Joseph Coyle

List of Publications by Citations

315 papers	37,864 citations	86 h-index	190 g-index
343 ext. papers	40,269 ext. citations	7.8 avg, IF	7.39 L-index

#	Paper	IF	Citations
315	Oxidative stress, glutamate, and neurodegenerative disorders. *Science*, **1993**, 262, 689-95	33.3	3346
314	Alzheimer's disease and senile dementia: loss of neurons in the basal forebrain. *Science*, **1982**, 215, 1237-9	33.3	3072
313	Alzheimer's disease: a disorder of cortical cholinergic innervation. *Science*, **1983**, 219, 1184-90	33.3	2801
312	Alzheimer disease: evidence for selective loss of cholinergic neurons in the nucleus basalis. *Annals of Neurology*, **1981**, 10, 122-6	9.4	1507
311	Lesion of striatal neurones with kainic acid provides a model for Huntington's chorea. *Nature*, **1976**, 263, 244-6	50.4	1160
310	Glutamate toxicity in a neuronal cell line involves inhibition of cystine transport leading to oxidative stress. *Neuron*, **1989**, 2, 1547-58	13.9	822
309	Circuit-based framework for understanding neurotransmitter and risk gene interactions in schizophrenia. *Trends in Neurosciences*, **2008**, 31, 234-42	13.3	765
308	The emerging role of glutamate in the pathophysiology and treatment of schizophrenia. *American Journal of Psychiatry*, **2001**, 158, 1367-77	11.9	745
307	Glutamate and schizophrenia: beyond the dopamine hypothesis. *Cellular and Molecular Neurobiology*, **2006**, 26, 365-84	4.6	658
306	Abnormal excitatory amino acid metabolism in amyotrophic lateral sclerosis. *Annals of Neurology*, **1990**, 28, 18-25	9.4	541
305	D-serine added to antipsychotics for the treatment of schizophrenia. *Biological Psychiatry*, **1998**, 44, 1081-9	7.9	539
304	Neurobiology of schizophrenia. *Neuron*, **2006**, 52, 139-53	13.9	526
303	Glutamatergic mechanisms in schizophrenia. *Annual Review of Pharmacology and Toxicology*, **2002**, 42, 165-79	17.9	515
302	Nicotinic acetylcholine binding sites in Alzheimer's disease. *Brain Research*, **1986**, 371, 146-51	3.7	510
301	In situ injection of kainic acid: a new method for selectively lesioning neural cell bodies while sparing axons of passage. *Journal of Comparative Neurology*, **1978**, 180, 301-23	3.4	495
300	Striatal lesions with kainic acid: neurochemical characteristics. *Brain Research*, **1977**, 127, 235-49	3.7	443
299	The glutamatergic dysfunction hypothesis for schizophrenia. *Harvard Review of Psychiatry*, **1996**, 3, 241-53	4.1	440

298	Topographic analysis of the innervation of the rat neocortex and hippocampus by the basal forebrain cholinergic system. *Journal of Comparative Neurology*, **1983**, 217, 103-21	3.4	425
297	Neurochemical aspects of the ontogenesis of cholinergic neurons in the rat brain. *Brain Research*, **1976**, 118, 429-40	3.7	412
296	Dopamine receptors localised on cerebral cortical afferents to rat corpus striatum. *Nature*, **1978**, 271, 766-8	50.4	381
295	Immature cortical neurons are uniquely sensitive to glutamate toxicity by inhibition of cystine uptake. *FASEB Journal*, **1990**, 4, 1624-1633	0.9	364
294	Converging evidence of NMDA receptor hypofunction in the pathophysiology of schizophrenia. *Annals of the New York Academy of Sciences*, **2003**, 1003, 318-27	6.5	356
293	N-acetylaspartate in neuropsychiatric disorders. *Progress in Neurobiology*, **1995**, 46, 531-40	10.9	352
292	A placebo-controlled trial of D-cycloserine added to conventional neuroleptics in patients with schizophrenia. *Archives of General Psychiatry*, **1999**, 56, 21-7		349
