# Chrysanthy Ikonomidou

List of Publications by Year
in descending order



| 82 | 7,816 | 53794 45 | 74163 75 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 82 | 82 | 82 | 7351 |
|---|---|---|---|
| all docs | docs citations | times ranked | 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: GABAA, Î³-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 |

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

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|---|---|---|---|
| 37 | Role of microglia in a mouse model of paediatric traumatic brain injury. Brain, Behavior, and Immunity, 2017, 63, 197-209. | 4.1 | 64 |
| 38 | Impact of Chemotherapy for Childhood Leukemia on Brain Morphology and Function. PLoS ONE, 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. Molecular and Cellular Proteomics, 2008, 7, 2293-2310. | 3.8 | 60 |
| 40 | Brain morphology alterations in the basal ganglia and the hypothalamus following prenatal exposure to antiepileptic drugs. European Journal of Paediatric Neurology, 2007, 11, 297-301. | 1.6 | 59 |
| 41 | Aminooxyacetic acid produces excitotoxic lesions in the rat striatum. Synapse, 1991, 9, 129-135. | 1.2 | 58 |
| 42 | Glutamate signaling and the fetal alcohol syndrome. Mental Retardation and Developmental Disabilities Research Reviews, 2001, 7, 267-275. | 3.6 | 58 |
| 43 | Glutamate and GABA receptor dysfunction in the fetal alcohol syndrome. Neurotoxicity Research, 2002, 4, 315-325. | 2.7 | 58 |
| 44 | Internalisation of engineered nanoparticles into mammalian cells in vitro: influence of cell type and particle properties. Journal of Nanoparticle Research, 2011, 13, 293-310. | 1.9 | 55 |
| 45 | Prevention of trauma-induced neurodegeneration in infant and adult rat brain: Glutamate antagonists. Metabolic Brain Disease, 1996, 11, 125-141. | 2.9 | 50 |
| 46 | Effect of Aminophylline on the Protective Action of Common Antiepileptic Drugs Against Electroconvulsions in Mice. Epilepsia, 1986, 27, 204-208. | 5.1 | 45 |
| 47 | Apoptotic neurodegeneration in the context of traumatic injury to the developing brain. Experimental and Toxicologic Pathology, 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. PLoS ONE, 2014, 9, e92831. | 2.5 | 37 |
| 49 | Chemotherapy and the pediatric brain. Molecular and Cellular Pediatrics, 2018, 5, 8. | 1.8 | 35 |
| 50 | Aminophylline and CGS 8216 Reverse the Protective Action of Diazepam Against Electroconvulsions in Mice. Epilepsia, 1985, 26, 693-696. | 5.1 | 32 |
| 51 | Environmental Agents That Have the Potential to Trigger Massive Apoptotic Neurodegeneration in the Developing Brain. Environmental Health Perspectives, 2000, 108, 383. | 6.0 | 32 |
| 52 | Neuropathological and biochemical features of traumatic injury in the developing brain. Neurotoxicity Research, 2003, 5, 475-490. | 2.7 | 31 |
| 53 | Neuropathological Sequelae of Developmental Exposure to Antiepileptic and Anesthetic Drugs. Frontiers in Neurology, 2012, 3, 120. | 2.4 | 29 |
| 54 | Non-functionalized soft alginate hydrogel promotes locomotor recovery after spinal cord injury in a rat hemimyelonectomy model. Acta Neurochirurgica, 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. Restorative Neurology and Neuroscience, 2017, 35, 631-642. | 0.7 | 25 |
| 56 | Matrix metalloproteinases and epileptogenesis. Molecular and Cellular Pediatrics, 2014, 1, 6. | 1.8 | 24 |
| 57 | Riluzole Inhibits Proliferation, Migration and Cell Cycle Progression and Induces Apoptosis in Tumor Cells of Various Origins. Anti-Cancer Agents in Medicinal Chemistry, 2018, 18, 565-572. | 1.7 | 21 |
| 58 | Mild hypothermia ameliorates anesthesia toxicity in the neonatal macaque brain. Neurobiology of Disease, 2019, 130, 104489. | 4.4 | 19 |
| 59 | Glutamate antagonists are neurotoxins for the developing brain. Neurotoxicity Research, 2007, 11, 203-218. | 2.7 | 17 |
| 60 | Mechanisms of neurodegeneration after paediatric brain injury. Current Opinion in Neurology, 2000, 13, 141-145. | 3.6 | 17 |
| 61 | Of Mice and Men: Should We Extrapolate Rodent Experimental Data to the Care of Human Neonates?. Anesthesiology, 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. Proteomics - Clinical Applications, 2007, 1, 640-649. | 1.6 | 13 |
| 63 | Caffeine Augments Anesthesia Neurotoxicity in the Fetal Macaque Brain. Scientific Reports, 2018, 8, 5302. | 3.3 | 11 |
| 64 | Clemastine effects in rat models of a myelination disorder. Pediatric Research, 2018, 83, 1200-1206. | 2.3 | 11 |
| 65 | Brain pathology caused in the neonatal macaque by short and prolonged exposures to anticonvulsant drugs. Neurobiology of Disease, 2021, 149, 105245. | 4.4 | 11 |
| 66 | Prenatal Effects of Antiepileptic Drugs. Epilepsy Currents, 2010, 10, 42-46. | 0.8 | 9 |
| 67 | Quantitative ultrasound and apoptotic death in the neonatal primate brain. Neurobiology of Disease, 2019, 127, 554-562. | 4.4 | 9 |
| 68 | Pharmacology of the AMPA Antagonist 2,3-Dihydroxy-6-Nitro-7-Sulfamoylbenzo-(F)-Quinoxaline. Annals of the New York Academy of Sciences, 1997, 825, 394-402. | 3.8 | 7 |
| 69 | Isobaric Labeling Strategy Utilizing 4-Plex N,N-Dimethyl Leucine (DiLeu) Tags Reveals Proteomic Changes Induced by Chemotherapy in Cerebrospinal Fluid of Children with B-Cell Acute Lymphoblastic Leukemia. Journal of Proteome Research, 2020, 19, 2606-2616. | 3.7 | 7 |
| 70 | AMPA Receptor Antagonist CFM-2 Decreases Survivin Expression in Cancer Cells. Anti-Cancer Agents in Medicinal Chemistry, 2018, 18, 591-596. | 1.7 | 6 |
| 71 | Effects of Soy-Based Infant Formula on Weight Gain and Neurodevelopment in an Autism Mouse Model. Cells, 2022, 11, 1350. | 4.1 | 6 |
| 72 | Cerebrospinal Fluid Biomarkers in Childhood Leukemias. Cancers, 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 | Excitoxicity 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€“ 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 |