate Brain. Ultrasound in Medicine and Biology, 2020, 46, 2044-2056.	1.5	2
75	Triggers of Cell Death in the Developing Brain. Current Pediatric Reviews, 2011, 7, 293-300.	0.8	2
76	Excitotoxicity and excitatory amino acid antagonists in chronic neurodegenerative diseases. , 2005, , 44-56.		1
77	Autoimmune Ataxia During Maintenance Therapy for Acute Lymphoblastic Leukemia. Child Neurology Open, 2018, 5, 2329048X1881923.	1.1	1
78	Energy Failure, Glutamate and Neuropathology: Relevance to Neurodegenerative Disorders. , 1994, , 127-140.		1
79	Is it time to conclude that NMDA antagonists have failed? â€œ Author's reply. Lancet Neurology, The, 2003, 2, 13.	10.2	0
80	Neurodegeneration and neuroprotection in the epileptic brain. Annals of General Psychiatry, 2008, 7, .	2.7	0
81	Case 1: Term Infant with Intractable Seizures and Bilateral Hydronephrosis. NeoReviews, 2018, 19, e297-e300.	0.8	0
82	Coherent Ultrasound Scattering in the Young Rhesus Macaque Brain: Effects of Exposure to Anesthetics. , 2018, , .		0