291	N-acetyl-aspartyl-glutamate: regional levels in rat brain and the effects of brain lesions as determined by a new HPLC method. *Journal of Neurochemistry*, **1984**, 43, 1136-42	6	327
290	The role of glutamatergic neurotransmission in the pathophysiology of alcoholism. *Annual Review of Medicine*, **1998**, 49, 173-84	17.4	325
289	Finding the intracellular signaling pathways affected by mood disorder treatments. *Neuron*, **2003**, 38, 157-60	13.9	321
288	Tyrosine hydroxylase in rat brain--cofactor requirements, regional and subcellular distribution. *Biochemical Pharmacology*, **1972**, 21, 1935-44	6	285
287	NMDA receptor and schizophrenia: a brief history. *Schizophrenia Bulletin*, **2012**, 38, 920-6	1.3	274
286	Kainic acid stimulates excitatory amino acid neurotransmitter release at presynaptic receptors. *Nature*, **1982**, 298, 757-9	50.4	270
285	Targeted disruption of serine racemase affects glutamatergic neurotransmission and behavior. *Molecular Psychiatry*, **2009**, 14, 719-27	15.1	244
284	Memory impairments following basal forebrain lesions. *Brain Research*, **1985**, 346, 8-14	3.7	244
283	The distribution and orientation of noradrenergic fibers in neocortex of the rat: an immunofluorescence study. *Journal of Comparative Neurology*, **1978**, 181, 17-39	3.4	222
282	Prefrontal cortical dendritic spine pathology in schizophrenia and bipolar disorder. *JAMA Psychiatry* , **2014**, 71, 1323-31	14.5	217
281	Influence of cortico-striatal afferents on striatal kainic acid neurotoxicity. *Neuroscience Letters*, **1978**, 8, 303-10	3.3	209

280	Galantamine, a cholinesterase inhibitor that allosterically modulates nicotinic receptors: effects on the course of Alzheimer's disease. *Biological Psychiatry*, **2001**, 49, 289-99	7.9	206
279	Markers of glutamatergic neurotransmission and oxidative stress associated with tardive dyskinesia. *American Journal of Psychiatry*, **1998**, 155, 1207-13	11.9	201
278	Oxidative stress-driven parvalbumin interneuron impairment as a common mechanism in models of schizophrenia. *Molecular Psychiatry*, **2017**, 22, 936-943	15.1	187
277	Histological and neurochemical effects of fetal treatment with methylazoxymethanol on rat neocortex in adulthood. *Brain Research*, **1979**, 170, 135-55	3.7	185
276	Selective destruction of neurons by a transmitter agonist. *Science*, **1977**, 198, 71-2	33.3	185
275	Gene knockout of glycine transporter 1: characterization of the behavioral phenotype. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 8485-90	11.5	173
274	The NMDA receptor glycine modulatory site: a therapeutic target for improving cognition and reducing negative symptoms in schizophrenia. *Psychopharmacology*, **2004**, 174, 32-8	4.7	172
273	The role of brain dopamine in behavioral regulation and the actions of psychotropic drugs. *American Journal of Psychiatry*, **1970**, 127, 199-207	11.9	170
272	Glutamate and related acidic excitatory neurotransmitters: from basic science to clinical application. *FASEB Journal*, **1987**, 1, 446-55	0.9	169
271	The differential effect of right versus left hemispheric cerebral infarction on catecholamines and behavior in the rat. *Brain Research*, **1980**, 188, 63-78	3.7	169
270	Structure-activity relations for the neurotoxicity of kainic acid derivatives and glutamate analogues. *Neuropharmacology*, **1978**, 17, 145-51	5.5	166
269	Dopaminergic dsyfunction in Tourette syndrome. *Annals of Neurology*, **1982**, 12, 361-6	9.4	165
268	Major innervation of newborn rat cortex by monoaminergic neurons. *Science*, **1977**, 196, 444-7	33.3	159
267	The GABA-glutamate connection in schizophrenia: which is the proximate cause?. *Biochemical Pharmacology*, **2004**, 68, 1507-14	6	156
266	Multiple risk pathways for schizophrenia converge in serine racemase knockout mice, a mouse model of NMDA receptor hypofunction. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, E2400-9	11.5	149
265	The nagging question of the function of N-acetylaspartylglutamate. *Neurobiology of Disease*, **1997**, 4, 231-8	7.5	147
264	The NMDA receptor glycine modulatory site in schizophrenia: D-serine, glycine, and beyond. *Current Opinion in Pharmacology*, **2015**, 20, 109-15	5.1	142
263	Neurochemical sequelae of kainate injections in corpus striatum and substantia nigra of the rat. *Life Sciences*, **1977**, 20, 431-6	6.8	131

262	Glutamatergic synaptic dysregulation in schizophrenia: therapeutic implications. *Handbook of Experimental Pharmacology*, **2012**, 267-95	3.2	130
261	Biochemical aspects of neurotransmission in the developing brain. *International Review of Neurobiology*, **1977**, 20, 65-103	4.4	130
260	Intracellular modulation of NMDA receptor function by antipsychotic drugs. *Journal of Neuroscience* , **2000**, 20, 4011-20	6.6	128
259	Neuroplasticity signaling pathways linked to the pathophysiology of schizophrenia. *Neuroscience and Biobehavioral Reviews*, **2011**, 35, 848-70	9	123
258	Anatomical predictors of behavioral recovery following fetal striatal transplants. *Brain Research*, **1986**, 365, 249-58	3.7	121
257	Glutamate hypothesis in schizophrenia. *Psychiatry and Clinical Neurosciences*, **2019**, 73, 204-215	6.2	117
256	Low cerebrospinal fluid glutamate and glycine in refractory affective disorder. *Biological Psychiatry*, **2007**, 61, 162-6	7.9	117
255	DOPA decarboxylase in the developing rat brain. *Brain Research*, **1972**, 41, 503-6	3.7	117
254	Platelet serotonin, a possible marker for familial autism. *Journal of Autism and Developmental Disorders*, **1991**, 21, 51-9	4.6	114
253	Cell selective conditional null mutations of serine racemase demonstrate a predominate localization in cortical glutamatergic neurons. *Cellular and Molecular Neurobiology*, **2012**, 32, 613-24	4.6	113
252	Rotational behaviour in rats with unilateral striatal kainic acid lesions: a behavioural model for studies on intact dopamine receptors. *Brain Research*, **1979**, 170, 485-95	3.7	111
251	The Rise and Fall of the d-Serine-Mediated Gliotransmission Hypothesis. *Trends in Neurosciences*, **2016**, 39, 712-721	13.3	110
250	Inhibition of [3H]kainic acid receptor binding by divalent cations correlates with ion affinity for the calcium channel. *Neuropharmacology*, **1987**, 26, 1247-51	5.5	107
249	Ontogeny of neurochemical markers for noradrenergic, GABAergic, and cholinergic neurons in neocortex lesioned with methylazoxymethanol acetate. *Journal of Neurochemistry*, **1980**, 34, 1429-41	6	107
248	Folate, homocysteine, and negative symptoms in schizophrenia. *American Journal of Psychiatry*, **2004**, 161, 1705-8	11.9	105
247	NMDA receptor function, neuroplasticity, and the pathophysiology of schizophrenia. *International Review of Neurobiology*, **2004**, 59, 491-515	4.4	104
246	Basal forebrain lesions produce a dissociation of trial-dependent and trial-independent memory performance. *Brain Research*, **1985**, 345, 315-21	3.7	104
245	Characterization of specific, high-affinity binding sites for L-[3H]glutamic acid in rat brain membranes. *Brain Research*, **1980**, 183, 421-33	3.7	101

244	Effects of cortical ablation on the neurotoxicity and receptor binding of kainic acid in striatum. *Journal of Neuroscience Research*, **1979**, 4, 383-98	4.4	99
243	Kainic acid-induced lipid peroxidation: protection with butylated hydroxytoluene and U78517F in primary cultures of cerebellar granule cells. *Brain Research*, **1993**, 624, 223-32	3.7	98
242	Reductions in acidic amino acids and N-acetylaspartylglutamate in amyotrophic lateral sclerosis CNS. *Brain Research*, **1991**, 556, 151-6	3.7	96
241	Uptake and Subcellular Localization of Neurotransmitters in the Brain. *International Review of Neurobiology*, **1970**, 13, 127-158	4.4	96
240	Mind glue: implications of glial cell biology for psychiatry. *Archives of General Psychiatry*, **2000**, 57, 90-3		95
239	Probing the lithium-response pathway in hiPSCs implicates the phosphoregulatory set-point for a cytoskeletal modulator in bipolar pathogenesis. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E4462-E4471	11.5	93
238	Characterization of [3H]hemicholinium-3 binding associated with neuronal choline uptake sites in rat brain membranes. *Brain Research*, **1985**, 348, 321-30	3.7	93
237	Serine racemase deletion disrupts memory for order and alters cortical dendritic morphology. *Genes, Brain and Behavior*, **2011**, 10, 210-22	3.6	92
236	D-serine and serine racemase are localized to neurons in the adult mouse and human forebrain. *Cellular and Molecular Neurobiology*, **2014**, 34, 419-35	4.6	91
235	Ionotropic glutamate receptors as therapeutic targets in schizophrenia. *CNS and Neurological Disorders*, **2002**, 1, 183-9		91
234	Local and distant neuronal degeneration following intrastriatal injection of kainic acid. *Journal of Neuropathology and Experimental Neurology*, **1980**, 39, 245-64	3.1	90
233	Glutamate carboxypeptidase II is expressed by astrocytes in the adult rat nervous system. *Journal of Comparative Neurology*, **1999**, 415, 52-64	3.4	89
232	Co-localization of N-acetyl-aspartyl-glutamate in central cholinergic, noradrenergic, and serotonergic neurons. *Synapse*, **1987**, 1, 455-60	2.4	89
231	Immunocytochemical localization of the N-acetyl-aspartyl-glutamate (NAAG) hydrolyzing enzyme N-acetylated alpha-linked acidic dipeptidase (NAALADase). *Journal of Comparative Neurology*, **1992**, 315, 217-29	3.4	88
230	Striatal opiate receptors: pre- and postsynaptic localization. *Life Sciences*, **1980**, 27, 1175-83	6.8	86
229	Excitatory amino acids in amyotrophic lateral sclerosis: an update. *Annals of Neurology*, **1991**, 30, 224-5	9.4	85
228	Discovery of an allosteric mechanism for the regulation of HCV NS3 protein function. *Nature Chemical Biology*, **2012**, 8, 920-5	11.7	84
227	Serine racemase deletion protects against cerebral ischemia and excitotoxicity. *Journal of Neuroscience*, **2010**, 30, 1413-6	6.6	84

226	Cholinergic innervation of mouse forebrain structures. *Journal of Comparative Neurology*, **1994**, 341, 117-29	3.4	84
225	Folylpoly-gamma-glutamate carboxypeptidase from pig jejunum. Molecular characterization and relation to glutamate carboxypeptidase II. *Journal of Biological Chemistry*, **1998**, 273, 20417-24	5.4	80
224	Down syndrome, Alzheimer's disease and the trisomy 16 mouse. *Trends in Neurosciences*, **1988**, 11, 390-4	13.3	80
223	3.2 PARVALBUMIN INTERNEURON IMPAIRMENT INDUCED BY OXIDATIVE STRESS AS A COMMON PATHOLOGICAL MECHANISM IN ANIMAL MODELS OF SCHIZOPHRENIA. *Schizophrenia Bulletin*, **2018**, 44, S1-S2	1.3	78
222	Long-term sequelae of striatal kainate lesion. *Brain Research*, **1978**, 152, 626-32	3.7	77
221	Methylazoxymethanol treatment of fetal rats results in abnormally dense noradrenergic innervation of neocortex. *Science*, **1979**, 203, 369-71	33.3	76
220	Detection of the effects of dopamine receptor supersensitivity using pharmacological MRI and correlations with PET. *Synapse*, **2000**, 36, 57-65	2.4	74
219	Dipeptides of glutamate and aspartate may be endogenous neuroexcitants in the rat hippocampal slice. *Journal of Neuroscience*, **1985**, 5, 1429-33	6.6	74
218	The NMDA receptor co-agonists, D-serine and glycine, regulate neuronal dendritic architecture in the somatosensory cortex. *Neurobiology of Disease*, **2012**, 45, 671-82	7.5	73
217	The potential for muscarinic receptor subtype-specific pharmacotherapy for Alzheimer's disease. *Mayo Clinic Proceedings*, **1991**, 66, 1225-37	6.4	73
216	Acute extrapyramidal side effects: serum levels of neuroleptics and anticholinergics. *Psychopharmacology*, **1981**, 75, 9-15	4.7	73
215	Hydrolysis of the brain dipeptide N-acetyl-L-aspartyl-L-glutamate: subcellular and regional distribution, ontogeny, and the effect of lesions on N-acetylated-alpha-linked acidic dipeptidase activity. *Journal of Neurochemistry*, **1988**, 50, 1200-9	6	72
214	Calcium-dependent glutamate cytotoxicity in a neuronal cell line. *Brain Research*, **1988**, 444, 325-32	3.7	72
213	Ethics: Moral issues of human-non-human primate neural grafting. *Science*, **2005**, 309, 385-6	33.3	71
212	Enhanced NAD(P)H:quinone reductase activity prevents glutamate toxicity produced by oxidative stress. *Journal of Neurochemistry*, **1991**, 56, 990-5	6	71
211	Decreased cortical glucose utilization after ibotenate lesion of the rat ventromedial globus pallidus. *Journal of Cerebral Blood Flow and Metabolism*, **1984**, 4, 381-90	7.3	71
210	A long-acting cholinesterase inhibitor reverses spatial memory deficits in mice. *Pharmacology Biochemistry and Behavior*, **1988**, 31, 141-7	3.9	70
209	The immunohistochemical demonstration of noradrenergic neurons in the rat brain: The use of homologous antiserum to dopamine-beta-hydroxylase. *Neuroscience Letters*, **1977**, 4, 127-34	3.3	70

208	Phylogenetic distribution of [3H]kainic acid receptor binding sites in neuronal tissue. *Brain Research* , **1980**, 192, 463-76	3.7	68
207	The Neurobiology of N-Acetylasparty. *International Review of Neurobiology*, **1988**, 39-100	4.4	67
206	Glutamate neurotoxicity and the inhibition of protein synthesis in the hippocampal slice. *Journal of Neurochemistry*, **1991**, 56, 996-1006	6	66
205	Cortical degeneration with swollen chromatolytic neurons: its relationship to Pick's disease. *Journal of Neuropathology and Experimental Neurology*, **1986**, 45, 268-84	3.1	65
204	Substance use disorders and Schizophrenia: a question of shared glutamatergic mechanisms. *Neurotoxicity Research*, **2006**, 10, 221-33	4.3	64
203	Calcium-dependent evoked release of N-[3H]acetylaspartylglutamate from the optic pathway. *Journal of Neurochemistry*, **1988**, 51, 1956-9	6	64
202	Primary degenerative dementia without Alzheimer pathology. *Canadian Journal of Neurological Sciences*, **1986**, 13, 462-70	1	64
201	Effects of different doses of galanthamine, a long-acting acetylcholinesterase inhibitor, on memory in mice. *Psychopharmacology*, **1990**, 102, 191-200	4.7	63
200	Cerebrospinal fluid acetylcholinesterase activity in senile dementia of the Alzheimer type. *Annals of Neurology*, **1985**, 17, 46-8	9.4	63
199	Glutamatergic neurotransmission involves structural and clinical deficits of schizophrenia. *Biological Psychiatry*, **1998**, 44, 667-74	7.9	62
198	Psychotropic drug use in very young children. *JAMA - Journal of the American Medical Association*, **2000**, 283, 1059-60	27.4	62
197	Somatostatin is not co-localized in cholinergic neurons innervating the rat cerebral cortex-hippocampal formation. *Brain Research*, **1982**, 243, 169-72	3.7	62
196	Identity of endogenous NMDAR glycine site agonist in amygdala is determined by synaptic activity level. *Nature Communications*, **2013**, 4, 1760	17.4	61
195	NAAG reduces NMDA receptor current in CA1 hippocampal pyramidal neurons of acute slices and dissociated neurons. *Neuropsychopharmacology*, **2005**, 30, 7-16	8.7	60
194	Selective immunocytochemical staining of mitral cells in rat olfactory bulb with affinity purified antibodies against N-acetyl-aspartyl-glutamate. *Brain Research*, **1987**, 402, 373-8	3.7	60
193	Ube3a mRNA and protein expression are not decreased in Mecp2R168X mutant mice. *Brain Research*, **2007**, 1180, 1-6	3.7	59
192	Cytotoxic lesions and the development of transmitter systems. *Trends in Neurosciences*, **1982**, 5, 153-156	13.3	59
191	Use it or lose it--do effortful mental activities protect against dementia?. *New England Journal of Medicine*, **2003**, 348, 2489-90	59.2	58

190	Enhanced astrocytic d-serine underlies synaptic damage after traumatic brain injury. *Journal of Clinical Investigation*, **2017**, 127, 3114-3125	15.9	57
189	N-acetylaspartylglutamate, N-acetylaspartate, and N-acetylated alpha-linked acidic dipeptidase in human brain and their alterations in Huntington and Alzheimer's diseases. *Molecular and Chemical Neuropathology*, **1997**, 31, 97-118		56
188	Galanthamine, an acetylcholinesterase inhibitor: a time course of the effects on performance and neurochemical parameters in mice. *Pharmacology Biochemistry and Behavior*, **1989**, 34, 129-37	3.9	56
187	Do maternal folate and homocysteine levels play a role in neurodevelopmental processes that increase risk for schizophrenia?. *Harvard Review of Psychiatry*, **2005**, 13, 197-205	4.1	55
186	Developmental expression of somatostatin in mouse brain. II. In situ hybridization. *Developmental Brain Research*, **1990**, 53, 26-39		55
185	Rapid regulation of [3H]hemicholinium-3 binding sites in the rat brain. *Brain Research*, **1986**, 381, 191-4	3.7	55
184	Beyond the dopamine receptor: novel therapeutic targets for treating schizophrenia. *Dialogues in Clinical Neuroscience*, **2010**, 12, 359-82	5.7	53
183	Site-directed mutagenesis of predicted active site residues in glutamate carboxypeptidase II. *Molecular Pharmacology*, **1999**, 55, 179-85	4.3	51
182	Developmental expression of somatostatin in mouse brain. I. Immunocytochemical studies. *Developmental Brain Research*, **1990**, 53, 6-25		51
181	Regional heterogeneity of choline acetyltransferase activity in primate neocortex. *Brain Research*, **1984**, 322, 361-4	3.7	51
180	Noradrenergic innervation patterns in three regions of medial cortex: an immunofluorescence characterization. *Brain Research Bulletin*, **1979**, 4, 849-57	3.9	51
179	Dysregulated protocadherin-pathway activity as an intrinsic defect in induced pluripotent stem cell-derived cortical interneurons from subjects with schizophrenia. *Nature Neuroscience*, **2019**, 22, 229-242	25.5	50
178	Effects of over- and under-expression of Cu,Zn-superoxide dismutase on the toxicity of glutamate analogs in transgenic mouse striatum. *Brain Research*, **1998**, 789, 32-9	3.7	49
177	Lateralization of catecholaminergic and behavioral response to cerebral infarction in the rat. *Life Sciences*, **1979**, 24, 943-50	6.8	49
176	N-acetylated alpha-linked acidic dipeptidase is expressed by non-myelinating Schwann cells in the peripheral nervous system. *Journal of Neurocytology*, **1995**, 24, 99-109		48
175	Head and trunk neural crest in vitro: autonomic neuron differentiation. *Developmental Biology*, **1980**, 77, 340-8	3.1	48
174	An mGlu5-Positive Allosteric Modulator Rescues the Neuroplasticity Deficits in a Genetic Model of NMDA Receptor Hypofunction in Schizophrenia. *Neuropsychopharmacology*, **2016**, 41, 2052-61	8.7	47
173	The effects of N-acetylated alpha-linked acidic dipeptidase (NAALADase) inhibitors on [3H]NAAG catabolism in vivo. *Neuroscience Letters*, **1989**, 100, 295-300	3.3	45

172	Effects of kainic acid on high-energy metabolites in the mouse striatum. *Journal of Neurochemistry*, **1982**, 38, 196-203	6	45
171	Basal forebrain neurons provide major cholinergic innervation of primate neocortex. *Neuroscience Letters*, **1986**, 66, 215-20	3.3	44
170	Dissociation of nitric oxide generation and kainate-mediated neuronal degeneration in primary cultures of rat cerebellar granule cells. *Neuropharmacology*, **1992**, 31, 565-75	5.5	43
169	Hydrolysis of the neuropeptide N-acetylaspartylglutamate (NAAG) by cloned human glutamate carboxypeptidase II. *Brain Research*, **1998**, 795, 341-8	3.7	42
168	Distribution of N-acetylaspartylglutamate immunoreactivity in human brain and its alteration in neurodegenerative disease. *Brain Research*, **1997**, 772, 9-22	3.7	41
167	Functional magnetic resonance imaging studies of schizophrenic patients during word production: effects of D-cycloserine. *Psychiatry Research - Neuroimaging*, **2005**, 138, 23-31	2.9	41
166	Age-related recurrence of basal forebrain lesion-induced cholinergic deficits. *Neuroscience Letters*, **1987**, 82, 253-9	3.3	41
165	Synaptosomal transport of radiolabel from N-acetyl-aspartyl-[3H]glutamate suggests a mechanism of inactivation of an excitatory neuropeptide. *Journal of Neurochemistry*, **1986**, 47, 1013-9	6	40
164	Enhancement of NMDA receptor-mediated neurotoxicity in the hippocampal slice by depolarization and ischemia. *Brain Research*, **1991**, 555, 99-106	3.7	40
163	Subcellular localization of dopamine beta-hydroxylase and endogenous norepinephrine in the rat hypothalamus. *Brain Research*, **1974**, 65, 475-87	3.7	40
162	Neuronal D-serine regulates dendritic architecture in the somatosensory cortex. *Neuroscience Letters*, **2012**, 517, 77-81	3.3	39
161	Quisqualate selectively inhibits a brain peptidase which cleaves N-acetyl-L-aspartyl-L-glutamate in vitro. *European Journal of Pharmacology*, **1986**, 130, 345-7	5.3	39
160	Treating a child with Asperger's disorder and comorbid bipolar disorder. *American Journal of Psychiatry*, **2002**, 159, 13-21	11.9	39
159	NAAG, NMDA receptor and psychosis. *Current Medicinal Chemistry*, **2012**, 19, 1360-4	4.3	38
158	Glutamate carboxypeptidase II gene expression in the human frontal and temporal lobe in schizophrenia. *Neuropsychopharmacology*, **2004**, 29, 117-25	8.7	38
157	Reduced glycine transporter type 1 expression leads to major changes in glutamatergic neurotransmission of CA1 hippocampal neurones in mice. *Journal of Physiology*, **2005**, 563, 777-93	3.9	38
156	Developmental regulation of adult cortical morphology and behavior: an animal model for mental retardation. *International Journal of Developmental Neuroscience*, **1994**, 12, 239-53	2.7	38
155	Brain serotonin2 and serotonin1A receptors are altered in the congenitally hyperammonemic sparse fur mouse. *Journal of Neurochemistry*, **1992**, 58, 1016-22	6	37

154	Evoked release of aspartate and glutamate: disparities between prelabeling and direct measurement. *Brain Research*, **1983**, 278, 279-82	3.7	37
153	Genetically epilepsy-prone rats have increased brain regional activity of an enzyme which liberates glutamate from N-acetyl-aspartyl-glutamate. *Brain Research*, **1992**, 593, 140-3	3.7	36
152	Anorexia and altered serotonin metabolism in a patient with argininosuccinic aciduria. *Journal of Pediatrics*, **1986**, 108, 705-9	3.6	36
151	Neuronal localization of specific brain phosphoproteins. *Brain Research*, **1978**, 156, 345-50	3.7	36
150	Alterations of muscarinic cholinergic receptors in the rat striatum after kainic acid injections. *Brain Research*, **1978**, 152, 620-5	3.7	36
149	Avoidance conditioning in different strains of rats: neurochemical correlates. *Psychopharmacology*, **1973**, 31, 25-34	4.7	35
148	Modeling of context-dependent retrieval in hippocampal region CA1: implications for cognitive function in schizophrenia. *Schizophrenia Research*, **2007**, 89, 177-90	3.6	34
147	Endogenous N-acetylaspartylglutamate reduced NMDA receptor-dependent current neurotransmission in the CA1 area of the hippocampus. *Journal of Neurochemistry*, **2007**, 100, 346-57	6	34
146	L-type voltage-gated calcium channels modulate kainic acid neurotoxicity in cerebellar granule cells. *Brain Research*, **1999**, 828, 27-40	3.7	34
145	Behavioral and neurotransmitter changes in the urease-infused rat: a model of congenital hyperammonemia. *Pediatric Research*, **1986**, 20, 1310-5	3.2	34
144	Quantitation of N-acetyl-aspartyl-glutamate in microdissected rat brain nuclei and peripheral tissues: findings with a novel liquid phase radioimmunoassay. *Molecular Brain Research*, **1988**, 427, 223-31		34
143	Automated measurement of stereotypic behavior in rats.. *Behavioral Neuroscience*, **1983**, 97, 830-832	2.1	34
142	Astroglial Versus Neuronal D-Serine: Check Your Controls!. *Trends in Neurosciences*, **2017**, 40, 520-522	13.3	33
141	N-acetylaspartylglutamate (NAAG) protects against rat striatal quinolinic acid lesions in vivo. *Neuroscience Letters*, **1997**, 236, 91-4	3.3	33
140	The role of animal models in evaluating reasonable safety and efficacy for human trials of cell-based interventions for neurologic conditions. *Journal of Cerebral Blood Flow and Metabolism*, **2009**, 29, 1-9	7.3	32
139	Lesions of the basal forebrain alter stimulus-evoked metabolic activity in mouse somatosensory cortex. *Journal of Comparative Neurology*, **1989**, 288, 414-27	3.4	32
138	Rapid axonal transport of tyrosine hydroxylase and dopamine- -hydroxylase. *Brain Research*, **1972**, 44, 701-4	3.7	32
137	History of the Concept of Disconnectivity in Schizophrenia. *Harvard Review of Psychiatry*, **2016**, 24, 80-6	4.1	30

136	Chronic D-serine reverses arc expression and partially rescues dendritic abnormalities in a mouse model of NMDA receptor hypofunction. *Neurochemistry International*, **2014**, 75, 76-8	4.4	30
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